



PUB. 112
LIST OF LIGHTS

RADIO AIDS AND FOG SIGNALS

2019

WESTERN PACIFIC AND INDIAN OCEANS
INCLUDING THE PERSIAN GULF AND RED
SEA

IMPORTANT

**THIS PUBLICATION SHOULD BE CORRECTED
EACH WEEK FROM THE NOTICE TO MARINERS**

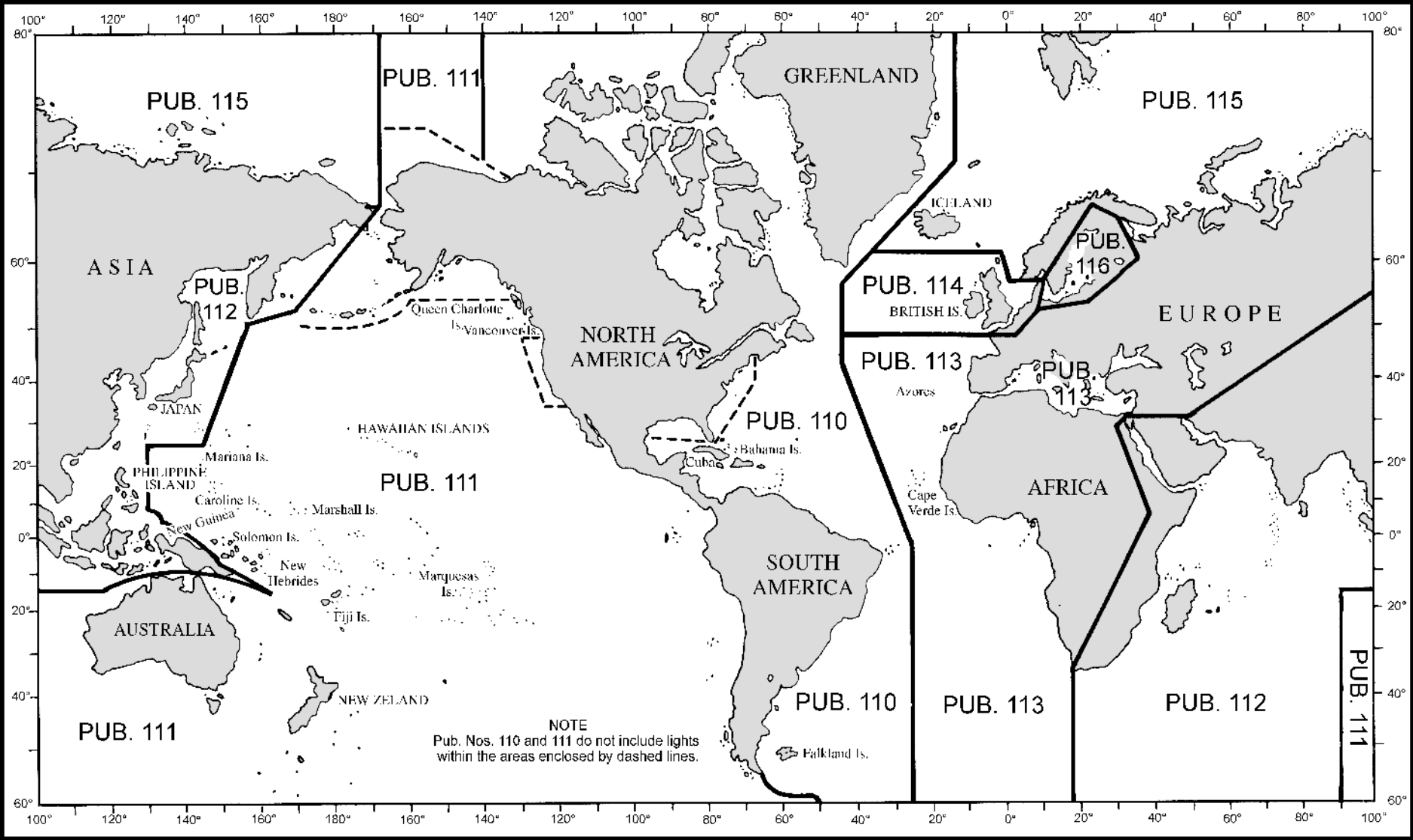


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Springfield, VA

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LIST OF LIGHTS LIMITS

NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY



WARNING ON USE OF FLOATING AIDS TO NAVIGATION TO FIX A NAVIGATIONAL POSITION

The aids to navigation depicted on charts comprise a system consisting of fixed and floating aids with varying degrees of reliability. Therefore, prudent mariners will not rely solely on any single aid to navigation, particularly a floating aid.

The buoy symbol is used to indicate the approximate position of the buoy body and the sinker which secures the buoy to the seabed. The approximate position is used because of practical limitations in positioning and maintaining buoys and their sinkers in precise geographical locations. These limitations include, but are not limited to, inherent imprecisions in position fixing methods, prevailing atmospheric and sea conditions, the slope of and the material making up the seabed, the fact that buoys are moored to sinkers by varying lengths of chain, and the fact that buoy and/or sinker positions are not under continuous surveillance but are normally checked only during periodic maintenance visits which often occur more than a year apart. The position of the buoy body can be expected to shift inside and outside the charting symbol due to the forces of nature. The mariner is also cautioned that buoys are liable to be carried away, shifted, capsized, sunk, etc. Lighted buoys may be extinguished or sound signals may not function as the result of ice or other natural causes, collisions, or other accidents.

For the foregoing reasons, a prudent mariner must not rely completely upon the position or operation of floating aids to navigation, but will also utilize bearings from fixed objects and aids to navigation on shore. Further, a vessel attempting to pass close aboard always risks collision with a yawing buoy or with the obstruction the buoy marks.

PREFACE

The 2019 edition of Pub. 112, List of Lights, Radio Aids and Fog Signals for the Western Pacific and Indian Oceans including the Persian Gulf and Red Sea, cancels the previous edition of Pub. 112.

This edition contains information available to the National Geospatial-Intelligence Agency (NGA) up to 1 June 2019, including Notice to Mariners No. 22 of 2019.

A summary of corrections subsequent to the above date will be in Section II of the Notice to Mariners which announced the issuance of this publication.

In the interval between new editions, corrective information affecting this publication will be published in the Notice to Mariners and must be applied in order to keep this publication current.

Nothing in the manner of presentation of information in this publication or in the arrangement of material implies endorsement or acceptance by NGA in matters affecting the status and boundaries of States and Territories.

RECORD OF CORRECTIONS PUBLISHED IN WEEKLY NOTICE TO MARINERS

NOTICE TO MARINERS

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INTRODUCTION

The National Geospatial-Intelligence Agency publishes a List of Lights, Radio Aids and Fog Signals in seven volumes divided geographically as shown on the index chartlet on the inside front cover of this book. Major fixed and outermost floating aids to navigation, such as sea buoys, safety fairway buoys, traffic separation buoys, etc., are listed. Other floating aids are not generally listed. Storm signals, signal stations, radio direction finders, radiobeacons, RACONs and RAMARKs located at or near lights are found in this List. Radiobeacons are listed in a separate section in the back of this publication.







The date to which this publication has been corrected can be found in the Preface. In the interval between new editions, corrective information affecting this publication will be published in Section II of Notice to Mariners, and must be applied to keep this publication current. All of these corrections should be applied in the appropriate places and their insertion noted in the "Record of Corrections."

Mariners and other users are requested to forward new or corrective information useful in the correction of this publication to:

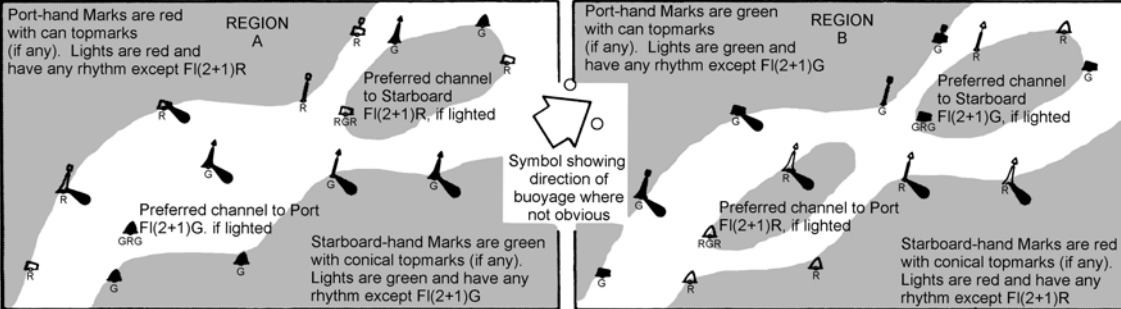
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Buoys and Beacons IALA* Buoyage System

Where in force, the IALA System applies to all fixed and floating marks and occasionally lighthouses, sector lights, range marks, lightships and LANBY's (large automatic navigational buoys).

The standard buoy shapes are cylindrical (can) , conical , spherical , pillar (including high focal plane) , and spar , but variations may occur, for example lightfloats . In the illustrations below, only the standard buoy shapes are used. In the case of fixed beacons (lighted or unlighted), only the shape of the topmark is of navigational significance.

Lateral Marks (used in conjunction with a conventional direction of buoyage) are generally for well-defined channels. There are two international Buoyage Regions-A and B-where Lateral marks differ.

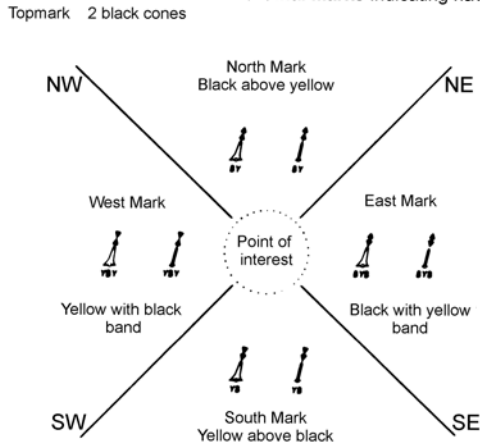


A preferred channel buoy may also be a pillar or a spar All preferred channel marks have three horizontal bands of color

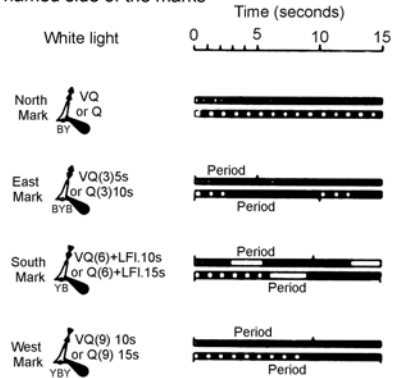
All marks other than Lateral Marks are the same in REGIONS A and B

UNLIGHTED MARKS

Cardinal Marks indicating navigable water to the named side of the marks



LIGHTED MARKS



* The same abbreviations are used for lights on spar buoys and beacons The periods, 5s, 10s and 15s, may not always be charted.

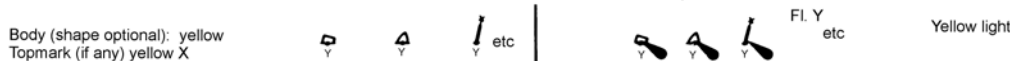
Isolated Danger Marks, stationed over dangers with navigable water around them.


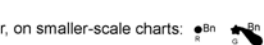


Safe Water Marks, such as mid-channel and landfall marks.



Special Marks, not primarily to assist navigation but to indicate special features.



BEACONS with IALA System topmarks are charted by upright symbols. eg.  (minor beacon) or, on smaller-scale charts: 

Beacon towers are charted:  (occasionally lighted)

RADAR REFLECTORS on buoys and beacons are not generally charted.

COLOR ABBREVIATIONS under symbols, especially those of spar buoys, may be omitted, or may be at variance with symbols shown above.

LIGHTFLOATS: The IALA System is not usually applied to large lightfloats (replacing manned lightships) but may be applied to smaller lightfloats.

* IALA is an abbreviation of International Association of Lighthouse Authorities

THE NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY MARITIME SAFETY WEBSITE

The National Geospatial-Intelligence Agency (NGA) Maritime Safety Website provides worldwide remote query access to extensive menus of maritime safety information 24 hours a day.

Databases made available for access, query and download include Chart Corrections, Publication Corrections, NGA/DLIS Catalog Corrections, Chart and Publication Reference Data (current edition number, dates, title, scale), NGA List of Lights, USCG Light Lists, World Wide Navigational Warning Service (WWNWS) Broadcast Warnings, Maritime Administration (MARAD) Advisories, Department of State Special Warnings, Mobile Offshore Drilling Units (MODUs), Anti-Shipping Activity Messages (ASAMs), World Port Index, and Radio Navigational Aids. Publications that are also made available as PDF files include the U.S. Notice to Mariners, U.S. Chart No. 1, The American Practical Navigator (Bowditch), International Code of Signals, Radio Navigational Aids, World Port Index, Distances Between Ports, Sight Reduction Tables for Marine and Air Navigation, and the Radar Navigation and Maneuvering Board Manual.

The Maritime Safety Website can be accessed via the NGA Homepage (www.nga.mil) under the Products and Services link or directly at <https://msi.nga.mil/NGAPortal/MSI.portal>. Any questions concerning the Maritime Safety Website should be directed to:

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SPRINGFIELD, VA 22150-7500

Telephone: (1) 571-557-7103 or DSN 547-7103
E-mail: webmaster_nss@nga.mil

DESCRIPTION

(Lights, Buoys, RACONs, RAMARKs)

Information is tabulated in eight columns as follows:

Column 1: The number assigned to each light, RACON or RAMARK by this Agency. International numbers are listed below this number in italic type and in a cross reference in the back of the book. RACONs and RAMARKs located at a light are listed with the light. Those not located at a light are assigned separate numbers.

Column 2: Name and descriptive location of the light or buoy, RACON or RAMARK. A dash (-) or dashes (--) in this column is used to reduce repetition of principal geographic names. This column is intended to describe the location of the navigational aid and to distinguish it from others in proximity. Differences in type indicate the following:

Bold-faced: Lights intended for landfall or having a visibility (range) of 15 miles or more.

Italics: Floating aids.

ITALICS CAPITALS: Lightships and LANBYs.

Roman: All other lights not mentioned above.

Column 3: Approximate latitude and longitude of a navigational aid to the nearest tenth of a minute, intended to facilitate chart orientation (use column 2 and the appropriate chart for precise positioning).

Column 4: Light, buoy, RACON or RAMARK characteristic (see Characteristics of Lights chart for explanation of lights).

Column 5: Height of light in feet (Roman type) equivalent measurement (below) given in meters (Bold-faced type).

Column 6: Range. The distance, expressed in nautical miles, that a light can be seen in clear weather or that a RACON or RAMARK can be received.

Column 7: Description of the structure and its height in feet.

Note—Stripes are vertical. Bands are horizontal. The use of the term “diagonal stripes” is the exception.

Column 8: Remarks—sectors, fog signals, radar reflectors, minor lights close by, radiobeacons, storm signals, signal stations, radio direction finders, and other pertinent information.

Geographic names or their spellings do not necessarily reflect recognition of the political status of an area by the

United States Government.

The names of lights may differ from geographic names on charts.

ABBREVIATIONS


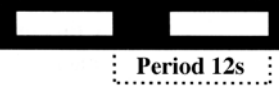








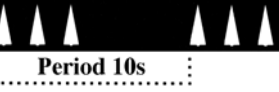


Where the lights of different countries intermingle in the list they are distinguished by the following letters:






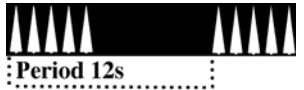




(Aus.)	Australia	(J.)	Japan
(C.)	China	(M.)	Malaysia
(F.)	France	(P.)	Portugal
(Ind.)	Indonesia	(T.)	Thailand
(In.)	Iran	(U.K.)	United Kingdom
(Iq.)	Iraq	(U.S.)	United States

Other abbreviations:

Al.—alternating	lt.—lit
bl.—blast	Mo.—Morse code
Bu.—blue	min.—minute
Dir.—directional	obsc.—obscured
ec.—eclipsed	Oc.—occluding
ev.—every	Or.—orange
F.—fixed	Q.—quick flashing
Fl.—flashing	R.—red
fl.—flash	s.—seconds
G.—green	si.—silent
horiz.—horizontal	U.Q.—ultra quick flashing
intens.—intensified	unintens.—unintensified
I.Q.—interrupted quick flashing	vert.—vertical
Iso.—isophase	Vi.—violet
I.V.Q.—interrupted very quick flashing	vis.—visible
Km.—kilometer (0.62137 mile)	V.Q.—very quick flashing
L.Fl.—long flashing	W.—white
	Y.—yellow

CHARACTERISTICS OF LIGHTS

TYPE	ABBR.	GENERAL DESCRIPTION	ILLUSTRATION
Fixed	F.	A continuous and steady light.	
Occulting	Oc.	The total duration of light in a period is longer than the total duration of darkness and the intervals of darkness (eclipses) are usually of equal duration. Eclipse regularly repeated.	
Group occulting	Oc.(2)	An occulting light for which a group of eclipses, specified in number, is regularly repeated.	
Composite group occulting	Oc.(2+1)	A light similar to a group occulting light except that successive groups in a period have different numbers of eclipses.	
Isophase	Iso.	A light for which all durations of light and darkness are clearly equal.	
Flashing	Fl.	A light for which the total duration of light in a period is shorter than the total duration of darkness and the appearances of light (flashes) are usually of equal duration (at a rate of less than 50 flashes per minute).	
Long flashing	L.Fl.	A single flashing light for which an appearance of light of not less than 2 sec. duration (long flash) is regularly repeated.	
Group flashing	Fl.(3)	A flashing light for which a group of flashes, specified in number, is regularly repeated.	
Composite group flashing	Fl.(2+1)	A light similar to a group flashing light except that successive groups in a period have different numbers of flashes.	
Quick flashing	Q.	A light for which a flash is regularly repeated at a rate of not less than 50 flashes per minute but less than 80 flashes per minute.	
Group quick flashing	Q.(3)	A light for which a specified group of flashes is regularly repeated; flashes are repeated at a rate of not less than 50 flashes per minute but less than 80 flashes per minute.	
	Q.(9)		
	Q.(6)+L.Fl.		

TYPE	ABBR.	GENERAL DESCRIPTION	ILLUSTRATION
Interrupted quick flashing	I.Q.	A light for which the sequence of quick flashes is interrupted by regularly repeated eclipses of constant and long duration.	
Very quick flashing	V.Q.	A light for which a flash is regularly repeated at a rate of not less than 80 flashes per minute but less than 160 flashes per minute.	
Group very quick flashing	V.Q.(3)	A light for which a specified group of very quick flashes is regularly repeated.	
	V.Q.(9)		
	V.Q.(6)+L.Fl.		
Interrupted very quick flashing	I.V.Q.	A light for which the sequence of very quick flashes is interrupted by regularly repeated eclipses of constant and long duration.	
Ultra quick flashing	U.Q.	A light for which a flash is regularly repeated at a rate of not less than 160 flashes per minute.	
Interrupted ultra quick flashing	I.U.Q.	A light for which the sequence of ultra quick flashes is interrupted by regularly repeated eclipses of constant and long duration.	
Morse code	Mo.(U)	A light for which appearances of light of two clearly different durations are grouped to represent a character or characters in Morse Code.	
Fixed and flashing	F.Fl.	A light for which a fixed light is combined with a flashing light of greater luminous intensity.	
Alternating light	Al.	A light showing different colors alternately.	

NOTE - Alternating lights may be used in combined form with most of the previous types of lights.

NOMENCLATURE OF LIGHTS

Lights exhibit a distinctive appearance by which they are recognized, e.g. Fixed, Flashing, Group Flashing, etc. The properties of their appearance, by which they are distinguished, are referred to as the *characteristics* of the light. The principal characteristics are generally the sequence of intervals of light and darkness, and, in some cases, the sequence of colors of light exhibited.

Fixed lights—those which exhibit a continuous steady light.

Rhythmic lights—those which exhibit a sequence of intervals of light and eclipse (repeated at regular intervals) in a manner described in Chart No. 1 and this volume.

Alternating lights—rhythmic lights which exhibit different colors during each sequence.

Period of a light—the time occupied by an entire cycle of intervals of light(s) and eclipse(s).

Range: Meteorological visibility—the greatest distance at which a black object of suitable dimensions can be seen and recognized against the horizon sky or, in the case of night observations, could be seen and recognized if the general illumination were raised to the normal daylight level.

Luminous range of a light—the greatest distance at which a light can be seen merely as a function of its luminous intensity, the meteorological visibility, and the sensitivity of the observer's eyes.

Nominal range of the light—the luminous range of a light in a homogeneous atmosphere in which the meteorological visibility is 10 nautical miles.

Geographical range of a light—the greatest distance at which a light can be seen as a function of the curvature of the earth, the height of the light source and the height of the observer.

The visibility of a light is usually the distance that it can be seen in clear weather and is expressed in nautical miles. Visibilities listed are values received from foreign sources.

Range lights—two or more lights at different elevations, so situated to form a range (leading line) when brought into transit. The light nearest the observer is the *front light* and the one farthest from the observer is the *rear light*. The front light is normally at a lower elevation than the rear light.

Directional lights—lights illuminating a sector of very narrow angle and intended to mark a direction to be followed.

Vertical lights—Two or more lights disposed vertically or geometrically to form a triangle, square, or other figure. If the individual lights serve different purposes, those of lesser importance are called *Auxiliary lights*.

Occasional lights—lights exhibited only when specially needed:

(a) *Tidal light*—shown at the entrance of a harbor, to indicate tide and tidal current conditions within the harbor.

(b) *Fishing light*—for the use of fishermen and shown when required.

(c) *Private light*—maintained by a private authority for its own purposes. The mariner should exercise special caution when using a private light for general navigation.

Seasonal lights—usually shown only during the navigation season or for a lesser time period within that season.

Articulated lights—offshore aids to navigation consisting of a length of pipe attached directly to a sinker by means of a pivot or such other device employing the principle of the universal joint. The positional integrity is intermediary between that of a buoy and a fixed aid.

Aeronautical lights—lights of high intensity which may be the first lights observed at night from vessels approaching the coast. Those lights situated near the coast are listed in the List of Lights in order that the navigator may be able to obtain more information concerning their description.

These lights are not designed or maintained for marine navigation and they are subject to change without prompt notification.

These lights are indicated in this List by the designation AVIATION LIGHT and are placed in geographical sequence in the body of the text along with lights for surface navigation.

Aeromarine lights—marine-type lights for which part of the beam is deflected to an angle of 10 to 15 degrees above the horizon to facilitate use by aircraft.

Sector limits and arcs of visibility—these are arranged clockwise and are given from seaward toward the light. Thus, in the diagram, the sectors of the light are defined as: obscured from shore to 302°, red to 358°, green to 052°, white to shore. These are bearings of the light as seen from a vessel crossing the sector lines.

Under some conditions of the atmosphere, white lights may have a reddish hue. The mariner should not judge solely by color where there are sectors but should verify this position by taking a bearing of the light. On either side of the line of demarcation between white and red there is always a small sector of uncertain color, as the edges of a sector of visibility cannot be clearly defined.

When a light is obscured by adjoining land and the arc of visibility is given, the bearing on which the light disappears may vary with the distance from which it is observed. When the light is cut off by a sloping point of land or hill, the light may be seen over a wider arc by a ship farther off than by one closer.

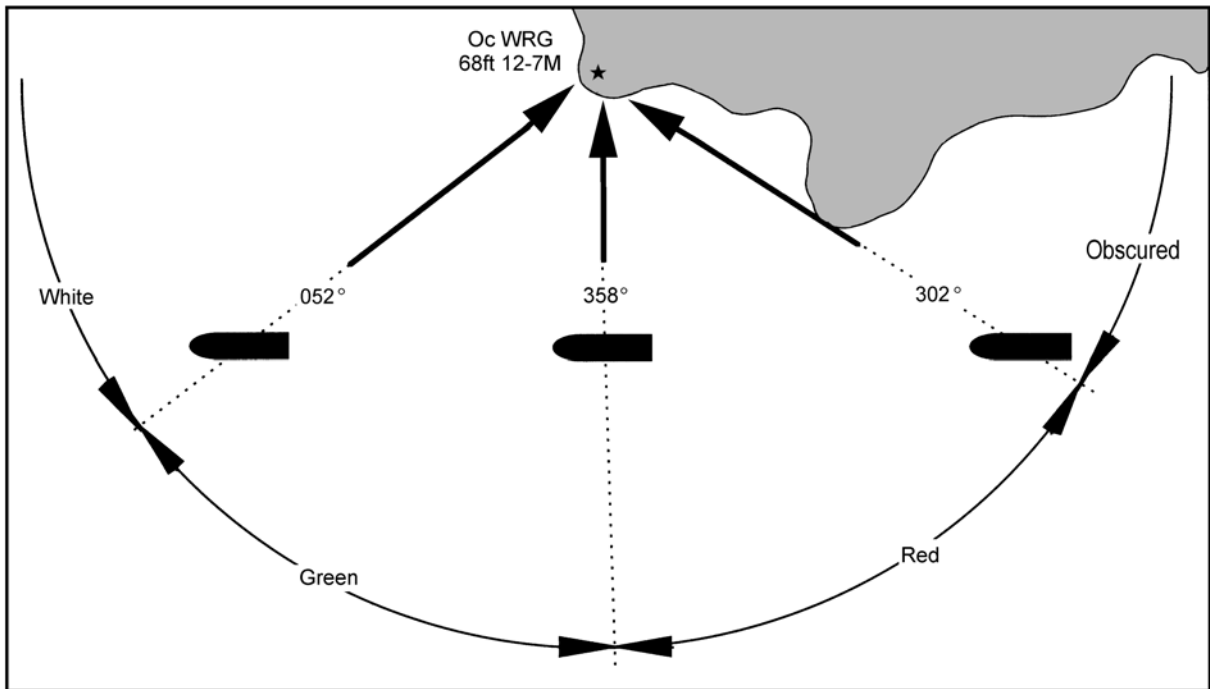
Bearings—all bearings are true, measured clockwise from 000°, and given in degrees or degrees and minutes.

Russian lights are shown throughout the winter when icebreakers are working.

The latest *Russian* charts and publications give only sufficient details for navigation to the ports open to interna-

tional trade. Thus, in this volume, only those lights along the routes to such ports can be assumed to be correct. Else-

where the latest available information, often not recent, is listed.



LIGHTSHIPS, SUPERBUOYS, AND OFFSHORE LIGHT STATIONS

Courses should be set to pass all floating aids to navigation with sufficient clearance to avoid the possibility of collision from any cause. Experience shows that floating aids to navigation cannot be safely used as leading marks to be passed close aboard, but should always be left broad off the course, whenever searoom permits.

When approaching a lightship, superbuoy, or a station on a submarine site on radio bearings, the risk of collision will be avoided by insuring that the radio bearing does not remain constant.

Most lightships and large buoys are anchored with a very long scope of chain and, as a result, the radius of their swinging circle is considerable. The charted position is the location of the anchor. Furthermore, under certain conditions of wind and current, they are subject to sudden and unexpected sheers which are certain to hazard a vessel attempting to pass close aboard.

During extremely heavy weather and due to their exposed locations, lightships may be carried off station. The mariner should, therefore, not implicitly rely on a lightship maintaining its precisely charted position during and immediately following severe storms. A lightship known to be off station will secure her light, fog signal, and radiobeacon and fly the International Code signal "LO" signifying "I am not in my correct position."

Lightships in *India* carry a white riding light on the forestay.

The following regulations have been established for lightships in the Hugli River:

A white light is exhibited from the forestay of each lightship, at a height of 2m, above the rail, for the purpose of showing in which direction the vessel is riding when at her station. Attended lightships out of position will not display their distinguishing mark; at night, the station light will be extinguished, a fixed red light shown at the bow and stern and red and white flares burnt every 15 minutes. If an attended lightship is in danger and requires assistance from shore, explosive rockets will be fired by day and, during fog, a bell will be rung at intervals of about 1 minute only when in danger of collision.

From 15 March to 31 October the pilot vessel on duty at Sandheads will exhibit, every 15 minutes between sunset and sunrise, a searchlight beam at an elevation of 30°. The light will be revolved from east, through south, to west and back again, the total period being 2 minutes.

Indonesian lights are unreliable, being frequently irregular or extinguished.

Lightships in *Iraq*, when out of position, will discontinue their characteristic lights and fog signals. They will show instead two black balls, one forward and one aft, or two red lights, one forward and one aft. In addition they will hoist the signal "LO" or will show a red and a white light, or flare-up light, every 15 minutes. Red flags may be

used instead of the black ball.

A lightship under way shows the same lights, and makes the same sound signals as other vessels under way, and by day hoists two black balls or red flags, one forward and one aft.

Korean lights are unreliable, being frequently irregular or extinguished.

Lights in the *Philippines* are unreliable, being frequently irregular or extinguished.

Lightships in *Thailand*, when out of position, discontinue their characteristic lights. They will show instead two black balls, one forward and one aft, and hoist the signal "LO" at the yardarm, or will show two red lights, one forward and one aft, and a white light simultaneously at least every 15 minutes.

The latest *Russian* charts and publications give only sufficient details for navigation to ports open to international trade. Thus, in this volume, only those lights along the routes to such ports can be assumed to be correct. Elsewhere the latest available information, often not of very recent date, is listed.

Lightships remain on their stations during the period of navigation only; if forced to leave stations on account of ice they are replaced as soon as possible.

By day they show a ball over a yellow flag with a blue St. George's cross and, by night, carry a white riding light. If a vessel is seen to be running into danger the signal "NF" of the International Code of Signals is hoisted, and if not immediately seen, rockets with two explosions and bright stars may be fired every minute; by night rockets only are used.

When not on their proper stations, the light vessels discontinue their characteristic lights and fog signals and, if possible, will lower their daymarks. They will show instead two black balls, one forward and one aft, or two red lights, one forward and one aft. In addition they will hoist the signal "LO" or show a red and a white flare-up light or flash simultaneously, at least every 15 minutes.

Red flags may be displayed in place of the black balls and red and a white light shown simultaneously may be used in place of the flare-up light or flash.

A lightship under way shows the same lights and makes the same sound signals as other vessels under way and, if preceding under its own power, hoists two black balls, one forward and one aft.

Reserve lightships are painted red and equipped with two masts. By day they display a red ball at each mast, and by night exhibit a fixed red light from the same positions. Fog signals are sounded and the warning signals described above are employed.

Fog bells at lighthouses and lightvessels are sounded, unless otherwise stated in the following uniform manner:

(a) at lighthouses: in groups of double strokes, the interval between the groups being not more than 3 minutes.

(b) at lightships: in groups of triple strokes, the interval between the groups being not more than 2 minutes.

When the fog signal of an approaching vessel is heard, the intervals between the double and triple strokes in the groups are reduced and the bell is sounded continuously in double or triple strokes until the vessel is past the light or clear of danger.

FOG SIGNALS

The function of a fog signal in the system of aids to navigation is to warn of danger and to provide the mariner with an audible means of approximating his position relative to the fog signal when the station, or any visual signal which it displays, is obscured from view by atmospheric conditions.

Fog signals depend upon the transmission of sound through air. As aids to navigation, they have certain inherent defects that should be considered. Sound travels through the air in a variable and frequently unpredictable manner.

It has been established that:

(a) fog signals are heard at greatly varying distances and that the distance at which a fog signal can be heard may vary with the bearing of the signal and may be different on different occasions;

(b) under certain conditions of atmosphere, when a fog signal has a combination of high and low tones, it is not unusual for one of the tones to be inaudible. In the case of sirens, which produce a varying tone, portions of the blast may not be heard;

(c) there are occasionally areas close to the signal in which it is wholly inaudible. This is particularly true when the fog signal is screened by intervening land or other obstructions;

(d) fog may exist a short distance from a station and not be observable from it, so that the signal may not be in operation;

(e) even though a fog signal may not be heard from the deck or bridge of a ship when the engines are in motion, it may be heard when the ship is stopped, or from a quiet position. Sometimes it may be heard from aloft though not on deck;

(f) the intensity of the sound emitted by a fog signal may be greater at a distance than in immediate proximity.

All these considerations point to the necessity for the utmost caution when navigating near land in fog. Particular attention should be given to placing lookouts in positions in which the noises in the ship are least likely to interfere with hearing a fog signal. Fog signals are valuable as warnings, but the mariner should not place implicit reliance upon them in navigating his vessel. They should be considered solely as warning devices.

Among the devices in common use as fog signals are:

Radiobeacons which broadcast simple dot-and-dash combinations by means of a transmitter emitting modulated continuous waves;

Diaphones which produce sound by means of a slotted reciprocating piston actuated by compressed air. Blasts

may consist of two tones of different pitch, in which case the first part of the blast is high and the last of a low pitch. These alternate pitch signals are called "two-tone;"

Diaphragm horns which produce sound by means of a diaphragm vibrated by compressed air, steam, or electricity. Duplex or triplex horn units of differing pitch produce a chime signal;

Nautophones, electrically operated instruments, each comprising a vibrating diaphragm, fitted with a horn, which emits a high note similar in power and tone to that of the reed;

Reed horns which produce sound by means of a steel reed vibrator by compressed air;

Sirens which produce sound by means of either a disk or a cup-shaped rotor actuated by compressed air or electricity;

Whistles which produce sound by compressed air emitted through a circumferential slot into a cylindrical bell chamber;

Bells which are sounded by means of a hammer actuated by hand, wave motion, by a descending weight, compressed gas, or electricity;

Guns and explosive signals which are produced by firing of explosive charges, the former being discharged from a gun, and the latter being exploded in midair;

Fog Detector Lights—certain light stations, in addition to the main light, are equipped with fog detector lights for automatic detection of fog. These lights sweep back and forth through an area over which the fog watch is necessary, showing a powerful bluish-white flash of about 1 second in duration. The interval between successive flashes will vary with the position of the vessel within the sector. At the limits of the sector the duration of the flash may be considerably longer than 1 second.

Fog detector lights operate continuously.

Standby fog signals are sounded at some of the light and fog signal stations when the main fog signal is inoperative. Some of these standby fog signals are of a different type and characteristic than the main fog signal.

Radiobeacons, RACONS, RAMARKs, and radio direction-finders are mentioned in the List of Lights, but for detailed information, including the synchronization of radio signals and sound signals for distance finding, the navigator should consult Pub. 117, Radio Navigational Aids.

Note—use Chart No. 1 for the complete list of symbols and abbreviations commonly used in presenting the essential characteristics of lights, fog signals, and radio aids found on charts.

VISIBILITY TABLE

Table of distances at which objects can be seen at sea according to their respective elevations and the elevation of the eye of the observer.

Height in Feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles
1	1.2	23	5.6	45	7.8	135	13.6	340	21.6	600	28.7
2	1.7	24	5.7	46	7.9	140	13.8	350	21.9	620	29.1
3	2.0	25	5.9	47	8.0	145	14.1	360	22.2	640	29.5
4	2.3	26	6.0	48	8.1	150	14.3	370	22.5	660	30.1
5	2.6	27	6.1	49	8.2	160	14.8	380	22.8	680	30.5
6	2.9	28	6.2	50	8.3	170	15.3	390	23.1	700	31.0
7	3.1	29	6.3	55	8.7	180	15.7	400	23.4	720	31.4
8	3.3	30	6.4	60	9.1	190	16.1	410	23.7	740	31.8
9	3.5	31	6.5	65	9.4	200	16.5	420	24.0	760	32.3
10	3.7	32	6.6	70	9.8	210	17.0	430	24.3	780	32.7
11	3.9	33	6.7	75	10.1	220	17.4	440	24.5	800	33.1
12	4.1	34	6.8	80	10.5	230	17.7	450	24.8	820	33.5
13	4.2	35	6.9	85	10.8	240	18.1	460	25.1	840	33.9
14	4.4	36	7.0	90	11.1	250	18.5	470	25.4	860	34.3
15	4.5	37	7.1	95	11.4	260	18.9	480	25.6	880	34.7
16	4.7	38	7.2	100	11.7	270	19.2	490	25.9	900	35.1
17	4.8	39	7.3	105	12.0	280	19.6	500	26.2	920	35.5
18	5.0	40	7.4	110	12.3	290	19.9	520	26.7	940	35.9
19	5.1	41	7.5	115	12.5	300	20.3	540	27.2	960	36.3
20	5.2	42	7.6	120	12.8	310	20.6	560	27.7	980	36.6
21	5.4	43	7.7	125	13.1	320	20.9	580	28.2	1000	37.0
22	5.5	44	7.8	130	13.3	330	21.3				

Explanation.—The line of sight connecting the observer and a distant object is at maximum length tangent with the spherical surface of the sea. It is from this point of tangency that the tabular distances are calculated. The table must accordingly be entered twice to obtain the actual geographic visibility of the object—first with the height of the object, and second with the height of the observer’s eye—and the two figures so obtained must be added. Thus, if it is desired to find the maximum distance

at which a powerful light may be seen from the bridge of a vessel where the height of eye of the observer is 55 feet above the sea, from the table:

	Nautical Miles
55 feet height of observer (visible)	8.7
200 feet height of light (visible)	<u>16.5</u>
Distance visible	25.2

CONVERSION TABLE — FEET TO WHOLE METERS

(FOR HEIGHTS OF LIGHTS)

1 foot = 0.3048 meter

Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
		40	12	80	24	120	37	160	49	200	61
1	0	41	12	81	25	121	37	161	49	300	91
2	1	42	13	82	25	122	37	162	49	400	122
3	1	43	13	83	25	123	37	163	50	500	152
4	1	44	13	84	26	124	38	164	50	600	183
5	2	45	14	85	26	125	38	165	50	700	213
6	2	46	14	86	26	126	38	166	51	800	244
7	2	47	14	87	27	127	39	167	51	900	274
8	2	48	15	88	27	128	39	168	51	1000	305
9	3	49	15	89	27	129	39	169	52		
10	3	50	15	90	27	130	40	170	52		
11	3	51	16	91	28	131	40	171	52		
12	4	52	16	92	28	132	40	172	52		
13	4	53	16	93	28	133	41	173	53		
14	4	54	16	94	29	134	41	174	53		
15	5	55	17	95	29	135	41	175	53		
16	5	56	17	96	29	136	41	176	54		
17	5	57	17	97	30	137	42	177	54		
18	5	58	18	98	30	138	42	178	54		
19	6	59	18	99	30	139	42	179	55		
20	6	60	18	100	30	140	43	180	55		
21	6	61	19	101	31	141	43	181	55		
22	7	62	19	102	31	142	43	182	55		
23	7	63	19	103	31	143	44	183	56		
24	7	64	20	104	32	144	44	184	56		
25	8	65	20	105	32	145	44	185	56		
26	8	66	20	106	32	146	45	186	57		
27	8	67	20	107	33	147	45	187	57		
28	9	68	21	108	33	148	45	188	57		
29	9	69	21	109	33	149	45	189	58		
30	9	70	21	110	34	150	46	190	58		
31	9	71	22	111	34	151	46	191	58		
32	10	72	22	112	34	152	46	192	59		
33	10	73	22	113	34	153	47	193	59		
34	10	74	23	114	35	154	47	194	59		
35	11	75	23	115	35	155	47	195	59		
36	11	76	23	116	35	156	48	196	60		
37	11	77	23	117	36	157	48	197	60		
38	12	78	24	118	36	158	48	198	60		
39	12	79	24	119	36	159	48	199	61		

RADIOBEACONS

RADIO DIRECTION-FINDER SETS ON SHIPS

Radio direction-finder sets on board ship enable bearings to be taken of transmissions from other ships, aircraft, shore stations, marine radiobeacons, and the coastal stations of the radio communication network. When located in the pilothouse or on the navigating bridge, the direction-finder enables the navigating officer to obtain bearings himself without reference to others and without delay.

Due to the great value of radio bearings, particularly when visibility is poor and when celestial observations cannot be obtained, the radio direction-finder on board ship deserves the same consideration and care as are given to the sextant and compass. It has the following characteristics in common with the two latter navigational instruments: the readings are subject to certain errors; these errors may be reduced by skillful and intelligent operation; the dangers of using erroneous readings may be greatly reduced by the intelligence and good judgment of the mariner. In order to acquire experienced judgment in the operation of the instrument, it is essential that the mariner use it as much as practicable.

Troubles from interference and weak signals are greatly reduced by the use of direction-finders of proper selectivity. The bearings must be corrected for radio deviation as shown by the calibration curve of the set.

Types of Radiobeacons

1. Directional radiobeacons which transmit radio waves in beams along fixed bearings.

2. Rotating radiobeacons by which a beam of radio waves is resolved in azimuth in a manner similar to the beam of light sent out by rotating lights.

3. Circular radiobeacons which send out waves of approximately uniform strength in all directions so that ships may take radio bearings of them by means of the ship's radio direction-finder sets. This is the most common type of radiobeacon.

To extend the usefulness of marine radiobeacons to ships and aircraft employing automatic radio direction finders, U.S. marine radiobeacons on the Atlantic and Pacific Coasts and Great Lakes have been modified to transmit a continuous carrier signal during the entire radiobeacon operating period with keyed modulation providing the characteristic signal. Unless a beat frequency oscillator is installed, the continuous carrier signals are not audible to the operator of an aural null direction finder. A ten second dash has been included in the characteristic of these radiobeacons, to enable the navigator using a conventional aural null direction finder to refine his bearing. Vessels with direction finders will be able to use the United States

radiobeacons located on the Atlantic and Pacific Coasts, and Great Lakes at any time in their assigned sequence.

Aeronautical Radio Aids

Aeronautical radiobeacons and radio ranges are often used by navigators of marine craft in the same manner as marine radiobeacons are used for determining lines of positions. They are particularly useful along coasts where marine broadcast coverage is inadequate. Aeronautical aids situated inland become less trustworthy, so far as ships are concerned, when high land intervenes between them and the coast. They are established to be of primary usefulness to aircraft, and surface craft should use these aids with caution. Only those aeronautical radiobeacons considered to be of use to the mariner have been selected for inclusion in this publication.

AERONAUTICAL RADIOBEACONS. Like marine radiobeacons, these aids broadcast a characteristic signal on a fixed frequency.

NOTE: The assigned frequency of aeronautical radiobeacons is normally from 200 to 415 kHz while the frequency of marine radiobeacons is normally from 285 to 325 kHz. Aeronautical radiobeacons not within the marine radiobeacon band will not normally be listed in this publication.

The range signals are interrupted at intervals to permit broadcast of the identification signal. In aviation publications the range leg bearings are most often given as magnetic bearings toward the station; in this publication they are given as true bearings toward the station. Unless otherwise stated in the station details, aeronautical radio aids mentioned in this publication transmit continuously.

NOTE: Mariners are advised that changes to and deficiencies in aeronautical radio facilities are not always immediately available to maritime interests and the positions are approximate and listed to the nearest minute only.

Obligations of Administrations Operating Radiobeacons

The obligations of nations and other administrations operating radiobeacons are given in Article 43 of the Radio Regulations of the International Telecommunication Union, Geneva.

Accuracy of Bearings Taken Aboard Ship

No exact rules can be given as to the accuracy to be expected in radio bearings taken by a ship as the accuracy depends to a large extent upon the skill of the ship's operator, the condition of the ship's equipment, and the accu-

racy of the ship's calibration curve. Mariners are urged to obtain this information by taking frequent radio bearings when their ship's position is accurately known and by recording the results. Normally, United States radiobeacons are operated in a group of six, each station in a group using the same frequency and transmitting for one minute in its proper sequence, and operate during all periods, either sequenced or continuously, regardless of weather conditions.

SKILL OF OPERATOR: Skill in the operation of the radio direction-finder can be obtained only by practice and by observing the technical instructions for the set in question. For these reasons the operator should carefully study the instructions issued with the set and should practice taking bearings frequently.

OPERATOR'S ERROR: As the operator obtains bearings by revolving the direction-finder coil until the signal disappears or becomes a minimum, the operator can tell by the size of the arc of silence or of minimum strength approximately how accurately the bearing has been taken. For instance, if the minimum is broad and the residual signal covers about 10° with equal strength, it is doubtful if the bearing can be accurately estimated. On the other hand, if a sharp minimum can be obtained, the operator can determine the bearing to within a half of a degree.

In this connection it should be noted that a properly operating and correctly adjusted direction-finder should in no case produce other than a point or arc of absolute silence. That is, there should be no "residual" signal at the point or arc of observation. The sharpness and completeness of the arc of silence are the best indications of a properly operating direction-finder, and their absence is the best indication of the presence of "night effect."

SUNRISE, SUNSET, OR NIGHT EFFECT: Bearings obtained from about half an hour before sunset to about half an hour after sunrise may be subject to errors due to night effect. On some nights this effect is more pronounced than on others and effect is usually greatest during the hours of twilight. Night effect may be detected by a broadening of the arc of minimum signals and by a fluctuation in the strength of the signals. It may also be indicated by difficulty in obtaining a minimum or by a rapidly shifting minimum. It is sometimes accompanied by an actual shift in the direction of the bearings. If it is essential to obtain a bearing when the night effect is pronounced, several bearings should be taken over a short period of time and an average taken of them.

RADIO DIRECTION FINDER WITHOUT GYRO REPEATERS: The ship's compass must be read as the bearing is taken or an error may be introduced equal to the amount that the ship has yawed in the interval between taking the bearing and reading the compass. Any error in the ship's compass must be applied to the bearing.

RECIPROCAL BEARINGS: In some direction-finder sets, the operator cannot tell from which side of the ship the signals are coming. With these sets the operator shall correct both bearings for their respective deviations and give both corrected bearings to the person who is plotting the bearings on the chart. If the mariner is in doubt as to the side of the ship from which the bearings are coming, this difficulty can usually be solved by having another bearing taken after the ship has steamed a short distance and noting in which direction the bearing is changing.

CALIBRATION: It is essential that the radio direction-finder be accurately calibrated in order that the bearings may be corrected for deviation. While the bearings are being taken, other radio antennas on board must be in the same condition as they were when the calibration was made; movable parts of the ship's superstructure such as booms, davits, wire rigging, etc., must be secured in the positions which they occupied when the direction-finder was calibrated. Unusual cargoes such as large quantities of metals and extraordinary conditions of loading may cause errors.

The direction-finder should be recalibrated after any changes have been made in the set or its surroundings (this includes alterations to or changes in position of antennas, wire rigging, boat davits, booms, etc.) whenever there is reason to believe that the previous calibration has become inaccurate, and also at periodic intervals.

The calibration must be made on approximately the same frequency or frequencies as will be used to take bearings because the deviation for several frequencies is not likely to be the same. It is believed that one calibration curve is satisfactory for the normal radiobeacon frequency (285 to 325 kHz), but the instructions issued by the manufacturer of the particular direction-finder in question should be studied in this connection.

To facilitate the calibration of ship's direction-finders, special arrangements have been made by some services for operation of their radiobeacons at times other than their published schedules. Information as to the arrangements made by the United States stations in this respect is as follows:

Sequenced radiobeacons cannot broadcast at any time other than on their assigned operating minute for the purpose of enabling vessels to calibrate their radio direction finders without causing interference. Special radio direction finder calibration transmitters of short range are operated at certain localities to provide continuous calibration service.

The position given for the antenna is the point from which the radiobeacon signal is emitted.

If it is not practicable to determine the time of calibration sufficiently in advance to contact the district commander, request may be made directly to the stations by means of telephone, telegraph, or a whistle signal consisting of three long blasts; followed by three short blasts.

This whistle signal is to be repeated until it is acknowledged by the station through the starting of the transmitter. The same group of signals should be sounded at the termination of calibration.

The work of the station personnel is not confined to standing watch and there may be times when the whistle request for calibration is not immediately heard, due to the noise from operating station machinery, etc. Usually, a repeated signal not too far from the station will attract attention.

“COMPENSATED” RADIO DIRECTION-FINDERS: Many radio direction-finders are “compensated” and no calibration chart or curve is used. Attention is invited to the fact that such compensation is just as vulnerable as the calibration data due to changes made in the set or its surroundings.

CHECK THE CALIBRATION: The calibration of compensation should be checked frequently by taking bearings when the ship’s position is accurately known and the results should be recorded for future reference.

CALIBRATION RADIOBEACONS: In the United States and certain other areas special radiobeacons, primarily for calibrating shipboard direction-finders are in operation. These radiobeacons transmit either continuously during scheduled hours or upon request, as indicated in station details.

COASTAL REFRACTION (OR LAND EFFECT): Errors may occur in bearings taken by ships so located that the line of observation to the radiobeacon passes over land or along the shore line. However, many observations seem to indicate that such errors are negligible when the observing vessel is well out from the shore. Bearings secured entirely over water areas are to be preferred since “land effect” is thus eliminated. Bearings taken at sunset and sunrise are likely to be erratic, and observations taken at these hours should therefore be repeated and checked as may be feasible.

PROGRAM BROADCASTING STATIONS: Before taking bearings on a station broadcasting entertainment programs a mariner should consider that frequency may differ widely from the frequency for which the set is calibrated, that the published location of the station may be that of its studio and not that of its transmitting antenna, that if the station is synchronized with other stations it may be impossible to tell on which station the bearing was taken, and that as the majority of these stations are inland, the coastal refraction may be excessive.

Station Details

FREQUENCY: The frequency listed is that used by the station in transmitting its “Characteristic Signal.” Calling frequencies, if any, will be given under “remarks.”

RANGE: In this book the range of radiobeacons is only approximate and is given merely to assist mariners in

planning their voyages and to inform them of several radiobeacons they will probably hear first. Frequently, when conditions for radio reception are good, radiobeacons may be heard at greater distances than indicated. The mariner who is at a greater distance than the range indicated should attempt to obtain bearings when necessary, and not assume that the radiobeacon will be unheard beyond its indicated range.

GROUP SEQUENCE: Selected radiobeacons are grouped together on the same operating frequency and are assigned a specific sequence of transmission within this group. This reduces station interference and unnecessary returning.

ANTENNA LEAD-IN: Included in the details of many radiobeacons located at or near light stations is a statement of the distance and bearing of the radiobeacon transmitting antenna from the light tower. Use should be made of this information when calibrating the ship’s direction-finding equipment by means of simultaneous visual and radio bearings.

Plotting Radio Bearings

The procedure for converting radio (great circle) bearings as received by direction-finder equipment aboard ship is identical with that used in converting radio bearings supplied by direction-finder stations on shore and is described in section 100E “Plotting Radio Bearings” of Pub. 117, Radio Navigational Aids.

Synchronization for Distance Finding

At some radiobeacon stations, sound signals, either submarine or air or both, are synchronized with the radiobeacon signals for distance finding. Ordinarily, the sound signals do not operate during the transmission period of the radio signal in clear weather. The methods in use employ, as a rule, distinctive signals to indicate the point of synchronization, and make use, for determining distance, of the lag of signals traveling through air or water as compared to the practically instantaneous travel of the radio signals.

In the case of some sound signals, a series of short radio dashes is transmitted at intervals following the synchronizing point, so that by counting the number of such short dashes heard after the distinctive radio signal and before hearing the corresponding distinctive sound signal, the observer obtains the distance, in miles equal to the number of dashes counted, from the sound signal apparatus unless stated otherwise.

In the case of other signals, the observer notes the number of seconds intervening between the reception of the distinctive radio signal and the corresponding sound signal and uses a factor to determine distances in miles as follows:

Submarine signals—multiply the observed numbers of seconds by 0.8 or divide by 1.25 distance in nautical miles.

Air signals—multiply the observed number of seconds by 0.18 or divide by 5.5. For more approximate results or for statute miles, multiply the observed number of seconds by 0.2 or divide by 5.

Tables for finding distance

Interval in seconds	Distances in nautical miles from sound signal source	
	Air	Submarine
1	0.18	0.8
2	0.36	1.6
3	0.54	2.4
4	0.72	3.2
5	0.90	4.0
6	1.08	4.8
7	1.26	5.6
8	1.44	6.4
9	1.62	7.2
10	1.80	8.0
20	3.60	16.0
30	5.40	24.0
40	7.20	
50	9.00	
60	10.80	

REMARKS: Average speed of sound travel in water is 1 nautical mile in 11/4 seconds.

The speed of sound travel is influenced by a number of conditions making it impracticable to state a factor that will give exact results under all conditions. The results obtained by the methods described may be accepted as being accurate to within 10 percent of the distance.

Methods of synchronizing the signals vary and are described or illustrated in official announcements regarding them. It is essential to note carefully the point of synchronization used so that no error will be made through taking time on the wrong signal or the wrong part of it.

In observing air signals it is usually sufficient to use a watch with second hand, although a stop watch is helpful. For submarine signals where the interval is shorter and a time error correspondingly more important, it is essential that a stop watch or other timing device be used. Where the radiobeacon and submarine signals are not received at the same point on the vessel, means of instant communication between two observers should be available or synchronized stop watches provided for each.

Ships not equipped with a DF receiver can take advantage of the distance-finding feature of a radiobeacon station, if equipped with a radio receiver capable of receiving

the transmission. In the case of obtaining distance from a radiobeacon station which is synchronized with a submarine sound signal, the ship must also be equipped with a device for picking up submarine sound signals.

Rotating Loop Radiobeacon

MODE OF OPERATION:

(1) The radiobeacon consists of a rotating loop transmitter having directional properties by which an observer in a ship can obtain his bearing from the beacon without the use of a direction-finder. Any ordinary receiving set capable of being tuned to the radiobeacon's frequency may be used. The only other equipment required is a reliable stop watch or chronograph with a sweep second hand. Stop watches and clocks with dials graduated in degrees may be used, from which bearings may be read directly without any mathematical calculation.

(2) During each revolution of the beacon, the signals received by the observer will rise and fall in intensity, passing through a maximum and a minimum twice each minute. The positions of minimum intensity, which occur at intervals of thirty seconds from one another, are very sharp and can be accurately observed. These are, therefore, used for navigation purposes.

The beacon may be regarded as having a line or beam of minimum intensity which rotates at a uniform speed of 360° in 1 minute (i.e. 6° in 1 second) based on the true meridian as starting point. Therefore, if the observer can (a) identify the beacon and (b) measure the number of seconds which this minimum beam takes to reach their position starting from the true meridian, this number multiplied by six will give their true bearing from the beacon or its reciprocal.

The signals which enable the beacon to be identified and the bearing to be calculated are described in the following paragraphs:

Signals transmitted by the beacon: Each transmission from the beacon lasts for 4 minutes; the beacon is then silent for 8 minutes, and automatically starts again at the end of the silent period. Each transmission consists of two parts: (a) the identification signal of the station set at a slow speed for the first minute, commencing when the minimum beam is true east and west and followed by a long dash of about 12 seconds duration; (b) the signal group commencing when the minimum beam is approaching the true meridian, and consisting of (i) the north starting signal, which is the letter V followed by two dots (•• — ••); (ii) a long dash of about 12 seconds duration; (iii) the east starting signal, which is the letter B followed by two dots (— •• ••); and (iv) a long dash for about 42 seconds.

The navigation signals are repeated during the remainder of the transmission and signals cease when the minimum beam is in the east and west position.

INSTRUCTIONS FOR TAKING BEARINGS

- (i) Set stop watch to zero.
- (ii) Listen for identification signal.
- (iii) When the first long dash begins (at A on diagram) get ready for the "north signal."
- (iv) After the "north signal," start stop watch exactly at beginning of long dash (see "00 seconds" on diagram) counting one-two with the two preceding dots, and 3 for the start of the stop watch.
- (v) Listen for minimum and note its exact time by stop watch.

NOTE: If stop watch is graduated in degrees note exact angle, which is the bearing.

- (vi) Multiply number of seconds by 6° for bearing.
- (vii) Determine whether bearing is direct or reciprocal.
- (viii) If the "north signal" is faint, use the "east signal," but add 090° to final bearing.

Particular attention is directed to the following:

- (a) The stop watch must be started exactly at the beginning of the long dash for each series of observations.
- (b) The time of occurrence of the minimum must be read to the nearest fifth of a second.
- (c) The bearing obtained will be either the direct bearing or its reciprocal.
- (d) When using the east signal, add 090° to obtain bearings from true north.
- (e) The beacon is set up on the true meridian, and no correction is required for magnetic variation.
- (f) No quadrantal error arises, and no corrections are necessary except as in (c) and (d) above.

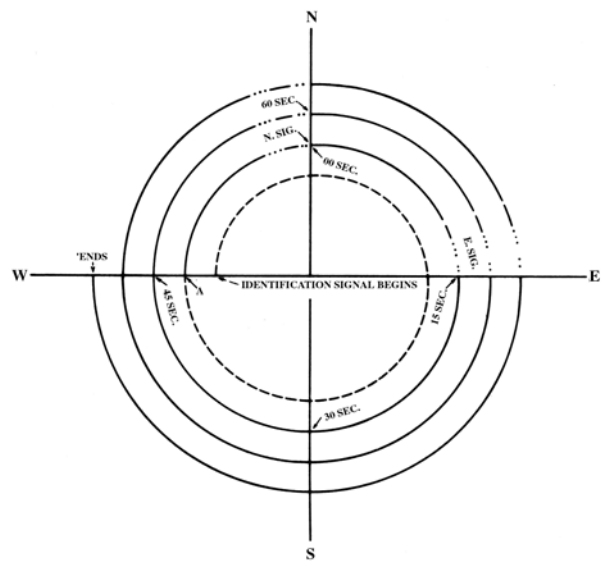
(A correction must, of course, be made for convergency; this should be applied as if the beacon were a shore radio direction-finder station.)

(g) A comparatively large error of bearing may occur due to inaccuracy in the stop watch, and to obviate this,

observers or navigators should check their stop watches on the beacon station before taking bearings. This can easily be done by checking the time by stop watch of the complete revolution of the beacon transmission. Any error found can then be allowed for.

Caution

Due to the many factors which enter into the transmission and reception of radio signals, a mariner cannot practically estimate its distance from a radiobeacon either by the strength of the signals received or by the time at which the signals were first heard. Mariners should give this fact careful consideration in approaching radiobeacons. A diagram showing the signals used is given below.



ROTATING RADIOBEACON
SIGNAL DIAGRAM

DESCRIPTION

(Radiobeacons)

Information is tabulated in eight columns as follows:

Column 1: The number assigned to each radiobeacon by this Agency.

Column 2: Name and/or descriptive location of the radiobeacon.

Column 3: Approximate latitude and longitude of the radiobeacon to the nearest tenth of a minute.

Column 4: Radiobeacon characteristics. Included in this column are the Morse code, period in seconds, length of transmission and silence time.

Column 5: Range (approximate) in nautical miles.

Column 6: Group sequence. Selected radiobeacons are grouped together on the same operating frequency and are assigned a specific sequence of transmission within this group. This reduces station interference and unnecessary return.

Column 7: Frequency (given in kilohertz) and amplitude modulation (see Table Symbols).

Column 8: Remarks. Transmission synchronization, type of radiobeacon (marine, aero, etc.), calibration, antenna lead-in, calling frequencies, distance-finding information, service charges, hours of transmission, directional signals and other pertinent information.

ABBREVIATIONS

aero aeronautical
tr transmission
si silence
s. seconds
(4) 4 times
Transmission is continuous unless otherwise stated.

TABLE OF SYMBOLS

LEGEND

- (1) Type of modulation of the main carrier.
- (2) Nature of signal(s) modulating the main carrier.
- (3) Type of "information" to be transmitted. "Information" does not include information of a constant, unvarying nature such as provided by standard frequency emissions, continuous wave and pulse radars, etc.

AMPLITUDE MODULATION:

N0N

- (1) Emission of an unmodulated carrier.
- (2) No modulating signal.
- (3) No information transmitted.

A1A

- (1) Double-sideband.
- (2) Single channel containing quantized or digital information without the use of a modulating subcarrier.
- (3) Telegraphy (for aural reception).

A2A

- (1) Double-sideband.
- (2) Single channel containing quantized or digital information with the use of a modulating subcarrier.
- (3) Telegraphy (for aural reception).

A3E

- (1) Double-sideband.
- (2) Single channel containing analog information.
- (3) Telephony (including sound broadcasting).

R3E

- (1) Single-sideband (reduced or variable level carrier).
- (2) Single channel containing analog information.
- (3) Telephony (including sound broadcasting).

B8E

- (1) Independent sidebands.
- (2) Two or more channels containing analog information.
- (3) Telephony (including sound broadcasting).

H2A

- (1) Single-sideband (full carrier).
- (2) Single channel containing quantized or digital information with the use of a modulating subcarrier.
- (3) Telegraphy (for aural reception).

H3E

- (1) Single-sideband (full carrier).
- (2) Single channel containing analog information.
- (3) Telephony (including sound broadcasting).

J3E

- (1) Single-sideband (suppressed carrier).
- (2) Single channel containing analog information.
- (3) Telephony (including sound broadcasting).

A3C

- (1) Double-sideband.
- (2) Single channel containing analog information.
- (3) Facsimile.

A3F

- (1) Double-sideband.
- (2) Single channel containing analog information.
- (3) Television (video).

B7D

- (1) Independent sidebands.
- (2) Two or more channels containing quantized or digital information.
- (3) Data transmissions, telemetry, telecommand.

Note: With 6 kHz. EDW operation in the bands below 30 MHz allocated exclusively for Maritime Mobile Service (FC, MO).

FREQUENCY (OR PHASE) MODULATION:**F1B**

- (1) Frequency modulation.
- (2) Single channel containing quantized or digital information without the use of a modulating subcarrier.
- (3) Telegraphy (for automatic reception).

F2A

- (1) Frequency modulation.
- (2) Single channel containing quantized or digital information with the use of a modulating subcarrier.
- (3) Telegraphy (for aural reception).

F3E

- (1) Frequency modulation.
- (2) Single channel containing analog information.
- (3) Telephony (including sound broadcasting).

F3C

- (1) Frequency modulation.
- (2) Single channel containing analog information.
- (3) Facsimile.

F3F

- (1) Frequency modulation.
- (2) Single channel containing analog information.
- (3) Television (video).

P1B

- (1) Sequence of unmodulated pulses.
- (2) Single channel containing quantized or digital information without the use of a modulating subcarrier.
- (3) Telegraphy (for automatic reception).

Pulse Modulation:

GHz = gigahertz

kHz = kilohertz

MHz = megahertz

DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS)

Differential Global Positioning System (DGPS) is a radio-based navigation system that eliminates errors in a GPS receiver that will allow the accuracy level to be significantly enhanced. DGPS accuracy can be 10 meters or better, compared with 100 meters or better with GPS. This is possible by placing a high-performance GPS receiver (reference station) at a known location. Because the receiver knows its exact location, it can determine the errors in the satellite signals. The satellite measures the ranges to each satellite using the signals received and comparing these measured ranges to the actual ranges calculated from its known position. The total error is the difference between the measured and calculated range. The error data for each tracked satellite is formatted into a correction message and transmitted to GPS users. The correction message format follows the standard established by the Radio Technical Commission for Maritime Services, Special Committee 104 (RTCM-SC104). These differential corrections are then applied to the GPS calculations, thus removing most of the satellite signal error and improving accuracy.

Terms for understanding DGPS:

DGPS Correction Receiver

A DGPS correction receiver decodes the signals received from a reference site. Data is formatted into a serial RTCM SC104 data stream and provided to the remote GPS receiver. There are many types of DGPS correction receivers.

GPS Receivers

The GPS receiver measures ranges to each satellite, but

before the measurements are used to calculate position, corrections received from the DGPS receiver are applied to the measurements. The position is then calculated using the corrected range measurements providing vastly increased accuracy.

Modulator

Depending on the transmission format, the modulator encodes the data as necessary for transmission.

Reference Station

The reference station GPS receiver knows exactly the position of its antenna, therefore it knows what each satellite range measurement should be. It measures the ranges to each satellite using the received signals just as if it was going to calculate position. The measured ranges are subtracted from the known ranges and the result is range error. The range error values for each satellite are formatted into messages in the RTCM SC104 format and transmitted continuously.

Transmitter

The transmitter is basically a power amplifier which is connected to an antenna system. The modulated carrier is amplified and driven to the antenna. In the United States Coast Guard system, the transmitter is 250-1000 Watts and operates in the 300Khz frequency range. The amplified signal is radiated via the antenna to remote DGPS receivers for real-time position correction.

DESCRIPTION

(Differential GPS Stations)

Information is tabulated in eight columns as follows:

Column 1: The number assigned to each DGPS Station by this Agency.

Column 2: Name of the DGPS Station

Column 3: Approximate latitude and longitude of the DGPS Transmitting Station to the nearest tenth of a minute.

Column 4: Station ID which can be found in the IALA Master list. No two stations have the same ID. **T** denotes the Transmitting Station, **R** denotes the Reference Station.

Column 5: Range (approximate) in nautical miles.

Column 6: Frequency in kHz.

Column 7: Transfer Rate which equates to the baud rate and will be published as a whole number without any additional abbreviations such as "bps" (bits per second)

Column 8: Remarks. This column contains information about the reference stations and messages types transmitted. GPS Message Type Numbers are 1, 3, 4, 5, 6, 7, 9, 15 and 16. (*Refer to message type descriptions below*)

GPS MESSAGE TYPE NUMBER INDICATORS

1	Differential GNSS corrections (full set of satellites)
3	Reference stations parameters
4	Datum used
5	Constellation health
6	Null frame (no information)
7	Radiobeacons Almanacs
9	Sub-set differential GNSS corrections
15	Ionospheric corrections
16	Special messages

Section 1

Sakhalin, Hokkaido and Kuril Islands

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SAKHALIN							
2 <i>M 7806</i>	Mys Anastasii.	46° 01.7' N 142° 10.7' E	L.Fl.W. period 6s fl. 2s, ec. 4s	161 49	8	White octagonal stone tower, red band; 36.	
4 <i>M 7804</i>	Ostrov Kamen 'Opasnosti (Nijo Gan).	45° 47.5' N 142° 13.5' E	Fl.W. period 7.5s fl. 1.5s, ec. 6s	62 19	13	White round concrete tower; 59.	Unreliable Jan. to Mar.
8 <i>M 7802</i>	Mys Kril'on (Nishi Notoro Misaki).	45° 53.8' N 142° 04.8' E	Al.W.R. period 10s	156 48	19	Red octagonal stone tower; 48.	Visible 208°-134°. Reserve light Iso.W. 10s 18M. Horn: Mo.(A) ev. 20s (bl. 2s, si. 4s, bl. 4s, si. 10s).
12 <i>M 7800</i>	Mys Kuznetsova.	46° 02.7' N 141° 55.6' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s	259 79	18	White square concrete tower, black band; 26.	Visible 330°-172°. Reserve light range 9M.
16 <i>M 7794</i>	Ostrov Moneron.	46° 14.9' N 141° 15.6' E	Fl.(2)W. period 15s fl. 0.2s, ec. 3.3s fl. 0.2s, ec. 11.3s	374 114	26	Black octagonal concrete tower, white band; 34.	Visible 161°-049°. Reserve light Iso.W. 3s 20M.
20 <i>M 7796</i>	Pereput'e.	46° 17.3' N 141° 53.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	125 38	15	Black round metal tower, white top, platform; 16.	Radar reflector.
36 <i>M 7788</i>	Mys Lopatino (Kenushi Misaki).	46° 36.0' N 141° 48.7' E	Fl.(2)W. period 10s	220 67	21	White octagonal concrete tower, black bands; 56.	Visible 002°-210°. Reserve light range 10M.
NEVEL'SK:							
44 <i>M 7778</i>	-Outer Range, front.	46° 40.0' N 141° 52.0' E	F.G.	135 41	1	White mast, white triangular daymark point up, black stripe; 33.	Visible on range line only.
48 <i>M 7778.1</i>	--Rear, about 38 meters 078°54' from front.	46° 40.0' N 141° 51.9' E	F.G.	148 45	1	White wooden mast, white triangular daymark point up, black stripe; 26.	Visible on range line only.
PORT KHOLMSK:							
56 <i>M 7746</i>	-Kholmsk.	47° 01.9' N 142° 02.0' E	Fl.(3)W. period 14.1s fl. 0.5s, ec. 1.8s fl. 0.5s, ec. 1.8s fl. 0.5s, ec. 9s	220 67	20	White round concrete tower, black bands; 93.	Visible 006°-186°. Reserve light Iso.W. 8s 12M.
60 <i>M 7752</i>	-Entrance Range, front.	47° 02.8' N 142° 03.0' E	F.R.	207 63	12	Building, octagonal lantern; 16.	Visible 077°42'-197°42'. Shown 24 hours. Reserve light F.R. 7M.
64 <i>M 7752.1</i>	--Rear, 185 meters 137°42' from front	47° 02.7' N 142° 03.1' E	F.R.	295 90	12	White octagonal stone tower, black stripe; 33.	Visible 077°42'-197°42'. Shown 24 hours. Reserve light F.R. 7M.
68 <i>M 7753</i>	-Kholmsk Range, front.	47° 03.6' N 142° 03.2' E	Iso.G. period 4s	98 30	3	Metal framework mast, white trapezoidal daymark, black stripe; 15.	Visible 106°36'-109°36'.
72 <i>M 7753.1</i>	--Rear, 154 meters 108°06' from front.	47° 03.6' N 142° 03.3' E	F.G.	130 40	3	Metal framework tower, white trapezoidal daymark, black stripe; 26.	Visible 098°06'-118°06'.
76 <i>M 7748</i>	-N. breakwater, head.	47° 03.2' N 142° 02.5' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	49 15	2	Red round concrete tower; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SAKHALIN							
80 M 7750	-S. breakwater, head.	47° 03.1' N 142° 02.5' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	39 12	1	Green metal framework tower; 30.	
84 M 7754	-Port Ukhadnyye, N. breakwater, head.	47° 03.7' N 142° 02.8' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	36 11	1	Green round metal tower, platform; 26.	
92 M 7754.3	--Detached breakwater, S. end.	47° 03.7' N 142° 02.8' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	36 11	2	Red round metal tower, platform; 26.	
96 M 7754.5	--Basin Entrance, E. side.	47° 03.6' N 142° 02.8' E	Oc.W.R. period 6s lt. 4s, ec. 2s	23 7	W. 5 R. 2	Red round metal column; 13.	W. 279°-219°, R. -279°.
100 M 7738	Mys Slepikovskogo (Konotoro Misaki).	47° 18.1' N 141° 58.0' E	Fl.W. period 12s fl. 3s, ec. 9s	98 30	16	Red round concrete tower; 92.	Visible 343°-177°. F.W. fishing light shown at Sadovniki. Reserve light L.Fl.W. 12s 10M.
104 M 7716	Mys Lamanon (Chirai Misaki).	48° 46.8' N 141° 50.3' E	Fl.W. period 20s fl. 1s, ec. 19s	233 71	22	White round concrete tower, black bands; 85.	Visible 353°-215°. Reserve light Fl.W. 10s 10M.
UGLEGORSK (ESUTORU):							
108 M 7713	-Range, front.	49° 04.2' N 142° 02.0' E	Iso.R. period 6s	157 48	16	White octagonal stone tower, black stripe, neon rectangular daymark; 37.	Visible 099°06'-219°06'. Reserve light range 6M, visible 156°06'-162°06'.
112 M 7713.1	--Rear, 300 meters 159°06' from front.	49° 04.1' N 142° 02.1' E	F.R.	223 68	16	White octagonal stone structure, black median stripe, neon rectangular daymark; 56.	Visible 099°06'-219°06'. Reserve light range 6M, visible 156°06'-162°06'.
124 M 7714	-W. breakwater, head.	49° 04.6' N 142° 01.8' E	Fl.(2)R. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	33 10	2	Red metal post, white band; 26.	
128 M 7714.2	-E. mole, head.	49° 04.6' N 142° 01.9' E	Fl.(2)G. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	26 8	1	Green four-sided metal framework pyramid, white band; 26.	
132 M 7711.5	-Uglegorsk.	49° 05.0' N 142° 02.3' E	Iso.W. period 6s	161 49	18	White octagonal stone tower, white dwelling; 46.	Visible 026°-179°.
136 M 7712	-Jetty, head.	49° 05.9' N 142° 01.9' E	Fl.(2)G. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	16 5	1	Green four-sided metal framework pyramid, white band; 10.	Shown Mar. 20 to Jan. 15.
140 M 7711	Mys Gavrilova.	49° 09.1' N 142° 02.5' E	Oc.R. period 6s lt. 4.5s, ec. 1.5s	236 72	11	White octagonal stone tower, red band; 33.	Visible 052°-205°. Reserve light range 4M.
148 M 7709.4	Shakhtersk, Range, front.	49° 09.7' N 142° 03.5' E	Iso.R. period 3s	49 15	12	White octagonal stone tower, black stripe; 33.	Visible 109°54'-129°54'. Reserve light range 6M.
152 M 7709.41	--Rear, about 260 meters 119°54' from front.	49° 09.6' N 142° 03.7' E	Iso.R. period 3s	85 26	12	Metal framework tower, white rectangular daymark, black stripe; 53.	Visible 109°54'-129°54'. Synchronized with front. Reserve light F.R. 6M.
156 M 7709	-S. mole, head.	49° 09.7' N 142° 03.1' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	33 10	1	Green concrete truncated pyramidal tower; 26.	
157 M 7709.2	-N. mole, head.	49° 09.7' N 142° 03.1' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	43 13	2	Red round metal tower, platform, 26.	
160 M 7708	Mys Nizmenny.	49° 11.5' N 142° 04.0' E	Iso.W. period 3s	72 22	11	White octagonal stone tower; 26.	Visible 000°-213°. Shown Mar. 20 to Jan. 15. Reserve light range 7M.
161 M 7707	Boshnyakovo.	49° 38.4' N 142° 09.4' E	L.Fl.R. period 6s	322 98	14	White octagonal concrete tower, red bands; 56.	Visible 014°-180°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SAKHALIN							
162 <i>M 7706</i>	Mys Korsakova.	50° 01.3' N 142° 08.6' E	Fl.W. period 6s fl. 1s, ec. 5s	335 102	16	Four-sided metal framework tower, white rectangular daymark; 56.	Visible 335°-213°.
162.3 <i>M 7810</i>	Kirillovo.	46° 27.1' N 142° 19.9' E	L.Fl.W. period 5s fl. 2s, ec. 3s	157 48	9	White octagonal stone tower; 23.	
PORT KORSAKOV:							
162.4 <i>M 7828</i>	-Approach.	46° 39.0' N 142° 45.4' E	L.Fl.W. period 6s fl. 2s, ec. 4s	177 54	9	White octagonal stone tower; 13.	
162.5 <i>M 7831</i>	-Inner Road, S. breakwater, head.	46° 37.2' N 142° 45.4' E	Iso.G. period 6s	33 10	7	White four-sided concrete tower; 20.	Reserve light range 2M.
162.7 <i>M 7832</i>	-On hill above harbor.	46° 37.8' N 142° 46.1' E	F.G.	243 74	5	Round metal tower; 23.	Reserve light range 3M.
164 <i>M 7830</i>	Mys Tomari-Aniva.	46° 36.5' N 142° 47.5' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.2s fl. 0.3s, ec. 7.3s	367 112	25	Black octagonal concrete tower, white band; 49.	Reserve light Fl.W. 6s 12M.
165 <i>M 7840</i>	Novikovo.	46° 21.2' N 143° 22.5' E	L.Fl.W. period 5s fl. 2s, ec. 3s	226 69	17	White octagonal stone tower; 23.	Visible 355°-122°. Shown Apr. 1 to Dec. 15.
166 <i>M 7841.5</i>	Mramornyy.	46° 17.8' N 143° 23.2' E	Fl.R. period 5s fl. 1s, ec. 4s	56 17	4	Orange round metal tower, platform; 16.	Shown Apr. 25 to Dec. 1. Radar reflector.
168 <i>M 7842</i>	Mys Aniva.	46° 01.3' N 143° 24.6' E	Fl.(2)W. period 24s fl. 1s, ec. 5s fl. 1s, ec. 17s	131 40	17	Black round concrete tower, white bands; 102.	Visible 206°-166°. Shown Apr. 15 to Jan. 15. Reserve light Fl.W. 3s 9M.
RACON			AW(• - • - -) period 30s		20		Azimuth coverage 030°-340°.
170 <i>M 7846</i>	Mys Levonorna.	46° 22.4' N 143° 36.8' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	197 60	9	White round metal tower; 26.	Visible 180°-023°. Shown Apr. 15 to Jan. 15. Radar reflector.
172 <i>M 7848</i>	Mys Svobodnyy.	46° 50.8' N 143° 25.8' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	141 43	18	White round concrete tower, black bands; 74.	Visible 043°-293°. Shown Apr. 15 to Jan. 15. Reserve light range 8M. Radiobeacon 9 miles W.
172.5 <i>M 7847</i>	Zaliv Mordvinova.	46° 49.4' N 143° 13.1' E	Iso.W. period 6s	49 15	12	Tower, white two-story building; 30.	Shown Apr. 15 to Jan. 15.
174 <i>M 7870</i>	Mys Goryanskiy.	48° 57.3' N 142° 58.7' E	Fl.W. period 3s fl. 1s, ec. 2s	397 121	22	White octagonal concrete tower, square base; 56.	Visible 188°-341°.
180 <i>M 7875</i>	Poronaysk.	49° 13.5' N 143° 07.1' E	Fl.(2)W. period 15s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 10.8s	108 33	16	Black octagonal concrete tower, white bands; 105.	Reserve light Fl.W. 3s 12M.
184 <i>M 7876</i>	Poronaysk (Shikuka) Anchorage Range, front.	49° 13.6' N 143° 07.1' E	F.R.	41 12	11	Gantry, neon rectangular daymark; 41.	Visible 247°54'-007°54'. Shown 24 hours.
188 <i>M 7876.1</i>	-Rear, about 201 meters 307°42' from front.	49° 13.7' N 143° 06.9' E	F.R.	69 21	12	Framework tower, neon rectangular daymark; 69.	Visible 247°54'-007°54'. Shown 24 hours.
192 <i>M 7885</i>	Mys Bellingsgauzena.	49° 29.9' N 144° 14.7' E	Fl.W. period 6s fl. 1s, ec. 5s	138 42	15	Framework tower, white rectangular daymark; 41.	
193 <i>M 7885.1</i>	Mys Nizkiy.	50° 01.0' N 143° 59.8' E	Fl.W. period 8s fl. 1s, ec. 7s	72 22	14	White octagonal concrete tower, red base; 56.	Visible 156°-341°. Reserve light range 9M.
194 <i>M 7890</i>	Mys Ratmanova.	50° 40.5' N 143° 41.8' E	Fl.W. period 3s fl. 1s, ec. 2s	131 40	9	Metal framework tower, red rectangular daymark, white band; 39.	Visible 174°-347°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SAKHALIN							
195 <i>M 7902.5</i>	Pil'tun.	52° 51.0' N 143° 18.5' E	Oc.W. period 7.5s	121 37	17	White round metal tower, black bands; 112.	Shown Jun. 1 to Jan. 1. Reserve light range 8M.
195.5 <i>M 7920</i>	Zaliv Chayvo.	52° 21.7' N 143° 11.7' E	Fl.W. period 6s fl. 1s, ec. 5s	92 28	15	White octagonal concrete tower; 79.	Shown Jun. 1 to Jan. 1. Reserve light range 7M.
196 <i>M 7884</i>	Mys Terpeniya (KitaShiretoko Misaki).	48° 38.7' N 144° 44.7' E	L.Fl.W. period 7.5s fl. 3s, ec. 4.5s	233 71	22	Black round concrete tower, white base, black bands; 135.	Shown Apr. 15 to Dec. 15. Reserve light range 12M.
JAPAN-HOKKAIDO-NORTH COAST							
200 <i>M 6895.4</i>	Hamaonisibetsu.	45° 20.8' N 142° 09.1' E	Fl.W. period 5s	85 26	12	Red concrete tower, white bands; 49.	Visible 124°-324°. F.W. obstruction light illuminates Todo Shima 1800 meters NE.
202 <i>M 6895.2</i>	Tonbetu Ko, breakwater.	45° 08.1' N 142° 23.7' E	Fl.R. period 3s	46 14	5	Red tower; 36.	
204 <i>M 6895</i>	Kamui Misaki.	45° 03.5' N 142° 30.1' E	Fl.W. period 15s	161 49	19	White round concrete tower, black bands; 59.	Visible 135°-320°.
208 <i>M 6894.6</i>	-SE.	45° 02.3' N 142° 30.9' E	Iso.R. period 4s	46 14	4	Red round concrete tower; 36.	
212 <i>M 6894.5</i>	Toimaki Ko.	44° 59.6' N 142° 32.6' E	Fl.R. period 3s	26 8	3	Red tower; 16.	
216 <i>M 6894.4</i>	Esasi, detached breakwater.	44° 55.8' N 142° 36.0' E	Fl.(2)R. period 6s 2 fl. 2s, ec. 4s	43 13	5	Red round concrete tower; 32.	
224 <i>M 6893.7</i>	Yamausu Ko, E. breakwater.	44° 49.9' N 142° 40.8' E	F.Fl.G. period 6s	39 12	F. 1 Fl. 3	White round concrete tower; 36.	
226 <i>M 6893.65</i>	Occhube Ko.	44° 46.9' N 142° 43.3' E	Fl.R. period 3s	36 11	3	Red round concrete tower; 27.	
228 <i>M 6893.6</i>	Otoineppu Misaki.	44° 37.4' N 142° 55.9' E	Iso.W. period 4s	95 29	15	White tower, red bands; 49.	
232 <i>M 6893.5</i>	Motoineppu Ko, N. breakwater, head.	44° 36.4' N 142° 57.0' E	Fl.R. period 3s	49 15	5	Red round concrete tower; 36.	
OMU KO:							
236 <i>M 6892</i>	-N. breakwater, head.	44° 35.2' N 142° 57.9' E	Fl.(2)R. period 6s	39 12	5	Red tower; 36.	
244 <i>M 6890</i>	Sawaki Ko, E. detached breakwater.	44° 31.4' N 143° 03.8' E	Iso.G. period 4s	39 12	4	White round concrete tower; 32.	
248 <i>M 6889</i>	Saru Ko, E. breakwater.	44° 25.7' N 143° 13.9' E	F.Fl.R. period 3s	43 13	F. 1 Fl. 3	Red tower; 32.	
252 <i>M 6885</i>	Monbetsu.	44° 21.4' N 143° 20.9' E	Fl.W. period 10s	263 80	23	White concrete tower, red bands; 43.	Visible 099°-318°.
256 <i>M 6886</i>	-N. breakwater, head.	44° 21.0' N 143° 22.1' E	Oc.R. period 6s lt. 5s, ec. 1s	62 19	5	Red round concrete tower; 52.	
260 <i>M 6886.4</i>	-Detached breakwater, N. head.	44° 21.0' N 143° 22.0' E	Fl.G. period 3s	39 12	5	White tower; 36.	
262 <i>M 6886.2</i>	-Breakwater.	44° 20.6' N 143° 23.2' E	Fl.R. period 3s	43 13	4	Red tower; 33.	
264 <i>M 6887</i>	-Inner harbor breakwater.	44° 21.1' N 143° 21.6' E	F.Fl.G. period 5s	33 10	F. 1 Fl. 3	White round concrete tower; 27.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-NORTH COAST							
268 <i>M 6884.4</i>	Saroma Ko, mouth.	44° 11.0' N 143° 47.0' E	F.F.I.R. period 5s	46 14	F. Fl.	4 7	White round concrete tower, red bands; 43.
270 <i>M 6884.6</i>	-Toetoko Ko.	44° 11.0' N 143° 44.7' E	Fl.G. period 3s	22 7		3	White tower; 18.
271 <i>M 6884.3</i>	Hamasaroma Ko.	44° 05.6' N 143° 55.7' E	Fl.R. period 3s	20 6		4	Red tower; 18.
272 <i>M 6884</i>	Tokoro Ko, N. breakwater.	44° 07.6' N 144° 06.3' E	Fl.R. period 3s	49 15		4	Red tower; 31.
280 <i>M 6882</i>	Notoro Misaki.	44° 06.2' N 144° 14.8' E	Fl.W. period 8s	188 57		20	White square structure, black bands; 69. Visible 097°-335°. Shown Mar. 14 to Jan. 15.
288 <i>M 6877</i>	-N. breakwater.	44° 01.5' N 144° 17.4' E	Fl.(2)R. period 6s	49 15		7	Red tower; 43.
292 <i>M 6878</i>	-E. breakwater.	44° 01.4' N 144° 17.3' E	Iso.G. period 4s	46 14		5	White tower; 43.
293 <i>M 6878.5</i>	-Outer breakwater.	44° 01.0' N 144° 18.1' E	Fl.R. period 3s	52 16		5	Red tower; 43.
294 <i>M 6876</i>	Masuura Ko.	43° 59.5' N 144° 18.1' E	Fl.R. period 3s	46 14		5	Red tower; 36.
296 <i>M 6866</i>	Utoro.	44° 05.5' N 145° 00.5' E	Fl.W. period 15s	466 142		21	White tower, black bands; 66.
300 <i>M 6872</i>	-E. breakwater.	44° 04.4' N 144° 59.6' E	Fl.G. period 3s	39 12		7	White round concrete tower; 36. Shown Mar. 31 to Jan. 1.
304 <i>M 6870</i>	-N. breakwater.	44° 04.6' N 144° 59.6' E	F.F.I.R. period 6s	49 15	F. Fl.	4 7	Red round concrete tower; 32.
308 <i>M 6862</i>	Siretoko Misaki.	44° 20.4' N 145° 20.2' E	Fl.(2)W. period 20s	335 102		12	White tower, black bands; 39. Visible 106°-344°.

KURIL ISLANDS

OSTROV SHUMSHU:							
316 <i>M 8041</i>	-Mys Kurbatova.	50° 51.8' N 156° 28.7' E	L.F.I.R. period 7.5s fl. 3s, ec. 4.5s	200 61		16	Red octagonal concrete tower; 49. Visible 079°-344°. Reserve light range 4M.
320 <i>M 8042</i>	-Mys Chibuynny.	50° 46.0' N 156° 12.1' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	344 105		22	White octagonal concrete tower, red bands; 33. Reserve light range 8M.
322 <i>M 8041</i>	--Oponny Range, front.	50° 40.7' N 156° 08.7' E	F.R.	141 43		10	Red and white octagonal concrete tower; 26. Visible 184°36'-204°36'.
322.1 <i>M 8044.1</i>	---Rear, 240 meters 194°36' from front.	50° 40.5' N 156° 08.6' E	F.R.	256 78		10	White octagonal concrete tower, red stripe; 26. Visible 184°36'-204°36'. Reserve light range 6M.
323 <i>M 8045</i>	Mys Kokina.	50° 11.6' N 155° 44.6' E	Fl.W. period 4s fl. 1s, ec. 3s	269 82		9	Metal post, round concrete box, lantern; 10.
OSTROV PARAMUSHIR:							
324 <i>M 8046</i>	-Mys Vasil'yeva.	50° 00.5' N 155° 23.5' E	Fl.(2)W. period 15s fl. 1.5s, ec. 4.5s fl. 3s, ec. 6s	125 38		17	White round concrete tower; 79. Reserve light Fl.W. 6s 10M.
326 <i>M 8047</i>	-Mys Kapustnyy.	50° 03.2' N 155° 13.7' E	Fl.R. period 4s fl. 1s, ec. 3s	105 32		5	White octagonal concrete tower, red bands; 39.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
KURIL ISLANDS							
340 <i>M 8048</i>	Ostrov Toporkov.	48° 04.6' N 153° 17.3' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	262 80	9	Red octagonal concrete tower, white band; 26.	
344 <i>M 8049</i>	Ostrov Simushir (Shimshiru To).	46° 49.6' N 151° 52.7' E	Fl.W. period 3s fl. 1s, ec. 2s	217 66	8	White octagonal concrete tower; 26.	
345 <i>M 8049.3</i>	-Mys Otvessnyy.	47° 09.1' N 152° 17.4' E	Fl.W. period 5s fl. 1s, ec. 4s	217 66	5	Red round metal tower, platform; 26.	Visible 114°-006°.
346 <i>M 8049.5</i>	-Mys Sukhina.	46° 49.5' N 151° 52.2' E	Fl.W. period 12s fl. 1.5s, ec. 10.5s	410 125	15	White octagonal concrete tower, red bands, red base; 56.	Visible 235°-032°30'.
348 <i>M 8050</i>	Ostrov Urup (Kastrikum).	46° 13.9' N 150° 34.0' E	Oc.W. period 7.5s lt. 4.5s, ec. 3s	167 51	19	Red round metal tower; 75.	Visible 089°-049°. Reserve light range 10M.
349 <i>M 8050.5</i>	-Mys Chyeryepakha.	46° 13.5' N 150° 20.4' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	108 33	9	Red octagonal stone tower, white band; 33.	Visible 054°-268°.
352 <i>M 8051</i>	Mys Van-der-Linda (Nobunotsu Misaki).	45° 34.7' N 149° 24.2' E	L.Fl.W. period 12s fl. 4.5s, ec. 7.5s	367 112	22	Black octagonal concrete tower, white band; 46.	Visible 272°-211°. Reserve light range 9M.
	RACON		D(- • •) period 30s		21		Azimuth coverage 030°-340°. (3cm).
OSTROV URUP:							
354 <i>M 8051.5</i>	-Mys Breskens.	45° 26.2' N 147° 55.7' E	Fl.W. period 3s fl. 1s, ec. 2s	207 63	9	Black round concrete tower, white band; 26.	
356 <i>M 8053</i>	-Mys Burevestnik.	44° 55.0' N 147° 39.0' E	Fl.W. period 4s fl. 1s, ec. 3s	62 19	8	Red round metal tower, white platform; 16.	Radar reflector.
360 <i>M 8052</i>	-Kasatka (To Simoye).	45° 00.0' N 147° 44.0' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	148 45	8	Red round metal tower, platform; 16.	Radar reflector.
OSTROV KUNASHIR:							
364 <i>M 8058</i>	-Mys Lovtsova (Atoiya Misaki).	44° 26.8' N 146° 33.5' E	Iso.W. period 6s	233 71	21	Red round metal tower, white bands; 105.	Visible 105°-013°. Reserve light range 12M.
366 <i>M 8059</i>	-Mys Yuzhno-Kuril'skiy.	44° 01.2' N 145° 51.6' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	108 33	8	Black four-sided concrete tower; 26.	
368 <i>M 8060</i>	-Mys Veslovskiy (Keramui Saki).	43° 39.7' N 145° 32.4' E	L.Fl.W. period 7s fl. 2s, ec. 5s	66 20	9	White octagonal concrete tower, black bands; 56.	Bell: 12 strokes ev. 60s.
372 <i>M 8054</i>	Sikotan Simi.	43° 50.2' N 146° 55.1' E	Fl.W. period 10s fl. 1s, ec. 9s	213 65	21	White round concrete tower; 62.	Visible 133°-030°. Reserve light range 9M.
376 <i>M 8054.5</i>	-Kombuusu Saki.	43° 42.1' N 146° 38.6' E	Fl.W. period 3s fl. 1s, ec. 2s	207 63	9	Red round metal column, platform; 16.	Visible 257°-132°. Radar reflector.
376.5 <i>M 8054.2</i>	-Kamo Shima.	43° 44.0' N 146° 42.6' E	Fl.W. period 4s fl. 1s, ec. 3s	213 65	8	White round concrete tower; 26.	
379 <i>M 8054.6</i>	Malokuril'skiy.	43° 52.5' N 146° 48.8' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	289 88	22	White concrete tower, black bands; 26.	
380.5 <i>M 8054.7</i>	--W. entrance point.	43° 52.7' N 146° 49.2' E	L.Fl.W. period 6s fl. 2s, ec. 4s	224 68	9	Red round metal tower, platform; 16.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
KURIL ISLANDS							
384 <i>M 8056</i>	Taraka Sima.	43° 37.1' N 146° 21.4' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	95 29	9	White round concrete tower, red bands; 39.	Visible 185°-095°. Radar reflector.
384.5 <i>M 8056.2</i>	-On W. point.	43° 37.5' N 146° 16.4' E	Fl.W. period 4s fl. 1s, ec. 3s	39 12	9	Red round metal tower; 16.	Visible 285°-227°. Radar reflector.
385 <i>M 8056.5</i>	Ostrov Zelenyy (Sankaku Zaki).	43° 32.1' N 146° 11.9' E	Fl.W. period 7.5s fl. 1.5s, ec. 6s	72 22	9	White round concrete tower, black bands; 39.	Visible 104°-012°. Radar reflector.
386 <i>M 8057</i>	Ostrov Yuriy.	43° 26.0' N 146° 04.2' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	79 24	9	White round concrete tower, black bands; 39.	
JAPAN-HOKKAIDO-EAST COAST							
388 <i>M 6856</i>	Hutuke Saki.	43° 33.8' N 145° 20.9' E	Fl.(2)W. period 6s	46 14	12	White tower; 39.	
392 <i>M 6856.5</i>	Odaito Ko, W.	43° 34.1' N 145° 13.6' E	F.Fl.G. period 3s	43 13	F. 2 Fl. 5	White tower; 36.	
396 <i>M 6856.7</i>	Sibetu Ko.	43° 40.0' N 145° 08.3' E	Oc.R. period 4s lt. 3s, ec. 1s	52 16	4	Red round concrete tower; 36.	
400 <i>M 6857</i>	Kumbetsu.	43° 47.7' N 145° 03.6' E	Oc.W. period 8s lt. 6s, ec. 2s	177 54	12	White concrete tower, red bands; 49.	Visible 199°-343°.
402 <i>M 6857.4</i>	Otazunemappu Ko.	43° 57.6' N 145° 08.4' E	Fl.(2)R. period 5s	27 8	5	Red tower; 16.	
404 <i>M 6857.5</i>	Matunori Ko.	43° 59.0' N 145° 09.6' E	Iso. R. period 6s	46 14	4	Red tower; 36.	
412 <i>M 6859</i>	-No 1, S. breakwater.	44° 01.2' N 145° 11.8' E	Fl.G. period 3s	39 12	5	White tower; 33.	
416 <i>M 6861</i>	-No 2, S. breakwater.	44° 01.2' N 145° 11.8' E	F.Fl.R. period 6s	43 13	F. 3 Fl. 7	Red round concrete tower; 33.	
420 <i>M 6861.2</i>	-W. breakwater.	44° 01.3' N 145° 12.2' E	Oc.G. period 4s lt. 3s, ec. 1s	39 12	9	White round concrete tower; 36.	
424 <i>M 6858</i>	Rausu.	44° 02.3' N 145° 13.0' E	Fl.W. period 10s	285 87	20	White tower, two red bands; 52.	
426 <i>M 6861.4</i>	Okkabake Ko.	44° 04.3' N 145° 14.4' E	Fl.R. period 4s	36 11	5	Red beacon; 30.	
428 <i>M 6861.5</i>	Chienbetsu Ko, E. breakwater.	44° 06.1' N 145° 14.7' E	Fl.(2)R. period 6s	46 14	5	Red tower; 36.	
430 <i>M 6863</i>	-Siretoko, southward.	44° 11.3' N 145° 19.3' E	Fl.R. period 3s	39 12	5	Red tower; 26.	
NEMURO KO:							
432 <i>M 6852</i>	-S. breakwater, head.	43° 20.3' N 145° 34.4' E	Fl.(2)G. period 6s 2 fl. 2s, ec. 4s	36 11	5	White round concrete tower; 26.	
436 <i>M 6850</i>	-N. breakwater, head.	43° 20.8' N 145° 34.8' E	F.Fl.G. period 3s	46 14	F. 4 Fl. 7	White round concrete tower; 46.	
438 <i>M 6853</i>	-Horomoshiri Ko.	43° 17.9' N 145° 31.2' E	Iso.G. period 4s	39 12	4	White tower; 26.	
439 <i>M 6854</i>	-Onneto.	43° 16.2' N 145° 29.7' E	Fl.R. period 3s	26 8	5	Red tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-EAST COAST							
440 <i>M 6847</i>	Nokkamappu Saki.	43° 23.4' N 145° 39.2' E	Fl.(2)W. period 10s 2 fl. 3s, ec. 7s	69 21	12	White tower, black band; 36.	
444 <i>M 6845</i>	Onnemoto Ko, E. breakwater, head.	43° 23.3' N 145° 47.1' E	F.Fl.G. period 3s	39 12	F. 2 Fl. 5	White tower; 26.	
JAPAN-HOKKAIDO-SOUTH COAST							
448 <i>M 6840</i>	Nosappu Misaki.	43° 23.1' N 145° 49.0' E	Iso.W.R. period 6s	75 23	14	White round concrete tower, square base; 46.	W. 105°-339°, R.-015°.
452 <i>M 6842</i>	Kaigara Sima.	43° 23.8' N 145° 51.5' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	56 17	7	Tower; 62.	Seasonal.
456 <i>M 8057.6</i>	Suisyosima on Dai Zaki (Mys Zorkiy).	43° 25.0' N 145° 54.0' E	Fl.R. period 3s fl. 1s, ec. 2s	39 12	5	Red round tower, white bands; 39.	
456.5 <i>M 8057.8</i>	-On W. point.	43° 27.2' N 145° 56.8' E	L.Fl.W. period 6s	72 22	9	White concrete tower; 39.	
458 <i>M 6839.6</i>	Goyomai Ko.	43° 22.3' N 145° 48.6' E	Fl.G. period 3s	33 10	5	White tower; 16.	
460 <i>M 6839</i>	Habomainsiri Sima.	43° 20.1' N 145° 46.3' E	Fl.W.R. period 5s	72 22	8	White tower; 39.	R. 027°-035°, W.-221°, R.-243°, W.-027°.
464 <i>M 6839.4</i>	Habomai Ko, S. breakwater.	43° 20.4' N 145° 45.7' E	Fl.G. period 3s	39 12	3	White tower; 36.	
468 <i>M 6839.2</i>	-S.	43° 20.4' N 145° 45.8' E	Fl.G. period 4s	43 13	5	White tower; 36.	
469 <i>M 6838.4</i>	Okineppu Ko.	43° 19.6' N 145° 41.7' E	Fl.R. period 4s	30 9	3	Red tower; 27.	
470 <i>M 6837.7</i>	Tomoshiri Ko.	43° 18.9' N 145° 40.2' E	Fl.R. period 3s	26 8	3	Red tower; 16.	
472 <i>M 6836</i>	Hanasaki.	43° 16.7' N 145° 35.3' E	Oc.W.R. period 8s lt. 6s, ec. 2s	102 31	13	White tower, red bands; 33.	R. 217°-257°, W.-282°, R.-295°, W.-323°, R.-010°, W.-148°.
474 <i>M 6837.5</i>	-Detached breakwater, E. head.	43° 16.2' N 145° 34.7' E	Fl.G. period 3s	49 15	4	White tower; 33.	
476 <i>M 6837</i>	-On breakwater.	43° 16.7' N 145° 34.5' E	Fl.(2)R. period 6s	49 15	5	Red tower; 46.	
478 <i>M 6835.5</i>	Nemuro Konbumori.	43° 13.4' N 145° 33.2' E	Oc.G. period 4s lt. 3s, ec. 1s	43 13	4	White tower; 28.	
480 <i>M 6835</i>	Yururi Shima.	43° 12.7' N 145° 35.5' E	Fl.W. period 3s	174 53	5	White tower, black bands; 43.	
484 <i>M 6834.5</i>	Otiisiko, N. breakwater.	43° 11.0' N 145° 31.0' E	Fl.R. period 3s	46 14	4	Red round concrete tower; 36.	
486 <i>M 6834.3</i>	-W. breakwater.	43° 11.0' N 145° 30.7' E	Fl.G. period 3s	36 11	5	White tower; 33.	
488 <i>M 6834</i>	Otiisi Misaki.	43° 09.9' N 145° 30.9' E	Fl.W.R. period 8s	157 48	19	White tower, red band; 49.	W. 207°-048°, R.-070°.
492 <i>M 6830</i>	Tobutsu Saki.	43° 04.6' N 145° 10.1' E	Fl.W.R. period 5s	161 49	19	White tower, red band; 39.	R. 215°-270°, W.-215°. F.W. auxiliary light illuminates Hikake Iwa 1.6 miles ENE.
496 <i>M 6831</i>	Kiritappu Ko, E. breakwater.	43° 05.1' N 145° 08.1' E	Fl.G. period 4s	39 12	5	White round concrete tower; 30.	
498 <i>M 6830.4</i>	Biwase Hana.	43° 03.1' N 145° 05.4' E	Fl.G. period 3s	39 12	5	White tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-SOUTH COAST							
500 <i>M 6828</i>	Akkeshi.	42° 56.9' N 144° 51.9' E	Fl.W. period 10s	367 112	12	White round concrete tower; 26.	
502 <i>M 6828.4</i>	Tokotan Ko, breakwater.	42° 59.7' N 144° 52.1' E	Iso.R. period 4s	36 11	4	Red tower; 27.	
504 <i>M 6829</i>	Akkesi Ko breakwater, N. head.	43° 02.4' N 144° 49.8' E	Fl.(2)R. period 6s	46 14	5	Red tower; 36.	
508 <i>M 6826</i>	Konbumori.	42° 56.9' N 144° 31.3' E	Fl.W.R. period 5s	295 90	11	White tower, black band; 36.	R. 040°-090°, W.-040°.
510 <i>M 6826.5</i>	-Konbumori Ko.	42° 57.0' N 144° 31.7' E	Fl.(2)R. period 6s	43 13	3	Red tower; 26.	
512 <i>M 6822</i>	Katsurakoi, Ko.	42° 56.7' N 144° 26.8' E	Fl.R. period 3s	43 13	3	Red tower; 36.	
516 <i>M 6814</i>	-Kushiro Saki.	42° 58.2' N 144° 22.4' E	Fl.W. period 15s	167 51	19	White tower, two red bands; 56.	Visible 300°-156°. DGPS Station.
520 <i>M 6814.2</i>	Sireto Syo.	42° 57.7' N 144° 22.1' E	Q.(6)+L.Fl.W. period 15s	49 15	5	S. CARDINAL YB, beacon, topmark; 43.	
522 <i>M 6814.1</i>	-Approach.	42° 57.9' N 144° 23.2' E	Fl.(2)R. period 6s	36 11	3	Red tower; 16.	
524 <i>M 6815</i>	-S. breakwater, head.	42° 58.5' N 144° 21.5' E	Oc.R. period 4s	43 13	4	Red round concrete tower; 43.	Visible 113°-325°.
529 <i>M 6814.5</i>	-Detached breakwater, W. head.	42° 58.7' N 144° 21.0' E	Fl.(2)R. period 6s	59 18	7	Red tower; 46.	
532 <i>M 6816.4</i>	-N. breakwater, N. head.	42° 59.3' N 144° 21.5' E	F.Fl.R. period 6s	46 14	F. 2 Fl. 5	Red round concrete tower; 36.	
536 <i>M 6816</i>	--S. head.	42° 58.7' N 144° 21.5' E	Fl.(2)G. period 6s	39 12	3	White round concrete tower; 36.	
540 <i>M 6814.4</i>	-Nisiko S. breakwater, E. head.	42° 59.4' N 144° 20.5' E	Fl.G. period 3s	49 15	5	White tower; 36.	
542 <i>M 6814.3</i>	--W. head.	42° 59.3' N 144° 18.7' E	Fl.R. period 3s	49 15	5	Red tower; 32.	
KUSHIRO KO:							
544 <i>M 6813</i>	-AVIATION LIGHT.	43° 02.6' N 144° 11.8' E	Al.Fl.W.G. period 4.3s	364 111	W. 3 G. 1	Metal framework tower.	
548 <i>M 6812.4</i>	-Shiranuka Ko, S. breakwater.	42° 57.1' N 144° 05.1' E	F.Fl.R. period 4s	43 13	F. 2 Fl. 5	Red round concrete tower; 36.	
552 <i>M 6812</i>	Tokachi Otu.	42° 40.3' N 143° 37.8' E	Fl.(3)W. period 20s	190 58	20	White tower, black bands; 46.	Visible 222°-055°.
554 <i>M 6811.7</i>	Taiki Ko.	42° 28.4' N 143° 26.0' E	Iso.G. period 4s	43 13	4	White tower; 27.	
556 <i>M 6807.5</i>	Hiroo.	42° 17.1' N 143° 19.2' E	Fl.(2)W. period 15s 2 fl. 5s, ec. 10s	125 38	17	White square concrete tower; 43.	Visible 197°-017°.
TOKACHI KO:							
560 <i>M 6808</i>	-S. (outside) breakwater, head.	42° 18.1' N 143° 20.8' E	Fl.G. period 4s	49 15	5	White tower; 32.	
562 <i>M 6809</i>	--Breakwater extension.	42° 18.1' N 143° 20.4' E	Fl.R. period 4s	46 14	5	Red tower; 36.	
564 <i>M 6810</i>	-Inside breakwater, head.	42° 17.5' N 143° 19.4' E	Fl.(2)R. period 6s	36 11	5	Red tower; 30.	
572 <i>M 6803</i>	Shoya Ko, W. breakwater, head.	42° 02.2' N 143° 18.0' E	Fl.R. period 3s	45 14	5	Red tower; 19.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-SOUTH COAST							
576 <i>M 6802</i>	Erimo Misaki.	41° 55.5' N 143° 14.6' E	Fl.W. period 15s	239 73	22	White tower; 46.	
RAMARK							
578 <i>M 6799</i>	Utabeto ko.	41° 59.6' N 143° 09.6' E	Fl.R. period 4s	33 10	3	Red tower; 16.	
584 <i>M 6797</i>	Erimo Ko.	42° 00.9' N 143° 08.5' E	Fl.(2)R. period 5s	46 14	4	Red tower; 36.	
588 <i>M 6798</i>	-S. jetty.	42° 00.9' N 143° 08.7' E	Fl.R. period 3s	27 8	4	Red tower; 25.	
589 <i>M 6794.5</i>	Asahi Ko.	42° 03.7' N 143° 03.7' E	Fl.R. period 3s	36 11	3	Red tower; 16.	
590 <i>M 6794</i>	Huyusima Ko.	42° 06.0' N 142° 59.1' E	Fl.(2)R. period 6s	46 14	5	Red tower; 27.	
596 <i>M 6792</i>	-W. breakwater.	42° 07.5' N 142° 55.0' E	Fl.(2)G. period 6s	39 12	4	White tower; 28.	
600 <i>M 6791</i>	-Outer E. breakwater, head.	42° 07.3' N 142° 54.6' E	Fl.(2)R. period 6s	46 14	5	Red tower; 36.	
602 <i>M 6790</i>	Utoma Ko.	42° 07.9' N 142° 52.4' E	Fl.R. period 3s	39 12	4	Red tower; 28.	
604 <i>M 6786</i>	Urakawa Ko.	42° 09.8' N 142° 46.6' E	Fl.W. period 5s	154 47	19	White tower, red bands; 39.	Visible 314°-107°.
608 <i>M 6788</i>	-S. breakwater, head.	42° 09.9' N 142° 45.6' E	Fl.R. period 3s	43 13	7	Red metal column; 28.	
612 <i>M 6789</i>	-N. breakwater, head.	42° 09.9' N 142° 46.1' E	F.Fl.G. period 5s	36 11	F. 2 Fl. 5	White round concrete tower; 30.	
616 <i>M 6784</i>	Ogifushi Hana E. breakwater.	42° 11.9' N 142° 39.5' E	Fl.R. period 4s	43 13	7	Red tower; 31.	F.W. Illuminates reef 140 meters SW.
620 <i>M 6781</i>	Mituisi ko, S. breakwater.	42° 14.6' N 142° 32.9' E	Fl.R. period 3s	52 16	7	Red tower; 32.	
624 <i>M 6783</i>	-W. breakwater.	42° 14.7' N 142° 32.9' E	Iso.G. period 6s	46 14	3	White round concrete tower; 27.	
626 <i>M 6780</i>	Harutati-sizunai.	42° 16.1' N 142° 28.9' E	Fl.(2)R. period 5s	33 10	3	Red tower; 16.	
628 <i>M 6778</i>	Higasi-sizunai.	42° 17.8' N 142° 27.0' E	Fl.R. period 5s	43 13	3	Red tower; 27.	
632 <i>M 6777</i>	Sizunai.	42° 19.7' N 142° 22.4' E	Fl.W. period 10s	299 91	20	White tower, red band; 39.	Visible 307°-120°.
636 <i>M 6777.5</i>	-Breakwater, head.	42° 19.4' N 142° 22.2' E	Fl.R. period 3s	30 9	4	Red tower; 18.	
640 <i>M 6776</i>	Seppu Ko, S. breakwater, head.	42° 22.7' N 142° 16.4' E	Fl.(2)R. period 6s	43 13	4	Red tower; 28.	
644 <i>M 6775</i>	Atsuga Ko, S. breakwater.	42° 26.0' N 142° 12.1' E	Fl.R. period 3s	46 14	5	Red round concrete tower; 36.	
648 <i>M 6774.6</i>	Hidaka Monbetu.	42° 28.3' N 142° 04.9' E	Iso.W. period 8s	148 45	12	White tower; 43.	
652 <i>M 6774.4</i>	-Sea berth.	42° 35.1' N 141° 47.8' E	Mo.(U)W. period 10s	98 30	10		E. and W. heads marked by Mo.(U)W. 10s.
658 <i>M 6774.3</i>	-E. breakwater.	42° 34.8' N 141° 46.3' E	Fl.(2)R. period 6s	56 17	7	Red tower; 46.	
660 <i>M 6774</i>	-Sea berth.	42° 36.3' N 141° 38.7' E	Mo.(U)W. period 14s	105 32	13		Sea berth marked with Mo.(U) 14s and siren Mo.(U) 30s at NW. and SE. ends. Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-SOUTH COAST							
664 M 6773	-W. breakwater.	42° 37.3' N 141° 37.2' E	Fl.(2)G. period 6s	43 13	5	White tower; 43.	
668 M 6773.4	-S. Breakwater.	42° 37.6' N 141° 37.1' E	Iso.G. period 6s	33 10	4	White round concrete tower; 30.	
672 M 6773.7	-Tomakomai Ko, E. breakwater.	42° 36.9' N 141° 37.2' E	Fl.R. period 3s	56 17	7	Red round concrete structure; 52.	
673 M 6773.75	--E. detached breakwater, SW. head.	42° 36.8' N 141° 37.1' E	Fl.Y. period 3s	43 13	7	Yellow tower; 32.	
674 M 6773.1	--A, W. detached breakwater, NE. head.	42° 37.3' N 141° 35.3' E	Fl.Y. period 4s	14 4	4	SPECIAL Y, beacon, "X" topmark; 12.	
675 M 6773.3	--B, SW. head.	42° 37.1' N 141° 34.5' E	Fl.Y. period 4s	14 4	4	SPECIAL Y, beacon, "X" topmark; 12.	Radar reflector.
676 M 6772	Tomakomai.	42° 37.3' N 141° 34.2' E	Fl.W. period 12s	121 37	17	White round concrete tower, black bands; 105.	Visible 255°-075°.
680 M 6770	Ayoro Hana.	42° 27.2' N 141° 12.0' E	Al.Fl.W.R. period 16s	138 42	18	White concrete column, red bands; 43.	Visible 226°-075°.
684 M 6770.3	Noboribetsu Ko, breakwater, head.	42° 26.8' N 141° 11.2' E	Fl.R. period 3s	52 16	5	Red round concrete tower; 33.	
688 M 6745	Tikiu Misaki.	42° 18.1' N 141° 00.1' E	Fl.(2)W. period 30s 2 fl. 8s, ec. 22s	430 131	24	White tower; 49.	
692 M 6745.5	Oinaosi Gyoko.	42° 18.4' N 140° 58.1' E	Fl.G. period 3s	43 13	6	White tower; 36.	
MURORAN KO:							
696 M 6746.6	-Breakwater, SW. head.	42° 20.7' N 140° 55.7' E	Iso.G. period 6s	43 13	5	White round concrete tower; 36.	R. lights mark detached breakwater heads 150 meters SE.
704 M 6746.4	-S. outer breakwater.	42° 20.9' N 140° 55.0' E	Oc.R. period 8s lt. 6s, ec. 2s	49 15	12	Red round concrete tower; 46.	
708 M 6746	-N. outer breakwater, S. head.	42° 21.2' N 140° 55.0' E	Fl.(2)G. period 6s	49 15	7	White tower; 46.	
712 M 6747	-S. auxiliary breakwater, head.	42° 21.0' N 140° 55.7' E	F.Fl.R. period 5s	43 13	F. 2 Fl. 5	Red tower; 36.	
716 M 6749	-N. breakwater, head.	42° 21.2' N 140° 56.9' E	Fl.G. period 4s	33 10	3	White tower; 23.	F.Y., Iso.W., Iso.R. and Iso.G. mark bridge 230 meters SE.
720 M 6750	-S. breakwater, head.	42° 21.0' N 140° 57.0' E	Fl.R. period 4s	43 13	3	Red tower; 36.	
724 M 6748	-Sea berth.	42° 21.6' N 140° 56.6' E	Mo.(U)W. period 10s	105 32	11		
736 M 6754.3	-E. end Range, front.	42° 21.1' N 140° 58.9' E	FR.	105 32	4	White framework tower, red triangular daymark point up; 98.	
740 M 6754.31	--Rear, 400 meters 090° from front.	42° 21.1' N 140° 59.1' E	FR.	115 35	4	White framework tower, red triangular daymark point down; 108.	
744 M 6756	-Huzi Ironworks Wharf.	42° 20.6' N 140° 58.8' E	Fl.(3)G. period 13s	23 7	8	White round metal tower; 12.	
748 M 6755	-Huzi Ironworks Range No 1, front.	42° 20.5' N 140° 58.9' E	FR.	62 19	6	Aluminum framework tower, red triangular daymark point up; 56.	
752 M 6755.1	--Rear, about 173 meters 124.1° from front.	42° 20.4' N 140° 59.0' E	FR.	79 24	6	Aluminum framework tower, red triangular daymark point up; 75.	

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JAPAN-HOKKAIDO-SOUTH COAST							
756 M 6762	-Huzi Seitetu Range No 2, front.	42° 20.9' N 141° 00.4' E	F.R.	56 17	6	Black triangular framework beacon, red triangular daymark point up; 56.	
760 M 6762.1	--Rear, about 115 meters 079° from front.	42° 20.9' N 141° 00.5' E	F.R.	72 22	6	Black triangular framework beacon, red triangular daymark point up; 72.	
764 M 6763	-Huzi Seitetu Range No 3, front.	42° 21.0' N 141° 00.3' E	F.R.	62 19	6	Aluminum framework tower, red triangular daymark point up; 56.	
768 M 6763.1	--Rear, 85 meters 079° from front.	42° 21.0' N 141° 00.3' E	F.R.	79 24	6	Aluminum framework tower, red triangular daymark point up; 72.	
772 M 6768	-Nittu Wharf Range No 1, front.	42° 19.8' N 140° 59.0' E	F.R.	59 18	4	Metal framework tower, red triangular daymark point up; 10.	
776 M 6768.1	--Rear, 50 meters 125° from front.	42° 19.8' N 140° 59.0' E	F.R.	69 21	4	Metal framework tower, red triangular daymark point up; 17.	
780 M 6769	-Nittu Wharf Range No 2, front.	42° 19.8' N 140° 59.2' E	F.R.	36 11	4	Metal framework tower, red triangular daymark point up; 5.	
784 M 6769.1	--Rear, 35 meters 110° from front.	42° 19.8' N 140° 59.2' E	F.R.	43 13	4	Metal framework tower, red triangular daymark point up; 10.	
788 M 6744.5	Date Ko, breakwater, head.	42° 27.7' N 140° 51.5' E	Fl.G. period 3s	43 13	7	White tower; 29.	
790.5 M 6744.2	-Usu Wan.	42° 30.9' N 140° 46.1' E	Fl.(2)W. period 5s	33 10	5	ISOLATED DANGER BRB, beacon, topmark.	
792 M 6744	Abuta Byochi, breakwater, head.	42° 31.8' N 140° 46.4' E	Fl.R. period 4s	39 12	7	Red round concrete tower; 31.	
796 M 6742	Toyoura Ko, S. breakwater, head.	42° 34.7' N 140° 42.5' E	Iso.R. period 4s	27 8	5	Red tower; 18.	
800 M 6742.4	-S. detached breakwater, W. head.	42° 34.7' N 140° 42.5' E	Iso.G. period 4s	39 12	5	White concrete column; 30.	
808 M 6741.5	Reubon Ko.	42° 34.4' N 140° 35.9' E	Fl.R. period 3s	43 13	3	Red round concrete tower; 18.	
810 M 6741.4	Sitsukari Toge.	42° 35.1' N 140° 28.5' E	Fl.(2)R. period 6s	39 12	5	Red tower; 18.	
811 M 6741.35	Oshamanbe Ko.	42° 31.7' N 140° 24.1' E	Fl.G. period 3s	26 8	5	White tower; 16.	
812 M 6740	Sawara Ko, N. breakwater, head.	42° 07.8' N 140° 41.3' E	Fl.(2)R. period 6s	39 12	5	Red tower; 31.	
814 M 6740.5	Dokui Saki, breakwater, head.	42° 07.6' N 140° 38.7' E	Fl.R. period 3s	27 8	3	Red tower; 16.	
816 M 6741	Mori Ko, W. breakwater.	42° 06.8' N 140° 35.5' E	F.Fl.R. period 5s	36 11	F. 2 Fl. 5	Red tower; 30.	
816.5 M 6741.05	-Breakwater, head.	42° 08.2' N 140° 30.6' E	Fl.G. period 3s	27 8	3	White tower; 16.	
818 M 6741.1	Ishikura Ko.	42° 09.6' N 140° 28.6' E	Fl.(2)G. period 6s	28 9	3	White round tower; 16.	
820 M 6741.2	Otoshibe Ko.	42° 11.6' N 140° 25.9' E	Fl.G. period 3s	39 12	5	White tower; 18.	
820.5 M 6741.25	-Breakwater, head.	42° 13.3' N 140° 23.7' E	Iso.G. period 4s	27 8	3	White tower; 16.	
824 M 6741.3	Yakumo Ko.	42° 15.4' N 140° 17.4' E	Fl.(2)G. period 6s	39 12	5	White tower; 29.	

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JAPAN-HOKKAIDO-SOUTH COAST							
828 M 6738	Suna Saki.	42° 08.2' N 140° 42.7' E	Fl.W. period 4s	46 14	12	White tower, red bands; 39.	
830 M 6737	Dekima Saki, SE.	42° 03.4' N 140° 48.5' E	Fl.(2)G. period 6s	36 11	3	White tower; 27.	
SIKABA KO:							
832 M 6735	-E. breakwater.	42° 02.1' N 140° 49.6' E	Fl.G. period 3s	46 14	3	White tower; 27.	
836 M 6733	Usuziri Wan, N. breakwater, head.	41° 56.2' N 140° 56.6' E	Fl.(2)G. period 6s	36 11	5	White tower; 30.	
842 M 6734	Ohune Ko.	41° 58.2' N 140° 55.0' E	Oc.R. period 4s lt. 3s, ec. 1s	39 12	4	Red tower; 27.	
844 M 6732	Kakkumi Ko, N. breakwater.	41° 54.4' N 140° 58.9' E	Iso.G. period 4s	42 13	4	White round concrete tower; 30.	
848 M 6731	Osatsube Ko, N. breakwater.	41° 53.7' N 141° 00.8' E	F.Fl.G. period 5s	36 11	F. 2 Fl. 5	White tower; 30.	
850 M 6730.5	Kinaosi Ko.	41° 53.4' N 141° 04.1' E	Fl.G. period 3s	42 13	3	White tower; 27.	
851 M 6730.3	Furube Ko.	41° 52.1' N 141° 07.1' E	Fl.(2)G. period 6s	49 15	3	White tower; 31.	
852 M 6730	Todohokke Ko, E. breakwater.	41° 49.5' N 141° 10.0' E	Fl.G. period 4s	49 15	7	White round concrete tower; 31.	
856 M 6729	Esan Misaki.	41° 48.9' N 141° 11.0' E	Iso.W. period 6s	144 44	18	White round concrete tower; 62.	Visible 156°-335°.
RAMARK							
858 M 6728.5	-Breakwater.	41° 47.6' N 141° 10.3' E	Fl.(2)R. period 6s	36 11	3	Red tower; 16.	
860 M 6727	Yamasedomari Ko, S. breakwater.	41° 47.1' N 141° 07.8' E	Iso.R. period 4s	39 12	5	Red tower; 36.	
860.5 M 6727.4	-W. breakwater.	41° 47.2' N 141° 07.9' E	Iso.G. period 4s	36 11	5	White tower; 30.	
864 M 6725	Hiura Misaki.	41° 43.6' N 141° 03.2' E	Oc.(2)W.R. period 12s	75 23	14	White tower; 31.	R. 227°-241°, W.-227°.
868 M 6724.4	Toi Ko, S. breakwater.	41° 43.1' N 141° 01.5' E	Fl.G. period 4s	39 12	3	White round concrete tower; 36.	
876 M 6724	Siokubi Misaki.	41° 42.9' N 140° 57.8' E	Fl.(2)W. period 20s 2 fl. 5s, ec. 15s	164 50	19	White round metal tower; 36.	Visible 279°-098°.
880 M 6722	Kamaya Ko, W. breakwater, head.	41° 43.8' N 140° 56.2' E	Iso.G. period 4s	43 13	4	White round concrete tower; 27.	
882 M 6720	Kameda.	41° 45.1' N 140° 52.3' E	Iso.R. period 4s	43 13	5	Red tower; 27.	
884 M 6719	Shinori Ko, S. breakwater.	41° 45.8' N 140° 49.3' E	F.Fl.G. period 6s	33 10	F. 1 Fl. 3	White round concrete tower; 30.	
HAKODATE KO:							
888 M 6718	-AVIATION LIGHT.	41° 46.6' N 140° 48.7' E	Al.Fl.W.G. period 4.3s	147 45	W. 3 G. 1	Metal framework tower.	
892 M 6716	-Osima Sumiyosi Ko, E. breakwater, head.	41° 45.2' N 140° 43.3' E	Fl.(2)R. period 6s	39 12	3	Red concrete column; 30.	
896 M 6715	-Fishery Harbor, W. breakwater.	41° 46.4' N 140° 41.8' E	Fl.(2)R. period 5s	36 11	4	Red tower; 31.	

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JAPAN-HOKKAIDO-SOUTH COAST							
898 M 6707.5	-Outer breakwater, N. head.	41° 47.7' N 140° 41.6' E	Fl.R. period 3s	49 15	8	Red tower; 49.	
900 M 6706	-W. breakwater, N. head.	41° 47.7' N 140° 41.9' E	Fl.(2)R. period 6s	46 14	7	Red round concrete tower; 46.	
904 M 6707	-N. breakwater, S. head.	41° 47.9' N 140° 42.0' E	Fl.(2)G. period 6s	46 14	7	White tower; 46.	
908 M 6707.4	-N. auxiliary breakwater, head.	41° 48.4' N 140° 41.8' E	Fl.R. period 5s	39 12	7	Red round concrete tower; 39.	
912 M 6708	-Training Wall No 3, head.	41° 48.6' N 140° 42.1' E	F.Fl.G. period 5s	39 12	F. 2 Fl. 5	White metal framework tower; 36.	
916 M 6714	-Central pier, S. basin, breakwater, head.	41° 46.8' N 140° 43.5' E	Fl.G. period 3s	19 6	3	White round metal framework tower; 16.	
920 M 6704	-Outer Harbor, Nippon Cement sea berth.	41° 48.1' N 140° 39.3' E	Mo.(U)W. period 10s	33 10	11		Siren: 2 bl. ev. 20s. Radar reflector.
922 M 6704.5	-Breakwater.	41° 49.0' N 140° 39.0' E	Fl.G. period 3s	30 9	3	White tower; 16.	
924 M 6703	Moheji Ko, E. breakwater, head.	41° 45.6' N 140° 36.4' E	F.Fl.G. period 3s	36 11	F. 2 Fl. 5	White tower; 31.	
928 M 6702	Kattoshi Misaki.	41° 44.5' N 140° 36.0' E	Oc.W. period 10s lt. 6s, ec. 4s	151 46	18	White round concrete tower; 52.	Visible 221°-052°.
932 M 6702.5	Tobetsu Ko, S. breakwater.	41° 44.4' N 140° 35.4' E	Iso.G. period 4s	33 10	4	White round concrete tower; 30.	
934 M 6701.5	Kikonai Wan.	41° 41.9' N 140° 28.9' E	Fl.R. period 3s	26 8	3	Red tower; 16.	
936 M 6701	Hokuden Siriuti, sea berth.	41° 35.1' N 140° 26.1' E	Mo.(U)W. period 12s	62 19	10		Auxiliary light F.R. about 66 meters N. Horn: Mo.(U) ev. 30s. Radar reflector.
940 M 6700	Wakimoto, E. breakwater.	41° 33.8' N 140° 26.0' E	Fl.G. period 4s	49 15	7	White round concrete tower; 31.	
944 M 6698	Yagoshi Misaki.	41° 31.1' N 140° 24.5' E	Fl.W. period 5s	315 96	14	White round concrete tower; 26.	Visible 230°-076°.
948 M 6695	Fukushima Ko, E. breakwater.	41° 28.5' N 140° 15.8' E	Fl.G. period 3s	36 11	7	White tower; 29.	
952 M 6696	Hukushima Ko.	41° 28.6' N 140° 15.7' E	Iso.R. period 4s	36 11	5	Red round concrete tower; 18.	
956 M 6693	Yoshioka Ko, S. breakwater.	41° 26.7' N 140° 14.4' E	F.Fl.G. period 6s	46 14	F. 2 Fl. 5	White tower; 30.	
960 M 6692	Shirakami Misi.	41° 23.9' N 140° 11.8' E	Al.Fl.W.R. period 30s	121 37	W. 17 R. 16	White round concrete tower, red bands; 56.	Visible 255°-101°.
960.5 M 6691.2	Osawa Ko.	41° 25.7' N 140° 08.4' E	Fl.(2)G. period 6s	36 11	3	White tower; 16.	

JAPAN-HOKKAIDO-SOUTH AND WEST COASTS

964 M 6690	Matumae (Fukuyama).	41° 25.1' N 140° 05.3' E	Iso.W. period 6s	82 25	12	White tower; 22.	Visible 217°-119°. DGPS Station.
968 M 6691	-Outer breakwater.	41° 25.3' N 140° 05.7' E	Iso.G. period 6s	56 17	5	White tower; 46.	
972 M 7042	Tatehama Ko.	41° 26.7' N 140° 02.5' E	F.Fl.G. period 6s	46 14	F. 1 Fl. 3	White tower; 36.	
976 M 7044	Yoshiga Sima, on summit.	41° 26.6' N 140° 02.0' E	Fl.W. period 5s	46 14	5	White tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-SOUTH AND WEST COASTS							
980 <i>M 7040</i>	Satumae Ko, W. breakwater, head.	41° 28.1' N 140° 01.7' E	Fl.(2)G. period 6s	43 13	5	White tower; 36.	
984 <i>M 7039</i>	Sizuura Ko, W. breakwater.	41° 29.1' N 140° 01.1' E	Iso.G. period 4s	46 14	5	White tower; 32.	
988 <i>M 6684</i>	Matumae O Sima.	41° 29.9' N 139° 20.6' E	Fl.W. period 4s	443 135	10	White round concrete tower, red bands; 39.	Visible 257°-134°.
992 <i>M 6686</i>	Matumae Ko Sima.	41° 21.8' N 139° 48.8' E	Fl.(3)W. period 30s 3 fl. 12s, ec. 18s	141 43	18	White octagonal concrete tower; 79.	Visible 102°-355°.
996 <i>M 7037</i>	Mokusa, entrance.	41° 29.6' N 140° 00.8' E	Fl.(2)R. period 5s	49 15	4	Red round concrete tower; 28.	
1000 <i>M 7036</i>	Kiyobe Ko, N. breakwater.	41° 31.2' N 140° 00.1' E	Fl.G. period 4s	27 8	3	White tower; 18.	
1004 <i>M 7034</i>	Era Ko, W. breakwater, head.	41° 32.7' N 139° 59.1' E	Fl.R. period 3s	36 11	3	Red tower; 36.	
1008 <i>M 7032.6</i>	Haraguti Ko, N. breakwater.	41° 36.4' N 139° 58.9' E	Fl.G. period 3s	33 10	4	White tower; 20.	
1012 <i>M 7033</i>	Haraguti Oiwa, obstruction light.	41° 36.1' N 139° 58.9' E	F.W.	111 34		White tower, red band; 21.	Illuminates beacon about 320 meters NNW.
1016 <i>M 7032.4</i>	Higatatomari Misaki.	41° 39.0' N 139° 59.8' E	Oc.(2)W. period 7s lt. 4s, ec. 1s lt. 1s, ec. 1s	141 43	14	White tower, red bands; 36.	
1024 <i>M 7031</i>	Siofuki Ko, N. breakwater.	41° 44.4' N 140° 02.9' E	Fl.G. period 3s	52 16	5	White tower; 36.	
JAPAN-HOKKAIDO-WEST COAST							
ESASHI KO:							
1032 <i>M 7028</i>	-Kamome Sima.	41° 52.2' N 140° 06.7' E	Fl.(3)W. period 13s	118 36	17	White tower; 39.	Visible 007°-277°.
1036 <i>M 7029</i>	-W. breakwater, head.	41° 52.4' N 140° 07.3' E	Fl.R. period 3s	49 15	7	Red tower; 39.	
1040 <i>M 7029.4</i>	-E. breakwater, head.	41° 52.4' N 140° 07.3' E	Fl.G. period 5s	36 11	3	White tower; 32.	
1044 <i>M 7028.4</i>	-E. outer breakwater, head.	41° 52.4' N 140° 07.3' E	Fl.G. period 3s	43 13	5	White tower; 36.	
1048 <i>M 7026</i>	Otobe Ko, W. breakwater.	41° 58.2' N 140° 07.7' E	Fl.(2)G. period 6s	46 14	5	White tower; 36.	Mercury vapor light on E. breakwater head.
1052 <i>M 7025.4</i>	Hiyama Toyohama Ko, W. breakwater.	42° 02.7' N 140° 04.9' E	F.Fl.G. period 5s	52 16	F. 1 Fl. 3	White tower; 33.	
1056 <i>M 7025.2</i>	Ainuma Ko, N. breakwater.	42° 04.4' N 140° 03.5' E	Fl.G. period 3s	52 16	3	White tower; 36.	
1064 <i>M 7024.4</i>	-S. breakwater.	42° 07.5' N 139° 59.1' E	Fl.G. period 4s fl. 1s, ec. 3s	56 17	7	White tower; 36.	
1068 <i>M 7024.6</i>	-E. breakwater.	42° 07.7' N 139° 58.9' E	Fl.R. period 3s	49 15	3	Red tower; 31.	
1072 <i>M 7023.8</i>	Ponmoshiri Misaki.	42° 08.0' N 139° 55.4' E	Fl.(2)W. period 8s 2 fl. 3s, ec. 5s	141 43	12	White tower, black bands; 36.	
1076 <i>M 7023.2</i>	Murotsu Sima.	42° 01.1' N 139° 27.0' E	Fl.W.R. period 5s	49 15	8	White round concrete tower, red band; 36.	W. 267°-237°, R.-267°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-WEST COAST							
1080 M 7022	Aonae Misaki.	42° 03.7' N 139° 27.2' E	Fl.W. period 10s	88 27	15	White tower, red bands; 52.	Visible 233°-110°.
1084 M 7023	-N. breakwater, head.	42° 03.7' N 139° 27.5' E	Fl.(2)G. period 6s	39 12	5	White tower; 15.	
1088 M 7021	Okushiri.	42° 10.8' N 139° 31.6' E	Fl.G. period 3s	39 12	7	White tower; 33.	
1092 M 7023.3	Kamuiwaki, W. breakwater.	42° 10.2' N 139° 24.5' E	Fl.G. period 5s	40 12	7	White tower; 33.	
1096 M 7020	Inaho Misaki.	42° 14.3' N 139° 33.6' E	Fl.W. period 15s	135 41	18	White square concrete tower, black bands; 56.	Visible 070°-336°. F.W. illuminates rock about 1095 meters N.
RAMARK							
1100 M 7019	Kouta Misaki.	42° 13.4' N 139° 48.9' E	Oc.(3)W. period 13s lt. 6s, ec. 1s lt. 2s, ec. 1s lt. 2s, ec. 1s	102 31	14	White round concrete tower; 33.	
1104 M 7019.4	Kudo Ko, S. breakwater.	42° 13.2' N 139° 49.7' E	Fl.(2)R. period 6s	56 17	3	Red round concrete tower; 33.	
1108 M 7018.5	Midareno Saki.	42° 21.2' N 139° 46.7' E	Fl.W. period 5s	105 32	12	White round concrete tower; 33.	
1112 M 7018	Setana K5, S. outer breakwater.	42° 27.0' N 139° 50.5' E	Iso.G. period 6s	49 15	9	White round concrete tower; 36.	
1116 M 7016	Biya entrance.	42° 33.0' N 139° 50.2' E	Fl.(2)R. period 6s	32 10	5	Red tower; 27.	
1120 M 7015	Suchiku Mi.	42° 35.8' N 139° 49.5' E	F.Fl.R. period 3s	49 15	F. 2 Fl. 5	Red round concrete tower; 36.	
1124 M 7014	Motta Misaki.	42° 37.0' N 139° 49.3' E	Fl.(2)W. period 24s	925 282	23	White tower, black band; 46.	Visible 356°-211°.
1128 M 7013.4	Kimaki Misaki.	42° 41.4' N 139° 55.4' E	Oc.(2)W. period 6s	135 41	14	Red tower, white bands; 31.	
1130 M 7013.2	Chihase Ko.	42° 41.3' N 140° 00.1' E	Fl.R. period 3s	46 14	5	Red tower; 36.	
1132 M 7013	Honme Misaki.	42° 44.6' N 140° 06.9' E	Fl.(3)W. period 15s	157 48	12	White hexagonal tower, black bands; 36.	
JAPAN-HOKKAIDO-WEST AND NORTH COASTS							
1136 M 7012	Benkei Misaki.	42° 49.6' N 140° 11.1' E	Fl.W. period 8s	108 33	16	White tower, red band; 43.	Visible 057°-308°.
1140 M 7011	Daimaru Iso.	42° 48.4' N 140° 13.5' E	Fl.W. period 3s	36 11	5	White tower; 36.	
1144 M 7010	Suttsu, N. breakwater.	42° 47.8' N 140° 14.2' E	Fl.R. period 3s	52 16	5	Red round concrete tower; 32.	
1148 M 7009	Yokoma Ko.	42° 51.0' N 140° 20.1' E	F.W.	118 36		White tower; 24.	Illuminates W. beacon about 470 meters W.
1152 M 7006	Iwanai Ko, W. breakwater, head.	42° 59.8' N 140° 30.6' E	Fl.(2)R. period 6s	46 14	5	Red tower; 36.	
1156 M 7008	-N. breakwater.	42° 59.3' N 140° 30.6' E	Fl.R. period 3s	21 6	3	Red tower; 16.	
1160 M 7005.7	Shiribesitomari Ko.	43° 04.1' N 140° 29.5' E	Fl.(2)W. period 8s 2 fl. 3s, ec. 5s	98 30	12	White tower, red band; 33.	F.W. illuminates beacon on reef close WSW.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-WEST AND NORTH COASTS							
1164 <i>M 7005.5</i>	Kamoenai Ko, W. breakwater.	43° 08.5' N 140° 25.4' E	Iso.G. period 4s	46 14	4	White tower; 32.	
1168 <i>M 7005.2</i>	Kawashiro Ko Offing Breakwater, head.	43° 13.1' N 140° 19.6' E	Fl.G. period 3s	39 12	3	White tower; 18.	
1172 <i>M 7004</i>	Kamui Misaki.	43° 20.0' N 140° 20.8' E	Fl.W. period 15s	269 82	21	White tower, black band; 39.	Visible 008°-243°.
1176 <i>M 7005</i>	Yobetsu Ko, N. breakwater.	43° 19.9' N 140° 22.7' E	Fl.(2)R. period 6s	43 13	4	Red round concrete tower; 16.	
1178 <i>M 7004.5</i>	-E. breakwater.	43° 20.0' N 140° 23.9' E	Fl.R. period 3s	39 12	5	Red tower; 33.	
1178.5	Hiduka Ko.	43° 21.3' N 140° 27.7' E	Fl.G. period 3s	27 8	3	White tower; 16.	
1180 <i>M 7003</i>	Shakotan De Misaki.	43° 22.4' N 140° 28.9' E	Fl.W. period 5s	462 141	19	White round concrete tower, red band; 43.	DGPS Station.
1184 <i>M 7002</i>	Bikuni Ko, outer breakwater.	43° 18.1' N 140° 36.5' E	F.Fl.R. period 6s	43 13	F. 2 Fl. 5	Red round concrete tower; 36.	
1188 <i>M 7001</i>	Furubira Ko, E. breakwater.	43° 16.4' N 140° 38.7' E	Fl.R. period 5s	36 11	7	Red tower; 36.	
1196 <i>M 6998</i>	Yoichi Ko, basin, S. breakwater, head.	43° 12.8' N 140° 46.7' E	Fl.G. period 4s	25 8	3	White tower; 20.	
1200 <i>M 6998.6</i>	--N. breakwater.	43° 12.7' N 140° 46.7' E	F.Fl.R. period 4s	32 10	F. 3 Fl. 7	Red tower; 29.	
1204 <i>M 6998.4</i>	--Head.	43° 12.8' N 140° 46.9' E	Fl.R. period 3s	39 12	5	Red tower; 27.	
1208 <i>M 6999.4</i>	-Breakwater, W. side of river mouth.	43° 12.1' N 140° 47.6' E	Fl.(2)R. period 5s	39 12	3	Red tower; 18.	
1210 <i>M 6997.5</i>	Oshoro.	43° 12.6' N 140° 51.6' E	Dir.W.R.G.	16 5	W. 13 R. 10 G. 10	White tower; 11.	F.R. 126°54'-128°54', F.W.- 129°54', F.G.-131°54'.
1212 <i>M 6996</i>	Hiyori Yama.	43° 14.1' N 141° 00.9' E	Fl.W. period 8s	164 50	19	White tower, red bands; 33.	Visible 108°-347°.
1216 <i>M 6995</i>	-Breakwater, S. head.	43° 13.9' N 141° 01.0' E	Fl.R. period 3s	39 12	5	Red round concrete tower; 36.	
OTARU KO:							
1220 <i>M 6992</i>	-Takashima, N. breakwater.	43° 12.8' N 141° 01.0' E	Fl.R. period 6s	43 13	5	Red round concrete tower; 33.	
1224 <i>M 6988</i>	-N. auxiliary breakwater, E. head.	43° 12.0' N 141° 01.6' E	F.Fl.R. period 4s	49 15	F. 4 Fl. 7	Red tower; 46.	
1228 <i>M 6989</i>	-S. breakwater, head.	43° 11.9' N 141° 01.5' E	F.Fl.G. period 4s	46 14	F. 4 Fl. 7	White tower; 52.	
1230 <i>M 6981.4</i>	-Ishikariwan Ko Range, front.	43° 11.0' N 141° 17.5' E	F.R.	49 15	2	Red beacon, white bands, red triangular daymark point up; 32.	
1231 <i>M 6981.41</i>	--Rear, 167°42' from front.	43° 11.0' N 141° 17.5' E	F.R.	66 20	2	Red beacon, white bands, red triangular daymark point up; 46.	
1231.2 <i>M 6981.2</i>	-Outer breakwater.	43° 13.7' N 141° 17.4' E	Fl.(2)R. period 6s	52 16	7	Red tower; 46.	
ISHIKARI GAWA:							
1231.5 <i>M 6979</i>	-Approach.	43° 16.6' N 141° 14.3' E	Mo.(A)W. period 8s	36 11	5	SAFE WATER RW, beacon, topmark.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-WEST AND NORTH COASTS							
1232 <i>M 6980</i>	-Ishikari, W. side of entrance to river.	43° 15.4' N 141° 21.6' E	Fl.W. period 20s	56 17	13	White round metal tower, red bands; 46.	Visible 043°-223°.
1240 <i>M 6975.5</i>	Atsuta Ko, W. breakwater, head.	43° 23.9' N 141° 25.7' E	Fl.G. period 3s	42 13	7	White round concrete tower; 32.	
1244 <i>M 6974.4</i>	Hamamasu, W. breakwater.	43° 36.2' N 141° 22.9' E	Fl.R. period 3s	39 12	5	Red tower; 36.	
1248 <i>M 6974</i>	-N. breakwater.	43° 36.2' N 141° 22.8' E	F.Fl.G. period 6s	46 14	F. 2 Fl. 5	White round concrete tower; 33.	
1252 <i>M 6973.5</i>	Isikari Wan.	43° 38.1' N 141° 21.1' E	Fl.W. period 10s	200 61	20	White tower, red bands; 82.	Visible 358°-167°.
1256 <i>M 6972.2</i>	Ohuyu Ko, N. breakwater.	43° 51.3' N 141° 32.0' E	Iso.G. period 4s	36 11	11	White round concrete structure; 36.	
1258 <i>M 6972.4</i>	Betukari Ko.	43° 50.1' N 141° 28.6' E	Fl.R. period 4s fl. 1s, ec. 3s	46 14	3	Red tower; 36.	
1260 <i>M 6970</i>	Mashike Ko.	43° 51.4' N 141° 31.5' E	Al.Fl.W.R. period 16s	150 46	W. 18 R. 17	White square concrete tower, black band; 43.	Visible 068°-287°.
1268 <i>M 6972</i>	-N. breakwater, head.	43° 51.5' N 141° 32.2' E	Fl.(2)R. period 6s	46 14	5	Red round concrete tower; 32.	
RUMOI KO:							
1272 <i>M 6960.6</i>	-Rumoi.	43° 57.4' N 141° 38.5' E	Fl.W. period 8s	190 58	20	White round concrete tower, red bands; 56.	Visible 016°-181°.
1276 <i>M 6961</i>	-S. breakwater, head.	43° 57.8' N 141° 37.8' E	Fl.R. period 3s	52 16	4	Red tower; 46.	
1280 <i>M 6960.8</i>	-W. breakwater, head.	43° 57.8' N 141° 37.4' E	Fl.(2)G. period 6s	49 15	7	White concrete column; 52.	
1284 <i>M 6962</i>	-N. breakwater, head.	43° 57.5' N 141° 38.2' E	Fl.G. period 3s	39 12	4	White tower; 36.	
1296 <i>M 6959</i>	Obira, detached breakwater.	44° 00.0' N 141° 39.0' E	Iso.R. period 6s	33 10	5	Red tower; 30.	F.W. auxiliary light illuminates beacon on reef about 275 meters N.
1300 <i>M 6958</i>	Onishika Ko, W. breakwater, head.	44° 09.5' N 141° 39.2' E	Fl.R. period 4s	43 13	7	Red round concrete tower; 32.	
1304 <i>M 6957</i>	Rikibiru Ko, S. breakwater.	44° 13.5' N 141° 39.2' E	Fl.R. period 5s	36 11	5	Red round concrete tower; 36.	
TOMMAE KO:							
1308 <i>M 6954</i>	-N. breakwater, head.	44° 19.2' N 141° 39.2' E	Fl.R. period 3s		4	Red round concrete tower.	F.W. shown near extremity of point.
1312 <i>M 6953</i>	-E. Breakwater, head.	44° 19.0' N 141° 39.2' E	Fl.G. period 3s	36 11	3	White tower; 16.	
1316 <i>M 6955</i>	-Tomamae.	44° 19.2' N 141° 39.0' E	Fl.W. period 5s	223 68	12	White round concrete tower; 33.	
1320 <i>M 6954.4</i>	-Haboro Ko, W. breakwater, head.	44° 22.6' N 141° 41.7' E	Fl.R. period 4s	45 14	7	Red tower; 33.	
1324 <i>M 6944</i>	Yakishiri Jima.	44° 25.5' N 141° 25.9' E	Fl.(4)W. period 30s 4 fl. 15s, ec. 15s	167 51	19	White tower; 43.	Visible 182°-090°, obscured 182°-192° when within 7M.
F.W.							
1328 <i>M 6946</i>	--Breakwater.	44° 26.4' N 141° 25.9' E	Fl.(2)R. period 8s	43 13	5	Red round concrete tower; 32.	Illuminates beacon on Kamoi Iwa rock.

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JAPAN-HOKKAIDO-WEST AND NORTH COASTS							
1330 <i>M 6945</i>	--Nisiura Ko, breakwater.	44° 26.5' N 141° 24.0' E	Fl.R. period 3s	33 10	5	Red round concrete tower; 32.	
1332 <i>M 6941</i>	Akaiwa Saki.	44° 24.9' N 141° 17.7' E	Fl.(2)W. period 7s 2 fl. 1.5s, ec. 5.5s	450 137	7	White round concrete tower; 31.	
1336 <i>M 6939</i>	Teuri To.	44° 26.1' N 141° 19.6' E	Fl.W. period 10s	249 76	20	White round concrete tower, red bands; 49.	
1344 <i>M 6942.6</i>	-N. breakwater, head.	44° 26.4' N 141° 19.8' E	Fl.R. period 4s	49 15	5	Red tower; 36.	
1348 <i>M 6942.8</i>	-S. breakwater, head.	44° 26.3' N 141° 19.8' E	Fl.G. period 4s	36 11	3	White round concrete tower; 36.	
1350 <i>M 6941.5</i>	Maehama Ko.	44° 25.6' N 141° 20.1' E	Fl.G. period 3s	39 12	3	White tower; 28.	
1352 <i>M 6942</i>	-Gome Iwa.	44° 26.7' N 141° 19.7' E	Q.(3)W. period 10s	36 11	7	E. CARDINAL BYB, beacon, topmark; 36.	
1356 <i>M 6934.5</i>	Konpira Misaki, S.	44° 32.1' N 141° 45.7' E	Fl.(2)R. period 6s 2 fl. 2.5s, ec. 3.5s	39 12	3	Red tower; 32.	
1364 <i>M 6935</i>	Konpira Misaki.	44° 33.8' N 141° 46.4' E	Fl.W. period 4s	181 55	12	White tower, red bands; 39.	Visible 004°-246°.
1367 <i>M 6934.1</i>	Teshio Ko.	44° 52.2' N 141° 44.1' E	Fl.G. period 3s	33 10	4	White tower; 18.	
1368.5 <i>M 6932</i>	Wakasakanai Ko.	45° 04.9' N 141° 37.8' E	Fl.R. period 3s	31 10	3	Red tower; 16.	
RISHIRI SHIMA:							
1372 <i>M 6915</i>	-Oshidomari.	45° 14.5' N 141° 14.1' E	Fl.W. period 15s	249 76	22	White tower; 31.	Visible 105°-020°. Obscured locally.
1378 <i>M 6917</i>	--Osidomari ko, entrance.	45° 14.5' N 141° 14.1' E	Fl.(2)R. period 6s	49 15	5	Red tower; 36.	
1380 <i>M 6928</i>	-Ishizaki.	45° 08.6' N 141° 19.7' E	Al.Fl.W.R. period 20s	114 35	17	White round concrete tower, red bands; 105.	
1384 <i>M 6930</i>	-Oniwaki Ko, S. breakwater, head.	45° 08.1' N 141° 18.8' E	Fl.G. period 4s	29 9	4	White tower; 28.	
1388 <i>M 6927</i>	-Senhoshi Saki.	45° 05.6' N 141° 14.5' E	Fl.W. period 5s	95 29	12	Round tower, white bands; 43.	
1392 <i>M 6926</i>	-Senposhi Ko, S. breakwater.	45° 06.6' N 141° 12.5' E	Iso.G. period 6s	43 13	5	White round concrete tower; 36.	
1396 <i>M 6925</i>	--E. breakwater, head.	45° 06.5' N 141° 12.7' E	Iso.R. period 6s	43 13	5	Red round concrete tower; 36.	
1400 <i>M 6924</i>	-Kutsugata Saki.	45° 10.9' N 141° 08.3' E	Iso.W. period 6s	78 24	14	White tower, red band; 39.	
1404 <i>M 6923.6</i>	-Kutsugata Ko, W. breakwater, head.	45° 11.0' N 141° 08.0' E	Fl.R. period 3s	39 12	3	Red tower; 36.	
1408 <i>M 6923</i>	-Outer breakwater, head.	45° 11.5' N 141° 07.8' E	Fl.(2)R. period 6s	52 16	4	Red round concrete tower; 36.	
1412 <i>M 6922.4</i>	-Shiminato Ko, S. breakwater, head.	45° 12.3' N 141° 08.3' E	Iso.R. period 6s	43 13	4	Red round concrete tower; 36.	
1416 <i>M 6922</i>	-Sakaehama Saki.	45° 12.8' N 141° 08.0' E	Fl.(3)W. period 13s	59 18	13	White round concrete tower, red bands; 36.	
1420 <i>M 6919</i>	-Motodomari Ko, N. breakwater, head.	45° 15.2' N 141° 11.2' E	Fl.G. period 3s	39 12	5	White round concrete column; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-WEST AND NORTH COASTS							
1424 <i>M 6909</i>	Hunbe.	45° 16.3' N 141° 02.8' E	Oc.W. period 8s	151 46	14	White tower, red bands; 39.	
1428 <i>M 6908</i>	Mototi.	45° 16.7' N 141° 01.1' E	Fl.W. period 10s	692 211	20	White octagonal concrete tower, black band; 31.	
1432 <i>M 6908.4</i>	Mototi Ko, breakwater.	45° 18.3' N 141° 01.2' E	Fl.(2)R. period 6s	46 14	5	Red round concrete tower; 36.	
1433 <i>M 6914</i>	Teppu Gyoko, breakwater.	45° 25.2' N 140° 59.3' E	Fl.R. period 3s	39 12	5	Red tower; 33.	
1436 <i>M 6910</i>	Kaishomai.	45° 18.1' N 141° 02.8' E	Fl.W. period 4s	157 48	12	White round concrete tower; 26.	
1440 <i>M 6910.7</i>	Kahuka Ko, N. breakwater, head.	45° 18.1' N 141° 03.2' E	Fl.R. period 3s	46 14	5	Red round concrete tower; 36.	
1444.5 <i>M 6910.5</i>	-E. breakwater, head.	45° 17.8' N 141° 03.1' E	Fl.(2)R. period 6s	39 12	4	Red tower; 31.	
1448 <i>M 6911</i>	Kahukai Ko, S. breakwater.	45° 24.4' N 141° 03.7' E	Fl.G. period 3s	36 11	3	White tower; 28.	
1452 <i>M 6913</i>	Todo Shima.	45° 28.4' N 140° 58.1' E	Fl.W. period 3s	174 53	7	White tower, black bands; 39.	
1460 <i>M 6912</i>	Kanedano Misaki.	45° 27.6' N 141° 02.3' E	Fl.(2)W. period 8s 2 fl. 3s, ec. 5s	89 27	12	White tower, red bands; 39.	
1462 <i>M 6913.5</i>	Hamanaka Ko.	45° 26.3' N 140° 59.6' E	Fl.(2)R. period 6s	36 11	3	Red tower; 27.	
1464 <i>M 6912.4</i>	Sukoton Ko, N. breakwater.	45° 27.4' N 140° 58.7' E	Fl.R. period 4s	43 13	3	Red round concrete tower; 33.	
1466 <i>M 6911.2</i>	Nairo Ko, breakwater.	45° 23.3' N 141° 03.4' E	Fl.R. period 5s	39 12	3	Red tower; 32.	
1472 <i>M 6907</i>	Bakkai Ko, W. breakwater.	45° 18.6' N 141° 36.4' E	Fl.G. period 3s	49 15	8	White tower; 36.	
1474 <i>M 6906</i>	Toyohama.	45° 23.4' N 141° 38.2' E	Fl.(2)G. period 8s	24 7	3	White tower; 16.	
WAKKANAI KO:							
1476 <i>M 6901</i>	-Noshappu Misaki.	45° 26.7' N 141° 38.9' E	Fl.(2)W. period 20s 2 fl. 6s, ec. 14s	138 42	18	Red round concrete tower, white bands; 140.	Visible 006°-315°.
1480 <i>M 6905.2</i>	--SW. of Noshappu Misaki.	45° 26.8' N 141° 38.5' E	F.Fl.G. period 3s	39 12	F. 2 Fl. 5	White tower; 32.	
1484 <i>M 6902</i>	-N. breakwater, head.	45° 24.9' N 141° 41.8' E	Iso.R. period 6s	49 15	5	Red tower; 46.	
1486 <i>M 6904</i>	-E. breakwater, W. head.	45° 24.7' N 141° 41.9' E	Fl.G. period 3s	42 13	3	White tower; 36.	
1486.5 <i>M 6905</i>	--E. head.	45° 24.6' N 141° 42.7' E	Fl.R. period 3s	39 12	5	Red tower; 33.	
1487 <i>M 6901.2</i>	-Outer breakwater, E. head.	45° 25.1' N 141° 42.3' E	Fl.(2)R. period 6s	46 14	5	Red round concrete tower; 43.	
1488 <i>M 6902.4</i>	-Hokuyo Wharf, N. breakwater, head.	45° 24.7' N 141° 41.2' E	Fl.(2)G. period 6s	36 11	3	White round concrete tower; 30.	
1492 <i>M 6903.4</i>	-N. breakwater wharf, head.	45° 24.7' N 141° 40.8' E	Fl.R. period 5s	36 11	4	Red round concrete tower; 30.	
1508 <i>M 6900</i>	Koetoi Saki Offing.	45° 25.6' N 141° 44.9' E	Q.W.	39 12	8	N. CARDINAL BY, beacon, topmark; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-WEST AND NORTH COASTS							
1510 <i>M 6900.5</i>	-W. breakwater, head.	45° 24.7' N 141° 45.3' E	Fl.G. period 6s	25 8	5	White tower; 16.	
1512 <i>M 6899</i>	-AVIATION LIGHT.	45° 24.3' N 141° 48.1' E	Al.Fl.W.G. period 4.3s		W. 3 G. 1		
1516 <i>M 6898</i>	Tomiso Ko, W. breakwater.	45° 27.7' N 141° 52.5' E	F.Fl.G. period 6s	43 13	F. 1 Fl. 3	White round concrete tower; 33.	
1520 <i>M 6897.6</i>	Soya Gyoka, W. breakwater.	45° 29.1' N 141° 52.6' E	iso.G. period 4s	43 13	4	White tower; 36.	
1522 <i>M 6897.4</i>	Saya Gyoko.	45° 30.8' N 141° 53.8' E	Fl.R. period 3s	43 13	3	Red tower; 36.	
1524 <i>M 6896</i>	Soya Misaki.	45° 31.3' N 141° 56.2' E	Fl.(4)W. period 30s 4 fl. 15s, ec. 15s	131 40	17	Red square concrete tower, white bands; 56.	Visible 077°-286°. Horn: 1 bl. ev. 20s (bl. 5s, si. 15s). DGPS Station.
RAMARK							
1532 <i>M 6897</i>	-Outer N. breakwater.	45° 31.2' N 141° 56.9' E	iso.R. period 4s	46 14	5	Red round concrete tower; 36.	
1536 <i>M 6896.5</i>	Tsuetomanai Point.	45° 25.4' N 142° 02.2' E	Fl.R. period 3s	46 14	5	Red tower; 36.	

Section 2

Northwest Coast of Honshu

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
1540 <i>M 5330</i>	Kurumi Se.	34° 02.4' N 130° 53.6' E	Fl.(2)W. period 5s	39 12		3 ISOLATED DANGER BRB, tower, topmark; 36.	
1544 <i>M 5329</i>	Yoshimi Ko, N. breakwater.	34° 04.0' N 130° 54.0' E	Fl.G. period 3s	23 7		4 White tower; 18.	
1548 <i>M 5322</i>	-Futaishima.	34° 05.9' N 130° 47.0' E	Fl.(3)W. period 30s	338 103		22 White tower; 49.	Visible 296°-140° and 246°- 286°.
1550 <i>M 5323</i>	--S. side, about 590 meters E. Kenega Saki.	34° 05.9' N 130° 47.4' E	Iso.G. period 6s	36 11		4 White tower; 19.	
1552 <i>M 7402</i>	Kogushi Ko Kawatana, breakwater.	34° 09.6' N 130° 54.7' E	Fl.(2)R. period 6s	39 12		5 Red round concrete tower; 31.	
1556 <i>M 7401</i>	Kogusi, Ko, S. breakwater.	34° 10.6' N 130° 55.6' E	Fl.G. period 3s	30 9		5 White tower; 18.	
1560 <i>M 7400</i>	Yatama Ko A, breakwater.	34° 16.3' N 130° 53.2' E	Fl.(2)G. period 6s	43 13		3 White tower; 33.	
1564 <i>M 7399</i>	Kottoi.	34° 19.1' N 130° 53.5' E	Oc.W.R. period 8s lt. 6s, ec. 2s	89 27		14 White tower; 21.	R. 035°-095°, W.-104°, R.- 170°. F.W. illuminates shoal 160 meters WSW.
1566 <i>M 7399.5</i>	Kottoi Ko, breakwater.	34° 18.8' N 130° 53.3' E	Fl.R. period 3s	42 13		3 Red tower; 31.	
1566.1 <i>M 7399.2</i>	-Middle point.	34° 19.1' N 130° 53.5' E	Fl.(2)R. period 6s	30 9		4 Red tower; 18.	
1568 <i>M 7397</i>	Tsuno Shima.	34° 21.2' N 130° 50.5' E	Fl.W. period 5s	148 45		18 Tower; 99.	Visible 352°-232°. Storm signals. F.W. illuminates Kuzu Se about 1.1 km. NNW.
1570 <i>M 7397.5</i>	Tsunoshima Ko, breakwater.	34° 20.8' N 130° 51.4' E	Fl.G. period 3s	30 9		3 White tower; 18.	
1572	-Tsuno Shima.	34° 21.9' N 130° 52.6' E	F.W.	197 60		White square concrete tower; 43. Two spotlights.	
1576 <i>M 7395.4</i>	Yuya Ka Agawa, breakwater, head.	34° 20.8' N 130° 55.7' E	Fl.G. period 3s	33 10		3 White round concrete tower, square base; 28.	
1580 <i>M 7395.6</i>	Awano, breakwater, head.	34° 21.9' N 130° 58.5' E	Fl.G. period 3s	39 12		4 White round tower; 33.	
1584 <i>M 7396</i>	Nagato I Se.	34° 21.7' N 130° 53.5' E	Fl.W. period 3s	59 18		3 White tower; 43.	
1588 <i>M 7395.8</i>	-Kakehuti, W. breakwater, head.	34° 22.7' N 131° 02.0' E	Fl.(2)G. period 6s	36 11		5 White tower; 31.	
1592 <i>M 7395</i>	Kuzu Ko, breakwater.	34° 24.3' N 130° 58.3' E	Fl.R. period 3s	23 7		3 Red round concrete tower; 16.	
1594 <i>M 7395.2</i>	Oura Gyoko.	34° 24.3' N 130° 57.4' E	Iso.R. period 4s	28 8		5 Red tower; 18.	
1596 <i>M 7394.2</i>	-Yuya Ko.	34° 23.4' N 130° 56.5' E	F.W.	312 95		White tower; 36.	Illuminates beacon on Funase 850 meters SSW.
1600 <i>M 7394</i>	Yuya Ko.	34° 23.6' N 130° 56.0' E	Oc.(2)W. period 12s	131 40		5 White tower; 33.	
			F.W.	112 34			

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
KUZU KO:							
1604 M 7392	-Nagato Kawajiri.	34° 26.5' N 130° 58.4' E	Iso.W. period 6s	230 70	8	White tower; 27.	
1612 M 7391	-No 2 breakwater.	34° 25.3' N 131° 00.4' E	Fl.G. period 3s	36 11	5	White tower; 28.	
1616 M 7390.5	Kawaziri, breakwater.	34° 25.3' N 131° 00.3' E	Fl.R. period 3s	56 17	3	Red round concrete structure; 32.	
1620 M 7388	Ima Misaki.	34° 25.0' N 131° 07.9' E	Fl.(2)W. period 10s	246 75	12	White round concrete tower; 22.	
1624 M 7389.5	Kiwada Ko, N. breakwater, head.	34° 23.6' N 131° 08.4' E	Fl.(2)R. period 6s	46 14	3	Red tower; 28.	
1628 M 7377	Ushibata Hana.	34° 26.2' N 131° 15.2' E	Iso.W. period 8s	341 104	5	White round tower; 30.	
1632 M 7378	Hagi Ai Shima.	34° 31.0' N 131° 16.6' E	Fl.(2)W. period 6s	184 56	12	White round concrete tower; 36.	Visible 028°-287°.
1634 M 7378.2	-S. end.	34° 30.0' N 131° 16.9' E	Fl.R. period 3s	32 10	3	Red tower; 18.	
1636 M 7379	O Shima.	34° 25.1' N 131° 16.0' E	Fl.W. period 5s	56 17	5	White tower; 22.	
1640 M 7378.6	Kayoi Ko, N. breakwater, head.	34° 25.3' N 131° 15.1' E	Iso.G. period 4s	26 8	4	White tower; 19.	
1644 M 7378.8	Kayoi Ko Tanoura, breakwater.	34° 25.5' N 131° 14.9' E	Fl.R. period 3s	39 12	3	Red tower; 31.	
1648 M 7378.9	Ohibi, breakwater.	34° 24.7' N 131° 12.6' E	Fl.G. period 5s	25 8	5	White tower; 19.	
1652 M 7382	Senzaki Ko Benten Shima, N. breakwater.	34° 23.8' N 131° 12.2' E	Iso.G. period 4s	26 8	4	White concrete column; 24.	
1656 M 7381.8	-No 1 breakwater, head.	34° 23.8' N 131° 12.4' E	F.Fl.G. period 4s	36 11	F. Fl. 9	White tower; 31.	
1660 M 7381.9	-No 2 breakwater, head.	34° 23.3' N 131° 12.5' E	Fl.R. period 3s	39 12	3	Red tower; 31.	
1664 M 7382.2	-S. breakwater, head.	34° 23.5' N 131° 12.4' E	Fl.G. period 3s	39 12	3	White tower; 31.	
1668 M 7384	-Ozi Hana.	34° 23.9' N 131° 11.8' E	Fl.(2)W. period 6s	24 7	5	White tower; 19.	
1672 M 7389	-Nagato Minato Ko, breakwater, head.	34° 22.8' N 131° 10.8' E	Fl.R. period 4s	39 12	5	Red tower; 28.	
1680 M 7386	Nobase Ko, W. breakwater.	34° 23.0' N 131° 15.0' E	Iso.R. period 6s	25 8	5	Red tower; 19.	
1684 M 7380	Sanmi Ko, W. breakwater.	34° 23.8' N 131° 19.6' E	Iso.G. period 6s	36 11	4	White tower; 28.	
1688 M 7365	Tamae Ko.	34° 24.9' N 131° 22.3' E	Fl.(2)R. period 8s	49 15	5	Red round concrete tower; 31.	Auxiliary F.W. light illuminates N. head of breakwater about 80 meters ENE.
1692 M 7361	Toraga Saki.	34° 27.6' N 131° 23.8' E	Fl.W. period 4s	49 15	7	White round concrete tower; 32.	
HAGI KO:							
1696 M 7362	-Kistsune Shima, N. side.	34° 26.4' N 131° 24.8' E	Oc.W.R. period 8s lt. 6s, ec. 2s	72 22	12	White tower; 39.	R. 092°-116°, W.-092°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
1700 <i>M 7363.4</i>	-Fishery Harbor, E. breakwater.	34° 25.7' N 131° 24.7' E	Fl.(2)G. period 6s	36 11	3	White round tower, quadrangular base; 28.	
1704 <i>M 7363.6</i>	--W. breakwater.	34° 25.9' N 131° 24.5' E	Fl.(2)R. period 6s	26 8	3	Red tower; 16.	
1708 <i>M 7363.8</i>	-Hamasaki, breakwater.	34° 25.3' N 131° 24.1' E	Iso.R. period 8s	36 11	4	Red round metal tower; 26.	
1712 <i>M 7363.7</i>	-N. breakwater, N. head.	34° 25.5' N 131° 23.9' E	Fl.R. period 3s	33 10	3	Red tower; 19.	
1716 <i>M 7364</i>	-Tsurenodai.	34° 25.4' N 131° 24.1' E	Fl.G. period 3s	25 8	3	White tower; 16.	
1720 <i>M 7361.4</i>	Yunagi, beakwater.	34° 26.7' N 131° 24.7' E	Fl.R. period 3s	43 13	3	Red tower; 31.	
1722 <i>M 7362.5</i>	-Breakwater.	34° 26.2' N 131° 24.8' E	Iso.R. period 4s	39 12	4	Red tower; 28.	
1723 <i>M 7364.5</i>	Tsuba Se.	34° 26.1' N 131° 21.1' E	Fl.(2)W. period 5s	16 5	3	ISOLATED DANGER BRB, beacon, topmark; 20.	
1724 <i>M 7360.8</i>	Oi Ko, breakwater.	34° 28.6' N 131° 26.6' E	Fl.R. period 4s	36 11	4	Red tower; 28.	
1726 <i>M 7361.2</i>	Hagi Gyoko.	34° 27.0' N 131° 24.9' E	Fl.(2)R. period 6s	46 14	3	Red tower; 31.	
1728 <i>M 7360.9</i>	Akabose, breakwater, head.	34° 29.4' N 131° 24.7' E	Iso.R. period 8s	22 7	5	Red tower; 19.	
1730 <i>M 7360.85</i>	Uyama Misaki.	34° 28.5' N 131° 26.0' E	Fl.R. period 5s	23 7	3	STARBOARD (B) R, tower, topmark; 22.	
1732 <i>M 7360.7</i>	Nago Ko, breakwater.	34° 29.8' N 131° 28.0' E	Fl.R. period 3s	26 8	3	Red tower; 16.	
1736 <i>M 7360.6</i>	Ohira Se.	34° 31.5' N 131° 27.4' E	Iso.W. period 6s	463 141	5	White tower; 30.	
1740 <i>M 7360.5</i>	Udago Kolmaura, breakwater, head.	34° 33.9' N 131° 32.3' E	Fl.G. period 3s	42 13	3	White tower; 32.	
MI SHIMA:							
1748 <i>M 7370</i>	-Mi Shima.	34° 45.6' N 131° 08.9' E	Fl.W. period 4s	266 81	12	White round concrete tower; 46.	
1754 <i>M 7372.4</i>	-E. breakwater, head.	34° 45.3' N 131° 09.2' E	Fl.(2)G. period 8s	56 17	3	White tower; 33.	
1758 <i>M 7374</i>	-W. breakwater.	34° 45.6' N 131° 09.4' E	Fl.R. period 4s	46 14	3	Red tower; 33.	
1760 <i>M 7369.6</i>	-Utu Oware, breakwater.	34° 47.1' N 131° 09.0' E	Fl.(2)R. period 6s	46 14	3	Red tower; 29.	
1764 <i>M 7368</i>	-N. end.	34° 47.9' N 131° 07.9' E	Fl.(2)W. period 6s	187 57	12	White square tower; 46.	Visible 022°-307°.
1776 <i>M 7360.4</i>	-N. breakwater.	34° 37.4' N 131° 35.9' E	Iso.R. period 4s	27 8	4	Red tower; 19.	
1780 <i>M 7360</i>	Susa Ko, on Tenjin Shima.	34° 37.8' N 131° 34.9' E	Fl.W. period 3s	171 52	3	White tower; 25.	
1784 <i>M 7359</i>	Koyama Misaki.	34° 39.9' N 131° 36.8' E	Fl.W. period 15s	305 93	17	White tower; 39.	Visible 060°-257°.
1788 <i>M 7358</i>	Esaki Ko, Ryuzin Saki.	34° 39.2' N 131° 38.7' E	Fl.W. period 3s	36 11	5	White tower; 26.	
1792 <i>M 7358.4</i>	-Range, front.	34° 38.7' N 131° 38.4' E	F.G.	19 6	8	Tower, white chevron daymark point up; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
1796 M 7358.41	--Rear, 202° from front.	34° 38.7' N 131° 38.4' E	F.G.	33 10	8	Tower, white chevron daymark point up; 32.	
1800 M 7357	Iinoura Ko, N. breakwater.	34° 40.5' N 131° 42.1' E	F.Fl.(2)R. period 10s	49 15	F. 2 Fl. 5	Red tower; 31.	
1804 M 7352.4	Taka Shima.	34° 50.1' N 131° 50.2' E	Fl.W. period 8s	413 126	12	White tower; 49.	
1808 M 7355	Iwami Ohama Ko, N. breakwater.	34° 44.6' N 131° 52.1' E	Fl.R. period 3s	31 9	5	Red tower; 18.	
1812 M 7354	Uomachino Hana.	34° 45.3' N 131° 51.9' E	Iso.W. period 6s	112 34	14	White tower; 36.	
1816 M 7353	Sutsu Ko Oki, breakwater.	34° 46.6' N 131° 54.8' E	F.Fl.R. period 6s	39 12	F. 2 Fl. 5	Red tower; 31.	
1820 M 7351.5	Hamada Ko, N.	34° 51.5' N 132° 00.8' E	Iso.G. period 4s	43 13	9	White round concrete tower; 31.	
1824 M 7348	Uma Shima.	34° 54.2' N 132° 02.7' E	Al.Fl.W.G. period 12s	112 34	W. 16 G. 15	White round brick tower; 31.	Visible 357°-229°. Auxiliary F.W. shows only over Koise Shima.
1828 M 7349	Shakkuri, Hamada Ko.	34° 53.4' N 132° 02.4' E	Fl.(2)W. period 5s	59 18	3	ISOLATED DANGER BRB, beacon, topmark; 52.	
1832 M 7349.15	-Breakwater, head.	34° 53.7' N 132° 03.3' E	Fl.(2)G. period 6s	46 14	3	White round concrete tower; 31.	
1838 M 7349.3	-W. Offing breakwater, head.	34° 53.6' N 132° 03.4' E	F.Fl.(2)R. period 6s	43 13	F. 3 Fl. 7	Red tower; 28.	
1840 M 7349.2	-Breakwater, head.	34° 53.5' N 132° 02.6' E	Fl.R. period 4s	46 14	3	Red tower; 31.	
1844 M 7348.5	Hamada Ko.	34° 53.7' N 132° 03.5' E	Iso.G. period 6s	46 14	10	White round concrete tower; 31.	F.W. illuminates danger 120 meters WSW.
1848 M 7351	-W. breakwater, head.	34° 52.7' N 132° 02.9' E	Iso.R. period 4s	43 13	4	Red tower; 31.	
1852 M 7347.4	Togane Ko, S. breakwater.	34° 56.4' N 132° 06.4' E	F.Fl.R. period 6s	39 12	F. 2 Fl. 5	Red tower; 30.	
1856 M 7347	Iwami Osaki Hana.	34° 58.5' N 132° 09.1' E	Fl.W. period 10s	236 72	20	White round concrete tower; 52.	Visible 054°-226°.
1860 M 7346.5	Gosu.	35° 01.9' N 132° 14.1' E	Iso.W. period 6s	213 65	14	White round concrete tower; 33.	F.W. at Waki 2M SW. Spotlight illuminates training wall head, 78 meters WSW.
1864 M 7346.4	Kuromatsu Ko, breakwater.	35° 03.7' N 132° 18.7' E	F.Fl.G. period 3s	46 14	F. 2 Fl. 5	White round concrete tower; 30.	
1868 M 7346	Yunotsu Ko.	35° 05.9' N 132° 20.3' E	Fl.W.R. period 2s	223 68	13	White round concrete tower; 33.	R. 129°-181°, W.-129°.
1872 M 7346.2	-E. breakwater.	35° 05.7' N 132° 20.3' E	F.Fl.G. period 6s	39 12	F. 3 Fl. 7	White tower; 28.	
1876 M 7345	Nima Ko, offing breakwater.	35° 09.6' N 132° 23.8' E	Fl.R. period 3s	46 14	7	Red concrete tower; 28.	
1884 M 7343.6	Takuno Ko, W. breakwater.	35° 10.0' N 132° 24.0' E	Fl.R. period 3s	46 14	3	Red tower; 31.	
1888 M 7342	O Misaki.	35° 11.3' N 132° 25.1' E	Fl.W. period 6s	226 69	20	White tower; 46.	
1892 M 7343	-Isotake Ko Kagami-ga Hana, breakwater.	35° 11.1' N 132° 25.0' E	F.Fl.R. period 4s	46 14	F. 2 Fl. 5	White round concrete tower; 30.	
1900 M 7341.4	Wae Ko, offing breakwater.	35° 12.9' N 132° 28.0' E	Iso.G. period 4s	49 15	5	White tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
1904 M 7341	Kute Ko, W. breakwater.	35° 13.9' N 132° 30.0' E	F.F.I.R. period 4s	39 12	F. 5 Fl. 8	Red round concrete tower; 31.	
1912 M 7341.2	-N. breakwater.	35° 13.7' N 132° 30.2' E	Fl.G. period 3s	43 13	5	White round concrete tower; 28.	
1916 M 7338	-Tategami Hana.	35° 14.8' N 132° 31.6' E	Fl.(4)W. period 15s	276 84	12	White round concrete tower; 33.	
1920 M 7339	Hane Higasi Ko, S. breakwater.	35° 14.7' N 132° 31.6' E	Iso.R. period 4s	36 11	5	Red tower; 30.	
1922 M 7337.6	Oda Ko.	35° 16.7' N 132° 36.1' E	Fl.R. period 3s	28 9	4	Red tower; 19.	
TAISHA KO:							
1924 M 7336	-W. jetty, head.	35° 24.1' N 132° 39.8' E	Iso.G. period 4s	27 8	4	White tower; 18.	
1928 M 7336.4	-E. breakwater, head.	35° 24.0' N 132° 39.9' E	Fl.R. period 4s	43 13	5	Red concrete column; 27.	
1932 M 7337	-Outer breakwater, S. head.	35° 24.0' N 132° 39.8' E	Fl.G. period 4s	43 13	7	White tower; 32.	
1936 M 7334	Hino Misaki.	35° 26.0' N 132° 37.7' E	Al.Fl.(2+1)W.R. period 20s	207 63	21	White round stone tower; 145.	Visible 024°-245°. F.W. close NE. illuminates Saka Guri to N.
1940 M 7335	Uryo Ko, breakwater.	35° 26.0' N 132° 38.4' E	Oc.G. period 4s lt. 3s, ec. 1s	39 12	4	White round concrete tower; 31.	F.W. illuminates danger 150 meters NE.
1944 M 7333.5	Sagiura.	35° 26.8' N 132° 40.7' E	Fl.W. period 4s	194 59	7	White round concrete tower; 43.	
1948 M 7333.7	-Breakwater.	35° 26.5' N 132° 41.2' E	F.Fl.G. period 3s	39 12	F. 2 Fl. 5	White tower; 28.	
1952 M 7333.2	-Breakwater, head.	35° 27.4' N 132° 44.9' E	Iso.G. period 6s	43 13	4	White tower; 31.	
1956 M 7333	Uppurui Ha.	35° 28.2' N 132° 43.8' E	Fl.(2)W. period 6s	213 65	7	White tower; 21.	
1958 M 7332	Siotu Ko.	35° 28.8' N 132° 46.7' E	Fl.(2)R. period 6s	46 14	5	Red tower; 33.	
1960 M 7331	Nagaoka Hana.	35° 30.2' N 132° 49.9' E	Fl.W. period 3s	249 76	12	White round concrete tower; 33.	
ETOMO KO:							
1964 M 7331.5	-Koizu Ko, N. breakwater.	35° 30.0' N 132° 50.0' E	Fl.R. period 3s	39 12	5	Red tower; 28.	
1968 M 7327.5	-Oki breakwater, head.	35° 31.5' N 132° 58.0' E	F.Fl.G. period 3s	56 17	F. 4 Fl. 7	White tower; 46.	
1971 M 7327	-Breakwater.	35° 31.5' N 132° 58.2' E	Fl.G. period 3s	43 13	3	White round concrete tower; 36.	
1972 M 7328	-S. breakwater.	35° 31.5' N 132° 58.3' E	F.F.I.R. period 6s	36 11	F. 2 Fl. 5	Red tower; 30.	
1976 M 7325	-Etomo.	35° 32.6' N 132° 58.1' E	Fl.(2)W. period 6s	190 58	12	White round concrete tower; 30.	
1980 M 7325.4	--E. breakwater, head.	35° 32.5' N 132° 58.1' E	Oc.G. period 5s lt. 4s, ec. 1s	39 12	5	White tower; 31.	F.W. illuminates reef 140 meters N.
1984 M 7326	-Kataku, E. breakwater.	35° 32.8' N 132° 59.1' E	F.Fl.G. period 3s	39 12	F. 5 Fl. 11	White round tower; 31.	F.W. illuminates head of W. breakwater.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
1988 M 7324.7	Mizu Ko.	35° 32.5' N 133° 01.6' E	Iso.G. period 6s	46 14	4	White round concrete tower; 31.	
1992 M 7324.6	Mizu Ko, W. offing, breakwater.	35° 32.4' N 133° 01.6' E	Iso.R. period 6s	42 13	9	Red round concrete tower; 31.	
1996 M 7324.5	Kaga Ko.	35° 34.1' N 133° 03.3' E	Fl.R. period 3s	43 13	3	Red tower; 31.	
2000 M 7324.4	Kukedo Hana.	35° 34.6' N 133° 02.9' E	Fl.W. period 3s	115 35	7	White round concrete tower; 33.	
2004 M 7324	Tako Hana.	35° 36.2' N 133° 05.4' E	Fl.W. period 10s	371 113	20	White tower; 23.	Visible 059°-285°.
2006 M 7318.8	Zizo Saki, breakwater.	35° 35.2' N 133° 07.0' E	Fl.R. period 4s	30 9	4	Red tower; 22.	
2008 M 7318.6	Noi Ko offing, breakwater.	35° 34.9' N 133° 07.4' E	Fl.(2)G. period 6s	39 12	5	White tower; 31.	
2010 M 7318	Kasaura Ko.	35° 34.4' N 133° 08.3' E	Fl.G. period 3s	23 7	5	White tower; 18.	
2012 M 7318.4	Tunowa Hana.	35° 34.8' N 133° 08.4' E	Oc.(2)W. period 6s	112 34	12	White round concrete tower; 33.	F.W. illuminates islet 250 meters ENE.
2016 M 7314	Shichirui Ko.	35° 34.9' N 133° 14.6' E	Fl.(3)W. period 13s	148 45	12	White round concrete tower, red bands; 36.	F.W. illuminates beacon on Fuma Shima 330 meters NE.
2020 M 7315	Tsuriboko Yama.	35° 34.4' N 133° 15.1' E	Fl.W. period 4s	400 122	7	White round concrete tower; 23.	
2024 M 7315.2	Schichirui Ko, detached breakwater.	35° 34.5' N 133° 14.1' E	Fl.G. period 5s	36 11	5	White round concrete tower, square base; 31.	
2028 M 7315.4	Sii Ya, breakwater, head.	35° 34.3' N 133° 13.9' E	Iso.R. period 4s	33 10	5	Red tower; 26.	
OKI RETTO:							
2032 M 7321.2	-Okii Okini Saki, on Saigo Misaki.	36° 21.3' N 133° 16.6' E	Fl.W. period 5s	269 82	5	White round concrete tower; 39.	
2036 M 7321.25	-Okii Syoto.	36° 20.4' N 133° 17.0' E	Fl.W. period 15s	846 258	23	White round concrete tower, square base; 52.	Visible 081°-293°.
-RAMARK							
2040 M 7321.16	-Nakamura Ko, breakwater, head.	36° 19.7' N 133° 18.9' E	Fl.(2)R. period 6s	49 15	7	Red concrete column; 36.	
2044 M 7321.14	-Sakiyama Misaki.	36° 17.8' N 133° 21.6' E	Iso.W. period 6s	308 94	12	White tower; 33.	F.W. illuminates rock 700 meters SE.
2046 M 7321.12	Huse Ko.	36° 17.5' N 133° 21.8' E	Fl.R. period 3s	33 10	5	Red tower; 21.	
2048 M 7321.1	-Kuroshima Saki.	36° 16.2' N 133° 23.1' E	Fl.(3)W. period 13s	98 30	13	White tower; 33.	F.W. illuminates Kabi Sima about 500 meters ENE.
2052 M 7320.8	-Ikeziri Saki.	36° 12.4' N 133° 22.1' E	Fl.W. period 3s	354 108	8	White concrete column; 36.	
2056 M 7320.2	-Saigo Ko, Hime Sima.	36° 11.8' N 133° 20.4' E	Mo.(A)R. period 8s	39 12	5	STARBOARD (B) R, tower, topmark; 36.	
2060 M 7320.4	-Saigo Wan, detached breakwater, E. head.	36° 12.0' N 133° 20.0' E	Fl.G. period 3s	31 9	5	White round concrete tower; 26.	
2064 M 7320	-Shiro Saki , Dogo, SE. point.	36° 10.3' N 133° 20.4' E	Fl.(2)W. period 30s	358 109	22	White square concrete tower; 36.	Visible 173°-082°.
2068 M 7319.8	-Imazu Ko, W. breakwater.	36° 10.4' N 133° 18.5' E	Oc.G. period 4s lt. 3s, ec. 1s	39 12	5	White concrete column; 31.	

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JAPAN-HONSHU-NORTHWEST COAST							
2069 M 7319.77	-Siziki Sima, W. breakwater.	36° 10.2' N 133° 17.0' E	Fl.(2)G. period 6s	26 8	3	White round concrete tower; 18.	
2070 M 7319.75	-Tudo Ko, breakwater.	36° 09.8' N 133° 14.7' E	Fl.G. period 3s	26 8	4	White tower; 19.	
2072 M 7319.7	-Oki Syaguri.	36° 09.6' N 133° 14.7' E	Fl.(2)W. period 5s	49 15	3	ISOLATED DANGER BRB, beacon, topmark; 43.	
2076 M 7319.5	-Shijiki Shima.	36° 09.4' N 133° 14.3' E	Fl.W. period 5s	92 28	7	White tower; 46.	
2080 M 7321.5	-Tsuma Ko, breakwater.	36° 11.0' N 133° 14.0' E	Fl.G. period 4s	30 9	3	White round concrete tower; 18.	
2082 M 7321.42	-Breakwater, head.	36° 12.6' N 133° 11.8' E	Fl.R. period 5s	26 8	3	Red tower; 18.	
2084 M 7321.4	-Nagu Saki.	36° 12.7' N 133° 11.1' E	Fl.W. period 5s	151 46	7	White round concrete tower; 39.	
2088 M 7321.3	-Mi Saki.	36° 17.3' N 133° 10.9' E	Fl.W. period 4s	197 60	12	White round concrete tower; 33.	
DOZEN:							
2092 M 7323	-Chiburi Jima.	35° 59.9' N 133° 03.7' E	Al.FI.W.R. period 20s	519 158	W. 20 R. 16	White tower; 39.	
2096 M 7323.2	-Tibu Ko.	36° 00.3' N 133° 02.8' E	Mo.(A)R. period 9s	33 10	5	STARBOARD (B) R, beacon, topmark; 30.	
2098 M 7323.21	--W. breakwater.	36° 00.3' N 133° 02.0' E	F.FI.G. period 4s	26 8	F. 2 Fl. 5	White tower; 18.	
2100 M 7323.24	-Kurii Ko, breakwater.	36° 01.6' N 133° 02.4' E	Fl.G. period 3s	46 14	5	White round concrete tower; 36.	
2104 M 7323.5	-Akanada Hana.	36° 02.4' N 132° 59.9' E	Fl.W. period 4s	72 22	7	White tower; 21.	
2108 M 7323.8	-Mitabe Ko, breakwater.	36° 03.8' N 132° 57.2' E	Fl.G. period 3s	39 12	3	White round concrete tower; 31.	
2112 M 7323.7	-Mitabe Misaki.	36° 04.0' N 132° 56.8' E	Fl.W. period 12s	410 125	23	White square concrete tower; 32. Visible 306°-184°.	
2116 M 7323.4	-Urago Ko, breakwater.	36° 06.6' N 133° 00.3' E	Fl.R. period 3s	39 12	7	Red round concrete tower; 33.	
2120 M 7323.36	-Urago Ko, Benten, breakwater.	36° 05.5' N 132° 59.8' E	F.FI.R. period 5s	32 10	F. 5 Fl. 8	Red round concrete tower; 28.	
2124 M 7323.44	-Urago Ko, breakwater.	36° 05.0' N 132° 58.7' E	Fl.G. period 4s	36 11	5	White concrete column; 28.	
2128 M 7323.6	-Mugiyama Hana.	36° 03.8' N 133° 01.4' E	Fl.R. period 3s	125 38	5	Red round concrete tower; 33.	
2132 M 7322.6	-Saki Ko, breakwater.	36° 03.0' N 133° 05.5' E	Fl.G. period 3s	36 11	3	White round concrete tower; 31.	
2136 M 7322	-Takada Hana.	36° 03.0' N 133° 06.2' E	Fl.W. period 3s	346 105	7	White round concrete tower; 24.	
2140 M 7322.8	-Kiroga Saki.	36° 02.1' N 133° 04.1' E	Fl.W. period 5s	134 41	7	White round concrete tower; 39.	
2144	-Matsuga Saki.	36° 06.1' N 133° 03.9' E	Fl.W. period 3s	43 13	5	White structure; 36.	
2148 M 7321.77	-Kamo Sima.	36° 07.1' N 133° 05.4' E	Fl.(2)W. period 5s	46 14	5	ISOLATED DANGER BRB, tower, topmark; 36.	
2152 M 7321.7	-Komori Sima.	36° 07.7' N 133° 07.3' E	Fl.(3)W. period 12s	203 62	7	White square concrete tower; 23.	

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JAPAN-HONSHU-NORTHWEST COAST							
2156 M 7321.94	-Titii Ko, breakwater.	36° 04.6' N 133° 06.9' E	Fl.G. period 4s	36 11	3	White round concrete tower, square base; 28.	
2160 M 7321.9	-Titii Misaki.	36° 04.5' N 133° 09.1' E	Fl.(3)W. period 15s	92 28	12	White round concrete tower, red bands; 33.	
2164 M 7321.74	-Lki Shoto.	36° 06.6' N 133° 08.0' E	Fl.W. period 5s	262 80	13	White concrete column; 31.	F.W. illuminates reef 200 meters NE.
2166 M 7321.8	-Oki Toyoda Ko, N. breakwater.	36° 06.5' N 133° 08.1' E	Fl.R. period 3s	52 16	3	Red concrete column; 31.	
2168 M 7315.6	Okino-gozen Shima.	35° 35.4' N 133° 21.1' E	Fl.W. period 3s	46 14	7	White tower; 31.	
MIHO WAN:							
2172 M 7316	-Jizo Zaki.	35° 34.0' N 133° 19.5' E	Fl.W. period 12s	271 83	23	White round stone tower; 46.	Visible 115°-052°.
2176 M 7317	-Mihonoseki Ko, E. breakwater.	35° 33.6' N 133° 18.6' E	Iso.R. period 6s	26 8	4	Red tower; 18.	
2180 M 7294	-Sakai Ko, S. breakwater, head.	35° 33.1' N 133° 16.4' E	Iso.W. period 6s	43 13	8	White round concrete tower; 46.	
2182 M 7294.5	Sakai Ko.	35° 32.9' N 133° 16.5' E	Fl.G. period 3s	52 16	7	White tower; 46.	
2184 M 7296	-255°30'.	35° 32.9' N 133° 14.4' E	Dir.W.R.G.	59 18	W. 14 R. 11 G. 12	White tower, three red bands; 66.	F.R. 254°-255°, F.W.-256°, F.G.-257°. Iso.Y. 2s above main light.
2188 M 7297	-Sakai Ko Nakano, No 1 breakwater, head.	35° 31.9' N 133° 14.9' E	Fl.R. period 5s	36 11	5	Red tower; 31.	
2190 M 7298	-Inner breakwater.	35° 30.7' N 133° 15.4' E	Fl.R. period 3s	25 8	3	Red tower; 16.	
NAKANO UMI:							
2192 M 7306	-Kame Sima.	35° 26.3' N 133° 15.6' E	Fl.W. period 4s	39 12	7	White round concrete tower; 27.	
2196 M 7307	-Yasugi Ko, S. breakwater.	35° 26.0' N 133° 16.0' E	F.Fl.R. period 5s	30 9	F. 2 Fl. 4	Red tower; 28.	
2200 M 7308	-Yonago Ko, breakwater, head.	35° 25.7' N 133° 19.2' E	Iso.G. period 4s	22 7	3	White round concrete tower; 16.	
2204 M 7305	-Sakitsu Ko, breakwater.	35° 28.2' N 133° 15.0' E	Fl.(2)G. period 6s	30 9	4	White round concrete tower; 28.	
2208 M 7300	Miho Wan AVIATION LIGHT.	35° 30.1' N 133° 14.2' E	Al.Fl.W.G. period 10s	118 36	W. 8 G. 6	Metal framework tower.	
2212 M 7304	-Suraga Hana.	35° 32.0' N 133° 12.0' E	Fl.R. period 3s	40 12	5	Red concrete column; 33.	
2216 M 7293.5	Yodoe Ko, N. breakwater.	35° 27.8' N 133° 25.4' E	Iso.G. period 4s	43 13	5	White tower; 28.	F.W. illuminates head of W. breakwater.
2220 M 7293	Mikuriya, W. breakwater.	35° 30.8' N 133° 29.6' E	Fl.(2)G. period 6s	29 9	4	White tower; 18.	
2224 M 7292	Misaki Ko, breakwater.	35° 31.8' N 133° 35.5' E	Iso.R. period 4s	49 15	5	Red tower; 33.	
2232 M 7290.2	-W. breakwater.	35° 30.8' N 133° 39.6' E	Iso.R. period 6s	49 15	5	Red tower; 33.	
2236 M 7289.2	Tomari Ko.	35° 31.1' N 133° 56.4' E	Fl.W. period 4s	115 35	12	White tower; 33.	F.W. illuminates reef 150 meters NW.
2240 M 7289.4	-W. breakwater.	35° 30.8' N 133° 56.4' E	Fl.R. period 4s	43 13	5	Red round concrete tower; 28.	

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JAPAN-HONSHU-NORTHWEST COAST							
2244 M 7289.3	-N. breakwater.	35° 30.9' N 133° 56.4' E	Fl.G. period 4s	39 12	3	White round concrete tower; 16.	
2248 M 7289.14	Nakose Ko, breakwater.	35° 31.0' N 133° 58.0' E	Fl.G. period 4s	36 11	4	White round concrete tower; 30.	
2252 M 7289.1	Natsudomari Ko, breakwater.	35° 31.8' N 134° 00.0' E	Fl.G. period 3s	52 16	5	White tower; 28.	
2256 M 7289	Nagao Hana.	35° 32.2' N 134° 00.5' E	Fl.W. period 8s	223 68	21	White round concrete tower; 46.	Visible 052°-305°.
2260 M 7288.9	Funaiso Ko, E. breakwater.	35° 31.4' N 134° 01.2' E	Fl.(2)G. period 6s	49 15	5	White tower; 31.	
2264 M 7288.6	Sakenotsu Ko.	35° 31.5' N 134° 05.3' E	Fl.W. period 3s	194 59	11	White round concrete tower; 24.	
2268 M 7288.8	-E. No 3 breakwater.	35° 31.5' N 134° 05.4' E	Oc.G. period 4s lt. 3s, ec. 1s	39 12	9	White tower; 31.	F.W. illuminates breakwater head 60 meters W.
2276 M 7287.5	-Toriga Shima.	35° 32.6' N 134° 11.1' E	Fl.W. period 5s	108 33	7	White tower; 39.	
2280 M 7287.7	-Outer breakwater.	35° 33.0' N 134° 11.5' E	Fl.R. period 4s	56 17	7	Red tower; 36.	
2286 M 7287.6	-Breakwater.	35° 32.8' N 134° 11.5' E	F.Fl.G. period 4s	42 13	F. 2 Fl. 5	White tower; 27.	
2288 M 7287	-NE. breakwater.	35° 32.8' N 134° 11.1' E	Fl.(2)R. period 6s	42 13	5	Red round concrete tower; 28.	
2292 M 7286.4	Iwato Ko.	35° 33.9' N 134° 16.4' E	Fl.(2)G. period 6s	46 14	5	White tower; 28.	
AZIRO KO:							
2296 M 7286	-Aziro Saki.	35° 35.3' N 134° 17.7' E	Fl.W. period 12s	344 105	20	White round concrete tower; 36.	
2298 M 7285.5	-W. breakwater.	35° 34.9' N 134° 17.3' E	Fl.(2)R. period 6s	33 10	3	Red tower; 19.	
2300 M 7284	-N. breakwater, head.	35° 34.8' N 134° 17.5' E	Fl.G. period 3s	49 15	4	White tower; 31.	
2304 M 7285	-S. breakwater, head.	35° 35.0' N 134° 17.5' E	Fl.R. period 3s	39 12	7	Red round concrete tower; 36.	
TAZIRI KO:							
2308 M 7283.9	-Taziri.	35° 35.8' N 134° 19.0' E	Iso.W. period 6s	108 33	8	White tower; 31.	
2312 M 7283.96	--Breakwater No 5.	35° 35.7' N 134° 19.1' E	Fl.G. period 3s	39 12	3	White tower; 31.	
2316 M 7283.94	-U Shima.	35° 35.8' N 134° 19.2' E	Fl.R. period 3s	46 14	3	Red tower; 30.	
2320 M 7283.85	Obaneo.	35° 36.5' N 134° 20.7' E	Iso.W. period 8s	246 75	8	White round concrete tower; 24.	
IKUMI KO:							
2324 M 7283.84	-Hudosan.	35° 36.9' N 134° 23.1' E	F.Fl.R. period 4s	36 11	F. 5 Fl. 9	White tower; 31.	F.W. auxiliary light.
2328 M 7283.8	-Beacon on rock.	35° 37.0' N 134° 23.1' E	Fl.W. period 5s	217 66	12	White round concrete tower; 36.	F.W. illuminates the beacons on Yoko Sima rocky reef and Koburi Sima.

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JAPAN-HONSHU-NORTHWEST COAST							
MOROYOSE KO:							
2332 M 7283.6	-Hiyori Yama.	35° 37.4' N 134° 25.7' E	Fl.W. period 5s	217 66	12	White round concrete tower; 36.	F.W. illuminates the beacon on drying rock about 250 meters NW.
2336 M 7283.7	-N. detached breakwater, S. head.	35° 37.6' N 134° 25.8' E	Iso.R. period 6s	52 16	5	Red round concrete tower; 33.	
2340 M 7283.57	Yazyoga Hana.	35° 38.1' N 134° 26.4' E	Iso.W. period 6s	243 74	8	White round concrete tower; 33.	F.W. illuminates Fuda Shima about 60 meters 000°.
2344 M 7283.59	Hamaska Ko, E. breakwater.	35° 37.8' N 134° 26.7' E	Oc.G. period 4s lt. 3s, ec. 1s	39 12	4	White tower; 28.	
HAMASK KO:							
2348 M 7283.58	-N. breakwater.	35° 37.8' N 134° 26.7' E	Fl.R. period 3s	52 16	3	Red tower; 31.	
2352 M 7283.52	Mio O Shima.	35° 39.7' N 134° 30.1' E	Fl.W. period 4s	233 71	7	White round concrete tower; 28.	
2356 M 7283.54	Mio Ko, breakwater.	35° 39.4' N 134° 30.0' E	F.Fl.G. period 5s	39 12	F. 2 Fl. 5	White tower; 23.	
2360 M 7283.5	Amarube Saki.	35° 40.0' N 134° 32.3' E	Fl.W. period 15s	932 284	23	White octagonal metal tower; 46.	Visible 070°-314°.
2364 M 7283.51	-N.	35° 40.2' N 134° 32.3' E	Fl.W. period 5s	118 36	7	White metal framework tower; 22.	
2368 M 7283.4	Yori Ko, No 1 breakwater.	35° 39.2' N 134° 34.5' E	Fl.R. period 4s	46 14	5	Red tower; 31.	
2372 M 7283.2	Shimoiama, breakwater.	35° 38.8' N 134° 36.9' E	Iso.R. period 4s	36 11	5	Red round concrete tower; 27.	
2376 M 7281	Kasumi Ko.	35° 38.9' N 134° 37.7' E	Iso.W. period 6s	289 88	8	White tower; 21.	
2380 M 7281.5	-Breakwater, head.	35° 39.3' N 134° 38.3' E	F.Fl.R. period 4s	56 17	F. 2 Fl. 5	Red tower; 31.	
2384 M 7283.3	-N. breakwater.	35° 39.0' N 134° 38.2' E	Iso.R. period 4s	39 12	9	Red round concrete tower; 31.	
SHIROYAMA:							
2392 M 7282	-S. breakwater.	35° 39.0' N 134° 38.0' E	Fl.R. period 3s	36 11	3	Red tower; 33.	
2396 M 7283	-N. breakwater.	35° 38.8' N 134° 37.6' E	Fl.G. period 3s	43 13	3	White tower; 31.	
2400 M 7280	Shibayama Ko.	35° 39.9' N 134° 39.8' E	Fl.W. period 3s	325 99	7	White round concrete tower, square base; 30.	
2401 M 7280.21	-Breakwater.	35° 40.1' N 134° 39.9' E	Fl.Y. period 4s	39 12	3		
2401.01 M 7280.2	-E. Breakwater.	35° 40.1' N 134° 40.0' E	Fl.R. period 4s	56 17	3	Red tower; 30.	
2401.1 M 7280.3	-Inner breakwater.	35° 39.7' N 134° 40.5' E	Fl.W. period 4s	62 19	3	White tower; 9.	
2402 M 7280.7	Sibayama Ko.	35° 39.3' N 134° 40.2' E	Fl.G. period 3s	46 14	5	White tower; 31.	
2408 M 7280.4	-W. breakwater, head.	35° 39.3' N 134° 39.9' E	Fl.R. period 5s	39 12	3	Red round concrete tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
2412 M 7278.6	Neko Saki.	35° 40.5' N 134° 45.9' E	Fl.(2)W. period 7s	141 43	7	White tower; 32.	
TAKENO BENTEN SHIMA:							
2416 M 7279	-N. Breakwater.	35° 39.8' N 134° 45.4' E	F.Fl.G. period 5s	36 11	F. 3 Fl. 7	White round concrete tower; 28.	
2420 M 7279.1	-Takeno Range, front.	35° 39.7' N 134° 45.4' E	F.G.	46 14	9	White round concrete tower, white triangular daymark point up; 18.	
2424 M 7279.2	--Rear, 18 meters 167° from front.	35° 39.5' N 134° 45.5' E	F.G.	56 17	9	White round concrete tower, white triangular daymark point up; 30.	
TSUIYAMA KO:							
2428 M 7276	-Sarugajo.	35° 39.3' N 134° 50.3' E	Fl.W. period 4s	151 46	13	White round concrete tower, square base; 31.	F.W. illuminates rock 180 meters NE.
2432 M 7277	-Training Wall.	35° 39.1' N 134° 50.3' E	Iso.R. period 6s	39 12	5	Red round concrete tower; 33.	
2436 M 7278	-New groin, about 604 meters 133° from Onaru Yama Summit.	35° 39.0' N 134° 50.4' E	Iso.G. period 6s	26 8	4	White tower; 21.	
2440 M 7275	-Sutego Hana.	35° 39.5' N 134° 51.2' E	Fl.W. period 3s	184 56	7	White round concrete tower, red bands; 33.	
2443 M 7274.7	Kumihama Ko, breakwater.	35° 39.0' N 134° 54.1' E	Fl.R. period 3s	36 11	4	Red round concrete tower; 28.	
2444 M 7274.5	-S. breakwater.	35° 39.0' N 134° 54.1' E	Fl.G. period 3s	43 13	5	White round concrete tower; 39.	
2448 M 7274.4	Hamazuma Ko.	35° 40.4' N 134° 57.7' E	Fl.(2)G. period 6s	43 13	4	White round concrete tower, square base; 31.	
2452 M 7274.2	Hamazuma Ko Shioe, breakwater.	35° 40.6' N 134° 58.3' E	Iso.R. period 4s	33 10	5	Red round concrete tower; 30.	
2456 M 7274	Asamokawa Ko, E. groin.	35° 41.7' N 135° 00.9' E	Fl.G. period 3s	43 13	5	White round concrete tower; 18.	
2460 M 7274.1	-E. inner breakwater.	35° 41.5' N 135° 01.0' E	Oc.G. period 4s lt. 3s, ec. 1s	39 12	9	White round concrete tower; 31.	
2464 M 7273	Mitsu Ko, breakwater.	35° 42.8' N 135° 03.9' E	F.Fl.R. period 3s	39 12	F. 2 Fl. 5	Red tower; 31.	
2468 M 7272	Taiza Ko, entrance.	35° 44.5' N 135° 05.5' E	F.Fl.(2)G. period 7s	56 17	F. 4 Fl. 7	White round concrete tower; 30.	F.W. illuminates reef 30 meters W. DGPS Station.
2472 M 7271.6	Tango Takeno Ko.	35° 44.7' N 135° 06.8' E	Fl.R. period 3s	33 10	5	Red tower; 28.	
2476 M 7271.4	Nakahama Ko, detached breakwater, No 2.	35° 45.7' N 135° 10.8' E	Fl.(2)R. period 6s	49 15	7	Red round concrete tower; 33.	
2480 M 7270	Kyoga Misaki.	35° 46.6' N 135° 13.4' E	Fl.(3)W. period 20s	486 148	29	White round stone tower; 39.	
2484 M 7269.7	Honjo Ko, N. breakwater.	35° 45.3' N 135° 15.3' E	F.Fl.(2)R. period 8s	43 13	F. 2 Fl. 5	White tower; 30.	
2486 M 7269.45	Nii Saki.	35° 41.5' N 135° 18.4' E	Fl.R. period 3s	30 9	3	Red tower; 16.	
2488 M 7269.4	Washi Zaki.	35° 39.8' N 135° 18.2' E	Fl.W. period 3s	256 78	7	White round concrete tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
2492 M 7269.5	Ine Ko.	35° 39.9' N 135° 16.9' E	Fl.W. period 4s	170 52	7	White round concrete tower; 33.	
2496 M 7269.6	-Kanjagahana.	35° 39.9' N 135° 17.2' E	Fl.R. period 3s	29 9	5	Red tower; 28.	
2497 M 7268.8	Yoro Ko.	35° 39.7' N 135° 16.0' E	Fl.G. period 3s	22 7	5	White tower; 16.	
MAIZURU WAN:							
2500 M 7267	-Miyazu Wan.	35° 35.9' N 135° 15.2' E	Fl.(2)W. period 6s	407 124	7	White tower; 43.	
2504 M 7258	-Bakuchi Misaki.	35° 32.9' N 135° 20.5' E	Fl.W. period 10s	423 129	19	White square concrete tower; 39.	Visible 018°-258°.
2512 M 7260	--Sanbonmatsu.	35° 30.3' N 135° 20.6' E	Fl.G. period 3s	43 13	5	White round concrete tower; 21.	
2516 M 7259	-Miyo Saki.	35° 30.1' N 135° 22.8' E	Fl.(3)W. period 13s	33 10	5	White round concrete tower; 30.	
2518 M 7262	-Kuro Hana. Maizuru Crane Bridge.	35° 30.6' N 135° 23.3' E	2 Iso.W. period 6s	82 25	5	Bridge.	2 Iso.W. marks center. Vertical clearance 24 meters. Bridge marked by 4 Fl.Y.
2520 M 7261	-To Shima.	35° 29.6' N 135° 20.3' E	Fl.W. period 4s	36 11	5	White round concrete tower; 33.	
2528 M 7256.6	Tai Ko, No 2 breakwater.	35° 34.2' N 135° 27.2' E	F.Fl.G. period 5s	43 13	F. 2 Fl. 5	White tower; 31.	
2532 M 7257.2	-No 1 breakwater.	35° 34.7' N 135° 27.0' E	Fl.R. period 3s	36 11	5	Red tower; 31.	
2536 M 7257	Naryu Zaki, on point.	35° 36.1' N 135° 27.7' E	Fl.W. period 5s	308 94	7	White square concrete tower; 26.	
2538 M 7255.4	Uchiura Ko, breakwater, head.	35° 32.3' N 135° 29.7' E	Fl.G. period 3s	36 11	5	White tower; 27.	
2540 M 7255	Oshimawashi Saki.	35° 33.1' N 135° 30.1' E	Fl.(2)W. period 10s	525 160	7	White round concrete tower; 33.	
2544 M 7254.4	Wakasa Takahama Ko, detached breakwater.	35° 29.8' N 135° 33.0' E	Oc.G. period 5s lt. 4s, ec. 1s	49 15	5	White tower; 30.	
2548 M 7254	Shiroyama.	35° 29.8' N 135° 33.2' E	Fl.W. period 3s	89 27	7	White round concrete tower; 26.	
2552 M 7254.6	Wada Ko, N. breakwater.	35° 29.8' N 135° 34.3' E	Fl.(2)G. period 6s	39 12	3	White tower; 27.	
2554 M 7254.7	-Breakwater.	35° 30.0' N 135° 34.9' E	Fl.(2)R. period 6s	36 11	4	Red tower; 19.	
2556 M 7252	Nokogiri Saki.	35° 32.8' N 135° 39.7' E	Iso.W. period 6s	85 26	12	White round concrete tower; 39.	Visible 092°42'-340°.
2560 M 7252.4	Akaguri Saki.	35° 31.4' N 135° 40.3' E	Fl.R. period 4s	75 23	5	White round concrete tower, red bands; 33.	
2564 M 7252.8	Obama Ko, W. breakwater.	35° 30.0' N 135° 43.9' E	Fl.(3)G. period 12s	32 10	7	White round concrete tower; 28.	
2568 M 7252.7	-Breakwater, head.	35° 30.3' N 135° 44.2' E	Fl.G. period 3s	36 11	5	White round concrete tower; 33.	
2572 M 7251.6	Tagarasu Ko, Myojin Hana.	35° 32.5' N 135° 49.6' E	Fl.(2)W. period 6s	79 24	7	White round concrete tower; 26.	
2576 M 7251.4	Kuro Guri.	35° 36.1' N 135° 50.0' E	Iso.W. period 6s	42 13	5	White tower; 29.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
2580 M 7251	Tunekami Saki.	35° 38.2' N 135° 49.0' E	Fl.W. period 3s	800 244	12	White tower; 24.	
2584 M 7250.5	Hiruga Ko, breakwater.	35° 36.8' N 135° 53.5' E	F.Fl.(2)R. period 6s	36 11	F. 2 Fl. 5	Red round concrete tower; 26.	
2585 M 7250.6	Hiruga Ko.	35° 36.8' N 135° 53.6' E	F.Fl.G. period 3s	31 9	F. 2 Fl. 5	White tower; 18.	
2588 M 7250	Hayase Ko, breakwater, head.	35° 37.0' N 135° 54.6' E	Fl.R. period 3s	31 10	3	Red round concrete tower; 19.	
2592 M 7249.6	Sugahama Ko, breakwater.	35° 39.2' N 135° 58.2' E	Fl.G. period 3s	42 13	5	White tower; 31.	
2596 M 7249	Funatosi Saki.	35° 42.2' N 135° 57.4' E	Iso.W. period 6s	198 60	14	White tower; 33.	F.W. illuminates Otogami Guri 350 meters W.
2600 M 7246	Tateishi Saki.	35° 45.7' N 136° 01.1' E	Fl.W. period 10s	400 122	20	White round stone tower; 26.	Visible 060°-319°.
2604 M 7247	Tsuruga Ko, breakwater, head.	35° 39.9' N 136° 03.5' E	F.Fl.G. period 3s	46 14	F. 4 Fl. 7	White tower; 46.	
2616 M 7248.2	-E. breakwater.	35° 39.6' N 136° 03.6' E	Fl.R. period 3s	23 7	5	Red round concrete structure; 19.	
2620 M 7245.5	Kono Ko, No 2 breakwater.	35° 49.5' N 136° 04.2' E	Oc.G. period 4s lt. 3s, ec. 1s	39 12	5	White round concrete structure; 30.	
2624 M 7245	Kaburagi Ko, No 1 breakwater.	35° 50.3' N 136° 02.9' E	F.Fl.(2)G. period 10s	43 13	F. 2 Fl. 5	White tower; 33.	
2628 M 7244	Nuka Ko Oki, breakwater.	35° 50.9' N 136° 02.3' E	Fl.G. period 4s	42 13	3	White round concrete tower; 33.	
2632 M 7243.8	Kare Zaki, about 10.9 kilometers 162°30' from Echizen Misaki light.	35° 53.3' N 135° 59.8' E	Fl.(2)W. period 9s	154 47	12	White square concrete tower; 31.	
2636 M 7243.75	Takasa, No 2 breakwater.	35° 53.5' N 136° 59.8' E	F.W.	65 20		White tower; 21.	Illuminates breakwater 170 meters NNW.
2640 M 7243.7	Echizen Sirahama Ko, No 1 breakwater.	35° 54.0' N 135° 59.8' E	Fl.(2)G. period 6s	39 12	5	White round concrete tower; 31.	
2666 M 7243.5	Etizen Gyoko, breakwater.	35° 56.1' N 135° 59.5' E	Iso.G. period 4s	52 16	5	White tower; 33.	
2668 M 7243	Kuro Jogatani, breakwater.	35° 56.7' N 135° 59.2' E	F.Fl.G. period 4s	46 14	F. 2 Fl. 5	White tower; 27.	
2672 M 7242.6	Sikaura Ko Singo, No 2 breakwater.	35° 56.9' N 135° 59.1' E	Fl.(2)G. period 7s	56 17	3	White tower; 33.	
2676 M 7242	Echizen Misaki.	35° 58.8' N 135° 57.7' E	Fl.W. period 15s	436 133	21	White tower; 52.	
2680 M 7241.5	Gumisaka Ko, breakwater.	36° 02.6' N 136° 00.5' E	Fl.G. period 3s	49 15	5	White tower; 31.	
2684 M 7241	Shirahama Ko, outer breakwater, head.	36° 05.0' N 136° 01.6' E	Oc.G. period 8s lt. 6s, ec. 2s	36 11	9	White tower; 29.	F.W. illuminates rocks 120 meters NW.
2688 M 7240.7	Nagahasi Ko Nisi, W. breakwater, head.	36° 06.8' N 136° 02.9' E	Fl.(2)R. period 6s	46 14	5	Red tower; 28.	
2692 M 7240.5	Takanosu Ko.	36° 07.9' N 136° 03.6' E	F.Fl.W. period 5s	43 13	F. 6 Fl. 10	White round concrete tower; 30.	F.W. illuminates reef 120 meters W.
2696 M 7240.3	Hukui Ko, N. breakwater.	36° 12.0' N 136° 07.1' E	Oc.G. period 8s lt. 6s, ec. 2s	52 16	5	White round concrete tower; 46.	
2700 M 7240.4	-S. breakwater.	36° 12.3' N 136° 06.7' E	Fl.R. period 3s	56 17	4	Red round concrete tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
2704 M 7240	Mikuni Ko, breakwater, S. head.	36° 13.1' N 136° 07.7' E	F.F.I.G. period 4s	39 12	F. 4 Fl. 7	White round concrete tower; 33.	
2708 M 7240.2	-SW. obstruction light, breakwater.	36° 13.2' N 136° 07.9' E	F.W.	36 11		White round concrete tower; 33.	Spotlight illuminates head of breakwater.
2712 M 7239.7	-O Shima.	36° 15.1' N 136° 07.1' E	Fl.(2)W. period 9s	128 39	12	White round concrete tower; 33.	
2716 M 7239.5	Sioya Ko.	36° 17.9' N 136° 14.5' E	Fl.(2)G. period 5s	39 12	7	White tower; 28.	
2720 M 7237	Hasitate Ko.	36° 21.0' N 136° 18.0' E	Fl.(3)W. period 13s	177 54	12	White tower; 49.	Visible 035°-283°.
2724 M 7238	-Breakwater, head.	36° 21.2' N 136° 18.9' E	Fl.R. period 4s	30 9	3	Red tower; 25.	
2728 M 7237.4	-NE. breakwater, head.	36° 21.4' N 136° 18.9' E	Fl.G. period 3s	46 14	3	White round concrete tower; 33.	
2732 M 7237.2	--Outer breakwater.	36° 21.6' N 136° 18.9' E	Fl.(2)G. period 6s	49 15	7	White round tower; 30.	Fl.R. 3s 13m 3M 250 meters S. on breakwater.
2736 M 7236.4	Ataka.	36° 25.2' N 136° 25.0' E	Fl.(2)W. period 6s	72 22	12	White round concrete tower; 52.	
2740 M 7236	Mikawa.	36° 29.6' N 136° 29.1' E	Fl.W. period 4s	82 25	12	White tower; 49.	
2744 M 7234	Kanazawa Ko, jetty, head.	36° 36.4' N 136° 34.9' E	Fl.R. period 4s	43 13	5	Red tower; 31.	
2748 M 7234.4	-E. breakwater, head.	36° 36.3' N 136° 35.1' E	Fl.G. period 4s	42 13	3	White concrete column; 30.	
2752 M 7232	Ono Ko.	36° 37.0' N 136° 36.2' E	Fl.W. period 10s	112 34	16	White square concrete tower; 85.	Visible 036°-216°.
2756 M 7233.2	-Breakwater.	36° 37.2' N 136° 36.1' E	Fl.R. period 3s	36 11	3	Red tower; 31.	
2760 M 7233	-W. breakwater, head.	36° 38.6' N 136° 36.0' E	Fl.(2)R. period 6s	46 14	7	Red tower; 36.	
2764 M 7232.4	-E. breakwater.	36° 38.6' N 136° 36.4' E	Fl.(2)G. period 6s	36 11	3	White tower; 27.	
2768 M 7230	Shiroo.	36° 43.3' N 136° 41.1' E	Fl.(2)W. period 7s	82 25	12	White round concrete tower, square base; 33.	Visible 020°-212°.
2772 M 7225	Taki Ko, breakwater.	36° 55.2' N 136° 45.3' E	Iso.G. period 6s	39 12	5	White round concrete tower; 27.	
2776 M 7226	--E. breakwater.	36° 55.3' N 136° 45.3' E	Fl.(2)R. period 6s	26 8	3	Red round metal tower, concrete base; 18.	
2780 M 7224	Taki Saki.	36° 55.7' N 136° 45.0' E	Fl.W. period 5s	59 18	12	White tower; 36.	
2788 M 7221.6	Abuya Ko, breakwater.	37° 00.8' N 136° 44.5' E	F.F.I.G. period 5s	36 11	F. 2 Fl. 5	White tower; 27.	
2790 M 7221.3	Hokoriku Denryoku.	37° 03.7' N 136° 43.1' E	Fl.R. period 4s	36 11	3	Red tower; 18.	
2791 M 7221.4	-S. breakwater.	37° 03.5' N 136° 43.1' E	Fl.G. period 4s	36 11	3	White tower; 18.	
2792 M 7220	Fukura Ko.	37° 04.6' N 136° 43.2' E	Fl.W. period 12s	92 28	15	White tower; 49.	Visible 350°-210°.
2804 M 7221	-Mo Saki Range, front.	37° 05.1' N 136° 43.5' E	F.R. (neon)	45 14	7	Round concrete tower, white triangular daymark point up; 43.	
2808 M 7221.1	--Rear, 90 meters 090°06' from front.	37° 04.9' N 136° 43.7' E	F.R. (neon)	79 24	7	Round concrete tower, white triangular daymark point down; 29.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
2812 M 7214	Kazanasi, breakwater, head.	37° 08.2' N 136° 41.3' E	Iso.G. period 6s	46 14	4	White round concrete tower; 31.	
2816 M 7216	Togi Ko, breakwater, head.	37° 08.6' N 136° 42.1' E	Fl.(2)G. period 6s	39 12	5	White tower; 29.	
2820 M 7213	Ama Saki.	37° 08.8' N 136° 40.3' E	Iso.W. period 6s	91 28	12	White tower; 49.	
2824 M 7212.4	Noto-Akasaki Ko, breakwater, head.	37° 10.0' N 136° 40.5' E	Fl.G. period 3s	33 10	3	White tower; 19.	
2828 M 7212	Saruyama Zaki.	37° 19.4' N 136° 43.5' E	Fl.W. period 8s	719 219	20	White square concrete tower; 56.	Visible 014°-213°.
2830 M 7210	Minatuki Ko.	37° 21.2' N 136° 45.3' E	Fl.G. period 4s	25 8	5	White tower; 18.	
2832 M 7209	Wazima Ko.	37° 22.6' N 136° 48.1' E	Fl.R. period 3s	42 13	5	Red tower; 31.	
2836 M 7204	Tatsuga Saki.	37° 24.3' N 136° 53.9' E	Fl.W. period 15s	217 66	21	White round concrete tower; 36.	Visible 092°-292°. F.W. auxiliary light illuminates shoal about 750 meters NNE.
WAJIMA KO:							
2840 M 7206	-No 1 breakwater, head.	37° 24.1' N 136° 54.3' E	Fl.R. period 3s	39 12	5	Red tower; 31.	
2844 M 7207	-No 2 breakwater, head.	37° 24.6' N 136° 54.9' E	Fl.(2)R. period 6s	49 15	5	Red tower; 31.	
2852 M 7202	Nanatsu Shima.	37° 36.6' N 136° 54.1' E	Fl.W. period 5s	215 66	7	White tower; 25.	
2856 M 7200	Hekura Jima.	37° 51.1' N 136° 55.1' E	Fl.W. period 10s	140 43	18	White round concrete tower; 112.	
2860 M 7201	-Ko, breakwater No 1.	37° 50.8' N 136° 55.4' E	Fl.G. period 3s	39 12	3	White round concrete tower; 31.	
2864 M 7201.4	--No 2, head.	37° 50.9' N 136° 55.3' E	Fl.R. period 3s	39 12	4	Red round concrete tower; 27.	
2868 M 7201.6	-Outer breakwater.	37° 50.8' N 136° 55.4' E	Fl.G. period 5s	43 13	4	White tower; 31.	
2872 M 7198	Noto Kura Saki.	37° 29.9' N 137° 08.7' E	Fl.(2)W. period 7s	230 70	7	White tower; 28.	
2876 M 7195.9	Takaya, breakwater, head.	37° 31.4' N 137° 14.3' E	Fl.R. period 3s	56 17	7	Red concrete column; 31.	
2880 M 7195.95	-W. breakwater, head.	37° 31.3' N 137° 14.4' E	Fl.G. period 3s	43 13	3	White tower; 31.	
2884 M 7199	Yome Guri.	37° 40.3' N 137° 12.5' E	Fl.(2)W. period 8s	43 13	5	White tower; 27.	
2888 M 7196	Rokugo Saki.	37° 31.7' N 137° 19.6' E	Iso.W. period 6s	157 48	18	White round stone tower; 39.	Visible 095°-312°. Storm signals.
2892 M 7195.8	Norosi Ko, breakwater, head.	37° 31.3' N 137° 20.0' E	Iso.R. period 6s	43 13	4	Red tower; 31.	
2896 M 7195	Himeshima Guri.	37° 30.2' N 137° 21.6' E	Fl.W. period 4s	43 13	5	White tower; 43.	
2900 M 7195.4	Ai Saki.	37° 30.2' N 137° 21.1' E	F.W.	102 31		White square concrete tower; 28.	Illuminates Gyozya Guri about 560 meters E.
2902 M 7194.5	Suzu Misaki.	37° 30.0' N 137° 21.1' E	Fl.R. period 3s	36 11	3	Red tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
2904 M 7194	Nagate Saki.	37° 27.0' N 137° 21.6' E	Fl.W. period 3s	52 16	7	White tower; 56.	
2912 M 7192.4	-W. of No 2 breakwater, head.	37° 26.2' N 137° 18.2' E	Fl.(2)R. period 6s	39 12	5	Red tower; 28.	
2914 M 7192.6	-Takajima Gyoko, breakwater.	37° 26.1' N 137° 18.4' E	Fl.(2)G. period 6s	28 9	3	White tower; 18.	
2916 M 7190.8	Ukai Ko, breakwater.	37° 24.0' N 137° 14.8' E	Iso.R. period 4s	39 12	5	Red tower; 29.	
2920 M 7190	Matsunami Ko, breakwater.	37° 21.0' N 137° 15.0' E	Fl.G. period 3s	39 12	3	White tower; 31.	
2924 M 7189.6	Noto Aka Saki.	37° 21.4' N 137° 16.0' E	Fl.W. period 3s	39 12	7	White round concrete tower; 31.	
2928 M 7189.4	Noto Jo-ga-Saki.	37° 20.4' N 137° 15.9' E	Fl.W. period 4s	69 21	12	White round concrete tower; 31.	
NOTO OGI KO:							
2932 M 7189	-Tsukumo Wan, S. breakwater.	37° 17.8' N 137° 13.9' E	Fl.(2)R. period 5s	39 12	5	Red round concrete tower; 31.	
2936 M 7188.2	-Tsukumo Wan.	37° 18.1' N 137° 14.2' E	Fl.G. period 4s	30 9	3	PORT (B) G, tower, topmark.	
2940 M 7188.1	-Motoogi, breakwater.	37° 17.8' N 137° 13.7' E	Fl.R. period 3s	33 10	3	Red round concrete tower, square base; 27.	
2944 M 7188	-Inuyama.	37° 17.8' N 137° 13.9' E	Fl.W. period 10s	105 32	16	White round concrete tower; 46.	Visible 232°-050°.
2948 M 7188.4	-Obase, breakwater.	37° 17.9' N 137° 14.1' E	Fl.(2)G. period 5s	39 12	3	White round concrete tower; 30.	
2956 M 7186.6	Ikari Shima.	37° 17.6' N 137° 12.9' E	Fl.G. period 3s	36 11	3	White round concrete tower; 31.	
2960 M 7185	Usetsu Ko.	37° 18.0' N 137° 09.1' E	Fl.(3)W. period 13s	125 38	12	White tower; 33.	
2964 M 7186	Usetsu Ko, S. No 1 breakwater.	37° 17.7' N 137° 09.3' E	Fl.(2)G. period 6s	30 9	5	White round concrete tower, square base; 18.	
2968 M 7186.2	Usetsu Ko, E. No 2 breakwater.	37° 17.7' N 137° 09.6' E	Iso.R. period 6s	40 12	4	Red tower; 30.	
2972 M 7184	Ukawa Ko, training wall, head.	37° 15.1' N 137° 05.3' E	Fl.W. period 3s	39 12	5	White round concrete tower; 33.	
2976 M 7183	Anamizu.	37° 13.0' N 136° 55.0' E	Fl.W. period 3s	161 49	7	White square concrete tower; 36.	Visible 275°-131°.
2980 M 7182.6	Bagura, E. breakwater, head.	37° 10.1' N 137° 02.0' E	Fl.G. period 4s	33 10	3	Red tower; 31.	
2982 M 7183.5	Noto Nakano Sima.	37° 09.3' N 136° 54.9' E	Fl.W. period 4s	24 7	5	White tower; 18.	
2984 M 7173	Enome Ko, No 1 breakwater, head.	37° 09.2' N 137° 03.1' E	Fl.(2)R. period 5s	39 12	5	Red round concrete tower; 31.	
2988 M 7172.4	Kato Saki.	37° 09.0' N 137° 03.2' E	F.W.	36 11		White tower; 29.	
NANAO WAN:							
2992 M 7172	-Kannon Saki.	37° 06.4' N 137° 03.5' E	Fl.W. period 8s	105 32	16	White concrete tower; 39.	Visible 155°-005°.
2994 M 7171.8	Unoura Ko.	37° 06.0' N 137° 03.3' E	Fl.R. period 3s	26 8	3	Red tower; 18.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
2996 M 7174	-Noto Jima, on Kojin Hana.	37° 07.0' N 137° 02.0' E	Fl.W. period 3s	59 18	7	White tower; 46.	
3000 M 7174.5	-Noto Shima.	37° 06.7' N 137° 01.3' E	Dir.W.R.G.	43 13	W. 12 R. 11 G. 12	White tower.	F.R. 256°24'-258°12', F.W.- 259°30' F.G.-261°12'.
3004 M 7177	-Me Shima, about 3.5 kilometers 039° from Naneo.	37° 04.4' N 136° 59.6' E	Fl.(2)R. period 6s	43 13	5	Red tower; 33.	
3008 M 7180	Nanao Ko Huchu, E. breakwater.	37° 02.9' N 136° 58.3' E	Fl.R. period 3s	26 8	4	Red round metal structure; 24.	
3014 M 7182.2	-N. breakwater, head.	37° 04.6' N 136° 56.4' E	Fl.(2)G. period 6s	20 6	5	White tower; 16.	
3016 M 7171.4	Enotomari Ko, breakwater.	37° 04.1' N 137° 03.2' E	Fl.R. period 3s	39 12	3	Red round concrete tower; 31.	
3020 M 7171	Iori Ko, E. breakwater.	37° 02.3' N 137° 02.8' E	Fl.(2)R. period 5s	33 10	5	Red round concrete tower; 27.	
3024 M 7170.5	Simosazanami Ko.	37° 00.7' N 137° 03.0' E	Fl.R. period 4s	40 12	5	Red tower; 31.	
3028 M 7170	Mera Ko, E. breakwater.	36° 57.0' N 137° 02.5' E	Fl.R. period 4s	39 12	3	Red round concrete tower; 31.	
3030 M 7169.5	Osakai Ko, breakwater.	36° 55.2' N 137° 01.8' E	Fl.(2)R. period 8s	26 8	4	Red concrete structure; 19.	
3032 M 7169	Unami Ko, E. breakwater.	36° 54.7' N 137° 01.4' E	Iso.R. period 6s	28 8	5	Red tower; 18.	
TOYAMA WAN:							
3036 M 7168	-Ettyu Tomari Ko, breakwater.	36° 53.7' N 137° 00.6' E	Fl.(2)R. period 5s	23 7	3	Red tower; 18.	
3040 M 7167.4	-Yabuta Ko, breakwater.	36° 53.3' N 137° 00.1' E	Fl.R. period 3s	36 11	3	Red round concrete tower; 31.	
-Himi Ko:							
3044 M 7166	--N. breakwater, E. head.	36° 51.8' N 136° 59.6' E	Fl.R. period 5s	39 12	4	Red round concrete tower; 28.	
3046 M 7166.75	--Etchu Ao Ko, breakwater.	36° 53.0' N 136° 59.8' E	Iso.R. period 4s	25 8	5	Red tower; 18.	
3048 M 7166.5	--E. breakwater, N. head.	36° 51.7' N 136° 59.6' E	Fl.G. period 5s	42 13	4	White round concrete tower; 31.	
3052 M 7164.5	--Kara Shima, on summit.	36° 51.9' N 136° 59.7' E	Fl.W. period 3s	66 20	7	White tower; 39.	
3056 M 7160	-Iwasakino Hano.	36° 48.5' N 137° 03.0' E	Fl.W. period 15s	190 58	20	White round concrete tower; 46.	Visible 132°-318°.
3060 M 7160.4	-Kokubu, E. breakwater, head.	36° 48.4' N 137° 03.5' E	Fl.G. period 3s	26 8	5	White round concrete tower; 18.	
3064 M 7160.6	--Breakwater, head.	36° 48.3' N 137° 03.4' E	Fl.R. period 3s	40 12	3	Red concrete column; 30.	
3064.1 M 7162.4	-Kokubu Passage.	36° 49.3' N 137° 04.5' E	Fl.(5)Y. period 20s	46 14	4	SPECIAL Y, beacon, "X" topmark; 46.	
3065 M 7162.3	-Fushiki-Tyuo.	36° 48.1' N 137° 04.2' E	Fl.(2)G. period 5s	39 12	4	White tower; 25.	
3066 M 7162.2	-N. breakwater, SE. head.	36° 48.1' N 137° 04.5' E	Fl.(2)R. period 5s	43 13	7	Red tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
FUSHIKI KO:							
3068 <i>M 7160.92</i>	--E. breakwater.	36° 47.6' N 137° 04.1' E	Fl.G. period 4s	39 12	3	White tower; 30.	
3072 <i>M 7160.9</i>	--W. breakwater.	36° 47.7' N 137° 04.1' E	Fl.R. period 4s	43 13	5	Red tower; 31.	F.R. on chimney 1 mile SW.
3076 <i>M 7161.3</i>	--227°54'.	36° 47.5' N 137° 04.4' E	Dir.W.R.G.	66 20	W. 12 R. 10 G. 10	White round concrete tower; 59.	F.R. 225°24'-226°24', F.W.- 229°24', F.G.-230°24'. Oc.Y. 4s above main light. Emergency light W. 2M, R. 1M, G. 1M.
3080 <i>M 7156</i>	--W. breakwater, head.	36° 47.2' N 137° 05.0' E	Fl.(2)R. period 7s	33 10	5	Red tower; 28.	
3084 <i>M 7152</i>	--Detached E. breakwater, head.	36° 47.2' N 137° 05.0' E	Fl.(2)G. period 7s	46 14	3	White tower; 33.	
3088 <i>M 7154</i>	--E. breakwater, S. head.	36° 47.1' N 137° 05.0' E	Fl.R. period 3s	30 9	3	Red tower; 19.	
3090 <i>M 7151.8</i>	Sinmanato Gyoko.	36° 47.1' N 137° 05.4' E	Fl.G. period 3s	46 14	5	White tower; 30.	
SINMINTO:							
3092 <i>M 7151.4</i>	-Toyama Sinko, W. breakwater.	36° 46.9' N 137° 06.9' E	Fl.(2)R. period 6s	52 16	5	Red tower; 49.	
3096 <i>M 7151</i>	--E. breakwater.	36° 47.0' N 137° 07.1' E	Fl.(2)G. period 6s	52 16	7	White tower; 49.	
3098 <i>M 7150.6</i>	-Yokata Ko.	36° 45.7' N 137° 11.6' E	Fl.R. period 3s	36 11	3	Red tower; 28.	
3100 <i>M 7150.5</i>	-- <i>Nihonkai Oil sea berth, buoy.</i>	36° 47.0' N 137° 12.6' E	Mo.(U)W. period 8s	26 8	6		Horn: 1 bl. ev. 30s (bl. 3s, si. 27s).
3104 <i>M 7151.6</i>	-Toyama Sinka, E. inner breakwater.	36° 46.6' N 137° 07.1' E	Iso.G. period 4s	40 12	4	White round concrete tower; 33.	
3108 <i>M 7148</i>	-Toyama Ko, E. breakwater, head.	36° 45.9' N 137° 13.7' E	Fl.(2)G. period 5s	49 15	5	White round concrete tower; 49.	
TOYAMA WAN:							
3112 <i>M 7149</i>	-Toyama Ko, W. breakwater.	36° 45.9' N 137° 13.5' E	Fl.(2)R. period 5s	36 11	7	Red round concrete tower; 32.	
3116 <i>M 7147</i>	-Mizuhashi Ko, W. training wall.	36° 45.5' N 137° 18.0' E	Fl.G. period 3s	39 12	5	White round concrete tower; 31.	
3120 <i>M 7145</i>	-Namericawa Ko, breakwater.	36° 46.6' N 137° 20.6' E	Fl.(2)G. period 6s	43 13	5	White tower; 31.	
-Uozu (Uwotsu) Ko:							
3124 <i>M 7144.4</i>	--N. auxiliary breakwater, head.	36° 48.5' N 137° 23.4' E	Fl.(2)G. period 5s	39 12	5	White column; 30.	
3128 <i>M 7144.5</i>	--S. auxiliary breakwater, head.	36° 48.5' N 137° 23.5' E	Fl.(2)R. period 5s	39 12	3	Red tower; 31.	
3132 <i>M 7142</i>	--N. breakwater, head.	36° 49.2' N 137° 23.5' E	Fl.G. period 4s	43 13	7	White tower; 31.	
3136 <i>M 7144</i>	--S. breakwater, head.	36° 49.2' N 137° 23.5' E	Fl.R. period 3s	30 9	4	Red octagonal concrete tower; 22.	
3140 <i>M 7137.6</i>	-Kyoden Ko, N. breakwater, head.	36° 51.1' N 137° 24.6' E	Fl.(2)G. period 7s	43 13	5	White tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
3144 M 7137.2	-Kurube Ko, N. breakwater.	36° 53.4' N 137° 24.9' E	F.F.I.G. period 5s	43 13	F. 2 Fl. 5	White tower; 30.	
3148 M 7137	-kuji Hana.	36° 53.9' N 137° 24.7' E	Fl.W. period 10s	108 33	16	White round concrete tower, black bands; 98.	Visible 334°-203°.
3152 M 7136.9	Nyuzen Ko.	36° 55.5' N 137° 25.6' E	Fl.G. period 3s	56 17	5	White round concrete tower; 31.	
3156 M 7136.7	Miyazaki Hana.	36° 58.2' N 137° 35.2' E	Fl.(2)W. period 11s	358 109	12	White round concrete tower; 49.	F.W. Illuminates rocks 1.1km NNE.
3160 M 7136.8	Miyazaki Ko, E. breakwater.	36° 58.4' N 137° 35.1' E	Iso.G. period 4s	43 13	5	White tower; 30.	
3164 M 7136.6	Himekawa Ko, E. breakwater, head.	37° 03.1' N 137° 51.0' E	Fl.R. period 3s	56 17	4	Red tower; 43.	
3168 M 7135	-No 2 breakwater, head.	37° 06.7' N 137° 59.9' E	Fl.(2)R. period 7s	49 15	3	Red tower; 18.	
3170 M 7136.5	Uramoto Ko.	37° 04.4' N 137° 55.8' E	Fl.G. period 3s	43 13	5	White round concrete tower; 30.	
3172 M 7134	No Ko.	37° 06.5' N 137° 59.6' E	Fl.W. period 4s	95 29	7	White round concrete tower; 27.	
3180 M 7132.8	Tsutsuishi Ko, U Shima.	37° 08.0' N 138° 03.2' E	Fl.R. period 3s	46 14	3	Red round concrete tower; 18.	
3184 M 7133	Tsutsuisi Ko, Senzoku Sima.	37° 08.2' N 138° 03.0' E	F.F.I.G. period 5s	52 16	F. 2 Fl. 5	White round concrete tower; 27.	
3188 M 7132.5	Nadachi Ko.	37° 10.2' N 138° 05.2' E	Iso.R. period 6s	43 13	3	Red tower; 27.	
3192 M 7132	Torigakubi Misaki.	37° 10.2' N 138° 05.8' E	Fl.W. period 5s	269 82	23	White concrete tower; 39.	Visible 025°-273°.
3196 M 7128	-Seki Kawa, E. training wall.	37° 11.3' N 138° 14.6' E	Fl.R. period 3s	46 14	4	Red round concrete tower; 31.	
3200 M 7125	-W. breakwater.	37° 13.7' N 138° 16.5' E	Fl.R. period 4s	59 18	7	Red tower; 62.	
3202 M 7125.5	-Breakwater, head.	37° 12.0' N 138° 15.6' E	Fl.G. period 4s	36 11	4	White tower; 31.	
3214 M 7102.7	-W.	37° 48.2' N 138° 15.1' E	Fl.(2)G. period 6s	52 16	3	White tower; 30.	
3216 M 7103	-Sawasaki Hana.	37° 49.3' N 138° 12.3' E	Fl.(2)W. period 30s	134 41	18	White octagonal concrete tower; 79.	Visible 314°-201°.
3218 M 7103.08	--Approach.	37° 49.0' N 138° 13.0' E	Fl.R. period 3s	23 7	2	Red tower; 16.	
3220 M 7103.3	-NE. of Sawasaki.	37° 50.2' N 138° 13.5' E	Fl.R. period 3s	42 13	3	Red round concrete tower; 32.	
3222 M 7103.52	-Sawane Ko, breakwater.	38° 00.3' N 138° 17.1' E	Fl.G. period 4s	22 7	3	White tower; 19.	
3224 M 7103.5	Mano Wan, breakwater.	37° 59.4' N 138° 17.1' E	Fl.(2)G. period 6s	33 10	3	White tower; 31.	
3226 M 7103.51	-Mano Ko, breakwater.	37° 57.6' N 138° 20.1' E	Fl.R. period 3s	28 9	4	Red tower; 20.	
3228 M 7103.6	-Hutami Ko, breakwater, head.	37° 58.6' N 138° 16.0' E	Fl.G. period 3s	33 10	5	White tower; 27.	
3232 M 7104	-Daiga Hana.	37° 57.9' N 138° 15.2' E	Fl.W. period 5s	151 46	12	White round concrete tower; 52.	Auxiliary light shows F.W. over Okino Eguri.
3236 M 7104.4	-Inakuzira Ko, breakwater.	37° 58.2' N 138° 14.3' E	Fl.G. period 3s	52 16	3	White round concrete tower; 31.	

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JAPAN-HONSHU-NORTHWEST COAST							
3240 M 7104.5	-Nagate Misaki.	37° 59.0' N 138° 13.6' E	Fl.W. period 4s	33 10	7	White tower; 31.	
3244 M 7104.7	Mano Wan.	37° 59.7' N 138° 14.0' E	Fl.R. period 3s	42 13	3	Red tower; 31.	
3248 M 7105	Itiri Sima.	38° 02.2' N 138° 13.1' E	Fl.(2)W. period 5s	66 20	5	ISOLATED DANGER BRB, beacon, topmark; 56.	
3252 M 7106.4	-Himezu Ko, breakwater.	38° 04.7' N 138° 14.5' E	Iso.G. period 6s	62 19	5	White round concrete tower; 31.	
3256 M 7106	-O Saki.	38° 06.0' N 138° 15.0' E	Fl.W. period 6s	102 31	16	White round concrete tower; 33.	Visible 021°-213°.
3258 M 7106.2	Kitaebisu Ko.	38° 05.7' N 138° 15.2' E	Fl.G. period 3s	43 13	3	White tower; 31.	
3260 M 7107	-Nyu Saki.	38° 11.8' N 138° 19.8' E	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	184 56	12	White round concrete tower; 39.	F.W. spotlight illuminates shoal 0.8M NW.
3264 M 7107.4	-Takati Ko, breakwater.	38° 12.1' N 138° 20.4' E	Fl.R. period 3s	46 14	5	Red tower; 28.	
3268 M 7107.6	-Seki Misaki.	38° 15.0' N 138° 24.0' E	Iso.W. period 6s	476 145	8	White round concrete tower; 33.	Visible 048°-213°.
3272 M 7092	-Hajiki Saki.	38° 19.9' N 138° 30.7' E	Fl.(3)W. period 30s	242 74	22	White octagonal concrete tower; 62.	Visible 091°-357°. Obscured by summit of Futatsugame Yama 093°- 097°.
3276 M 7092.4	-Washizaki, E. breakwater, head.	38° 19.0' N 138° 31.2' E	Fl.R. period 3s	43 13	5	Red round concrete tower; 15.	
3280 M 7092.6	Miyano Saki.	38° 12.3' N 138° 29.5' E	Iso.W. period 6s	141 43	8	White tower; 33.	
3284 M 7093	-Ryotsu Wan, approach.	38° 08.4' N 138° 27.0' E	Fl.(2)R. period 5s	43 13	5	Red round concrete tower; 28.	
3286 M 7093.5	-Hayosi Ko, breakwater.	38° 07.0' N 138° 26.5' E	Fl.R. period 3s	25 8	2	Red tower; 16.	
3288 M 7095	-Ryostu Ko.	38° 05.4' N 138° 26.4' E	Fl.(2)R. period 5s	43 13	5	Red tower; 28.	
3290 M 7094.4	-Breakwater, N. head.	38° 05.4' N 138° 26.3' E	Fl.G. period 3s	30 9	3	White tower; 18.	
3292 M 7094	-Ryotsu Wan, breakwater.	38° 04.8' N 138° 27.0' E	Fl.R. period 4s	62 19	7	Red concrete tower; 52.	
3296 M 7096	-Hime Saki.	38° 05.2' N 138° 33.8' E	Fl.W. period 6s	138 42	18	White concrete tower; 46.	Visible 079°-310°. Obscured within 2 miles between 301°-310° by Tarikaki Hana SE. of lighthouse.
3300 M 7096.5	-Hime Saki, S. side.	38° 04.5' N 138° 34.4' E	Fl.(2)R. period 5s	59 18	5	Red round concrete tower; 31.	
3304 M 7097	Joga Hana.	38° 01.3' N 138° 33.1' E	Fl.(2)W. period 6s	105 32	7	White square concrete tower; 33.	
3308 M 7098	-Kono se.	37° 55.2' N 138° 30.0' E	Iso.W. period 6s	75 23	14	White round concrete tower; 72.	Visible 177°-071°.
3310 M 7099	--Breakwater, head.	37° 54.7' N 138° 29.1' E	Fl.G. period 5s	26 8	3	White round concrete tower; 16.	
3312 M 7100.2	-Akadomari Ko, breakwater, head.	37° 52.1' N 138° 25.2' E	Fl.(2)G. period 7s	39 12	7	White framework tower; 31.	
3315 M 7101.5	-Hamito Ko, breakwater.	37° 49.3' N 138° 18.8' E	Fl.G. period 5s	27 8	3	White tower; 21.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
3316 M 7102	-Ogi Ko, breakwater.	37° 48.8' N 138° 17.7' E	Fl.G. period 3s	43 13	7	White round concrete tower; 33.	
3320 M 7102.5	--Utino Ma, breakwater.	37° 48.7' N 138° 16.4' E	Fl.G. period 4s	39 12	3	White round concrete structure; 32.	
3324 M 7120	Kashiwazaki Ko, W. breakwater.	37° 22.8' N 138° 32.8' E	Fl.R. period 3s	43 13	7	Red concrete tower; 31.	
3326 M 7119.5	Kirawa Nuclear Power Station, breakwater, head.	37° 26.3' N 138° 35.4' E	Fl.(2)R. period 7s	52 16	7	Red tower; 36.	
3328 M 7119	Kannon Zaki, Shilya Hana.	37° 29.0' N 138° 38.0' E	Fl.W. period 15s	210 64	21	White concrete tower; 56.	Visible 035°-209°.
3332 M 7118.4	Izumosaki Ko, breakwater.	37° 32.5' N 138° 40.9' E	Fl.(2)R. period 5s	42 13	3	Red tower; 33.	
3340 M 7118	Teradomari Ko, breakwater.	37° 38.9' N 138° 45.4' E	Fl.R. period 4s	46 14	7	Red tower; 31.	
3344 M 7117.4	Maze Ko, breakwater.	37° 44.6' N 138° 47.5' E	Fl.(2)R. period 6s	46 14	5	Red tower; 28.	
3348 M 7117	Kakuda Misaki.	37° 47.0' N 138° 49.0' E	Fl.W. period 8s	164 50	19	White tower; 43.	Visible 020°-243°.
3350 M 7116.8	Etigo Sinkawa Ko, breakwater.	37° 52.4' N 138° 55.2' E	Fl.G. period 3s	33 10	5	White tower; 18.	
NIGATO KO:							
3352 M 7110.5	-No 2 W. breakwater, N. head.	37° 58.2' N 139° 04.4' E	Fl.R. period 3s	59 18	7	Red tower; 36.	
3356 M 7111.2	-W. breakwater, elbow.	37° 57.5' N 139° 04.1' E	Fl.R. period 6s	79 24	7	Red round concrete tower; 72.	
3360 M 7112	-E. breakwater, about 366 meters 152° from elbow of W. breakwater.	37° 57.3' N 139° 04.2' E	Fl.(2)G. period 7s	39 12	5	White round concrete tower; 32.	
3370 M 7116.5	-Outer harbor observation tower.	38° 00.2' N 139° 07.6' E	Mo.(U)W. period 10s	59 18	4		Radar reflector.
3372 M 7113	-Wharf A, N. head.	37° 56.9' N 139° 04.1' E	Fl.W. period 3s	23 7	3	White tower; 18.	
3376 M 7116	-AVIATION LIGHT.	37° 56.8' N 139° 06.9' E	Al.Fl.W.G. period 4.3s	69 21	W. 3 G. 1	Metal framework tower.	
3380 M 7109	-Aqa-no-Kawa Guchi.	37° 57.6' N 139° 08.1' E	Iso.W. period 6s	52 16	12	White round concrete tower; 52.	
3384 M 7110	Matsuhama Ko.	37° 57.4' N 139° 08.1' E	Fl.G. period 3s	19 6	3	White round concrete tower; 16.	
3388 M 7108.2	-E. district, E. outer breakwater, head.	38° 00.8' N 139° 14.2' E	Fl.G. period 3s	39 12	3	White tower; 31.	
3392 M 7108.6	-Sea Berth No 3.	38° 00.1' N 139° 13.5' E	Mo.(U)W. period 10s	45 14	10		
3396 M 7108.4	-W. breakwater.	38° 01.1' N 139° 13.9' E	Fl.R. period 3s	39 12	5	Red framework tower; 43.	
3405 M 7090.7	-SE. breakwater.	38° 11.0' N 139° 25.0' E	Fl.G. period 3s	49 15	5	White tower; 33.	
3406 M 7090.8	-Oil platform.	38° 08.0' N 139° 20.3' E	Mo.(U)W. period 15s	62 19	10		
3412 M 7090	Iwahune Ko.	38° 11.9' N 139° 25.9' E	Iso.W. period 6s	144 44	12	White tower; 39.	
3416 M 7089	Awa Shima.	38° 27.1' N 139° 14.5' E	Fl.W. period 10s	899 274	23	White framework tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
3420 M 7089.5	Awasima Ko, E. breakwater.	38° 28.1' N 139° 15.4' E	Fl.G. period 4s	43 13	5	White tower; 31.	
3424 M 7088.8	Nezugaseki Ko, SSW.	38° 29.0' N 139° 30.7' E	Fl.(2)G. period 6s	49 15	5	White round concrete tower; 30.	
3428 M 7088	Nezugaseki Ko, Bentsen Shima, SW. head.	38° 33.2' N 139° 32.6' E	Fl.(2)W. period 10s	70 21	12	White round concrete tower; 46.	
3432 M 7088.4	Nezugaseki Ko, W. breakwater.	38° 33.7' N 139° 32.5' E	F.Fl.R. period 5s	49 15	F. 2 Fl. 5	Red round concrete tower; 33.	
3436 M 7088.6	-E. breakwater.	38° 33.7' N 139° 32.6' E	Iso.G. period 6s	43 13	9	White round concrete tower; 31.	
3440 M 7087.8	Hato Saki.	38° 41.0' N 139° 37.9' E	Iso.W. period 6s	131 40	12	White tower; 33.	
3444 M 7087.9	Ryotoan Jima.	38° 41.0' N 139° 37.0' E	Fl.(2)W. period 5s	52 16	5	ISOLATED DANGER BRB, beacon, topmark; 49.	
3456 M 7087.4	Yura Ko, W. breakwater.	38° 43.2' N 139° 40.6' E	Fl.R. period 3s	39 12	3	Red round concrete tower; 33.	
3456.1 M 7087.35	-Outer breakwater.	38° 43.3' N 139° 40.5' E	Fl.(2)R. period 5s	52 16	3	Red tower; 28.	
3460 M 7087	Arasaki.	38° 45.8' N 139° 43.4' E	Fl.W. period 5s	112 34	7	White round concrete tower; 39.	
3464 M 7087.1	-N. breakwater.	38° 46.2' N 139° 43.6' E	Iso.R. period 6s	52 16	8	Red tower; 33.	
3470 M 7086	Syonai, AVIATION LIGHT.	38° 48.9' N 139° 47.5' E	Al.Fl.W.G. period 4.3s	171 52	W. 7 G. 4		Occasional.
SAKATA KO:							
3472 M 7082	-Sakata.	38° 56.8' N 139° 49.0' E	Fl.W. period 8s	135 41	18	White tower; 98.	Visible 018°-198°. DGPS Station about 285 yards NE.
3476 M 7082.5	-Groin, head.	38° 56.9' N 139° 48.9' E	Fl.R. period 4s	46 14	3	Red metal framework tower; 33.	
3484 M 7083	-N. breakwater, head.	38° 55.6' N 139° 48.4' E	Fl.(2)G. period 7s	62 19	5	White round concrete tower; 46.	Visible 293°-219°.
3488 M 7085	Wave observation tower.	39° 00.5' N 139° 46.7' E	Mo.(U)W. period 15s	64 20	5		
3492 M 7080	Fukura Ko, S. breakwater.	39° 04.2' N 139° 51.8' E	Fl.G. period 4s	43 13	7	White tower; 28.	
3496 M 7077	Ugo Misaki.	39° 07.1' N 139° 52.2' E	Fl.(2)W. period 7s	223 68	7	White tower; 33.	
3500 M 7077.4	Kosagawa Ko, No 1 breakwater.	39° 07.3' N 139° 52.5' E	Fl.R. period 4s	39 12	3	Red tower; 30.	
3504 M 7076	Tobi Shima.	39° 12.0' N 139° 33.4' E	Fl.W. period 10s	269 82	20	White round concrete tower; 52.	
3506 M 7076.1	Hoki, breakwater, SE. head.	39° 12.3' N 139° 33.5' E	Fl.R. period 5s	36 11	4	Red tower; 19.	
3508 M 7076.3	Tobi Shima Ko, middle breakwater.	39° 11.1' N 139° 32.9' E	Fl.R. period 3s	43 13	3	Red round concrete tower; 28.	
3512 M 7076.2	Tobi Shima Ko, S. breakwater, head.	39° 11.1' N 139° 33.1' E	Fl.G. period 3s	49 15	7	White round concrete tower; 28.	
3513 M 7075.5	-S. end.	39° 11.2' N 139° 32.5' E	Fl.(3)W. period 17s	92 28	12	White tower; 24.	
3516 M 7075	Kisakata Ko, S. breakwater, head.	39° 12.1' N 139° 53.8' E	Fl.G. period 3s	32 10	3	White tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
3520 M 7072	Konoura Ko, on hill.	39° 15.4' N 139° 54.7' E	Fl.W. period 4s	59 18	13	White square concrete tower; 36.	
3524 M 7072.4	-N. breakwater.	39° 15.2' N 139° 54.5' E	Fl.(2)G. period 6s	46 14	5	White tower; 28.	
HIRASAWA KO:							
3528 M 7070	-E. breakwater, head.	39° 17.8' N 139° 57.6' E	Fl.G. period 4s	28 8	3	White tower; 15.	
3540 M 7069.6	-Breakwater, head.	39° 23.5' N 140° 00.6' E	Fl.G. period 3s	46 14	7	White concrete column; 33.	
3544 M 7069	Matsugasaki.	39° 30.2' N 140° 02.8' E	Fl.W. period 5s	82 25	12	White round concrete tower; 36.	
3548	Akita Ko.	39° 46.3' N 140° 00.9' E	Fl.(2)R. period 5s	62 19	7	Red tower; 52.	
3552 M 7066	Akita Ko, S. breakwater, inner head.	39° 45.6' N 140° 02.4' E	Fl.R. period 5s	49 15	5	Red round concrete tower; 36.	
3556 M 7067	Akita Ko, E. inner breakwater.	39° 46.1' N 140° 01.7' E	Iso.G. period 6s	42 13	5	White round concrete tower; 29.	
3560 M 7061	Omnagawa.	39° 51.5' N 139° 49.2' E	Fl.W.R. period 4s	161 49	12	White concrete tower, red bands; 62.	R. 255°-299°, W.-089°.
3562 M 7061.4	Hunagawa, Sea Berth.	39° 51.4' N 139° 51.6' E	Mo.(U)W. period 15s	102 31	9		Mo.(U)W. 15s 7M 270 meters NW. and 230 meters SSE. Horn: Mo.(U) 30s. Radar reflector.
3564 M 7062	Funakawa, S. breakwater, head.	39° 52.5' N 139° 51.9' E	Fl.G. period 4s	49 15	3	White round concrete tower; 46.	
3568 M 7063.5	-Asiyawa, S. breakwater.	39° 52.7' N 139° 51.4' E	Fl.R. period 3s	36 11	3	Red round concrete tower; 31.	
3572 M 7063.4	--N. breakwater.	39° 52.9' N 139° 51.3' E	Fl.(2)G. period 6s	23 7	6	White tower; 19.	
3574 M 7062.7	-Minami-Hirasawa, breakwater.	39° 51.2' N 139° 51.7' E	Fl.G. period 3s	52 16	8	White tower; 36.	
3576 M 7063.3	-Hunagawa Kanegawa, breakwater, S. head.	39° 52.9' N 139° 51.4' E	Fl.(2)R. period 6s	28 9	4	Red tower; 19.	
3580 M 7064	Wakimoto Ko, breakwater.	39° 54.1' N 139° 53.6' E	Fl.(2)G. period 6s	30 9	3	White tower; 18.	
3584 M 7060	Tsubaki Ko, W. breakwater.	39° 51.9' N 139° 46.9' E	F.Fl.G. period 5s	39 12	F. 3 Fl. 7	White round concrete tower; 32.	
3588 M 7059.6	-Tateyama Saki.	39° 51.6' N 139° 46.4' E	F.W.	157 48		White square concrete tower; 33.	Illuminates beacon on Mituguri Shima 850 meters SE.
3592 M 7059.5	Shioga Misaki.	39° 51.5' N 139° 45.4' E	Fl.W. period 3s	59 18	13	White tower; 31.	
3596 M 7058.9	Toga Ko, breakwater.	39° 57.1' N 139° 42.4' E	Fl.(2)R. period 6s 2 fl. 2s, ec. 4s	49 15	5	Red round concrete tower; 36.	
3600 M 7058.8	-S. side, on island.	39° 56.8' N 139° 42.1' E	Fl.W. period 5s	69 21	5	White column; 36.	
3604 M 7058	Nyudo Saki.	40° 00.3' N 139° 42.1' E	Fl.W. period 15s	187 57	20	White concrete tower, black bands; 92.	Visible 010°-293°. F.W. illuminates milepost on Mizu Shima 1,100 meters NNW. Storm signals.
3608 M 7057.4	Yunosiri Ko.	39° 58.6' N 139° 45.1' E	Fl.R. period 4s	39 12	3	Red tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
3612 <i>M 7057</i>	Kitaura Ko, breakwater.	39° 57.8' N 139° 47.3' E	Fl.(2)R. period 6s	36 11	5	Red tower; 28.	F.W. spotlight illuminates E. head of breakwater 120 meters NE.
3620 <i>M 7057.2</i>	-Kitaura Ko, detached breakwater, E. head.	39° 57.6' N 139° 47.6' E	Fl.R. period 3s	39 12	3	Red tower; 36.	
3622 <i>M 7056.3</i>	Nosiro Ko, breakwater.	40° 12.1' N 139° 58.7' E	Fl.(2)R. period 6s	43 13	5	Red tower; 30.	
3624 <i>M 7056</i>	Noshiro Minato, Yoneshiro Gawa entrance.	40° 12.8' N 139° 59.7' E	Fl.R. period 3s	46 14	3	Red round concrete tower; 36.	
3628 <i>M 7055.9</i>	Hachirmori, No 1 breakwater.	40° 22.4' N 140° 00.0' E	Fl.G. period 3s	49 15	4	White tower; 39.	
3632 <i>M 7055.8</i>	Iwadate Ko, No 2 breakwater.	40° 23.9' N 139° 58.4' E	F.Fl.G. period 5s	49 15	F. 1 Fl. 3	White tower; 27.	
3636 <i>M 7055.5</i>	Sugo Saki.	40° 24.9' N 139° 56.9' E	Fl.W. period 5s	154 47	18	White square concrete tower; 46.	Visible 318°-146°.
3640 <i>M 7055.2</i>	Kyuroku Shima.	40° 32.0' N 139° 29.9' E	Fl.W. period 8s	66 20	7	White round concrete tower; 62.	
3644 <i>M 7055.1</i>	Iwasaki Ko, No 2 breakwater.	40° 35.0' N 139° 54.6' E	Fl.G. period 4s	43 13	5	White tower; 31.	
3646 <i>M 7055.12</i>	-Inner breakwater.	40° 34.9' N 139° 55.0' E	Fl.(2)G. period 7s	36 11	3	White tower; 18.	
3648 <i>M 7055.14</i>	Iwasaki Ko, breakwater.	40° 35.0' N 139° 52.7' E	Fl.G. period 5s	49 15	7	White round concrete tower; 30.	
3652 <i>M 7055</i>	Henashi Saki.	40° 36.8' N 139° 51.8' E	Fl.W. period 10s	223 68	21	White round concrete tower; 79.	
3658 <i>M 7054.4</i>	-Breakwater, N. head.	40° 38.9' N 139° 55.3' E	Fl.R. period 3s	49 15	7	Red framework tower; 36.	
3660 <i>M 7054</i>	-Outer breakwater, head.	40° 38.8' N 139° 55.5' E	F.Fl.G. period 6s	39 12	F. 2 Fl. 5	White round concrete tower; 36.	
3664 <i>M 7053.8</i>	Toriisaki.	40° 44.8' N 140° 00.0' E	Fl.(2)W. period 8s	89 27	7	White round concrete tower, red bands; 33.	
3668 <i>M 7053.6</i>	Odose Saki.	40° 46.1' N 140° 03.4' E	Fl.W. period 12s	177 54	15	White round concrete tower; 43.	
3670 <i>M 7053.3</i>	-Approach.	40° 45.2' N 140° 05.6' E	Fl.(2)R. period 7s	43 13	4	Red tower; 19.	
3672 <i>M 7052</i>	Azigasawa Ko.	40° 47.2' N 140° 12.7' E	Fl.R. period 3s	42 13	7	Red round concrete tower; 36.	
3674 <i>M 7052.5</i>	-NE. breakwater.	40° 46.9' N 140° 12.8' E	Fl.(2)G. period 6s	29 9	4	White tower; 18.	
3676 <i>M 7053</i>	E. breakwater.	40° 47.1' N 140° 12.5' E	Fl.G. period 3s	36 11	4	White round concrete tower; 31.	
3680 <i>M 7048</i>	Jusan Ko, S. jetty.	41° 02.2' N 140° 19.2' E	Fl.R. period 3s	32 10	5	Red round concrete tower; 21.	
3688 <i>M 6673</i>	Kokomari Misaki.	41° 07.5' N 140° 15.0' E	Fl.(2)W. period 6s	255 78	7	White round concrete tower; 43.	
3692 <i>M 6672</i>	-N.	41° 08.3' N 140° 15.4' E	Fl.W. period 4s	292 89	13	White round concrete tower; 33.	
3696 <i>M 6668</i>	-N. breakwater, head.	41° 08.2' N 140° 17.8' E	Fl.R. period 3s	42 13	7	Red round concrete column; 27.	
3704 <i>M 6662</i>	Tappi Saki.	41° 15.5' N 140° 20.6' E	Fl.(2)W. period 20s	390 119	23	White round concrete tower; 46.	Visible 029°-280°.

Section 3

North and East Coasts of Honshu Including Nampo Shoto

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTH COAST							
3706 <i>M 6663</i>	-Tappi Ko approach.	41° 15.6' N 140° 20.8' E	Iso.R. period 4s	33 10	4	Red tower; 22.	
3707 <i>M 6662.5</i>	-E. Southeastward breakwater.	41° 14.2' N 140° 23.6' E	Fl.R. period 3s	26 8	3	Red tower; 16.	
3708 <i>M 6658</i>	-Minmaya Ko, breakwater, head.	41° 11.9' N 140° 26.2' E	Fl.R. period 4s	43 13	3	Red tower; 32.	
3712 <i>M 6657</i>	Takano Saki.	41° 13.7' N 140° 32.9' E	Iso.W. period 6s	118 36	8	White tower, red bands; 36.	
3714 <i>M 6657.5</i>	-Breakwater, head.	41° 13.6' N 140° 33.7' E	Fl.R. period 3s	36 11	3	Red tower; 27.	
3716 <i>M 6654</i>	Tairadate, on Myojin Saki, W. side of entrance to Mutsu Kaiwan.	41° 10.5' N 140° 38.6' E	Fl.W. period 5s	75 23	7	White round concrete tower; 75.	Visible 166°-358°.
3720 <i>M 6656</i>	-E. breakwater.	41° 09.5' N 140° 38.5' E	Fl.G. period 3s	31 9	3	White round concrete tower; 27.	
3724 <i>M 6651</i>	Kaunita Ko, breakwater, head.	41° 02.9' N 140° 38.8' E	Fl.(2)G. period 6s	43 13	5	White round concrete tower; 36.	
3726 <i>M 6650.7</i>	Usirogata Ko.	40° 56.0' N 140° 40.1' E	Fl.R. period 3s	26 8	4	Red concrete tower; 19.	
3728 <i>M 6650.5</i>	Okunai Ko.	40° 53.5' N 140° 40.8' E	Fl.(2)R. period 6s	24 7	4	Red tower; 19.	
3731 <i>M 6648</i>	-Okidate, W. breakwater.	40° 50.9' N 140° 43.2' E	Fl.R. period 4s	36 11	5	Red tower; 31.	
3731.5 <i>M 6646</i>	-N. breakwater, N. head.	40° 50.2' N 140° 44.6' E	Fl.G. period 3s	43 13	7	White tower; 39.	
3734 <i>M 6647.5</i>	-E. breakwater, W. tower.	40° 50.1' N 140° 45.0' E	Fl.(3)G. period 12s	36 11	4	White round concrete structure; 32.	
3736 <i>M 6645.5</i>	-Tutumi Kawa, E. breakwater.	40° 51.3' N 140° 49.1' E	Fl.R. period 4s	26 8	3	Red tower; 16.	
3740 <i>M 6643.5</i>	Moura Ko.	40° 56.6' N 140° 52.2' E	Fl.G. period 4s	39 12	3	White round concrete tower; 36.	
3744 <i>M 6643.2</i>	Ino Ko.	40° 58.7' N 140° 52.2' E	Fl.R. period 3s	26 8	4	Red tower; 19.	
3760 <i>M 6643</i>	O Shima.	41° 01.0' N 140° 52.3' E	Fl.W. period 7s	138 42	7	White round concrete tower; 32.	
3764 <i>M 6642.5</i>	Iotasawa, E. breakwater.	40° 59.8' N 140° 55.0' E	Fl.R. period 4s	39 12	3	Red tower; 30.	
3768 <i>M 6642</i>	Yasui Saki.	40° 57.7' N 140° 58.8' E	Iso.W. period 4s	82 25	12	White tower; 39.	
3772 <i>M 6641.7</i>	Kominato Ko.	40° 57.5' N 140° 59.0' E	Fl.R. period 3s	22 7	3	Red round concrete tower; 16.	
3776 <i>M 6641.6</i>	-Breakwater, head.	40° 56.5' N 140° 58.9' E	Fl.R. period 5s	36 11	9	Red tower; 31.	
3778 <i>M 6641.4</i>	-Simizugawa Ko, breakwater, S. head.	40° 55.7' N 141° 01.5' E	Fl.R. period 3s	26 8	6	Red tower; 18.	
3780 <i>M 6641</i>	Noheji Ko, W. breakwater.	40° 52.6' N 141° 06.7' E	Fl.(2)R. period 6s	39 12	7	Red round concrete tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTH COAST							
3788 <i>M 6641.2</i>	-Easternmost breakwater, head.	40° 52.5' N 141° 07.7' E	Fl.R. period 5s	39 12	3	Red tower; 31.	
3790 <i>M 6640.4</i>	Yokohama Ko, breakwater.	41° 05.2' N 141° 14.6' E	Oc.R. period 5s lt. 4s, ec. 1s	39 12	4	Red tower; 27.	
3800 <i>M 6640.25</i>	Hamaokunai Ko, W. breakwater.	41° 12.1' N 141° 15.5' E	Fl.R. period 3s	30 9	4	Red concrete tower; 19.	
3802 <i>M 6640.2</i>	Ominato Ko, breakwater, head.	41° 16.5' N 141° 10.6' E	Fl.R. period 3s	33 10	5	Red tower; 27.	
3804 <i>M 6640</i>	Kuro Saki.	41° 11.1' N 141° 03.5' E	Fl.W. period 4s	72 22	12	Black tower, white bands; 39.	
3806 <i>M 6639.5</i>	Kawauchi Ko, breakwater.	41° 11.8' N 140° 59.1' E	Fl.G. period 4s	26 8	3	White tower; 18.	
3808 <i>M 6639.6</i>	Kawauti Wan.	41° 11.3' N 140° 57.8' E	Fl.(2)G. period 6s	23 7	3	White tower; 16.	
3809 <i>M 6638.4</i>	Wakinosawa Ko, breakwater.	41° 08.5' N 140° 49.6' E	Fl.R. period 3s	39 12	3	Red round concrete tower; 32.	
3810 <i>M 6638</i>	Mutsu Benten Shima.	41° 07.2' N 140° 48.9' E	Fl.(2)W. period 7s	118 36	7	White round concrete tower, black band; 39.	
3811 <i>M 6637.4</i>	Usitaki Ko.	41° 17.5' N 140° 48.0' E	Iso.R. period 6s	40 12	4	Red tower; 18.	
3812 <i>M 6637</i>	Oyo Jima.	41° 23.9' N 140° 48.8' E	Fl.W. period 3s	61 19	5	White round concrete tower; 33.	
3816 <i>M 6636.7</i>	Sai Ko, breakwater.	41° 26.1' N 140° 51.6' E	Fl.(2)R. period 6s	43 13	7	Red tower; 30.	
3818 <i>M 6636.4</i>	Okoppe Ko.	41° 29.7' N 140° 54.2' E	Fl.R. period 3s	33 10	3	Red tower; 18.	
3828 <i>M 6636.3</i>	Oma Ko, S. approach.	41° 31.8' N 140° 53.9' E	Fl.(2)R. period 6s	29 9	4	Red round concrete tower; 22.	
3828.2 <i>M 6636</i>	-W. breakwater.	41° 31.9' N 140° 54.2' E	Fl.R. period 4s	43 13	3	Red tower; 31.	
3828.4 <i>M 6636.2</i>	-N. breakwater.	41° 31.9' N 140° 54.3' E	Fl.G. period 3s	39 12	5	White tower; 31.	
3828.6 <i>M 6634</i>	-N. approach.	41° 32.1' N 140° 54.3' E	Fl.R. period 3s	31 9	4	Red tower; 18.	
3830 <i>M 6635</i>	Genbei Syo.	41° 33.0' N 140° 54.8' E	Fl.(2)W. period 5s	24 7	3	ISOLATED DANGER BRB, beacon, topmark; 21.	
3832 <i>M 6634.5</i>	Omasaki.	41° 33.3' N 140° 54.7' E	Fl.(3)W. period 18s	118 36	12	Black tower, white band; 82.	
3833 <i>M 6635.4</i>	Sitatehama Ko, breakwater.	41° 32.8' N 140° 55.3' E	Fl.(2)G. period 6s	33 10	3	White tower; 18.	
3834 <i>M 6633.8</i>	Oma Saki, SE.	41° 29.4' N 140° 59.9' E	Fl.G. period 4s	43 13	5	White tower; 29.	
3835 <i>M 6633.6</i>	Akaiwa Saki.	41° 28.2' N 141° 05.6' E	Fl.R. period 3s	29 9	4	Red concrete structure; 19.	
3836 <i>M 6633.5</i>	Ohata Ko, S. of E. breakwater.	41° 24.5' N 141° 10.6' E	F.Fl.R. period 4s	49 15	F. 2 Fl. 5	Red round concrete tower; 33.	
3840 <i>M 6632</i>	-E. breakwater.	41° 24.8' N 141° 10.1' E	Fl.G. period 3s	36 11	3	White tower; 30.	
3844 <i>M 6633</i>	-N. breakwater.	41° 24.7' N 141° 10.3' E	Iso.R. period 6s	36 11	4	Red round concrete tower; 27.	
3845 <i>M 6631.4</i>	Sekinehama Ko.	41° 22.1' N 141° 14.2' E	Dir.W.R.G.	43 13	W. 7 R. 6 G. 6	White tower; 32.	F.G. 255°-258°30', F.W.- 261°30', F.R.-265°. Reserve light range 0.5M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTH COAST							
3846 M 6631.5	-W. breakwater.	41° 22.2' N 141° 14.6' E	Fl.R. period 4s	46 14	8	Red tower; 31.	
3846.1 M 6631.8	-NW. breakwater.	41° 22.3' N 141° 13.7' E	Fl.R. period 3s	33 10	3	Red tower; 16.	
3846.5 M 6631.6	-E. breakwater.	41° 22.1' N 141° 14.4' E	Fl.G. period 4s	46 14	8	White tower; 31.	
3847 M 6631.2	Mutuiwaya Ko.	41° 23.6' N 141° 24.8' E	Fl.R. period 3s	29 9	4	Red tower; 19.	
3848 M 6631	Shiriya Ko, Shiriya Breakwater.	41° 24.7' N 141° 25.9' E	Fl.G. period 3s	30 9	5	White round concrete tower; 23.	
JAPAN-HONSHU-EAST COAST							
3852 M 6630	Siriya Saki.	41° 25.8' N 141° 27.7' E	Fl.W. period 10s	151 46	18	White round brick tower; 108.	Visible 052°-003°. F.W. spotlight illuminates O Ne 1.06 miles ENE. DGPS Station.
RAMARK							
3856 M 6628.8	Kukidono Saki.	41° 23.7' N 141° 27.4' E	Fl.R. period 3s	43 13	3	Red tower; 30.	
3860 M 6628	Shiranuka Ko.	41° 07.9' N 141° 23.7' E	Fl.W. period 4s	125 38	13	White tower; 46.	F.W. illuminates breakwater 200 meters NE.
3872 M 6628.4	-Shima Breakwater.	41° 08.0' N 141° 23.7' E	Fl.(2)G. period 6s	36 11	3	White tower; 33.	
3878 M 6627.3	Mutu Ogawara Ko.	40° 55.6' N 141° 24.0' E	F.Fl.(2)G. period 7s	52 16	F. 2 Fl. 5	White tower; 39.	
3880 M 6627	Mutsu Shiogama.	40° 48.3' N 141° 24.0' E	Iso.W. period 6s	102 31	12	White square metal framework tower; 49.	
3884 M 6625.7	Oka-Misawa.	40° 40.8' N 141° 26.4' E	Fl.G. period 3s	43 13	7	White tower; 31.	
3888 M 6626	Oka-Misawa AVIATION LIGHT.	40° 41.2' N 141° 21.6' E	Al.Fl.(2+1)W.G. period 10s	230 70	W. 8 G. 6	Metal framework tower.	
HACHINOHE KO:							
3892 M 6625	-Hachinohe, AVIATION LIGHT.	40° 32.8' N 141° 28.3' E	Al.Fl.W.G. period 10s	259 79	W. 9 G. 6	Metal framework tower; 141.	
3896 M 6620	-Same Kaku.	40° 32.4' N 141° 34.6' E	Fl.W. period 8s	190 58	19	White round concrete tower; 75.	
3900 M 6621	-O Saki.	40° 32.5' N 141° 34.1' E	F.W.	72 22		White round concrete tower; 28.	Illuminates Hinode Iwa about 430 meters NNW.
3904 M 6624.8	-N. breakwater, head.	40° 33.5' N 141° 31.7' E	Fl.(2)R. period 9s	59 18	5	Red concrete tower; 52.	
3906 M 6624.85	-Detached breakwater, N. end.	40° 33.7' N 141° 32.1' E	Fl.(2)G. period 6s	56 17	6	White tower; 52.	Fl.(2)G. 6s 8m 5M marks N. head of breakwater.
3908 M 6625.5	Hatitaro, E. breakwater.	40° 33.1' N 141° 30.9' E	Fl.(2)G. period 9s 2 fl. 3s, ec. 6s	49 15	4	White round concrete tower; 33.	
3916 M 6624.7	--W. breakwater, head.	40° 32.3' N 141° 31.2' E	Fl.R. period 3s	43 13	3	Red tower; 30.	Bridge 620 meters SE. marked by F.Y., Iso.G., Iso.W. and Iso.R.
3920 M 6622	-N. detached breakwater, W. head.	40° 32.4' N 141° 32.9' E	Fl.G. period 3s	36 11	5	White round concrete tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-EAST COAST							
3922 M 6623.6	-Aomori, breakwater, S. head.	40° 32.2' N 141° 32.0' E	Fl.R. period 5s	46 14	5	Red tower; 36.	
3924 M 6623	-W. breakwater, NE. head.	40° 32.3' N 141° 32.8' E	Fl.R. period 3s	49 15	4	Red metal framework tower; 33.	
3928 M 6623.2	-Middle breakwater, W. head.	40° 32.3' N 141° 32.0' E	Fl.G. period 5s	43 13	4	White framework tower; 32.	
3936 M 6624	-Inner breakwater, N. head.	40° 32.1' N 141° 33.1' E	Fl.(2)R. period 6s	39 12	3	Red tower; 33.	
3940 M 6624.4	-Kabu Shima Jetty.	40° 32.2' N 141° 33.3' E	Fl.G. period 6s	33 10	3	White tower; 28.	
3941 M 6619	Ozuya Ko.	40° 28.4' N 141° 39.1' E	Fl.R. period 3s	33 10	3	Red tower; 18.	
3942 M 6618.4	Kominato Ko.	40° 27.3' N 141° 40.4' E	Iso.G. period 4s	39 12	4	White tower; 18.	
3944 M 6618	Hajikami.	40° 27.1' N 141° 40.8' E	Fl.W. period 4s	72 22	7	White tower; 36.	
3948 M 6615	Taneti Ko, E. breakwater.	40° 24.4' N 141° 43.4' E	Fl.(2)R. period 6s	43 13	3	Red tower; 31.	
3952 M 6614	Taneti Ko.	40° 24.0' N 141° 43.1' E	Dir.W.R.G.	53 16	W. 13 R. 10 G. 11	White round concrete tower; 46.	F.R. 255°30'-257°30', F.W.- 261°30', F.G.-263°30'. Identification light Q.Y.
3956 M 6612	Yagi Ko, entrance Range, front.	40° 20.8' N 141° 45.7' E	F.G.	95 29	5	White round concrete tower, white triangular daymark point up; 24.	
3960 M 6612.1	-Rear, 150 meters 236°42' from front.	40° 20.8' N 141° 45.5' E	F.G.	154 47	5	White round concrete tower, white triangular daymark point up; 36.	
3964 M 6613	Yagi Minami Ko.	40° 20.9' N 141° 46.1' E	Iso.G. period 6s	26 8	4	White tower; 19.	
3968 M 6613.3	-Yagi Ko.	40° 20.8' N 141° 46.4' E	Fl.R. period 3s	46 14	5	Red tower; 33.	
3972 M 6608	Ushi Shima.	40° 13.2' N 141° 50.1' E	Iso.W. period 6s	233 71	12	White tower; 36.	Auxiliary F.W. illuminates reef about 0.7 mile SE.
3976 M 6610	-N. breakwater.	40° 11.4' N 141° 48.2' E	Fl.(2)R. period 6s	43 13	3	Red tower; 36.	
3978 M 6610.3	-Outer breakwater.	40° 11.4' N 141° 48.8' E	Fl.R. period 3s	46 14	5	Red tower; 26.	
3980 M 6609	-S. breakwater.	40° 11.1' N 141° 48.3' E	F.Fl.G. period 6s	49 15	F. 2 Fl. 5	White tower; 33.	
3982 M 6610.6	Kuzi Ko, breakwater, head.	40° 10.2' N 141° 50.9' E	Fl.G. period 3s	36 11	3	White tower; 21.	
3983 M 6607.8	Ritutyu Kuki Ko.	40° 07.9' N 141° 51.3' E	Fl.(2)R. period 6s	36 11	4	Red concrete tower; 19.	
3984 M 6607.5	Noda Wan.	40° 06.9' N 141° 50.1' E	F.Fl.R. period 3s	43 13	F. 1 Fl. 3	Red tower; 31.	
3986 M 6607.4	Horinai Ko.	40° 03.2' N 141° 51.7' E	Fl.(2)R. period 6s	49 15	4	Red tower; 33.	
3988 M 6607	Otanabe Ko, breakwater, head.	40° 00.6' N 141° 54.7' E	Fl.G. period 3s	46 14	3	White tower; 31.	
3992 M 6606	Ma (Kuro) Saki.	40° 00.6' N 141° 56.0' E	Fl.W. period 5s	469 143	19	White tower; 39.	Visible 082°-332°.
3996 M 6605.8	Rikutyu, Benten Zaki.	39° 56.9' N 141° 57.6' E	Fl.(2)W. period 7s	321 98	7	White round concrete tower, red bands; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-EAST COAST							
4000 M 6605.4	Shimano Koshi, breakwater.	39° 55.0' N 141° 56.6' E	Fl.G. period 3s	46 14	5	White tower; 31.	
4006 M 6605.25	-SE.	39° 49.8' N 141° 58.8' E	Iso.R. period 3s	39 12	7	Red round structure; 22.	<i>Temporarily extinguished.</i>
4008 M 6605	Ma Saki.	39° 45.1' N 141° 59.9' E	Fl.(2)W. period 10s	259 79	7	White round concrete tower; 31.	
4012 M 6604.5	-Taro Ko.	39° 43.7' N 141° 58.8' E	Fl.R. period 3s	46 14	5	Red tower; 29.	
4014 M 6604.2	Yado Ko.	39° 41.4' N 141° 58.4' E	Fl.(2)G. period 6s	46 14	3	White round concrete tower; 33.	<i>Temporarily extinguished.</i>
4015 M 6604.1	Takahama, breakwater, head.	39° 36.1' N 141° 57.2' E	Fl.R. period 5s	23 7	4	Red tower; 15.	
4016 M 6604	-Kanbayasi, breakwater, S. head.	39° 37.1' N 141° 58.1' E	Fl.R. period 3s	30 9	5	Red framework tower; 29.	
4018 M 6603.5	Miyako Ko, S. breakwater, head.	39° 37.7' N 141° 58.6' E	Fl.(2)R. period 6s	39 12	5	Red tower; 28.	
4020 M 6603	Miyako Wan, breakwater, head.	39° 38.4' N 141° 58.5' E	Fl.R. period 4s	36 11	5	Red tower; 31.	
4024 M 6602	Hei Saki.	39° 39.3' N 142° 01.5' E	Fl.W. period 3s	184 56	5	White tower; 33.	
4025 M 6600	Otobe Ko.	39° 36.0' N 142° 01.8' E	Fl.G. period 3s	33 10	5	White tower; 33.	
4026 M 6599	Omoe Ko.	39° 34.6' N 142° 01.9' E	Fl.R. period 4s	43 13	3	Red round concrete structure; 27.	<i>Temporarily extinguished.</i>
4028 M 6598	Todoga Saki.	39° 32.8' N 142° 04.3' E	Fl.W. period 15s	190 58	20	White round concrete tower; 112.	Visible 168°-018°. Storm signals. Visible 342°-353°.
4036 M 6597.6	-E. breakwater.	39° 28.8' N 141° 58.7' E	Iso.R. period 6s	33 10	11	Red round concrete structure; 31.	<i>Temporarily extinguished.</i>
4040 M 6596	Kasano Hana.	39° 28.6' N 142° 00.7' E	Fl.W. period 4s	36 11	5	White tower; 25.	
4044 M 6597.35	Yamada, breakwater, head.	39° 27.9' N 141° 57.5' E	F.Fl.G. period 4s	39 12	F. 1 Fl. 3	White round concrete tower; 30.	
4048 M 6597	Tarai Shima.	39° 27.4' N 141° 59.7' E	Fl.(2)W. period 5s	30 9	3	ISOLATED DANGER BRB, beacon, topmark; 24.	
4052 M 6597.3	Orikasa, N. breakwater.	39° 27.2' N 141° 57.8' E	F.Fl.(2)R. period 8s	33 10	F. 1 Fl. 3	Red tower; 30.	
4056 M 6597.2	Oura Ko, breakwater, head.	39° 26.9' N 142° 00.1' E	Fl.G. period 3s	20 6	3	White tower; 15.	
4058 M 6595.15	Koyadori Ko.	39° 25.5' N 142° 00.8' E	Fl.R. period 3s	30 9	5	Red tower; 15.	
4060 M 6595.1	O Shima.	39° 24.0' N 141° 59.8' E	Fl.W. period 3s	92 28	5	White round concrete tower; 33.	
4064 M 6595.5	Benten Shima.	39° 24.6' N 141° 58.7' E	Fl.W. period 4s	59 18	8	White round concrete tower; 36.	
4068 M 6595.4	Rikuchu Funakoshi Ko, S. breakwater.	39° 25.1' N 141° 58.9' E	F.Fl.R. period 5s	36 11	F. 1 Fl. 3	Red tower; 27.	<i>Temporarily extinguished.</i>
4072 M 6595.7	-N. breakwater, head.	39° 25.3' N 141° 58.7' E	Fl.R. period 3s	36 11	3	Red tower; 30.	
4076 M 6595.2	Kirikiri Ko, E. breakwater.	39° 22.3' N 141° 57.2' E	Iso.G. period 6s	31 9	11	White round tower; 28.	<i>Temporarily extinguished.</i>

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JAPAN-HONSHU-EAST COAST							
4084 M 6595	Otuti Ko.	39° 20.9' N 141° 55.8' E	Fl.R. period 3s	36 11	5	Red tower; 36.	
4088 M 6595.04	-S. Breakwater, head.	39° 21.1' N 141° 55.4' E	Fl.(2)G. period 6s	36 11	8	White round concrete structure; 24.	<i>Temporarily extinguished.</i>
4092 M 6594.5	Shirahama, breakwater, head.	39° 19.8' N 141° 56.6' E	Fl.G. period 3s	40 12	3	White tower; 30.	
4096 M 6594	Ohako Saki.	39° 21.0' N 141° 59.7' E	Fl.(4)W. period 15s	233 71	7	White tower; 30.	
4098 M 6593.3	Kuwanohama.	39° 18.5' N 141° 54.4' E	Fl.(2)R. period 6s	26 8	5	Red tower; 15.	
4100 M 6593	Naka Ne, on rock.	39° 18.2' N 141° 54.1' E	Fl.(2)W. period 5s	36 11	3	ISOLATED DANGER BRB, beacon, topmark; 33.	
4104 M 6593.2	Ryoishi Ko, breakwater.	39° 18.4' N 141° 53.5' E	F.Fl.G. period 5s	31 9	F. 2 Fl. 5	White tower; 16.	
KAMAISHI WAN:							
4108 M 6589.25	-Kamaishi Ko.	39° 15.5' N 141° 55.9' E	Fl.(2)R. period 6s	52 16	8	Red structure; 33.	<i>Temporarily extinguished.</i>
4113 M 6589.3	-S. breakwater, N. head.	39° 15.4' N 141° 55.9' E	Fl.G. period 3s	33 10	3	White tower; 16.	
4116 M 6592	-N. breakwater, S. head.	39° 16.2' N 141° 53.8' E	Iso.G. period 6s	23 7	5	White tower; 16.	
4128 M 6589.8	-Heida Ko, N. breakwater, head.	39° 15.0' N 141° 53.8' E	Fl.R. period 3s	28 8	4	Red tower; 15.	
4132 M 6589.4	-Shirahama, breakwater.	39° 14.4' N 141° 55.2' E	Fl.G. period 4s	39 12	3	White tower; 32.	<i>Temporarily extinguished.</i>
4136 M 6589	O Saki.	39° 14.9' N 141° 58.2' E	Fl.W. period 10s	374 114	20	White tower; 49.	
4140 M 6588.4	Kojirahama Ko, E. breakwater.	39° 12.3' N 141° 52.1' E	Fl.R. period 3s	33 10	3	Red round concrete structure; 27.	<i>Temporarily extinguished.</i>
4144 M 6588.2	Sikotu Saki.	39° 11.2' N 141° 55.5' E	Fl.W. period 3s	89 27	7	White tower; 33.	
4148 M 6588	Konpaku Ko, E. breakwater.	39° 09.2' N 141° 51.6' E	Fl.R. period 3s	46 14	3	Red round concrete structure; 27.	<i>Temporarily extinguished.</i>
4152 M 6587	Kobe Saki.	39° 06.4' N 141° 55.1' E	Fl.W. period 5s	407 124	7	White tower; 33.	
4156 M 6586.6	Rikutyu-Sakihama Ko, E. breakwater.	39° 06.0' N 141° 52.0' E	F.Fl.(2)R. period 8s 2 fl. 3s, ec. 5s	36 11	F. 6 Fl. 11	Red round concrete tower; 28.	<i>Temporarily extinguished.</i>
4160 M 6586.4	Okkirai Ko, E. breakwater, head.	39° 06.7' N 141° 49.0' E	Fl.R. period 3s	39 12	5	Red round concrete structure; 30.	<i>Temporarily extinguished.</i>
4162 M 6586.2	Onizawa Ko.	39° 05.2' N 141° 48.9' E	Iso.G. period 4s	23 7	3	White tower; 15.	
4164 M 6586	Ryori Saki.	39° 01.7' N 141° 51.0' E	Fl.W. period 15s	367 112	12	White square concrete structure; 62.	Visible 179°-062°.
4165	-Ryori Saki RAMARK.	39° 01.7' N 141° 50.6' E					
4166 M 6584	Ryori Ko, breakwater.	39° 01.9' N 141° 47.5' E	Fl.(2)R. period 6s	43 13	9	Red tower; 33.	<i>Temporarily extinguished.</i>
4172 M 6582	Koori Saki.	39° 01.1' N 141° 45.5' E	Fl.W. period 4s	157 48	7	White tower; 39.	
4176 M 6582.2	Breakwater, head.	39° 01.0' N 141° 45.0' E	F.Fl.R. period 5s	43 13	F. 6 Fl. 12		<i>Temporarily extinguished.</i>

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JAPAN-HONSHU-EAST COAST							
4180 M 6582.4	Ofunato Wan, S. breakwater, entrance.	39° 00.9' N 141° 44.1' E	Iso.G. period 6s	39 12	12	White round concrete structure; 31.	<i>Temporarily extinguished.</i>
4184 M 6582.6	-N. breakwater.	39° 01.1' N 141° 43.9' E	Fl.R. period 3s	39 12	3	Red round concrete tower; 32.	
4188 M 6583.5	-Sango Shima, S. extremity.	39° 02.1' N 141° 43.6' E	Fl.W. period 3s	63 19	3	White round concrete tower; 33.	
4192 M 6583.7	--N. extremity.	39° 02.3' N 141° 43.7' E	Fl.W. period 4s	109 33	3	White tower; 27.	
4196 M 6582.9	Marumori.	39° 01.9' N 141° 42.8' E	Dir.W.R.G.	174 53	W. 14 R. 13 G. 13	White tower; 46.	F.R. 309°-310°, F.W.-312°, F.G.-313°. Reserve light range 4M.
4204 M 6583.3	-Hosoura fishery harbor, E. breakwater.	39° 01.2' N 141° 43.1' E	Fl.(2)G. period 5s	27 8	3	White tower; 18.	
4206 M 6583.4	-Detached breakwater.	39° 01.2' N 141° 43.1' E	Fl.(2)R. period 5s	30 9	3		<i>Temporarily extinguished.</i>
4208 M 6581	Goishi Saki.	38° 59.0' N 141° 44.7' E	Fl.(3)W. period 13s	128 39	5	White tower; 33.	
4214 M 6572	Nesaki, N. breakwater, head.	38° 56.5' N 141° 42.6' E	Fl.(2)R. period 6s	30 9	3	Red tower; 18.	
4216 M 6571	Tsubaki Shima.	38° 56.0' N 141° 43.0' E	Fl.W. period 6s	154 47	5	White round concrete tower; 33.	
HIROTA WAN:							
4220 M 6579	-Hirota Ko, breakwater, head.	38° 57.0' N 141° 41.5' E	Fl.R. period 4s	39 12	4	Red tower; 30.	
4224 M 6578	-Akaiso Iwa, about 310 meters from Hirota Ko.	38° 56.9' N 141° 41.3' E	Mo.(A)R. period 8s	36 11	3	STARBOARD (B) R, tower, topmark; 33.	
KESENNUMA WAN:							
4236 M 6570	-Rikuzen O Saki.	38° 51.5' N 141° 40.4' E	Fl.W. period 3s	138 42	5	White concrete tower; 43.	
4240 M 6568	-Kara Shima.	38° 51.7' N 141° 38.5' E	Fl.W. period 5s	111 34	5	White round concrete tower; 33.	
4246 M 6567.48	-Kosaba Ko, breakwater.	38° 52.9' N 141° 38.6' E	Iso.R. period 6s	30 9	4	Red tower; 22.	
4248 M 6567	-Banshone, on reef.	38° 53.1' N 141° 37.2' E	Fl.G. period 3s	31 9	3	PORT (B) G, tower, topmark; 26.	F.W. spotlight illuminates Banshone 79 meters NNE.
4252 M 6567.5	-Shibitachi Nakane.	38° 53.0' N 141° 38.1' E	Mo.(A)R. period 8s	36 11	3	STARBOARD (B) R, beacon, topmark; 33.	
4254 M 6567.3	-Breakwater, W.	38° 53.0' N 141° 36.1' E	Fl.R. period 3s	22 7	3	Red tower; 15.	
4256 M 6566.5	-Jodan.	38° 52.8' N 141° 36.3' E	Fl.W. period 4s	69 21	3	White tower; 19.	
4260 M 6567.2	-Range, front.	38° 53.7' N 141° 35.7' E	F.R.	217 66	7	White metal framework tower; 39.	
4264 M 6567.21	--Rear, 690 meters 354°48' from front.	38° 54.0' N 141° 35.7' E	F.R.	354 108	7	White metal framework tower; 59.	
4268 M 6566	-O Shima.	38° 49.8' N 141° 37.5' E	Fl.W. period 10s	121 37	5	White tower; 43.	
4272 M 6567.4	To Wan, Yoroi Saki.	38° 53.6' N 141° 37.6' E	Dir.W.R.G.	92 28	W. 14 R. 10 G. 11	White round concrete tower; 30.	F.R. 329°30'-331°, F.W.-333°, F.G.-334°30'.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-EAST COAST							
4276 <i>M 6564</i>	Iwai Saki.	38° 49.7' N 141° 36.2' E	Oc.(3)W.R. period 13s lt. 6s, ec. 1s lt. 2s, ec. 1s	79 24	14	White round concrete tower; 56.	W. 089°-337°, R.-089° over reefs 2 km. SSE.
4280 <i>M 6562</i>	Hikado Ko, breakwater, head.	38° 48.3' N 141° 33.7' E	Fl.G. period 4s	39 12	3	White round concrete tower; 30.	
4282 <i>M 6561.6</i>	Kurauti Ko.	38° 45.0' N 141° 32.0' E	Fl.R. period 3s	31 9	5	Red tower; 15.	
4284 <i>M 6560</i>	Utatsu Saki.	38° 41.8' N 141° 33.6' E	Fl.W. period 4s	164 50	7	White tower; 36.	
4285 <i>M 6560.2</i>	Rikuzentomari Ko.	38° 42.1' N 141° 33.6' E	Iso.R. period 6s	26 8	4	Red tower; 18.	
4288 <i>M 6561</i>	Shizukawa, S. breakwater.	38° 40.0' N 141° 27.0' E	F.Fl.G. period 5s	32 10	F. 3 Fl. 7	White tower; 28.	
4292 <i>M 6558</i>	Terahama.	38° 38.0' N 141° 31.9' E	Iso.W. period 6s	161 49	8	White tower; 32.	
4296 <i>M 6557</i>	Ogachi Hunagosi Ko, W. breakwater.	38° 32.1' N 141° 30.5' E	Fl.R. period 3s	16 5	2	Red tower; 8.	
4300 <i>M 6556</i>	Osu Zaki.	38° 31.1' N 141° 32.9' E	Fl.(2)W. period 6s	164 50	12	White tower; 39.	Visible 160°-006°.
4304 <i>M 6554</i>	Shirogane Zaki.	38° 29.0' N 141° 32.0' E	Fl.(3)W. period 13s	125 38	7	White tower; 33.	
4308 <i>M 6555.2</i>	Ogati Ko Range, front.	38° 31.3' N 141° 28.4' E	F.G.	148 45	10	White round concrete tower; 36.	
4312 <i>M 6555.21</i>	-Rear, 137 meters 315° from front.	38° 31.4' N 141° 28.3' E	F.G.	190 58	10	White round concrete tower; 26.	
4316 <i>M 6555</i>	Aka Saki.	38° 30.0' N 141° 30.0' E	Fl.W. period 3s	112 34	7	White round concrete tower; 31.	
4320 <i>M 6549</i>	Yogono.	38° 26.3' N 141° 31.7' E	Fl.W. period 3s	190 58	5	White tower; 32.	
4324 <i>M 6549.5</i>	Yogouo Saki.	38° 26.4' N 141° 31.5' E	Fl.R. period 3s	36 11	3	Red tower; 31.	
4334 <i>M 6549.8</i>	Onagawa Wan, breakwater, N. head.	38° 24.1' N 141° 30.6' E	Fl.G. period 3s	46 14	4	White tower; 39.	
4336 <i>M 6547</i>	Rikuzen Yeno Shima.	38° 23.9' N 141° 35.6' E	Fl.(2)W. period 10s	286 87	7	White tower; 33.	
4340 <i>M 6548</i>	-Haya Saki.	38° 24.0' N 141° 32.2' E	Fl.W. period 4s	312 95	7	White tower; 39.	F.W. auxiliary light illuminates Minaminabakari NE. Rock, about 1.8 km NNW.
4344 <i>M 6546</i>	Kinkazan.	38° 16.6' N 141° 35.0' E	Al.Fl.W.R. period 20s	181 55	W. 20 R. 17	White round granite tower; 43.	Visible 189°-045°. Storm signals. DGPS Station 185 meters NW.
4348 <i>M 6544</i>	Rikuzen Kuro Saki.	38° 16.4' N 141° 31.1' E	Iso.W. period 6s	213 65	8	White tower; 39.	
4349 <i>M 6542</i>	Ayukawa Ko, breakwater head.	38° 17.6' N 141° 30.3' E	Fl.R. period 3s	24 7	5	Red tower; 15.	
4352 <i>M 6545</i>	Domiki Saki.	38° 14.6' N 141° 30.2' E	Fl.(3)W. period 12s	105 32	12	White tower, two red bands; 33.	F.W. auxiliary light illuminates Inu Iso about 490 meters ESE.
4354 <i>M 6545.7</i>	Hutawatasi Ko.	38° 15.4' N 141° 29.9' E	Fl.G. period 5s	26 8	2	White tower; 16.	
4360 <i>M 6545.5</i>	Azi Sima.	38° 16.6' N 141° 27.6' E	Fl.R. period 4s	43 13	5	Red tower; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-EAST COAST							
4364 M 6541	Nitoda Ko, breakwater.	38° 17.8' N 141° 25.6' E	Fl.G. period 4s	36 11	3	White tower; 28.	
4366 M 6540.5	Rikazen Odomari Ko.	38° 18.1' N 141° 25.5' E	Fl.G. period 3s	33 10	3	White tower; 21.	
4368 M 6540	Nigishiro Saki.	38° 18.5' N 141° 25.3' E	Fl.(2)W. period 7s	157 48	7	White tower; 33.	
4372 M 6538	Oginohama Ko, on Kitsuneana Saki.	38° 22.0' N 141° 26.0' E	Fl.W. period 3s	121 37	5	White round concrete tower; 30.	
4376 M 6537	-Momonoura Ko, breakwater, head.	38° 23.6' N 141° 26.0' E	Fl.(2)G. period 8s	23 7	5	White tower; 15.	
4380 M 6534	Watanoaha, O Saki.	38° 23.0' N 141° 22.0' E	Fl.W. period 5s	118 36	5	White round concrete tower; 39.	
4384 M 6535.2	Watanoha Ko Nagahama, breakwater.	38° 24.0' N 141° 22.0' E	F.Fl.G. period 6s	39 12	F. 1 Fl. 3	White round concrete tower; 26.	
4400 M 6533.4	-Gyoko, N. breakwater, head.	38° 24.6' N 141° 20.4' E	Fl.R. period 3s	36 11	3	Red concrete column; 33.	
4404 M 6533.6	--E. breakwater, head.	38° 24.1' N 141° 20.7' E	Fl.G. period 4s	36 11	5	White tower; 33.	
4408 M 6533	Ishinomaki Ko, W. breakwater, head.	38° 24.4' N 141° 18.8' E	Iso.G. period 4s	36 11	5	White round concrete tower; 36.	
4412 M 6532	-E. breakwater, S. head.	38° 24.4' N 141° 18.9' E	Fl.R. period 4s	32 10	5	Red octagonal concrete tower; 33.	
ISHINOMAKI KO:							
-Gyoko:							
4416 M 6533.8	--Range, front.	38° 24.9' N 141° 20.8' E	Fr.R.	39 12	7	Metal post, white triangular daymark point up; 31.	
4420 M 6533.81	--Rear, 68 meters 001°18' from front.	38° 24.9' N 141° 20.8' E	Fr.R.	62 19	7	Metal post, white triangular daymark point up; 59.	
4424 M 6531	-Breakwater, head.	38° 23.9' N 141° 15.9' E	Fl.(2)R. period 6s	36 11	4	Red tower; 33.	
4428 M 6530	Matushima AVIATION LIGHT.	38° 25.0' N 141° 13.2' E	Al.Fl.(2+1)W.G. period 10s			Framework structure.	
4432 M 6520	Ha Shima.	38° 18.7' N 141° 11.3' E	Fl.W. period 3s	118 36	7	White round concrete tower; 39.	
4434 M 6520.5	Miyato Sima, breakwater.	38° 19.4' N 141° 10.2' E	Fl.R. period 4s	27 8	2	Red tower; 16.	
4442 M 6523	-Outer breakwater.	38° 19.2' N 141° 03.3' E	Fl.R. period 4s	24 7	4	Red tower; 19.	
4444 M 6522	Jizo Shima.	38° 19.2' N 141° 04.5' E	Fl.W. period 4s	66 20	5	White octagonal stone tower; 36.	
4448 M 6521.4	Siogama Ko, Hanabuti, breakwater.	38° 18.2' N 141° 05.2' E	Iso.G. period 6s	30 9	4	White tower; 22.	
4452 M 6521	Hanabuchi.	38° 17.0' N 141° 05.0' E	Al.Fl.(2)R.G. period 20s	207 63	R. 18 G. 17	White round concrete tower; 75. Visible 172°-050°.	
4454 M 6521.5	Siogama Kobama A.	38° 18.1' N 141° 05.5' E	Fl.G. period 3s	26 8	3	White tower; 15.	
4456 M 6521.35	Sendai Ku.	38° 17.0' N 141° 04.0' E	Fl.(3)R. period 12s	36 11	3	Red tower; 30.	
4457 M 6521.25	-N. detached breakwater, S. head.	38° 16.0' N 141° 03.7' E	Fl.R. period 4s	43 13	4	Red tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-EAST COAST							
4457.5 <i>M 6521.05</i>	-S. breakwater, E. head.	38° 15.8' N 141° 04.1' E	Fl.G. period 4s	49 15	7	White tower; 39.	
4458 <i>M 6521.32</i>	Siogama Ko Matugahama, breakwater.	38° 16.4' N 141° 03.2' E	Fl.R. period 3s	33 10	4	Red tower; 22.	
4460 <i>M 6521.2</i>	-N. breakwater, S. head.	38° 16.2' N 141° 02.5' E	Fl.(2)R. period 6s	52 16	4	Red tower; 46.	
4464 <i>M 6521.1</i>	-Sendai, S. breakwater, head.	38° 15.9' N 141° 02.8' E	Fl.(2)G. period 6s	56 17	5	White tower; 46.	
4472 <i>M 6518</i>	Yuriage Ko, Training Wall.	38° 10.0' N 140° 58.0' E	Fl.G. period 4s	52 16	7	White round concrete tower; 36.	
4476 <i>M 6517.5</i>	Yanoma AVIATION LIGHT.	38° 08.0' N 140° 55.0' E	Al.FI.W.G. period 4.3s	56 17	W. 3 G. 1	Metal framework tower; 49.	
4478 <i>M 6517.47</i>	Soma Ko, breakwater, NE. head.	37° 51.9' N 140° 58.8' E	Fl.(2)G. period 6s	46 14	5	White tower; 39.	
4479 <i>M 6517.46</i>	-N. breakwater, head.	37° 51.4' N 140° 58.3' E	Fl.(2)R. period 6s	30 9	5	Red tower; 30.	
4480 <i>M 6517.4</i>	Soma Ko.	37° 50.5' N 140° 58.3' E	Fl.G. period 3s	43 13	4	White tower; 33.	
4484 <i>M 6517.45</i>	-E. breakwater, head.	37° 50.3' N 140° 57.9' E	Fl.R. period 3s	33 10	4	Red round concrete tower; 22.	
4488 <i>M 6517</i>	Matukawura Ko, S. breakwater.	37° 50.2' N 140° 58.6' E	Fl.G. period 4s	49 15	5	White tower; 31.	
4496 <i>M 6516</i>	Unoo Zaki.	37° 49.0' N 140° 59.0' E	Fl.W. period 10s	131 40	17	White square concrete tower; 49.	
4497 <i>M 6516.85</i>	Tohokundenryoku.	37° 40.2' N 141° 01.9' E	Dir.W.R.G. period 8s fl. 6s, ec. 2s	36 11	W. 7 R. 6 G. 6	White tower; 23.	Oc.R. 311°-313°30', Oc.W.- 316°30', Oc.G.-319°. Emergency light W. 2M, R. 1M, G. 1M.
4498 <i>M 6516.8</i>	Haramati, breakwater.	37° 39.8' N 141° 02.2' E	Fl.G. period 5s	56 17	4	White tower; 29.	
4499 <i>M 6516.7</i>	-E. breakwater.	37° 39.7' N 141° 02.7' E	Fl.R. period 5s	59 18	7	Red tower; 32.	
4500 <i>M 6515.4</i>	Toden Hukusima, S. breakwater, head.	37° 25.2' N 141° 02.7' E	Iso.G. period 6s	49 15	10	White round concrete tower; 36.	
4504 <i>M 6515</i>	Oragahama.	37° 21.6' N 141° 02.5' E	Fl.W. period 8s	134 41	17	White round concrete tower; 39.	
4508 <i>M 6515.2</i>	Yotukura Ko, northward.	37° 19.0' N 141° 02.5' E	Fl.(2)G. period 9s	52 16	7	White tower; 39.	
4512 <i>M 6514.96</i>	Hisanohoma Ko Range, front.	37° 14.0' N 141° 01.0' E	F.Y.	180 55	14	White triangular daymark point up; 17.	Occasional.
4516 <i>M 6514.97</i>	-Rear, 255°12' from front.	37° 14.6' N 141° 00.8' E	F.Y.	223 68	14	White triangular daymark point down; 39.	Occasional.
4520 <i>M 6514.95</i>	Toden Hiro, breakwater.	37° 14.3' N 141° 01.7' E	Iso.G. period 6s	56 17	7	White tower; 43.	
4524 <i>M 6514.6</i>	Hisanohama Ko, N. breakwater head.	37° 09.0' N 141° 00.0' E	Iso.R. period 8s	49 15	5	Red round concrete tower; 36.	
4528 <i>M 6514.9</i>	-S. breakwater, N. head.	37° 08.6' N 141° 00.6' E	Fl.G. period 4s	49 15	5	White round concrete tower; 36.	
4532 <i>M 6514.8</i>	W. breakwater.	37° 08.8' N 141° 00.5' E	Fl.(2)R. period 6s	39 12	5	Red tower; 23.	
4536 <i>M 6514.2</i>	Yotsukura Ko Oki, S. detached breakwater.	37° 06.5' N 141° 00.1' E	Fl.(2)G. period 6s	34 10	7	White round concrete tower; 26.	
4542 <i>M 6514.3</i>	-Detached breakwater, S. head.	37° 06.5' N 141° 00.2' E	Fl.(2)R. period 6s	43 13	3	Red tower; 29.	

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JAPAN-HONSHU-EAST COAST							
4550 <i>M 6513</i>	Toyoma Ko, detached breakwater.	37° 00.5' N 140° 59.1' E	Fl.(3)G. period 12s	39 12	3	White tower; 27.	
4552 <i>M 6512</i>	Shioya Misaki.	36° 59.7' N 140° 58.9' E	Fl.W. period 15s	240 73	22	White round concrete tower; 89.	
4556 <i>M 6511</i>	Toyoma Ko, outer breakwater, head.	36° 59.5' N 140° 58.9' E	Fl.(2)G. period 6s	46 14	3	White tower; 33.	
4560 <i>M 6508</i>	Ena Ko, W. breakwater, head.	36° 58.1' N 140° 57.7' E	Fl.G. period 5s	49 15	4	White round concrete tower; 43.	
4564 <i>M 6509.6</i>	-Offing breakwater, S. head.	36° 57.7' N 140° 58.3' E	Fl.R. period 3s	49 15	5	Red round concrete structure; 36.	
4580 <i>M 6507.4</i>	Nakanosaki Ko, E. breakwater.	36° 57.4' N 140° 57.2' E	Fl.R. period 3s	33 10	5	Red round concrete tower; 24.	
4584 <i>M 6507</i>	-Basin, W. breakwater.	36° 57.4' N 140° 57.3' E	Fl.G. period 3s	33 10	3	White round concrete tower; 28.	
4588 <i>M 6505.6</i>	-Offing, E. breakwater.	36° 57.0' N 140° 57.0' E	Fl.(2)R. period 8s	46 14	5	Red round concrete tower; 36.	
4592 <i>M 6505.4</i>	-Offing, W. breakwater.	36° 57.2' N 140° 57.4' E	Fl.(2)G. period 6s	46 14	3	White tower; 33.	
4604 <i>M 6505</i>	Ryugasaki Hana.	36° 57.0' N 140° 57.2' E	Fl.W. period 3s	49 15	10	White tower; 52.	
4608 <i>M 6504</i>	Bandokoro.	36° 56.0' N 140° 55.7' E	Iso.W. period 6s	115 35	8	White round concrete tower; 36.	
ONAHAMA KO:							
4612 <i>M 6500.4</i>	-E. breakwater, S. head.	36° 56.0' N 140° 55.0' E	Fl.(2)R. period 6s	46 14	5	Red round concrete tower; 33.	
4620 <i>M 6500.6</i>	-Misaki breakwater.	36° 56.0' N 140° 54.7' E	Fl.(2)G. period 6s	46 14	3	White round concrete tower; 33.	
4624 <i>M 6502</i>	-Inner breakwater.	36° 56.4' N 140° 54.8' E	Iso.R. period 6s	33 10	4	Red round concrete tower; 26.	
4632 <i>M 6499.8</i>	-S. breakwater, W. head.	36° 54.3' N 140° 53.2' E	Fl.(2)R. period 7s	62 19	7	Red tower; 52.	
4636 <i>M 6500</i>	-No 2, W. breakwater.	36° 55.1' N 140° 53.2' E	Fl.G. period 5s	49 15	3	White metal framework tower, square concrete base; 39.	
4640 <i>M 6503</i>	-Huzi Kosan Sea berth.	36° 55.2' N 140° 52.8' E	Mo.(U)W. period 10s	95 29	11		Auxiliary lights Mo.(U)R. 180 meters E. and 185 meters WSW. Horn: 2 bl. ev. 20s. Radar reflector.
4644 <i>M 6502.8</i>	-Hassaki, breakwater.	36° 54.6' N 140° 52.1' E	Fl.(3)G. period 13s	56 17	3	White round concrete tower; 43.	
4648 <i>M 6503.5</i>	-Hassaki, outer breakwater, W. head.	36° 54.6' N 140° 52.1' E	Fl.R. period 3s	56 17	5	Red round concrete tower; 43.	
4652 <i>M 6499</i>	Nakoso Ko.	36° 51.7' N 140° 47.6' E	Fl.G. period 5s	43 13	3	White round concrete tower; 30.	
4656 <i>M 6498.2</i>	Hirakata Ko, S. breakwater.	36° 51.6' N 140° 48.0' E	Fl.(2)G. period 6s	49 15	7	White concrete tower; 28.	
4660 <i>M 6496.6</i>	Otsu Misaki.	36° 49.6' N 140° 48.4' E	Fl.W. period 8s	184 56	20	White tower; 52.	Visible 180°-060°.
4664 <i>M 6497</i>	Otsu Ko breakwater, near Otsu Hana.	36° 49.4' N 140° 47.5' E	Fl.R. period 3s	43 13	5	Red round metal tower; 28.	
4668 <i>M 6496.3</i>	Kawajiri.	36° 39.3' N 140° 42.5' E	Iso.W. period 6s	157 48	12	White round concrete tower; 56.	Visible 213°-013°.

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JAPAN-HONSHU-EAST COAST							
4672 <i>M 6496.2</i>	-Kawajiri, S. breakwater, head.	36° 38.8' N 140° 42.4' E	Fl.G. period 3s	49 15	3	White tower; 33.	
4676 <i>M 6496.1</i>	Ose Ko, breakwater.	36° 34.6' N 140° 39.6' E	Iso.R. period 4s	33 10	4	Red round concrete tower; 28.	
4680 <i>M 6496.04</i>	Moto-Kawarago Ko, S. breakwater.	36° 32.2' N 140° 39.1' E	F.Fl.R. period 5s	39 12	F. 2 Fl. 5	Red round concrete tower; 27.	
4684 <i>M 6495.9</i>	Kuji Ko, N. breakwater.	36° 29.9' N 140° 37.7' E	Fl.R. period 3s	43 13	4	Red round concrete tower; 31.	
4688 <i>M 6495.8</i>	Hitachi.	36° 30.0' N 140° 38.0' E	Fl.(3)W. period 25s	138 42	12	White round concrete tower; 82.	Visible 194°-029°.
4692 <i>M 6496</i>	-W. breakwater, head.	36° 29.0' N 140° 37.7' E	Fl.(2)G. period 7s	62 19	4	White tower; 52.	
4696 <i>M 6496.03</i>	-SE. breakwater, head.	36° 28.9' N 140° 38.0' E	Fl.R. period 6s	59 18	7	Red round concrete tower; 52.	
4700 <i>M 6496.02</i>	Tokai Nuclear Plant, N. breakwater, head.	36° 27.9' N 140° 37.0' E	Fl.R. period 4s	46 14	8	Red round concrete tower; 31.	
4702 <i>M 6495.6</i>	Hitati Isozaki Ko.	36° 23.2' N 140° 37.4' E	Fl.G. period 3s	36 11	3	White round concrete tower; 21.	
4704 <i>M 6495.5</i>	Isozaki Misaki.	36° 22.8' N 140° 37.6' E	Fl.W. period 12s	118 36	17	White tower; 49.	Visible 198°-358°.
	RACON				20		
4708 <i>M 6495.3</i>	Naka-Minato Ko, S. breakwater.	36° 20.0' N 140° 36.3' E	Fl.(2)G. period 9s	46 14	3	White tower; 31.	
4710 <i>M 6495.45</i>	-Approach.	36° 21.2' N 140° 36.8' E	Fl.(2)R. period 6s	29 9	4	Red tower; 19.	
4720 <i>M 6495</i>	-E. breakwater.	36° 20.3' N 140° 36.1' E	Fl.(2)R. period 9s	46 14	3	Red tower; 31.	
4728 <i>M 6495.4</i>	-Naka-Minato Ko, breakwater.	36° 20.2' N 140° 36.3' E	Fl.R. period 3s	46 14	5	Red round concrete tower; 33.	
4732 <i>M 6494.2</i>	Oarai Misaki.	36° 17.4' N 140° 35.2' E	Fl.R. period 4s	49 15	7	Red tower; 30.	
4740 <i>M 6493.2</i>	Kashima.	35° 59.6' N 140° 38.9' E	Fl.W. period 5s	207 63	19	White round concrete tower; 105.	Visible 160°-329°.
4741 <i>M 6492.4</i>	-Kashima Ko.	35° 57.2' N 140° 41.4' E	Dir.W.R.G.	56 17	13	White tower, two red bands; 52.	F.R. 218°18'-220°18', F.W.-224°18', F.G.-226°18'. Range W. 5M, R. 4M, G. 4M by day.
			Iso.R.G. period 4s		13		R. 216°18'-218°18', G. 226°18'-228°18'. Range 4M by day.
4744 <i>M 6492</i>	-S. breakwater, head.	35° 57.5' N 140° 42.8' E	Fl.W. period 3s	52 16	7	White square metal framework structure; 36.	
4750 <i>M 6491.4</i>	-Range, front.	35° 55.5' N 140° 42.3' E	F.G.	82 25	11	White round concrete tower; 72.	F.W. 4M by day.
4750.1 <i>M 6491.41</i>	--Rear, 200 meters 183°30' from front.	35° 55.3' N 140° 42.3' E	F.G.	102 31	11	White round concrete tower; 89.	F.W. 4M by day.
CHOSHI KO:							
4752 <i>M 6482</i>	-Ichino Shima, head of breakwater, S. side of entrance to Tone Gawa.	35° 44.9' N 140° 51.4' E	Iso.W. period 6s	53 16	13	White tower; 52.	
4756 <i>M 6483</i>	-W. breakwater.	35° 44.9' N 140° 51.6' E	F.Fl.R. period 4s	43 13	F. 6 Fl. 10	Red square metal framework tower; 32.	

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JAPAN-HONSHU-EAST COAST							
4760 <i>M 6483.4</i>	-Middle breakwater.	35° 44.7' N 140° 51.5' E	F.R.	39 12	7	Red round concrete tower; 33.	Visible 205°-065°.
4764 <i>M 6482.4</i>	-Tyosi Ko, E. breakwater, head.	35° 45.0' N 140° 51.6' E	Fl.G. period 3s	49 15	5	White round concrete tower; 39.	
4768 <i>M 6482.2</i>	-N. breakwater, head.	35° 45.2' N 140° 51.7' E	Fl.(2)G. period 6s	49 15	5	White tower; 33.	
4776 <i>M 6491</i>	-Choshi Ko No 2 Fishery Basin, E. groin, head.	35° 44.2' N 140° 50.4' E	Fl.R. period 5s	23 7	4	Red tower; 19.	
4780 <i>M 6478</i>	Inubo Saki , near SE. extremity of promontory.	35° 42.5' N 140° 52.1' E	Fl.W. period 15s	171 52	19	White round brick tower; 102.	Visible 169°-065°. Storm signal. DGPS Station.
4784 <i>M 6478.4</i>	Nagasaki Hana.	35° 41.6' N 140° 51.9' E	F.W.	75 23		White tower; 67.	
4788 <i>M 6479</i>	Togawa Ko, E. breakwater, head.	35° 41.6' N 140° 51.0' E	Fl.R. period 4s	43 13	5	Red tower; 27.	
4796 <i>M 6477</i>	Iioka.	35° 41.6' N 140° 44.4' E	Iso.W. period 6s	243 74	12	White tower; 31.	Visible 113°-271°.
4800 <i>M 6472</i>	Taito Saki.	35° 18.5' N 140° 24.8' E	Fl.W. period 10s	236 72	20	White tower; 52.	
4804 <i>M 6471.1</i>	Ohara Ko Range No 1, front.	35° 15.4' N 140° 24.2' E	F.G.	39 12	10	White round concrete tower, white triangular daymark point up; 36.	
4808 <i>M 6471.11</i>	-Rear, 46 meters 261°54' from front.	35° 15.4' N 140° 24.2' E	F.G.	46 14	10	White round tower, white triangular daymark point up; 43.	
4812 <i>M 6471.03</i>	Ohara Ko, N. breakwater.	35° 15.3' N 140° 24.3' E	Iso.R. period 4s	29 9	4	Red tower; 18.	
4816 <i>M 6471</i>	-E. breakwater, N. end.	35° 15.3' N 140° 24.4' E	Fl.G. period 4s	46 14	5	White round concrete tower; 33.	
4818 <i>M 6470.9</i>	-Breakwater, head.	35° 15.4' N 140° 24.5' E	Fl.(2)G. period 6s	46 14	5	White tower; 32.	
4824 <i>M 6470.7</i>	Iwawada Ko, breakwater.	35° 10.7' N 140° 22.0' E	Fl.R. period 3s	33 10	5	Red tower; 21.	
4826 <i>M 6470.8</i>	Onzyuku Ko.	35° 10.7' N 140° 21.0' E	Fl.G. period 3s	27 8	3	White tower; 18.	
4828 <i>M 6470.2</i>	Kazuea Toyohama Ko, breakwater.	35° 09.2' N 140° 20.0' E	Iso.G. period 4s	39 12	5	White tower; 31.	
4832 <i>M 6470.3</i>	Kawatzu Ko, S. Breakwater.	35° 08.7' N 140° 19.7' E	F.Fl.G. period 5s	33 10	F. 2 Fl. 5	White tower; 28.	
4836 <i>M 6470</i>	Katuura.	35° 08.3' N 140° 19.2' E	Fl.(2)W. period 20s	233 71	22	White tower; 69.	Visible 229°-073°.
4840 <i>M 6470.14</i>	-S. breakwater.	35° 08.4' N 140° 19.8' E	Iso.R. period 6s	39 12	5	Red tower; 28.	
4844 <i>M 6470.1</i>	-W. breakwater.	35° 08.6' N 140° 18.6' E	Iso.G. period 6s	36 11	4	White tower; 30.	
KAMOGAWA WAN:							
4848 <i>M 6469</i>	-Kominato Ko, on Hira Shima.	35° 07.2' N 140° 11.6' E	Fl.R. period 3s	31 9	5	Tower; 26.	
4852 <i>M 6469.2</i>	--E. breakwater, head.	35° 07.2' N 140° 11.9' E	Oc.W. period 8s	33 10	11	White tower, black band; 28.	
4856 <i>M 6469.4</i>	--N. breakwater, head.	35° 07.3' N 140° 11.7' E	F.Fl.G. period 4s	36 11	F. 1 Fl. 3	White tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-EAST COAST							
4860 <i>M 6468.4</i>	-Amatsu Ko Range, front.	35° 07.4' N 140° 09.5' E	F.R.		72 22	7	White tower, square daymark; 43.
4864 <i>M 6468.41</i>	--Rear, 80 meters 329°18' from front.	35° 07.2' N 140° 09.7' E	F.R.		203 62	7	White round concrete tower, square daymark; 19.
4868 <i>M 6468.2</i>	--W. breakwater.	35° 08.0' N 140° 09.8' E	Fl.(2)G. period 6s		39 12	5	White tower; 27.
4872 <i>M 6468</i>	--S. breakwater.	35° 07.2' N 140° 09.6' E	Fl.(2)R. period 6s		43 13	3	Red tower; 31.
4876 <i>M 6467.4</i>	Hamogi Ko, breakwater.	35° 07.0' N 140° 08.6' E	Fl.R. period 4s		39 12	5	Red round concrete tower; 27.
4880 <i>M 6466</i>	Kamogawa, on Ara Shima.	35° 05.6' N 140° 06.6' E	Fl.(3)W. period 13s		85 26	12	White tower; 36.
4882 <i>M 6466.6</i>	Kamogawa Ko.	35° 05.4' N 140° 06.7' E	Fl.R. period 3s		39 12	5	Red tower; 27.
4888 <i>M 6465</i>	Emi Ko Mai Shima.	35° 03.5' N 140° 03.8' E	Fl.(2)R. period 6s		36 11	5	Red round concrete tower; 30.
4890 <i>M 6463</i>	Wado Ko.	35° 02.0' N 140° 00.8' E	Fl.R. period 4s		42 13	7	Red tower; 31.
4892 <i>M 6465.4</i>	Hamanabuto Ko, breakwater.	35° 04.6' N 140° 06.1' E	F.Fl.W. period 5s		39 12	F. 2 Fl. 5	White tower; 28. FW. also lights reef 70 meters S.
4900 <i>M 6461</i>	-Middle breakwater, head.	34° 57.5' N 139° 57.9' E	Fl.(2)R. period 8s		36 11	5	Red round concrete tower; 31.
4904 <i>M 6462</i>	-Chikura.	34° 57.4' N 139° 57.8' E	Dir.W.R.G.		39 12	W. 8 R. 7 G. 8	White round concrete tower; 43. F.R. 228°30'-230°30', F.W.-232°30', F.G.-234°30'. Iso.Y. 4s above main light. Emergency light W. 2M, R. 1M, G. 2M.
4912 <i>M 6459</i>	Nanaura Ko Range, front.	34° 56.0' N 139° 57.3' E	F.G.		36 11	10	White round concrete tower, white square daymark; 33.
4916 <i>M 6459.1</i>	-Rear, 116 meters 289°36' from front.	34° 55.8' N 139° 57.4' E	F.G.		49 15	10	White round concrete tower, white square daymark; 39.
JAPAN-NANPO SHOTO							
4920 <i>M 6276</i>	Miyake Jima, NW. point of island.	34° 06.7' N 139° 29.4' E	Fl.W. period 5s		79 24	12	White square stone tower; 33. Visible 352°-202°.
4922 <i>M 6275.5</i>	-Yunohama Ko.	34° 07.5' N 139° 31.9' E	Oc.G. period 8s lt. 6s, ec. 2s		46 14	3	White tower; 27.
4924 <i>M 6275</i>	-Satado Misaki	34° 05.6' N 139° 33.9' E	Fl.W. period 15s		118 36	17	White round concrete tower; 46. Visible 180°-008°.
4928 <i>M 6276.1</i>	Izu Miyake Ko, jetty.	34° 04.8' N 139° 34.0' E	Fl.W. period 3s		56 17	7	White round concrete tower; 49.
4932 <i>M 6276.4</i>	Tsubota Ko, breakwater.	34° 03.4' N 139° 32.7' E	Fl.G. period 3s		66 20	3	White round concrete tower; 29.
4938 <i>M 6276.3</i>	-Breakwater, head.	34° 04.1' N 139° 28.6' E	Fl.W. period 3s		52 16	7	White tower; 33.
4939 <i>M 6276.6</i>	Mikura Sima, breakwater.	33° 53.8' N 139° 35.2' E	Fl.R. period 4s		39 12	3	Red tower; 22.
4940 <i>M 6279.6</i>	Ogosi Hana.	33° 09.3' N 139° 44.9' E	Fl.(2)W. period 20s		325 99	12	White round concrete tower; 49. Visible 024°-258°.
4948 <i>M 6278.1</i>	-Kaminato Anchorage.	33° 08.0' N 139° 48.4' E	Iso.G. period 4s		55 17	8	White tower; 30.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-NANPO SHOTO							
4950 <i>M 6278.5</i>	-Sokodo Hakuti, breakwater.	33° 07.4' N 139° 49.4' E	Fl.W. period 3s	52 16	7	White tower; 33.	
4952 <i>M 6277</i>	-Ishizumiga Hana.	33° 04.8' N 139° 51.3' E	Fl.W. period 10s	315 96	24	White round concrete tower; 56.	Radiobeacon 360 meters WNW. DGPS Station 360 meters WNW.
4956 <i>M 6277.4</i>	-Yaene Ko, breakwater, head.	33° 05.9' N 139° 46.5' E	Iso.G. period 6s	49 15	8	White tower; 28.	
Ogasawara Gunto:							
4960 <i>M 8348</i>	-Futami Ko, breakwater.	27° 05.6' N 142° 11.7' E	Oc.G. period 8s lt. 6s, ec. 2s	33 10	8	White tower; 30.	
4962 <i>M 8347</i>	-E. breakwater.	27° 05.8' N 142° 12.0' E	Fl.(2)R. period 6s	30 9	4	Red tower; 19.	
4964 <i>M 8346</i>	-Futami Ko.	27° 04.8' N 142° 12.5' E	Fl.W. period 4s	230 70	12	White tower; 33.	
4968 <i>M 8346</i>	-Futami Ko, entrance.	27° 04.8' N 142° 12.5' E	Dir.W.R.G.	213 65	W. 13 R. 10 G. 10	White tower; 33.	F.R. 083°12'-087°12', F.W.- 090°12', F.G.-094°12'.
4972 <i>M 8350</i>	Haha Shima Approach.	26° 38.0' N 142° 09.8' E	Dir.W.R.G.	131 40	W. 13 R. 9 G. 10	White round concrete tower; 36.	F.R. 063°54'-068°54', F.W.- 075°54', F.G.-080°54'.
4974 <i>M 8351</i>	-Breakwater, head.	26° 38.1' N 142° 09.5' E	Fl.G. period 3s	36 11	7	White tower; 31.	
KAZAN RETTO (VOLCANO ISLANDS):							
4976 <i>M 8360</i>	-Ito To AVIATION LIGHT.	24° 46.8' N 141° 19.4' E	Al.FI.W.G. period 2s	367 112	W. 10 G. 6		
JAPAN-HONSHU-EAST COAST							
4980 <i>M 6458</i>	Awa Shirahama Ko.	34° 54.9' N 139° 56.1' E	F.FI.W.R. period 5s	36 11	F. 6 Fl. 10	White round concrete tower; 31.	W. 085°-325°, R.-085°.
4984 <i>M 6457</i>	Otohamo Ko Range, front.	34° 54.7' N 139° 55.7' E	F.G.	24 7	8	White tower; 22.	
4988 <i>M 6457.1</i>	-Rear, about 1280 meters 271°54' from front.	34° 54.5' N 139° 55.8' E	F.G.	39 12	8	White tower; 30.	
4990 <i>M 6457.4</i>	Otohamo Ko.	34° 54.6' N 139° 55.7' E	Fl.R. period 3s	56 17	3	Red tower; 32.	
4992 <i>M 6456</i>	Najima Saki.	34° 54.1' N 139° 53.3' E	Fl.W.R. period 15s	125 38	17	White octagonal concrete tower; 95.	W. 254°-080°, R.-101°.
RAMARK							
5000 <i>M 6455</i>	Tomisaki Ko, S. breakwater, head.	34° 55.2' N 139° 49.4' E	F.FI.R. period 6s	33 10	F. 2 Fl. 5	Red tower; 27.	
5004 <i>M 6452</i>	Suno Saki.	34° 58.5' N 139° 45.5' E	Al.FI.W.R. period 30s	146 44	18	White tower; 49.	Visible 002°-252°.
TATEYAMA WAN:							
5012 <i>M 6451</i>	-Tateyama Ko, breakwater, head.	34° 59.3' N 139° 50.9' E	Fl.G. period 3s	36 11	5	White tower; 26.	
5016 <i>M 6451.2</i>	--Heliport AVIATION LIGHT.	34° 59.1' N 139° 50.4' E	Al.FI.W.G. period 10s	59 18	W. 9 G. 6	Metal framework tower.	Maintained by National Defense Agency.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-EAST COAST							
5020 <i>M 6448</i>	-Funagata Ko, breakwater, head.	35° 01.3' N 139° 50.7' E	Fl.(2)G. period 6s	33 10	5	White tower; 23.	
5024 <i>M 6448.4</i>	--E. breakwater, head.	35° 01.4' N 139° 50.8' E	Iso.R. period 6s	30 9	5	Red round concrete tower; 28.	
5028 <i>M 6447</i>	-Hunagata Hira Sima.	35° 01.5' N 139° 50.3' E	Fl.W. period 4s	36 11	5	White round concrete tower; 31.	
5030 <i>M 6446.5</i>	Tomiura Wan, breakwater.	35° 02.5' N 139° 49.3' E	Fl.(2)R. period 6s	26 8	5	Red tower; 19.	
5036 <i>M 6445.5</i>	Kachiyama Ko, N. breakwater.	35° 06.6' N 139° 49.6' E	Fl.R. period 5s	39 12	5	Red tower; 30.	
5040 <i>M 6445</i>	Hota Ko, breakwater.	35° 08.0' N 139° 50.1' E	F.Fl.G. period 5s	33 10	F. 2 Fl. 5	White round concrete tower; 27.	
5044 <i>M 6354</i>	Tsurugi Saki.	35° 08.5' N 139° 40.6' E	Al.Fl.(2+1)W.G. period 30s	133 41	17	White octagonal concrete tower; 56.	Visible 207°-075°.
5048 <i>M 6354.3</i>	Makuchi Ko.	35° 08.6' N 139° 40.7' E	Fl.W. period 4s	36 11	5	White tower; 32.	
5051 <i>M 6444.5</i>	Kanaya Ko, W. breakwater.	35° 09.9' N 139° 49.2' E	Iso.R. period 6s	33 10	4	Red concrete tower; 18.	
5052 <i>M 6444</i>	Hamakanaya Ko, breakwater.	35° 10.2' N 139° 49.0' E	F.Fl.R. period 5s	30 9	F. 4 Fl. 7	Red round concrete tower; 27.	
5052.5 <i>M 6443.9</i>	Hagyu Ko.	35° 12.0' N 139° 49.6' E	Fl.R. period 3s	20 6	3	Red structure; 16.	
5053 <i>M 6443.8</i>	Takeoka Ko, W. breakwater, head.	35° 12.6' N 139° 50.6' E	Fl.(2)R. period 6s	31 9	4	Red tower; 19.	
5054	<i>Uraga Suido LANBY 1.</i>	35° 12.5' N 139° 46.8' E	Iso.W. period 4s	11	SAFE WATER RW, buoy, topmark.	Radar reflector.	
	RACON		O(---)	5		(3cm).	
5055 <i>M 6359.5</i>	Okubo, breakwater.	35° 16.7' N 139° 50.8' E	Fl.R. period 3s	31 9	3	Red tower; 18.	
5055.5 <i>M 6443.5</i>	Kawana, breakwater, head.	35° 18.0' N 139° 49.5' E	Fl.(2)R. period 6s	43 13	5	Red tower; 31.	
TOKYO WAN:							
5056 <i>M 6355</i>	-Ashika Shima, on rock.	35° 12.7' N 139° 44.1' E	Fl.W. period 3s	49 15	7	White concrete tower, black band; 46.	
5060 <i>M 6357</i>	-Kurihama Wan.	35° 13.3' N 139° 43.2' E	Iso.G. period 6s	43 13	8	White tower; 31.	
5064 <i>M 6358</i>	-Uraga Zyuko Atagoyama Range, front.	35° 14.4' N 139° 43.2' E	F.G.	118 36	6	Column, white diamond daymark; 20.	Private light.
5068 <i>M 6358.1</i>	--Rear, 27 meters 291°30' from front.	35° 14.4' N 139° 43.1' E	F.G.	128 39	6	Post, white diamond daymark; 9.	Private light.
5072 <i>M 6359</i>	-Yokosuka Ko.	35° 14.8' N 139° 44.2' E	Fl.G. period 3s	39 12	5	White round concrete tower; 31.	
5076 <i>M 6360</i>	-Kannon Saki.	35° 15.4' N 139° 44.7' E	Fl.(2)W. period 15s	184 56	19	White octagonal concrete tower; 62.	Visible 152°-017°.
5080 <i>M 6362</i>	-Yokosuka Ko Hashirimizu, breakwater.	35° 15.8' N 139° 44.0' E	Fl.G. period 3s	20 6	4	White round concrete tower; 14.	
5084 <i>M 6361</i>	--N. breakwater.	35° 15.9' N 139° 44.0' E	Fl.R. period 3s	36 11	5	Red tower; 22.	
5092 <i>M 6368</i>	-Daini Kaiho (Fort No 2).	35° 18.7' N 139° 44.5' E	Fl.W.R. period 5s	66 20	13	White round metal tower, concrete base; 39.	R. 222°-310°, W.-222°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-EAST COAST							
5094 <i>M 6379.4</i>	-Nakano Se LANBY D.	35° 24.9' N 139° 45.3' E	Mo.(D)R. period 8s	39 12	7	STARBOARD (B) R, beacon, topmark.	Radar reflector.
	-RACON		D(- • •)		5		(3cm).
5095 <i>M 6370.09</i>	-Kisarazu Ko Offing.	35° 25.1' N 139° 47.0' E	Mo.(A)W. period 8s	31 9	5	White beacon, red bands, red circular daymark.	Radar reflector.

Section 4

South Coast of Honshu

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
TOKYO WAN:							
5096 <i>M 6441</i>	-Futtsu N., NE. of Futtsu Saki.	35° 19.5' N 139° 48.7' E	Fl.G. period 3s	20 6	5	PORT (B) G, tower, topmark; 20.	
5100 <i>M 6442</i>	-Futtsu S.	35° 19.2' N 139° 48.8' E	Fl.G. period 5s	23 7	5	PORT (B) G, tower, topmark; 20.	
5104 <i>M 6443</i>	-Futtsu Ko, E. breakwater.	35° 19.1' N 139° 49.0' E	F.Fl.G. period 5s	36 11	F. 1 Fl. 3	White tower; 27.	
5106 <i>M 6440.8</i>	--W. breakwater.	35° 20.1' N 139° 49.3' E	Fl.R. period 3s	26 8	4	Red tower; 19.	
5108 <i>M 6440.6</i>	-Futtsu LNG Tanker berth.	35° 20.5' N 139° 49.4' E	Mo.(U)W. period 10s	95 29	8		Mo.(U)W. 10s 230 meters NNW. and 200 meters SSE.
5110 <i>M 6440.4</i>	-Futtsu Passage, W. breakwater.	35° 20.9' N 139° 49.2' E	Fl.G. period 4s	30 9	4	White tower; 19.	
5116 <i>M 6439.4</i>	--Range, front.	35° 21.7' N 139° 53.1' E	F.G.	52 16	12	Framework tower, triangular daymark point up; 49.	
5120 <i>M 6439.41</i>	--Rear, about 570 meters 120° from front.	35° 21.5' N 139° 53.5' E	F.G.	125 38	12	Framework tower, triangular daymark point up; 121.	
5124 <i>M 6440</i>	--Breakwater, W. end.	35° 22.6' N 139° 51.7' E	Iso.G. period 4s	39 12	5	White round concrete tower; 30.	
-Yokosuka Ko:							
5128 <i>M 6376</i>	--E. breakwater, N. head.	35° 19.7' N 139° 39.8' E	Fl.(2)G. period 8s	33 10	4	White round concrete tower; 29.	
5132 <i>M 6372</i>	--NE. breakwater, E. head.	35° 19.1' N 139° 40.5' E	Fl.R. period 3s	66 20	7	Red square concrete tower; 59.	
5136 <i>M 6378</i>	-Yoshikura, pier, head.	35° 17.4' N 139° 39.2' E	Mo.(U)R. period 10s	33 10	6	Red round tower; 19.	
5140 <i>M 6377</i>	--W. breakwater, E. head.	35° 17.3' N 139° 41.1' E	Fl.(2)R. period 6s	43 13	7	Red round concrete structure; 33.	
5141 <i>M 6377.5</i>	--Breakwater, NW. head.	35° 16.4' N 139° 41.3' E	Fl.G. period 3s	27 8	4	White tower; 19.	
5142 <i>M 6377.25</i>	Yokosuka Ko, Otsu Wan, breakwater.	35° 16.5' N 139° 41.2' E	Iso.R. period 4s	43 13	8	Red tower; 32.	
-Yokohama Ko:							
5144 <i>M 6380</i>	--Kanazawa, E. breakwater, head.	35° 22.7' N 139° 39.5' E	Iso.G. period 4s	43 13	5	White tower; 33.	
5146 <i>M 6390</i>	--S. Honmoku Wharf, breakwater.	35° 23.7' N 139° 40.7' E	Fl.R. period 3s	22 7	4	Red tower; 8.	
5147 <i>M 6395</i>	--Minami Honmoku.	35° 24.2' N 139° 41.0' E	Dir.F.W.R.G.	32 10	W. 8 R. 7 G. 8	White tower; 23.	F.R. 042°-044°30', F.W.- 046°30', F.G.-049°. Range 2/1M by day.
5148 <i>M 6400.6</i>	--Nittu Honmoku Wharf Range, front.	35° 25.2' N 139° 40.7' E	F.Or.	69 21	11	Red mast, white bands, red triangular daymark point up; 59.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
5152 <i>M 6400.61</i>	--Rear, 200 meters 268° from front.	35° 25.2' N 139° 40.6' E	F.Or.	85 26	11	Red mast, white bands, red triangular daymark point up; 75.	
5156 <i>M 6401</i>	--Nissan Honmoku Wharf.	35° 25.3' N 139° 40.8' E	Mo.(N)R. period 8s	39 12	9	Red square metal framework tower; 30.	
5160 <i>M 6401.2</i>	--Gravel Wharf, breakwater.	35° 25.5' N 139° 40.9' E	Oc.R. period 4s lt. 3s, ec. 1s	39 12	4	Red tower; 31.	
5164 <i>M 6401.3</i>	--Light A, breakwater, S. head.	35° 25.6' N 139° 41.2' E	Mo.(U)W. period 8s	26 8	7	Yellow structure; 17.	
5168 <i>M 6401.32</i>	--Light B, breakwater, N. head.	35° 25.8' N 139° 41.3' E	Mo.(U)W. period 8s	26 8	7	Yellow structure; 17.	
5170 <i>M 6401.45</i>	--Beacon 1.	35° 26.3' N 139° 41.8' E	Fl.(2)G. period 6s	30 9	5	PORT (B) G, beacon, topmark; 30.	Radar reflector.
5171 <i>M 6401.47</i>	--Beacon 2.	35° 26.6' N 139° 42.1' E	Fl.(2)R. period 6s	31 10	5	STARBOARD (B) R, beacon, topmark; 30	Radar reflector.
5172 <i>M 6401.4</i>	--Honmoku, breakwater.	35° 26.6' N 139° 41.3' E	Iso.G. period 4s	76 23	12	White tower; 72.	
5176 <i>M 6401.6</i>	--Daikoku, breakwater E., head.	35° 27.4' N 139° 42.4' E	Fl.G. period 4s	52 16	10	White round concrete tower; 52.	
5180 <i>M 6401.5</i>	--W. head.	35° 26.9' N 139° 41.6' E	Iso.R. period 4s	75 23	12	Red column; 75.	
5182 <i>M 6401.64</i>	--Turumi Passage, beacon 1.	35° 27.1' N 139° 42.8' E	Fl.G. period 3s	33 10	5	PORT (B) G, beacon, topmark; 33.	Radar reflector.
5184 <i>M 6406</i>	--N. outer breakwater, S. head.	35° 27.4' N 139° 40.5' E	Fl.(2)R. period 8s	66 20	3	Red tower; 79.	
5188 <i>M 6402</i>	--Outer breakwater, S. light.	35° 27.2' N 139° 40.4' E	Fl.(2)G. period 8s	69 21	3	White round concrete tower; 79.	
5192 <i>M 6413</i>	-Lumber basin, breakwater.	35° 26.7' N 139° 39.7' E	Iso.G. period 4s	33 10	3	White round concrete tower; 29.	
5200 <i>M 6411</i>	--N. inner breakwater, S. head.	35° 27.6' N 139° 39.5' E	Iso.R. period 4s	49 15	4	Red tower; 49.	
5204 <i>M 6407</i>	--Daikoku Wharf, W. breakwater.	35° 27.8' N 139° 40.2' E	Fl.R. period 4s	39 12	3	Red tower; 33.	
5210 <i>M 6417.2</i>	-Turumi Passage, A, W. side.	35° 28.6' N 139° 41.7' E	Fl.Y. period 4s	20 6	4	SPECIAL Y, beacon, "X" topmark; 20.	
5211 <i>M 6417.3</i>	--B.	35° 28.5' N 139° 41.1' E	Fl.Y. period 4s	20 6	4	SPECIAL Y, beacon, "X" topmark; 20.	
5212 <i>M 6417.4</i>	--C.	35° 28.4' N 139° 41.0' E	Fl.Y. period 4s	20 6	4	SPECIAL Y, beacon, "X" topmark; 20.	
	-Yokoyama ko:						
5216 <i>M 6418</i>	--Light A.	35° 29.1' N 139° 42.6' E	Fl.R. period 5s	16 5	4	Red metal framework tower; 8.	Private light.
5220 <i>M 6418.2</i>	--Light B.	35° 29.2' N 139° 42.7' E	Fl.R. period 5s	16 5	4	Red metal framework tower; 8.	Private light.
5224 <i>M 6418.4</i>	-Nippon Kokan Ogi Shima Range, front.	35° 29.3' N 139° 44.2' E	F.G.	69 21	12	Red and white metal post, red triangular daymark point up; 66.	
5228 <i>M 6418.41</i>	--Rear, 135 meters 331° from front.	35° 29.4' N 139° 44.2' E	F.G.	89 27	12	Red and white metal post, red triangular daymark point down; 82.	
5232	-Kawasaki Keihin Sea Berth.	35° 27.8' N 139° 46.3' E	Mo.(U)W. period 8s		10	Mooring.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
5236 <i>M 6420</i>	-Tonen-Ogisima.	35° 29.2' N 139° 47.1' E	Mo.(U)W. period 10s	121 37	11		Mo.(U)W. 10s mark berth NE. and SW. Horn: 1 bl. ev. 30s (bl. 3s, si. 27s). Radar reflector.
5241	-Tunnel Platform.	35° 29.5' N 139° 50.1' E	Mo.(U)W. period 10s	98 30	16		Fl.Y. 4s 6M beacons mark dolphins NE. and SW.
5244 <i>M 6419.2</i>	-Higasi Ogisima, breakwater, S. end.	35° 28.9' N 139° 45.0' E	Fl.(2)R. period 6s	59 18	7	Red tower; 52.	
5246 <i>M 6421.8</i>	-Higasi Ogisima, breakwater, N. end.	35° 29.7' N 139° 47.0' E	Iso.G. period 4s	46 14	7	White structure; 33.	
5254 <i>M 6424</i>	-Ukisima.	35° 31.1' N 139° 47.7' E	Al.W.G. period 10s	66 20	W. 6 G. 5		Visible 180°-035°.
	-Haneda:						
5256 <i>M 6426</i>	--Tokyo International Airport, AVIATION LIGHT.	35° 32.7' N 139° 45.8' E	Al.FI.W.G. period 4.3s	151 46	4	Framework tower.	
5268 <i>M 6427.17</i>	--W. breakwater.	35° 35.2' N 139° 47.0' E	Fl.(2)G. period 5s	33 10	7	White tower; 30.	
5272 <i>M 6427.19</i>	-Middle breakwater, W. head.	35° 35.5' N 139° 47.4' E	Fl.(2)R. period 5s	52 16	7	Red tower; 52.	
5284 <i>M 6427.8</i>	--Detached breakwater, W. end.	35° 37.1' N 139° 49.1' E	Fl.R. period 3s	39 12	7	Red tower; 28.	
5288 <i>M 6429</i>	Katunan Ku.	35° 39.8' N 139° 56.2' E	Fl.W. period 3s	23 7	6	White structure; 12.	
5292 <i>M 6428</i>	-Urayasu Offing.	35° 36.6' N 139° 53.9' E	Q.(6)+L.FI.W. period 15s	26 8	7	S. CARDINAL YB, beacon, topmark; 21.	
5296 <i>M 6431</i>	Tiba Ku.	35° 36.7' N 140° 01.4' E	Mo.(U)W. period 9s	59 18	5		Visible 235°-215°. Radar reflector.
5300 <i>M 6432</i>	Chiba Ku.	35° 37.3' N 140° 03.4' E	Fl.G. period 5s	42 13	5	White structure; 28.	
5301 <i>M 6430.5</i>	-N. breakwater.	35° 36.7' N 140° 04.0' E	Fl.W. period 4s	16 5	3	White tower; 11.	
5304 <i>M 6430</i>	-Sea berth.	35° 35.8' N 140° 04.7' E	Mo.(U)W. period 15s	36 11	11		
5308 <i>M 6433</i>	-Tiba.	35° 34.1' N 140° 02.7' E	Fl.(2)W. period 30s	92 28	15	White round metal tower, white square building; 59.	
5312 <i>M 6433.6</i>	-Tiba Ko Itihara, detached breakwater.	35° 33.4' N 140° 04.1' E	Fl.(2)G. period 6s	29 9	5	White round concrete tower; 21.	
5316 <i>M 6434.2</i>	--Breakwater.	35° 33.2' N 140° 04.0' E	Fl.(2)R. period 7s	33 10	7	Red round concrete tower; 28.	
5320 <i>M 6434.5</i>	-Tiba Ko Maruzen Sekima No 1 Sea berth.	35° 32.3' N 140° 03.4' E	Mo.(U)W. period 12s	82 25	12		Mo.(U)W. auxiliary lights about 200 yards NE. and SSW.
5332 <i>M 6435</i>	-Chiba.	35° 30.7' N 139° 56.2' E	Mo.(U)W. period 8s	112 34	12		Mo.(U) 8s lights mark mooring dolphins 240m NE. and SW. Radar reflector.
5336 <i>M 6434.95</i>	-Tiba Ko, Sea berth.	35° 28.4' N 139° 57.8' E	Mo.(U)W. period 15s	33 10	12		
5340 <i>M 6434.9</i>	-Gas Sea berth.	35° 28.5' N 139° 58.2' E	Mo.(U)W. period 10s	33 10	12		
5341	Ukisima Tunnel, E. side, W. limit.	35° 28.2' N 139° 52.0' E	Mo.(K)Y. period 12s	22 7	7	SPECIAL Y, beacon, topmark; 20.	4 Fl.Y. 4s 6M beacons close SE. Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
5342	-E. side, entrance.	35° 27.9' N 139° 52.5' E	Al.W.R. period 10s	121 37	11		Visible 317°-310°.
5343	--Bridge, center.	35° 27.3' N 139° 53.2' E	F.R.G.	118 36	R. 7 G. 8		On NE. and SW. side. Bridge marked by numerous F.W., F.Y., F.G. and F.R. lights.
	--RACON		(- - • • •)		5		(3cm).
5356 <i>M 6434.67</i>	-Tiba Ko, pier, middle.	35° 31.1' N 140° 02.2' E	Mo.(U)W. period 10s	112 34	9		Mo.(U)W. 10s lights mark dolphins NE. and SW. Horn: 1 bl. ev. 30s.
5364 <i>M 6347</i>	Awa Saki.	35° 07.7' N 139° 37.8' E	Fl.W. period 4s	36 11	5	White round concrete tower; 31.	A F.W. is shown about 200 meters SE.
5368 <i>M 6343</i>	Joga Shima.	35° 08.1' N 139° 36.7' E	Fl.W. period 15s	98 30	16	White round concrete tower; 39.	Visible 297°-254°.
5372 <i>M 6344</i>	I Shima.	35° 08.4' N 139° 36.4' E	Fl.R. period 4s	52 16	5	Red tower; 36.	
MISAKI KO:							
5376 <i>M 6345</i>	-W. entrance, N. breakwater, head.	35° 08.4' N 139° 36.5' E	Fl.G. period 4s	42 13	5	White tower; 33.	
5380 <i>M 6349</i>	Misaki Ko, E. entrance, S. breakwater, head.	35° 08.1' N 139° 37.7' E	Iso.G. period 6s	43 13	4	White round concrete tower; 33.	
5384 <i>M 6342</i>	Moroiso Saki.	35° 09.3' N 139° 36.5' E	Iso.W. period 8s	69 21	5	White square concrete tower; 66.	R. light marks breakwater head 185 meters NE.
5388 <i>M 6338</i>	Kamegi Ko.	35° 11.9' N 139° 35.1' E	Q.(9)W. period 15s	46 14	5	W. CARDINAL YBY, tower, topmark; 43.	
5392 <i>M 6339</i>	Nagai Ko, breakwater, head.	35° 12.5' N 139° 36.5' E	Iso.R. period 4s	31 9	5	Red tower; 27.	
5394 <i>M 6340.5</i>	Sazima Ko.	35° 13.1' N 139° 36.5' E	Fl.(2)G. period 6s	27 8	3	White tower; 18.	
5396 <i>M 6340</i>	Sasima Ko Entrance, on Naka Ne.	35° 13.0' N 139° 36.5' E	Fl.G. period 3s	43 13	5	PORT (B) G, tower, topmark; 39.	
5398 <i>M 6336</i>	Hayama Ko.	35° 16.3' N 139° 33.8' E	Fl.W. period 3s	36 11	5	White tower; 33.	
5400 <i>M 6333</i>	Syonan Ko, breakwater.	35° 17.9' N 139° 29.3' E	Iso.G. period 4s	62 19	8	White round metal tower; 59.	
5404 <i>M 6332</i>	Eno Shima.	35° 18.0' N 139° 28.7' E	Fl.W. period 10s	351 107	23	White framework tower; 197.	
5406 <i>M 6329</i>	Hiratuka Oki.	35° 18.3' N 139° 20.8' E	Mo.(U)W. period 8s	66 20	5		
5412 <i>M 6328</i>	Oiso Ko, breakwater, head.	35° 18.3' N 139° 19.2' E	Fl.(2)G. period 6s	46 14	7	White tower; 31.	
5420 <i>M 6326</i>	Odawara Ko, S. breakwater.	35° 14.3' N 139° 09.0' E	Iso.G. period 4s	59 18	5	White round concrete tower; 39.	
5424 <i>M 6323</i>	Manazuru Ko, N. breakwater, head.	35° 09.1' N 139° 08.8' E	Fl.R. period 4s	46 14	7	Red tower; 31.	
5428 <i>M 6318</i>	Fukuura Ko, E. breakwater.	35° 09.0' N 139° 07.9' E	Fl.(2)R. period 6s	40 12	5	Red round concrete tower; 28.	
5432 <i>M 6314</i>	Atami, breakwater, head.	35° 05.7' N 139° 04.9' E	F.Fl.(2)G. period 7s	49 15	F. 4 Fl. 7	White round concrete tower; 33.	
5440 <i>M 6311</i>	-Breakwater, head.	35° 03.0' N 139° 05.3' E	F.Fl.G. period 3s	46 14	F. 2 Fl. 5	White round concrete tower; 31.	

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JAPAN-HONSHU-SOUTH COAST							
5444 <i>M 6309</i>	Hatsu Shima.	35° 02.3' N 139° 10.4' E	Al.F.I.R.G. period 20s	207 63		White tower; 52.	
5448 <i>M 6308</i>	Usami Wan, breakwater.	35° 00.4' N 139° 05.4' E	F.F.I.R. period 6s	36 11	F. 2 Fl. 5	Red round concrete tower; 31.	
5464 <i>M 6304</i>	Kawana Zaki.	34° 57.3' N 139° 08.7' E	Iso.W. period 4s	177 54		White tower; 43.	
5468 <i>M 6303</i>	Kadowaki Saki.	34° 53.4' N 139° 08.3' E	Fl.W. period 10s	144 44		White tower; 82.	
5472 <i>M 6302.4</i>	Yawatano Ko, breakwater.	34° 52.0' N 139° 06.0' E	Fl.G. period 3s	36 11		White tower; 31.	
O SHIMA:							
5476 <i>M 6282</i>	-Izu Oshima.	34° 47.8' N 139° 22.3' E	Fl.(3)W. period 30s	338 103		White tower; 52.	Visible 016°-291°.
-RAMARK							
5480 <i>M 6284</i>	-Okada Ko, breakwater, head.	34° 47.6' N 139° 23.3' E	Fl.(2)G. period 8s	46 14		White tower; 31.	
5486 <i>M 6281.7</i>	-Outer breakwater.	34° 40.9' N 139° 26.6' E	Fl.G. period 4s	43 13		White structure; 23.	
5488 <i>M 6280</i>	-Ryuo Saki.	34° 41.1' N 139° 26.6' E	Fl.W. period 12s	220 67		White tower; 46.	Visible 190°-085°.
5492 <i>M 6281.1</i>	--Range, front, W. side of harbor.	34° 41.2' N 139° 26.2' E	F.R.	52 16		White round concrete tower; 39.	
5496 <i>M 6281.2</i>	---Rear, 100 meters 307°30' from front.	34° 41.2' N 139° 26.2' E	F.R.	66 20		White round concrete tower; 56.	
5500 <i>M 6286</i>	-Motomati Ko, jetty, head.	34° 45.1' N 139° 20.9' E	Fl.G. period 3s	43 13		White round concrete tower; 39.	
5504 <i>M 6300</i>	Inatori Misaki.	34° 46.1' N 139° 02.8' E	Al.F.I.W.G. period 30s	236 72	W. 21 G. 17	White square concrete tower; 62.	Visible 207°-029°.
5512 <i>M 6300.4</i>	-E. breakwater.	34° 46.4' N 139° 02.8' E	Fl.(2)G. period 7s	52 16		White round concrete tower; 31.	
5516 <i>M 6302</i>	-S. breakwater, head.	34° 46.4' N 139° 02.6' E	Fl.G. period 3s	31 9		White round concrete tower; 18.	
5520 <i>M 6300.6</i>	-Inatori Ko.	34° 46.4' N 139° 02.7' E	Fl.R. period 3s	46 14		Red round concrete structure; 36.	
5522 <i>M 6297</i>	Harada.	34° 42.4' N 138° 58.8' E	Fl.G. period 4s	30 9		White structure; 16.	
5524 <i>M 6296</i>	Tsumeki Saki.	34° 39.5' N 138° 59.2' E	Fl.W. period 4s	125 38		White round concrete tower; 56.	Visible 180°-062°.
5528 <i>M 6295</i>	Suzaki Ko, detached breakwater.	34° 39.3' N 138° 58.1' E	Oc.R. period 5s lt. 4s, ec. 1s	33 10		Red round concrete tower; 30.	
5532 <i>M 6294</i>	Yebisu Shima.	34° 39.1' N 138° 57.9' E	Dir.W.R.G.	105 32	W. 14 R. 10 G. 11	White round concrete tower; 43.	F.R. 049°30'-053°30', F.W.-055°24', F.G.-059°24'.
5536 <i>M 6292</i>	Susari Saki.	34° 39.3' N 138° 57.4' E	Iso.W.R. period 6s	49 15		White round concrete tower; 26.	R. 279°-325°, W.-182°.
5540 <i>M 6293.3</i>	-E. breakwater, head.	34° 39.9' N 138° 57.3' E	Fl.R. period 3s	33 10		Red round concrete tower; 27.	
5544 <i>M 6293</i>	-W. breakwater.	34° 40.2' N 138° 57.3' E	Fl.G. period 3s	32 10		White round concrete tower; 29.	
5546 <i>M 6291</i>	Tozi, S. breakwater.	34° 38.2' N 138° 54.8' E	Fl.G. period 3s	33 10		White tower; 16.	

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JAPAN-HONSHU-SOUTH COAST							
5548 <i>M 6290</i>	Mikomoto Jima.	34° 34.5' N 138° 56.5' E	Fl.(2)W. period 16s	167 51	19	White round stone tower, black bands; 75.	Storm signals.
5552 <i>M 6273.5</i>	To Shima.	34° 31.8' N 139° 16.6' E	Fl.W. period 6s	217 66	20	White round concrete tower; 43.	Visible 070°-270°.
5556 <i>M 6272</i>	Nii Shima.	34° 20.1' N 139° 16.2' E	Fl.W. period 8s	331 101	20	White tower; 43.	Visible 205°-097°.
5558 <i>M 6272.5</i>	-Breakwater.	34° 22.2' N 139° 14.5' E	Fl.R. period 3s	43 13	7	Red tower; 30.	
5560 <i>M 6273</i>	Shikine Shima.	34° 19.2' N 139° 13.2' E	Fl.W. period 3s	43 13	7	White round concrete tower; 36.	
5562 <i>M 6272.8</i>	-N. side of island.	34° 20.0' N 139° 13.0' E	Iso.R. period 4s	46 14	8	Red round concrete tower; 36.	
5564 <i>M 6274</i>	Kozushima.	34° 11.4' N 139° 07.4' E	Fl.W.R. period 12s	397 121	20	White round concrete tower; 49.	W. 290°-077°, R.-090°, W.-189°.
5566 <i>M 6274.8</i>	-Izu Miura Ko, breakwater.	34° 12.0' N 139° 09.3' E	Fl.G. period 3s	66 20	5	White tower; 18.	
5568 <i>M 6274.4</i>	-W. side.	34° 12.5' N 139° 07.7' E	Fl.R. period 4s	39 12	5	Red tower; 26.	
5572 <i>M 6270</i>	Iro Saki.	34° 36.2' N 138° 50.7' E	Al.Fl.W.R. period 16s	197 60	18	White round concrete tower; 36.	Visible 241°-098°.
5576 <i>M 6270.4</i>	-	34° 36.2' N 138° 50.7' E	Dir.W.R.G.	210 64	W. 14 R. 11 G. 12	White tower; 25.	F.R. 243°57'-247°57', F.W.-249°03', F.G.-253°03'.
5580 <i>M 6269.6</i>	Mera, breakwater.	34° 39.8' N 138° 46.9' E	Fl.(2)R. period 6s	56 17	5	Red structure; 33.	
5584 <i>M 6269.5</i>	Hagati Saki.	34° 41.4' N 138° 44.5' E	Fl.W. period 5s	381 116	19	White metal column; 46.	Visible 346°-177°.
5588 <i>M 6269.3</i>	Matsuzaki Ko, breakwater.	34° 45.3' N 138° 46.3' E	Iso.R. period 4s	39 12	5	Red tower; 27.	
5592 <i>M 6269.27</i>	-SE. of Nishina.	34° 46.4' N 138° 46.0' E	Fl.R. period 3s	39 12	4	Red round concrete tower; 31.	
5600 <i>M 6269.2</i>	Tago Shima.	34° 48.6' N 138° 44.7' E	Fl.W. period 3s	102 31	7	White round concrete tower; 29.	
5602 <i>M 6269.22</i>	-Breakwater, head.	34° 48.3' N 138° 45.6' E	Fl.G. period 3s	33 10	3	White tower; 27.	
5604 <i>M 6269</i>	Arari Ko.	34° 49.7' N 138° 45.9' E	Iso.W. period 6s	43 13	8	White round concrete tower; 36.	
5608 <i>M 6268.9</i>	Ugusu Ko, W. breakwater, head.	34° 50.9' N 138° 46.3' E	Fl.R. period 4s	39 12	7	Red tower; 33.	
5612 <i>M 6268.8</i>	Toi Ko, breakwater.	34° 54.8' N 138° 47.2' E	Fl.R. period 4s	39 12	5	Red framework tower; 28.	
5616 <i>M 6268.2</i>	Heda Ko, Heda.	34° 58.5' N 138° 45.8' E	Iso.W. period 6s	56 17	12	White round concrete tower; 36.	
5620 <i>M 6268.4</i>	-Breakwater.	34° 58.2' N 138° 46.6' E	Iso.G. period 6s	33 10	4	White round concrete tower; 27.	
5624 <i>M 6264</i>	Tagonoura Ko, E. breakwater.	35° 08.1' N 138° 42.0' E	Iso.R. period 6s	53 16	5	Red round concrete tower; 46.	
5628 <i>M 6264.2</i>	-W. breakwater.	35° 08.1' N 138° 41.9' E	Iso.G. period 6s	53 16	5	White round concrete tower; 49.	
5632 <i>M 6265</i>	-Range, front.	35° 08.6' N 138° 41.4' E	F.G.	138 42	10	White framework tower; 131.	
5636 <i>M 6265.1</i>	-Rear, 255 meters 323°30' from front.	35° 08.7' N 138° 41.3' E	F.G.	161 49	10	White framework tower; 151.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
5640 <i>M 6266</i>	Numazu Ko, training wall.	35° 04.7' N 138° 51.1' E	Fl.(2)R. period 6s	30 9	5	Red metal framework tower; 18.	
5644 <i>M 6266.4</i>	-W. breakwater, head.	35° 04.8' N 138° 51.1' E	Iso.G. period 4s	46 14	5	White tower; 31.	
5646	Uri-shima, breakwater.	35° 03.5' N 138° 52.7' E	Fl.R. period 4s	26 8	6		
5648 <i>M 6267.5</i>	Shizuura Ko, Okino-Shima.	35° 02.9' N 138° 53.8' E	Fl.G. period 3s	32 10	5	White tower; 26.	
5652 <i>M 6267.4</i>	Shizuura Ko Kuchino.	35° 02.6' N 138° 53.8' E	Fl.R. period 3s	23 7	3	STARBOARD (B) R, tower, topmark; 19.	
5656 <i>M 6267.6</i>	Awa Sima.	35° 02.1' N 138° 53.2' E	Fl.(2)W. period 7s	33 10	7	White concrete column, red bands; 27.	
5660 <i>M 6267.64</i>	Nishiura Kisho, breakwater, head.	35° 01.7' N 138° 52.7' E	Iso.R. period 4s	36 11	4	Red tower; 30.	
5662 <i>M 6267.68</i>	Mito Hakuti, breakwater.	35° 01.5' N 138° 53.7' E	Fl.G. period 3s	26 8	5	White tower; 18.	
5663 <i>M 6267.69</i>	-S. breakwater.	35° 01.5' N 138° 53.8' E	Fl.R. period 3s	22 7	4	Red tower; 19.	
5664 <i>M 6267.7</i>	Izu Ose Saki.	35° 01.8' N 138° 47.3' E	Fl.(3)W. period 13s	52 16	7	White tower; 39.	
5668 <i>M 6263</i>	Yui Ko, W. breakwater.	35° 06.0' N 138° 33.6' E	F.Fl.G. period 6s	43 13	F. 2 Fl. 5	White tower; 28.	
5692 <i>M 6249.4</i>	-Outer Breakwater, S. Light.	35° 01.7' N 138° 31.2' E	Fl.(3)R. period 13s	59 18	7	Red tower; 52.	
5696 <i>M 6249.5</i>	--N. light.	35° 02.5' N 138° 31.7' E	Iso.G. period 8s	59 18	5	White tower; 33.	
5700 <i>M 6249</i>	-Ma Saki.	35° 01.2' N 138° 31.0' E	Iso.W. period 6s	36 11	5	White tower; 33.	
SHIMIZU KO:							
5704 <i>M 6248.4</i>	-Miho, breakwater, NE. head.	35° 01.4' N 138° 31.5' E	Fl.(3)G. period 13s	59 18	7	White tower; 56.	
5708 <i>M 6248</i>	-Miho Saki.	35° 00.6' N 138° 31.8' E	Fl.(2)W. period 20s	69 21	14	White octagonal concrete tower; Visible 175°-017°. 59.	
5724 <i>M 6244</i>	Mochimune, W. breakwater.	34° 55.2' N 138° 22.4' E	Fl.G. period 3s	43 13	5	White round concrete tower; 27.	
5726 <i>M 6244.5</i>	-E. breakwater.	34° 55.2' N 138° 22.3' E	Fl.R. period 3s	39 12	4	Red tower; 18.	
5732 <i>M 6241</i>	-N. breakwater.	34° 52.1' N 138° 19.7' E	Fl.R. period 4s	43 13	4	Red tower; 33.	
5736 <i>M 6239.4</i>	-N. outer breakwater.	34° 52.1' N 138° 20.0' E	Fl.(2)R. period 7s	39 12	5	Red tower; 31.	
5740 <i>M 6239.5</i>	-E. breakwater.	34° 52.1' N 138° 20.2' E	F.Fl.G. period 4s	59 18	F. 1 Fl. 5	White tower; 36.	
5744 <i>M 6239</i>	-Kogawa, S. breakwater, head.	34° 51.2' N 138° 19.9' E	Iso.G. period 4s	57 17	5	White tower; 39.	
5746 <i>M 6238</i>	--Inner breakwater.	34° 51.1' N 138° 19.8' E	Fl.R. period 3s	22 7	3	Red tower; 11.	
5748 <i>M 6237</i>	Sizuhama, AVIATION LIGHT.	34° 48.9' N 138° 17.4' E	Al.Fl.W.G. period 10s	114 35	W. 9 G. 7	Metal framework tower.	
5752 <i>M 6236</i>	Oigawa Ko, S. breakwater.	34° 46.6' N 138° 18.4' E	Fl.G. period 3s	46 14	7	White round concrete tower; 29.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
5753 M 6236.3	-N.	34° 46.5' N 138° 18.1' E	Fl.R. period 4s	19 6	3	Red tower; 10.	
5754 M 6236.2	-S.	34° 46.4' N 138° 18.1' E	Fl.G. period 4s	19 6	3	White tower; 7.	
5756 M 6235.5	Yosida Gyoko, breakwater, head.	34° 44.9' N 138° 16.0' E	Fl.R. period 3s	49 15	7	Red tower; 32.	
5760 M 6235	Sagara Ko, breakwater.	34° 41.1' N 138° 12.7' E	Fl.(2)G. period 6s	49 15	3	White tower; 36.	
5762 M 6235.1	-N. breakwater, head.	34° 42.1' N 138° 13.0' E	Fl.G. period 3s	33 10	5	White tower; 22.	
5764 M 6234.8	Ondo, E. breakwater, head.	34° 38.0' N 138° 12.2' E	Fl.G. period 3s	26 8	3	White tower; 16.	
5766 M 6234.73	-W. breakwater, head.	34° 38.1' N 138° 14.0' E	Fl.(2)G. period 6s	23 7	3	White tower; 14.	
5768 M 6234.7	-W. Outer breakwater, E. head.	34° 37.9' N 138° 13.7' E	Fl.(2)R. period 6s	43 13	5	Red tower; 33.	
5769 M 6234.6	--W. head.	34° 38.0' N 138° 13.3' E	Fl.G. period 5s	16 5	3	White tower; 8.	
5770 M 6234.5	-W. middle breakwater, head.	34° 37.4' N 138° 13.4' E	Fl.R. period 4s	42 13	3	Red round concrete tower; 32.	
5772 M 6234	-E. middle breakwater, head.	34° 37.3' N 138° 13.6' E	Fl.W. period 4s	42 13	5	White tower; 32.	
5774 M 6233	-E. Inner breakwater, head.	34° 36.9' N 138° 13.3' E	Iso.G. period 4s	40 12	4	White tower; 33.	
5778 M 6228	Omaezaki.	34° 35.8' N 138° 13.6' E	Fl.W. period 10s	177 54	19	White round brick tower; 72.	Visible 221°-104°.
RAMARK							
5780 M 6230	Gozen Iwa.	34° 35.9' N 138° 15.6' E	Fl.(2)W. period 8s	59 18	7	White tower; 36.	
5784 M 6226	Water tower intake, No 1.	34° 36.9' N 138° 08.4' E	Fl.(2)W. period 5s	33 10	7	ISOLATED DANGER BRB, tower, topmark; 30.	Intakes 2, 3, 4 and 5 each marked by beacon BRB, Fl.(2)W. 5s 12m 7M.
5790 M 6225	Hukude, breakwater, head.	34° 39.6' N 137° 54.4' E	Fl.G. period 3s	36 11	5	White tower; 20.	
5792 M 6224	Tenryu Kawa, E. side.	34° 38.9' N 137° 48.2' E	Iso.W. period 6s	82 25	12	White tower; 52.	
5800 M 6219	Maisaka.	34° 40.7' N 137° 36.8' E	Fl.W. period 15s	122 37	17	White round concrete tower; 92.	Visible 270°-080°.
5804 M 6221	Hamana Ko, training wall.	34° 40.7' N 137° 36.0' E	Fl.W. period 3s	32 10	3	White tower; 24.	
5808 M 6221.2	-Head.	34° 40.4' N 137° 35.9' E	Fl.(2)R. period 7s	43 13	3	Red tower; 33.	
5810 M 6218.5	Ababane Ko.	34° 36.0' N 137° 11.3' E	Fl.(2)R. period 6s	43 13	7	Red tower; 31.	
5812 M 6052	Irago Misaki.	34° 34.8' N 137° 01.0' E	Iso.W. period 6s	53 16	5	White tower; 56.	Visible 285°-147°. Traffic Signals.
5816 M 6053	-Breakwater.	34° 35.4' N 137° 01.2' E	Fl.(2)R. period 6s	39 12	7	Red tower; 36.	
5820 M 6053.4	-Groin, 900 meters NNE. of point.	34° 35.2' N 137° 01.3' E	Iso.G. period 6s	39 12	4	White tower; 31.	
5822 M 6051.5	Segyo Se.	34° 30.5' N 137° 01.1' E	Q.(3)W. period 10s	49 15	6	E. CARDINAL BYB, beacon, topmark; 49.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
5823	<i>Isewan.</i>	34° 31.0' N 137° 03.6' E	Iso.W. period 4s			8 SAFE WATER RW, buoy, topmark.	
	RACON		G(- - •)			5	(3cm).
5824 <i>M 6051</i>	Kami Jima , NE. end of island.	34° 32.9' N 136° 59.2' E	Fl.(3)W. period 30s	374 114	23	White round concrete tower, square base; 36.	Visible 140°-341°.
5832 <i>M 6051.3</i>	-NW. side of island, breakwater, head.	34° 33.0' N 136° 58.6' E	Iso.G. period 4s	39 12	4	White tower; 28.	
5836 <i>M 6055.5</i>	Tatsuma Saki.	34° 39.6' N 137° 04.2' E	Oc.(3)W. period 13s lt. 6s, ec. 1s lt. 2s, ec. 1s lt. 2s, ec. 1s	46 14	5	White tower; 33.	
ATSUMI WAN:							
5844 <i>M 6217</i>	-Fukue Ko Ko-Nakayama, S. breakwater.	34° 39.1' N 137° 05.5' E	Fl.G. period 4s	31 9	3	White tower; 22.	
5848 <i>M 6217.4</i>	-Fukue Ko Mukaiyama, N. breakwater.	34° 38.3' N 137° 06.2' E	Fl.R. period 3s	29 9	3	Red round concrete tower; 18.	
5852 <i>M 6216</i>	-Izumi Ko, W. breakwater, head.	34° 39.4' N 137° 09.4' E	Iso.R. period 6s	29 9	5	Red tower; 18.	
5856 <i>M 6216.4</i>	--E. breakwater, head.	34° 39.3' N 137° 09.4' E	Iso.G. period 6s	26 8	4	White tower; 19.	
5858 <i>M 6207</i>	-Mikawa Ko, breakwater.	34° 48.2' N 137° 16.0' E	Fl.G. period 3s	33 10	3	White tower; 22.	
5860 <i>M 6206</i>	-Miya Ko, S. breakwater, head.	34° 48.5' N 137° 14.9' E	Fl.(2)G. period 6s	30 9	3	White tower; 22.	
5864 <i>M 6204</i>	--S. breakwater, W. head.	34° 48.6' N 137° 14.8' E	Fl.(2)R. period 6s	30 9	7	Red round concrete tower; 32.	
5866 <i>M 6201.8</i>	Gamagori Ko.	34° 48.4' N 137° 15.0' E	Fl.R. period 3s	28 9	4	Red tower; 19.	
5868 <i>M 6202</i>	--E. breakwater.	34° 48.9' N 137° 13.5' E	Iso.R. period 4s	39 12	8	Red round concrete tower; 29.	
5870 <i>M 6201.5</i>	-Gamagori Ko.	34° 46.2' N 137° 14.4' E	Fl.Y. period 4s	13 4	5	SPECIAL Y, beacon, "X" topmark.	
5872 <i>M 6210</i>	-Tahara Ko, breakwater, head.	34° 41.5' N 137° 14.3' E	Oc.R. period 4s	42 13	5	Red round concrete tower; 32.	
5873 <i>M 6209.5</i>	--Hime Sima, breakwater.	34° 42.9' N 137° 15.2' E	Fl.(3)R. period 12s	46 14	5	Red tower; 32.	Radar reflector.
5874 <i>M 6208</i>	Toyohashi Ko, SW. end of detached breakwater.	34° 44.3' N 137° 16.3' E	Fl.G. period 5s	56 17	5	White tower; 52.	
5875 <i>M 6208.7</i>	Toyohashi Ko, jetty.	34° 43.6' N 137° 19.7' E	Fl.R. period 3s	26 8	4	Red tower; 19.	
5880 <i>M 6200</i>	-Katanohara Ko.	34° 47.2' N 137° 11.5' E	Fl.R. period 3s	39 12	5	Red tower; 28.	
5884 <i>M 6199</i>	Mikawa Nisiura.	34° 47.3' N 137° 11.5' E	Fl.G. period 3s	39 12	3	White tower; 28.	
5888 <i>M 6198</i>	-Hasida Hana.	34° 45.9' N 137° 10.2' E	Iso.W. period 8s	118 36	12	White round concrete tower, square base; 46.	Visible 266°-162°.
MIKAWA WAN:							
5896 <i>M 6197.6</i>	-Kuramai Ko, breakwater, head.	34° 46.4' N 137° 10.3' E	Fl.G. period 3s	40 12	4	White round concrete tower; 28.	

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JAPAN-HONSHU-SOUTH COAST							
5900 <i>M 6197</i>	-Tigaro Ko, breakwater.	34° 46.9' N 137° 10.4' E	Fl.G. period 5s	31 9	3	White tower; 22.	
5904 <i>M 6197.2</i>	-Hara Ya.	34° 46.9' N 137° 10.3' E	Fl.R. period 3s	30 9	4	Red tower; 27.	
5908 <i>M 6196.6</i>	-Higashi Hazu Ko Susaki, S. breakwater.	34° 47.1' N 137° 09.8' E	Oc.(4)G. period 6s	39 12	4	White tower; 31.	
5912 <i>M 6196.7</i>	--S. Outer breakwater.	34° 47.0' N 137° 09.9' E	Iso.G. period 4s	36 11	4	White framework tower; 29.	
5916 <i>M 6196.4</i>	-Higashi-Hazu Ko Nakashiba, S. breakwater.	34° 47.1' N 137° 08.7' E	Fl.(2)R. period 6s	43 13	3	Red tower; 28.	
5920 <i>M 6195.6</i>	Kenasi Shima.	34° 46.2' N 137° 08.6' E	Fl.R. period 3s	43 13	7	Red round concrete tower; 33.	
5924 <i>M 6196.5</i>	-Hazu Ko, breakwater.	34° 47.1' N 137° 08.2' E	Fl.(3)R. period 12s	39 12	4	Red tower; 28.	
5926 <i>M 6196.54</i>	--Breakwater, E. head.	34° 47.1' N 137° 08.6' E	Fl.(2)G. period 6s	33 10	3	White tower; 22.	
5928 <i>M 6196</i>	--Kuwahata, S. breakwater.	34° 47.2' N 137° 08.2' E	Fl.G. period 3s	36 11	3	White tower; 22.	
5932 <i>M 6195.4</i>	-Terabe, S. breakwater.	34° 47.1' N 137° 07.2' E	Iso.R. period 8s	26 8	4	Red tower; 17.	
5936 <i>M 6195</i>	-Nishi Hazu, S. breakwater.	34° 47.4' N 137° 06.9' E	F.Fl.R. period 6s	39 12	F. 1 Fl. 3	Red round concrete tower, square base; 27.	
5940 <i>M 6194.7</i>	--Toba, N. breakwater.	34° 47.0' N 137° 06.4' E	Iso.G. period 4s	33 10	4	White tower; 18.	
5944 <i>M 6194.2</i>	--W. breakwater.	34° 46.5' N 137° 05.5' E	Fl.G. period 3s	43 13	3	White round concrete tower; 33.	
5948 <i>M 6194.4</i>	Naka Shima.	34° 46.4' N 137° 05.7' E	Mo.(D)R. period 8s	33 10	3	STARBOARD (B) R, tower, topmark; 30.	
5952 <i>M 6194.5</i>	Akunami.	34° 46.8' N 137° 06.0' E	Fl.(2)W. period 5s	32 10	3	ISOLATED DANGER BRB, beacon, topmark; 30.	
5960 <i>M 6193</i>	-Yosida Ko.	34° 46.8' N 137° 04.7' E	Fl.(2)R. period 6s	20 6	7	STARBOARD (B) R, tower, topmark; 23.	
5962 <i>M 6192.3</i>	-W. breakwater.	34° 46.9' N 137° 03.9' E	Fl.R. period 3s	29 9	4	Red structure; 19.	
CHITA WAN:							
5964 <i>M 6180</i>	-Issiki Ko, W. breakwater, head.	34° 47.3' N 137° 00.8' E	Fl.G. period 3s	43 13	7	White concrete column; 32.	
5968 <i>M 6178</i>	-Sako, NW. of Ishiki Villiage.	34° 49.4' N 136° 59.8' E	Iso.R. period 6s	49 15	9	Red round concrete tower; 43.	
5972 <i>M 6163.4</i>	-Kinuura Ko, E. breakwater, W. head.	34° 49.1' N 136° 56.6' E	Fl.(2)R. period 6s	66 20	5	Red round metal tower; 66.	
5980 <i>M 6164</i>	-Kinuura Ko, middle wharf.	34° 52.4' N 136° 57.8' E	Fl.G. period 4s	33 10	4	White round concrete tower, square base; 28.	
5984 <i>M 6163</i>	--Taketoyo.	34° 50.6' N 136° 56.0' E	Iso.G. period 6s	39 12	4	White tower; 32.	
5988 <i>M 6163.6</i>	--W. breakwater.	34° 49.3' N 136° 56.3' E	Fl.(2)G. period 6s	66 20	8	White tower; 66.	
5992 <i>M 6164.4</i>	-Handa, breakwater.	34° 52.8' N 136° 56.6' E	Fl.R. period 3s	40 12	3	Red tower; 31.	
6000 <i>M 6162</i>	Kowa Ko, S. breakwater.	34° 46.7' N 136° 55.0' E	Fl.R. period 5s	36 11	4	Red round concrete tower; 28.	

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JAPAN-HONSHU-SOUTH COAST							
6004 M 6162.3	-Outer breakwater.	34° 46.6' N 136° 55.1' E	Fl.G. period 5s	39 12	3	White tower; 31.	
6006 M 6161.9	-Breakwater, head.	34° 46.0' N 136° 55.4' E	Fl.(2)G. period 6s	33 10	3	White tower; 19.	
6008 M 6161.5	Namiga Saki, Saku Shima, W. point.	34° 43.7' N 137° 01.8' E	Iso.W. period 6s	36 11	5	White tower; 32.	
6012 M 6160	Kadoishi, Chita Wan, S. entrance.	34° 42.3' N 136° 59.3' E	Q.(9)W. period 15s	43 13	7	W. CARDINAL YBY, beacon, topmark; 39.	
	RACON		OE(- - - •)		5		(3cm).
6016 M 6159.4	Morozaki Ko, N. Breakwater.	34° 42.6' N 136° 58.3' E	Fl.R. period 4s	30 9	4	Red tower; 22.	
6018 M 6159.45	-E. head.	34° 42.4' N 136° 58.5' E	Fl.G. period 4s	22 7	3	White tower; 16.	
6020 M 6160.2	Shimose Sho.	34° 41.9' N 136° 59.5' E	Mo.(A)R. period 8s	33 10	5	STARBOARD (B) R, tower, topmark; 30.	
6024 M 6159.5	Okiro Shima.	34° 42.0' N 136° 58.7' E	Mo.(A)G. period 8s	30 9	3	PORT (B) G, column, topmark; 26.	
6028 M 6159.3	Morosaki Ko, S. breakwater, head.	34° 41.9' N 136° 58.5' E	Iso.G. period 4s	39 12	8	White square concrete tower; 26.	
6032 M 6159.2	-Outer breakwater, E. head.	34° 42.1' N 136° 58.7' E	Fl.(2)G. period 6s	43 13	5	White tower; 31.	
6036 M 6159	Ha Shima.	34° 41.6' N 136° 58.4' E	Q.(6)+L.Fl.W. period 15s	36 11	5	S. CARDINAL YB, beacon, topmark; 30.	
6040 M 6161.8	Saku Shima, E. Light.	34° 42.8' N 137° 03.2' E	Q.(6)+L.Fl.W. period 15s	33 10	3	S. CARDINAL YB, beacon, topmark; 26.	
6044 M 6161.6	Saku Shima, Tainoura.	34° 42.9' N 137° 02.7' E	Mo.(C)G. period 13s	31 9	5	PORT (B) G, beacon, topmark; 26.	
6048 M 6161.7	-Breakwater, head.	34° 43.1' N 137° 02.9' E	Oc.G. period 8s lt. 6s, ec. 2s	30 9	4	White round concrete tower, square base; 26.	
6050 M 6160.5	-Breakwater.	34° 42.5' N 136° 59.9' E	Fl.G. period 3s	25 8	5	White tower; 18.	
6054 M 6160.4	Himaka Sima.	34° 42.2' N 136° 59.8' E	Fl.(2)R. period 6s	33 10	4	Red round concrete tower, square base; 22.	
6055 M 6160.3	Himaka Sa, SE. breakwater.	34° 42.1' N 137° 00.6' E	Fl.R. period 4s	33 10	4	Red tower; 22.	
6056 M 6160.6	Owari-O-Iso, on reef, about 3.95 km. 019° from Shino Shima.	34° 42.8' N 137° 01.2' E	Q.W.	32 10	5	N. CARDINAL BY, beacon, topmark; 26.	
6060 M 6057.5	Sinosima Ko.	34° 41.1' N 137° 00.3' E	Fl.R. period 3s	39 12	5	Red round tower; 30.	
6064 M 6056.2	Sinosima ko, breakwater, S. head.	34° 40.7' N 136° 59.9' E	Fl.G. period 3s	36 11	5	White tower; 29.	
6072 M 6055	Owari No Sima.	34° 39.4' N 137° 00.5' E	Fl.(2)W. period 7s	197 60	7	White square concrete tower; 32.	
6074 M 6057.6	Nakayama suido, No 1.	34° 37.7' N 136° 58.6' E	Fl.(2)G. period 6s	30 9	5	PORT (B) G, beacon, topmark.	AIS (MMSI No 994311554). Radar reflector.
6076 M 6161	Oi Ko, entrance, N. side.	34° 43.4' N 136° 58.3' E	Q.(3)W. period 10s	30 9	7	E. CARDINAL BYB, beacon, topmark; 26.	
6080 M 6161.3	Tokugo, Morosaki Suido.	34° 43.2' N 136° 57.9' E	Fl.R. period 3s	30 9	3	Red metal framework tower; 22.	
6082 M 6161.2	Oi Ko.	34° 43.3' N 136° 58.0' E	Iso.R. period 4s	26 8	4	Red square concrete tower; 18.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
6084 <i>M 6161.4</i>	-No 2 breakwater.	34° 43.3' N 136° 57.9' E	Fl.G. period 3s	43 13	3	White tower; 22.	
6088 <i>M 6158.2</i>	Toyohama Ko, W. breakwater, E. head.	34° 42.2' N 136° 56.2' E	Iso.G. period 6s	33 10	4	White tower; 28.	
6092 <i>M 6158.5</i>	-S. breakwater.	34° 42.2' N 136° 56.2' E	Fl.(2)R. period 6s	33 10	7	Red round concrete tower; 25.	
6096 <i>M 6156</i>	Nakashu, W. breakwater.	34° 42.5' N 136° 55.1' E	Fl.G. period 5s	43 13	3	White tower; 32.	
6100 <i>M 6156.5</i>	-E. breakwater.	34° 42.5' N 136° 55.1' E	Fl.R. period 5s	46 14	7	Red round concrete tower, square base; 28.	
6104 <i>M 6146</i>	Utsumi Ko, S. groin.	34° 44.3' N 136° 51.5' E	Fl.(2)R. period 8s	28 8	3	Red tower; 16.	
6108 <i>M 6144</i>	Noma Saki, S. of point.	34° 45.5' N 136° 50.7' E	Iso.W. period 6s	66 20	8	White round concrete tower; 59.	Visible 326°-164°.
6110 <i>M 6141</i>	Kosugaya Ko, breakwater.	34° 49.7' N 136° 51.8' E	Fl.G. period 3s	26 8	3	White tower; 18.	
6110.9 <i>M 6138.6</i>	-Southwestwards.	34° 50.1' N 136° 48.7' E	Mo.(U)W. period 8s	30 9	4		
6112 <i>M 6139</i>	Kariya Ko, S. breakwater, head.	34° 51.3' N 136° 51.3' E	Fl.R. period 5s	43 13	5	Red tower; 32.	
6116 <i>M 6138.5</i>	Tokoname Ko, breakwater.	34° 52.3' N 136° 49.8' E	Fl.(2)R. period 6s	30 9	5	Red tower; 22.	
6120 <i>M 6138</i>	-Inner breakwater.	34° 52.7' N 136° 50.2' E	Iso.R. period 4s	25 8	4	Red round concrete tower; 21.	
6124 <i>M 6137</i>	Oniga Saki Ko, N. breakwater, head.	34° 54.3' N 136° 49.2' E	Iso.G. period 8s	39 12	4	White tower; 27.	
6128 <i>M 6136</i>	Oniga-Saki Kamachi, N. breakwater.	34° 54.9' N 136° 49.3' E	Iso.G. period 4s	36 11	4	White round concrete tower; 28.	
6132 <i>M 6135</i>	Owari Ono, Yata Kawa mouth, N. side.	34° 56.0' N 136° 49.3' E	Oc.G. period 8s lt. 6s, ec. 2s	29 9	4	White tower; 18.	
6136 <i>M 6133</i>	Ise Wan.	34° 56.3' N 136° 47.5' E	Fl.W. period 10s	82 25	15	White round metal tower, piles; 66.	Signal station.
6140 <i>M 6095.6</i>	-Seaberth.	34° 55.6' N 136° 44.4' E	Mo.(U)W. period 14s	125 38	13		Private light. Radar reflector.
6140.21 <i>M 6095.62</i>	--250 meters N.	34° 55.7' N 136° 44.4' E	Mo.(U)W. period 8s		5		
6140.22 <i>M 6095.63</i>	---120 meters N.	34° 55.7' N 136° 44.4' E	Mo.(U)W. period 8s		5		
6140.31 <i>M 6095.64</i>	---100 meters S.	34° 55.5' N 136° 44.4' E	Mo.(U)W. period 8s		5		
6140.32 <i>M 6095.65</i>	---250 meters S.	34° 55.5' N 136° 44.4' E	Mo.(U)W. period 8s		5		Horn: 1 bl. ev. 30s.
NAGOYA KO:							
6146 <i>M 6115</i>	-Breakwater, W. head.	35° 00.6' N 136° 48.1' E	F.Fl.(2)R. period 8s	49 15	F. 6 Fl. 10	Red tower; 46.	
6150	--Meikonisi.	35° 02.9' N 136° 50.2' E	Iso.W. period 4s	138 42	8		Center span of bridge. Iso.R. 7M, Iso.G. 9M, F.R. 6M, F.G. 7M, Fl.Y. 6M mark bridge.
6152 <i>M 6111</i>	Kuwana Ko, Ibi Kawa, training wall, head.	35° 00.0' N 136° 43.2' E	Fl.W. period 3s	33 10	7	White square concrete tower; 26.	

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JAPAN-HONSHU-SOUTH COAST							
6161 <i>M 6110.1</i>	Kasumigaura Wharf, E. Range, front.	34° 59.4' N 136° 40.3' E	F.G.	79 24	11	White tower, white triangular daymark point up; 79.	
6161.1 <i>M 6110.12</i>	-Rear, 220 meters 266°18' from front.	34° 59.3' N 136° 40.1' E	F.G.	102 31	11	White tower, white triangular daymark point up; 95.	
6162 <i>M 6110.15</i>	--NW. Range, front.	34° 59.7' N 136° 39.8' E	F.R.	85 26	5	White beacon, white triangular daymark point up; 85.	
6162.1 <i>M 6110.16</i>	---Rear, 140 meters 293°12' from front.	34° 59.7' N 136° 39.7' E	F.R.	102 31	5	White beacon, white triangular daymark point up; 95.	
YOKKAICHI KO:							
6164 <i>M 6097</i>	-Cosmo Sea Berth SBM.	34° 56.8' N 136° 42.8' E	Mo.(U)W. period 8s	26 8	7		Horn: 1 bl. ev. 30s (bl. 5s, si. 25s). Radar reflector.
6176 <i>M 6098</i>	-S. breakwater, head.	34° 56.7' N 136° 39.8' E	Oc.(2)G. period 6s	66 20	8	White tower; 66.	
6180 <i>M 6099</i>	-E. breakwater.	34° 57.1' N 136° 39.5' E	Iso.R. period 6s	49 15	8	Red round metal tower; 43.	
6184 <i>M 6097.6</i>	-E. breakwater, N. head.	34° 58.0' N 136° 40.2' E	Iso.G. period 6s	62 19	8	White tower; 52.	
6192 <i>M 6096</i>	-Isozu Ko, S. breakwater.	34° 55.5' N 136° 38.9' E	Iso.G. period 6s	46 14	4	White tower; 32.	
6196 <i>M 6095</i>	Suzuka Ko, S. breakwater.	34° 53.1' N 136° 38.2' E	F.Fl.G. period 3s	46 14	F. 1 Fl. 3	White round concrete tower; 32.	
6200 <i>M 6094.4</i>	Wakamatu Ko, S. breakwater.	34° 52.2' N 136° 37.6' E	Oc.G. period 4s	39 12	4	White round concrete tower; 31.	
6204 <i>M 6094</i>	Chiyosaki Ko, S. breakwater.	34° 51.3' N 136° 37.1' E	Iso.G. period 6s	43 13	4	White tower; 32.	
6208 <i>M 6093</i>	Shiroko Ko, S. breakwater, head.	34° 49.8' N 136° 35.8' E	Oc.(2)G. period 6s	31 9	8	White tower; 30.	
6209 <i>M 6093.6</i>	-Outer breakwater, N. head.	34° 49.6' N 136° 35.8' E	Fl.G. period 3s	39 12	3	White tower; 30.	
6210 <i>M 6093.5</i>	--S. head.	34° 49.5' N 136° 35.6' E	Fl.R. period 3s	43 13	3	Red tower; 31.	
6212 <i>M 6087</i>	Tsu Ko, 4 miles NNE.	34° 46.7' N 136° 33.0' E	Iso.G. period 6s	39 12	4	White tower; 31.	
6216	Tsu Ko, Nie Saki, Gawa, entrance.	34° 42.7' N 136° 31.4' E	Iso.W. period 8s	53 16	12	White square concrete tower; 27.	
6220 <i>M 6084</i>	-N. breakwater, head.	34° 42.6' N 136° 31.7' E	F.Fl.G. period 3s	36 11	F. 2 Fl. 5	Red tower; 17.	
6222 <i>M 6085</i>	-Breakwater, S. head.	34° 42.4' N 136° 31.7' E	Fl.R. period 3s	39 12	3	Red tower; 29.	
6224 <i>M 6082</i>	Tuko Iguratu, breakwater.	34° 40.8' N 136° 33.0' E	Oc.(2)G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	59 18	8	White tower; 52.	
6228 <i>M 6081.4</i>	Karasu Ko, S. breakwater.	34° 39.7' N 136° 33.1' E	Iso.G. period 6s	43 13	4	White round concrete tower; 30.	
6232 <i>M 6080</i>	Matsuzaka Ko, E. breakwater, head.	34° 37.0' N 136° 33.7' E	Iso.G. period 6s	39 12	5	White tower; 32.	
6236 <i>M 6081</i>	Ryosi Ko, W. breakwater.	34° 36.7' N 136° 32.5' E	Fl.R. period 3s	39 12	3	Red tower; 32.	
6240 <i>M 6081.2</i>	-Inner breakwater, head.	34° 36.6' N 136° 31.8' E	Iso.R. period 6s	39 12	4	Red tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
6244 <i>M 6080.2</i>	Matsusaki Ko Range, front, wharf, head.	34° 36.7' N 136° 33.4' E	Iso.W. period 4s	39	9	White beacon, white triangular daymark point up; 39.	
6248 <i>M 6080.21</i>	-Rear, 40 meters 204°48' from front.	34° 36.5' N 136° 33.6' E	Iso.W. period 4s	49	9	White beacon, white triangular daymark point up; 49.	
6252 <i>M 6074</i>	Oyodo Ko, N. breakwater.	34° 34.0' N 136° 39.7' E	Iso.R. period 6s	36	4	Red tower; 24.	
6254 <i>M 6073.5</i>	Muramatu Ko.	34° 33.2' N 136° 41.3' E	Fl.G. period 3s	27	4	White tower; 18.	
6255 <i>M 6072.1</i>	Toyokita Ko.	34° 32.8' N 136° 43.1' E	Fl.(2)R. period 6s	43	7	Red tower; 33.	
6260 <i>M 6066</i>	Ujiyamada Ko, N. jetty.	34° 31.8' N 136° 45.6' E	Fl.R. period 3s	32	5	Red tower; 27.	
6264 <i>M 6063.6</i>	Omura Sima.	34° 30.8' N 136° 49.0' E	Mo.(D)R. period 8s	36	5	STARBOARD (B) R, beacon, topmark; 32.	
6268 <i>M 6064</i>	Kozaki Saki.	34° 30.4' N 136° 48.5' E	Iso.W. period 8s	299	5	White tower; 23.	
6272 <i>M 6050.8</i>	-Obama Fishery Harbor.	34° 30.0' N 136° 50.1' E	Fl.(2)G. period 6s	30	3	White round concrete tower; 26.	
TOBA KO:							
6276 <i>M 6050</i>	-Toba Ko, entrance range, front.	34° 29.2' N 136° 50.5' E	F.R.	141	8	White framework tower; 79.	
6280 <i>M 6050.1</i>	--Rear, 200 meters 243° 36' from front.	34° 29.1' N 136° 50.4' E	Iso.R. period 4s	194	8	White tower; 25.	
6284 <i>M 6050.3</i>	-E. breakwater.	34° 29.5' N 136° 50.8' E	F.Fl.G. period 5s	26	F. 2 Fl. 5	White tower; 17.	
6288 <i>M 6047.6</i>	-Sakate, S. breakwater.	34° 28.9' N 136° 51.5' E	Iso.R. period 6s	26	4	Red round concrete tower; 18.	
6292 <i>M 6063</i>	-Shimaga Saki.	34° 30.5' N 136° 50.8' E	Fl.(2)W. period 7s	95	5	White concrete cross; 33.	
6294 <i>M 6063.5</i>	Momotori Ko, W. breakwater.	34° 30.8' N 136° 51.0' E	Fl.G. period 3s	27	3	White tower; 18.	
6296 <i>M 6063.4</i>	-E. breakwater.	34° 31.0' N 136° 51.3' E	Fl.R. period 3s	27	4	Red tower; 17.	
6300 <i>M 6047.4</i>	-Seigan Shima.	34° 29.0' N 136° 52.0' E	Fl.(2)W. period 5s	29	5	ISOLATED DANGER BRB, beacon, topmark; 33.	
6304 <i>M 6047.8</i>	-Maruyama Saki.	34° 29.4' N 136° 52.0' E	Mo.(C)G. period 10s	32	5	PORT (B) G, beacon, topmark; 30.	
6307 <i>M 6036.3</i>	Koka Ko.	34° 19.1' N 136° 53.4' E	Fl.G. period 3s	30	3	White tower; 16.	
6308 <i>M 6057.8</i>	Tosi Ko, N. breakwater, head.	34° 32.1' N 136° 54.1' E	Fl.G. period 4s	30	3	White tower; 18.	
6312 <i>M 6058</i>	Toshi Ko, S. breakwater, head.	34° 31.9' N 136° 54.3' E	Oc.G. period 4s	49	5	White round concrete tower; 28.	
6316 <i>M 6059</i>	Toshi Wagu Ko, S. breakwater.	34° 31.3' N 136° 53.8' E	Fl.R. period 3s	30	4	Red tower; 18.	
6320 <i>M 6048.5</i>	Sugashima Ko, N. breakwater.	34° 30.1' N 136° 54.0' E	Fl.(2)G. period 6s	42	3	White tower; 31.	
6324 <i>M 6049</i>	-S. breakwater.	34° 29.9' N 136° 53.8' E	Iso.G. period 6s	39	4	White round concrete tower; 28.	
6328 <i>M 6048</i>	Suga Shima.	34° 30.0' N 136° 54.5' E	Fl.W. period 4s	181	7	White round brick tower; 36.	Visible 156°-008°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
6330 <i>M 6047.2</i>	Arasima, breakwater, S. head.	34° 27.7' N 136° 52.2' E	Fl.R. period 3s	28	3	Red tower; 19.	
6332 <i>M 6047</i>	Maenage Se.	34° 26.9' N 136° 53.2' E	Mo.(D)R. period 8s	30	4	STARBOARD (B) R, beacon, topmark; 30.	
6336 <i>M 6046</i>	Ijika.	34° 26.7' N 136° 55.4' E	Fl.(2)W. period 7s	125	7	White octagonal concrete tower; 33.	
6340 <i>M 6046.3</i>	-Breakwater.	34° 26.8' N 136° 55.4' E	Fl.G. period 3s	33	3	White round concrete tower; 16.	
6344 <i>M 6045</i>	Yoroi Zaki.	34° 24.8' N 136° 55.7' E	Iso.W. period 6s	85	5	White tower; 30.	
6348 <i>M 6045.2</i>	Kusaki Ko, S. breakwater.	34° 24.6' N 136° 55.4' E	Fl.R. period 5s	39	4	Red tower; 27.	
6352 <i>M 6042.3</i>	Osatsu, breakwater.	34° 23.2' N 136° 54.6' E	Iso.R. period 6s	39	4	Red tower; 31.	
6356 <i>M 6042</i>	Anori Saki.	34° 21.9' N 136° 54.5' E	Fl.W. period 15s	108	16	White square concrete tower; 49.	Visible 093°-033°. Storm signals.
6360 <i>M 6044.5</i>	-Matoya Ko, inside of Suga Saki.	34° 22.7' N 136° 54.0' E	Fl.G. period 3s	39	3	White round concrete tower; 32.	Visible 200°-084°.
6362 <i>M 6042.4</i>	-E. breakwater.	34° 21.9' N 136° 53.8' E	Iso.G. period 6s	39	4	White metal framework tower; 27.	
6364 <i>M 6042.46</i>	-W. breakwater, head.	34° 21.9' N 136° 53.8' E	Fl.R. period 4s	36	3	Red round concrete tower; 30.	
6368 <i>M 6042.6</i>	-Oki Se.	34° 22.0' N 136° 53.0' E	Fl.R. period 3s	39	5	STARBOARD (B) R, beacon, topmark; 36.	
6372 <i>M 6044</i>	-Watakano Shima, breakwater.	34° 21.6' N 136° 52.6' E	Iso.R. period 6s	36	4	Red round concrete tower; 31.	
6374 <i>M 6042.25</i>	-SE. breakwater.	34° 22.0' N 136° 54.4' E	Fl.(2)G. period 6s	36	3	White tower; 31.	
6376 <i>M 6038</i>	Nakiri Ko, inner breakwater.	34° 16.9' N 136° 54.0' E	Fl.G. period 3s	43	4	White round concrete tower; 30.	
6378 <i>M 6038.2</i>	-Outer breakwater, head.	34° 17.0' N 136° 54.2' E	Oc.G. period 4s	57	4	Green tower; 36.	
6380 <i>M 6036.4</i>	Nada Miyauzi Sima.	34° 17.5' N 136° 53.6' E	F.W.	95		White round concrete tower; 33.	Illuminates white beacon on Miyauzi Sima 300 meters ENE.
6384 <i>M 6036</i>	Daio Saki.	34° 16.6' N 136° 54.0' E	Al.Fl.W.R. period 30s	151	W. 18 R. 17	White round concrete tower; 75.	Visible 199°-079°.
			FR.				Visible 043°-079°.
6388 <i>M 6036.2</i>	Daio Zaki N.	34° 16.7' N 136° 54.0' E	F.W.	89		White tower; 10.	Illuminates Daio Iwa about 980 meters ENE.
6392 <i>M 6033.41</i>	Fukaya Suido, entrance.	34° 15.8' N 136° 51.7' E	Fl.W. period 3s	46	5	White round concrete tower; 30.	Visible 265°-095°.
6396 <i>M 6034.2</i>	Mugi Saki.	34° 14.8' N 136° 50.9' E	Iso.W. period 6s	92	8	White tower; 52.	
6400 <i>M 6034.5</i>	Katada Ko, S. breakwater.	34° 14.9' N 136° 50.6' E	F.Fl.R. period 5s	46	F. 2 Fl. 5	Red tower; 30.	
6404 <i>M 6033.8</i>	Onaga Iso.	34° 14.0' N 136° 49.9' E	Fl.(2)G. period 6s	52	7	PORT (B) G, beacon, topmark; 59.	
6408 <i>M 6033.7</i>	Fuseda.	34° 14.3' N 136° 48.3' E	Mo.(C)G. period 13s	49	7	PORT (B) G, beacon, topmark; 56.	
6412 <i>M 6033.5</i>	Wagu Ko, E. breakwater.	34° 15.1' N 136° 48.3' E	Oc.R. period 4s lt. 3s, ec. 1s	43	5	Red round concrete tower; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
6414 <i>M 6033.6</i>	-Outer breakwater.	34° 15.0' N 136° 48.4' E	Fl.G. period 3s	42 13	4	White tower; 28.	
6416 <i>M 6033.46</i>	Iwai Misaki.	34° 15.7' N 136° 46.0' E	F.W.	121 37		White round concrete tower; 59.	Illuminates Yasuri Saki 550 meters WSW.
6420 <i>M 6032.7</i>	Goza Misaki.	34° 16.2' N 136° 45.1' E	Fl.W. period 10s	322 98	23	White round concrete tower, square base; 46.	Visible 295°-180°.
6424 <i>M 6033.3</i>	Goza Ko, W. breakwater.	34° 16.7' N 136° 46.2' E	Fl.(2)R. period 6s	26 8	4	Red round concrete tower; 18.	
6428 <i>M 6033.31</i>	Yatorino Se, on rock.	34° 16.6' N 136° 48.8' E	Fl.(2)W. period 5s	30 9	3	ISOLATED DANGER BRB, beacon, topmark; 26.	
6432 <i>M 6033.32</i>	O Hana.	34° 16.1' N 136° 50.2' E	Fl.W. period 3s	33 10	3	White tower; 31.	
6436 <i>M 6033.42</i>	Masaka Shima.	34° 17.0' N 136° 48.7' E	Fl.R. period 4s	33 10	5	Red tower; 31.	
6440 <i>M 6033</i>	Hamajima Ko, on Yatori Islet.	34° 17.5' N 136° 45.9' E	Fl.W. period 4s	66 20	5	White tower; 27.	
6444 <i>M 6033.2</i>	-Breakwater.	34° 17.7' N 136° 45.8' E	Oc.G. period 8s lt. 6s, ec. 2s	39 12	4	White tower; 31.	
6448 <i>M 6032</i>	Taso Saki.	34° 17.3' N 136° 41.3' E	Fl.(2)W. period 6s	322 98	7	White round concrete tower; 33.	
6452 <i>M 6031</i>	-Katsurs, on breakwater.	34° 17.7' N 136° 41.0' E	Oc.R. period 4s lt. 3s, ec. 1s	46 14	4	Red round concrete tower; 30.	
6456 <i>M 6032.2</i>	Gokasho Ko, O Shima.	34° 18.3' N 136° 40.4' E	Fl.(3)W. period 12s	49 15	5	White tower; 32.	
6476 <i>M 6028</i>	Oguara Ko, W. side of bay, breakwater, head.	34° 17.5' N 136° 39.3' E	Iso.R. period 6s	25 8	4	Red tower; 20.	
6480	Tasikara Wan.	34° 16.0' N 136° 33.0' E	Oc.R. period 8s	39 12	11	Red tower; 33.	
6484 <i>M 6027.6</i>	Nieura Ko.	34° 16.6' N 136° 33.3' E	Fl.R. period 3s	39 12	3	Red tower; 31.	
6488 <i>M 6027.5</i>	Asoura Ko, jetty.	34° 16.5' N 136° 34.7' E	Fl.R. period 3s	49 15	4	Red tower; 36.	Visible 009°-253°.
6492 <i>M 6027.4</i>	Mie Shima.	34° 14.6' N 136° 33.3' E	Fl.W. period 5s	223 68	7	White square concrete tower; 23.	
6496 <i>M 6027.3</i>	Nayaura Naka-no-Sima.	34° 15.9' N 136° 32.0' E	Fl.(2)R. period 6s	27 8	2	Red tower; 13.	
6500 <i>M 6027.15</i>	Yosizu Ko.	34° 16.5' N 136° 32.4' E	Iso.R. period 6s	39 12	4	Red tower; 33.	
6504 <i>M 6027.17</i>	-W. breakwater, head.	34° 16.5' N 136° 32.4' E	Iso.G. period 6s	39 12	4	White tower; 33.	
6508 <i>M 6026.5</i>	Mijojino Se, Kanzaki Wan.	34° 15.4' N 136° 31.1' E	Fl.(2)W. period 5s	42 13	5	ISOLATED DANGER BRB, tower, topmark; 36.	
6512 <i>M 6027</i>	Yoshizu.	34° 16.3' N 136° 30.3' E	Iso.W. period 6s	184 56	4	White tower; 32.	
6516 <i>M 6026.4</i>	Hoza Ko.	34° 15.3' N 136° 29.9' E	Dir.F.W.R.G.	138 42 11 10	W. 13 R. 11 G. 10	White tower; 23.	F.R. 322°30'-327°30', F.W.-329°, F.G.-334°.
6520 <i>M 6026.3</i>	Kowaura.	34° 14.8' N 136° 27.4' E	Iso.W. period 8s	36 11	4	White tower; 26.	
6522 <i>M 6026.35</i>	Kowaura Wan.	34° 15.2' N 136° 27.7' E	Fl.G. period 3s	30 9	3	White tower; 18.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
6524 <i>M 6025</i>	Nishiki.	34° 13.0' N 136° 23.3' E	Iso.W. period 6s	144 44	5	White round concrete tower; 33.	
6536 <i>M 6025.4</i>	Nisiki Ko, E. outer breakwater.	34° 12.7' N 136° 23.5' E	Fl.R. period 3s	52 16	3	Red tower; 31.	
6537 <i>M 6025.7</i>	-W. breakwater, head.	34° 12.9' N 136° 23.6' E	Iso.G. period 6s	39 12	4	White tower; 28.	
6540 <i>M 6024.8</i>	Kome Shima.	34° 11.5' N 136° 24.2' E	Fl.W. period 3s	72 22	5	White tower; 30.	
6544 <i>M 6023.8</i>	O Lsi.	34° 11.1' N 136° 21.5' E	Fl.(2)R. period 6s	69 21	5	White round concrete tower; 27.	
6548 <i>M 6022</i>	-Nagashima O Shima.	34° 09.0' N 136° 21.9' E	Fl.(2)W. period 6s	322 98	7	White tower; 30.	
6552 <i>M 6024</i>	Nagashima Ko, breakwater.	34° 11.9' N 136° 20.4' E	Iso.G. period 6s	49 15	5	White tower; 36.	
6558 <i>M 6022.7</i>	-Breakwater, head.	34° 09.6' N 136° 17.0' E	Fl.R. period 3s	39 12	3	Red tower; 28.	
6560 <i>M 6022.4</i>	Utaka Bana.	34° 07.9' N 136° 17.3' E	Iso.W. period 6s	157 48	5	White tower; 23.	
6564 <i>M 6022.5</i>	-Simakatu Ura.	34° 07.8' N 136° 17.2' E	Iso.G. period 6s	39 12	4	White tower; 31.	
6568 <i>M 6022.2</i>	Shimakatsu.	34° 07.0' N 136° 17.4' E	Fl.W. period 5s	174 53	5	White tower; 30.	
OWASHI WAN:							
6580 <i>M 6012</i>	-Onaso Hana.	34° 04.9' N 136° 16.1' E	Fl.(2)W. period 6s	197 60	7	White round concrete tower, square base; 26.	
6588 <i>M 6013</i>	-Nage Isi.	34° 04.7' N 136° 14.9' E	Fl.W. period 5s	49 15	5	White round concrete tower; 18.	
6620 <i>M 6011</i>	Togashira Shima.	34° 03.6' N 136° 15.7' E	Fl.W. period 4s	423 129	7	White tower; 33.	
6624 <i>M 6010.4</i>	Kuki Ko Kutu Saki.	34° 00.6' N 136° 15.5' E	Iso.W. period 6s	114 35	4	White tower; 26.	
6632 <i>M 6009</i>	Nikijima.	33° 55.9' N 136° 12.6' E	Iso.W. period 6s	148 45	5	White round concrete tower; 39.	
6636 <i>M 6008.7</i>	Yuki Ko, breakwater.	33° 55.5' N 136° 10.0' E	Fl.R. period 3s	52 16	5	Red round concrete tower; 31.	
6640 <i>M 6008.5</i>	Ino Hana.	33° 53.1' N 136° 07.8' E	Fl.(2)W. period 7s	276 84	7	White tower; 33.	
6644 <i>M 6008</i>	Kodomari Ko, breakwater, head.	33° 53.6' N 136° 07.6' E	F.Fl.R. period 6s	43 13	F. 1 Fl. 3	Red round concrete tower; 31.	
6652 <i>M 6009.5</i>	Kosugi Hana.	33° 58.5' N 136° 13.3' E	Fl.W. period 5s	98 30	5	White tower; 30.	
6668 <i>M 6010</i>	Miki Saki.	33° 58.4' N 136° 16.2' E	Fl.W. period 12s	489 149	21	White round concrete tower; 46. Visible 185°-055°.	
6672 <i>M 6010.2</i>	Haita Entrance.	33° 59.6' N 136° 15.6' E	Oc.W. period 4s lt. 3s, ec. 1s	154 47	5	White tower; 25.	
6678 <i>M 6007.5</i>	Udono Ko, N. breakwater.	33° 44.0' N 136° 01.6' E	Fl.G. period 3s	52 16	5	White tower; 36.	
6680 <i>M 6007.4</i>	Udono Ko.	33° 44.1' N 136° 01.4' E	Fl.G. period 5s	26 8	4	White round concrete tower, square base; 13.	
6682 <i>M 6007.3</i>	Singu Ko, detached breakwater, S. head.	33° 40.2' N 135° 59.2' E	Fl.(2)R. period 6s	52 16	5	Red tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
6684 <i>M 6007.2</i>	-S. breakwater, head.	33° 40.2' N 135° 59.5' E	Iso.G. period 6s	33	5	White tower; 20.	
6688 <i>M 6007</i>	Ugui.	33° 39.0' N 135° 58.7' E	Fl.W. period 5s	174	7	White round concrete tower; 28.	
6692 <i>M 6007.1</i>	Ugui, entrance.	33° 39.1' N 135° 58.7' E	Iso.R. period 6s	43	4	Red tower; 32.	
6696 <i>M 6006.8</i>	Obera Shima.	33° 38.1' N 135° 58.9' E	Fl.W. period 3s	62	5	White tower; 49.	
6700 <i>M 6004</i>	Oto Shima.	33° 36.8' N 135° 57.1' E	Fl.W. period 3s	52	7	White tower; 33.	
6704 <i>M 6006</i>	Ketano Hana, Naka Shima, E. side.	33° 37.2' N 135° 56.9' E	Iso.G. period 8s	39	4	White tower; 28.	
6708 <i>M 6003</i>	Katsuo Jima.	33° 36.4' N 135° 57.7' E	Fl.(2)W. period 6s	66	5	White round concrete tower; 46.	
6712 <i>M 6003.4</i>	Taichi Ko, N. breakwater.	33° 35.5' N 135° 57.0' E	F.Fl.R. period 6s	49	F. 1 Fl. 3	Red tower; 29.	
6716 <i>M 6002</i>	Kantori Saki.	33° 34.9' N 135° 57.5' E	Fl.W. period 8s	135	18	White tower; 53.	F.W. illuminates Naminori Syo 630 meters SE.
6720 <i>M 6001.5</i>	Kusimoto Ko.	33° 34.5' N 135° 56.1' E	Iso.W.R. period 6s	184	12	White tower; 28.	R. 001°-031°, W-001°. Red sector indicates sunken rocks and islets dangerous to navigation.
6724 <i>M 6001</i>	Urakami Ko Range, front.	33° 33.7' N 135° 54.4' E	F.G.	36	10	White round concrete tower, white chevron daymark point up; 33.	
6728 <i>M 6001.1</i>	-Rear, about 100 meters 259°18' from front.	33° 33.6' N 135° 54.4' E	F.G.	69	10	White round concrete tower, white chevron daymark point up; 66.	
6732 <i>M 6000</i>	Koza Kawaguchi.	33° 30.8' N 135° 49.7' E	Oc.R. period 8s	36	4	Red tower; 28.	
6736 <i>M 5996.2</i>	Kushimoto, S. breakwater.	33° 28.3' N 135° 47.3' E	Fl.G. period 3s	46	5	White tower; 33.	
6740 <i>M 5996.05</i>	-0.5 mile S.	33° 27.8' N 135° 47.3' E	Fl.(2)G. period 6s	39	5	White round concrete tower; 31.	
6742 <i>M 5999</i>	-O Shima Sue Ko, approach.	33° 27.1' N 135° 50.1' E	Fl.R. period 3s	36	3	Red tower; 18.	
6744 <i>M 5997</i>	Kii O Shima Ko S. Breakwater, about 1207 meters 224° from Kane Yama summit.	33° 28.1' N 135° 48.2' E	Oc.R. period 8s lt. 6s, ec. 2s	39	4	Red tower; 33.	
6748 <i>M 5996.4</i>	Kusimoto Ko.	33° 27.8' N 135° 47.9' E	F.Fl.(2)R. period 6s	39	F. 1 Fl. 3	Red tower; 21.	F.W. spotlight illuminates rocks 46 meters WNW.
6752 <i>M 5997.3</i>	Tojima Saki, about 366 meters 030°15' from Kane Yama summit.	33° 29.0' N 135° 49.0' E	Fl.W. period 3s	36	5	White round concrete tower; 23.	
6756 <i>M 5998</i>	Kashino Saki.	33° 28.3' N 135° 51.8' E	Fl.(2)W. period 20s	154	18	White tower; 49.	Visible 109°-033°.
6760 <i>M 5997.6</i>	Kashino Ko, breakwater, O Shima.	33° 28.3' N 135° 51.2' E	Iso.G. period 4s	39	4	White tower; 23.	
6768 <i>M 5995</i>	Uno Shima, NE.	33° 26.8' N 135° 48.2' E	Fl.(2)W. period 8s	69	5	White tower; 46.	
6772 <i>M 5995.6</i>	Myoga Sima.	33° 27.0' N 135° 48.0' E	Fl.W. period 3s	53	5	White round concrete tower; 43.	
6776 <i>M 5994</i>	Shiono Misaki.	33° 26.3' N 135° 45.3' E	Fl.W. period 15s	161	19	White tower; 75.	Visible 278°-130°. Signal station.

RAMARK

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
6780 <i>M 5996</i>	Kusimoto Ko, N. breakwater, head.	33° 27.9' N 135° 47.2' E	Fl.R. period 3s	42 13	5	Red round concrete structure; 31.	
6784 <i>M 5997.2</i>	-Kusimoto Ko, NE. breakwater, head.	33° 28.5' N 135° 48.2' E	F.Fl.G. period 5s	36 11	F. 1 Fl. 3	White tower; 28.	
6788 <i>M 5991</i>	Fukuro Ko Range No 1, front.	33° 28.0' N 135° 47.0' E	F.G.	36 11	8	Round concrete tower, white chevron daymark point up; 28.	
6792 <i>M 5991.1</i>	-Rear, about 30 meters 078°36' from front.	33° 28.1' N 135° 46.5' E	F.G.	52 16	8	Round concrete tower, white chevron daymark point up; 39.	
6802 <i>M 5990</i>	Arita Ko, breakwater, head.	33° 28.7' N 135° 44.3' E	Fl.R. period 3s	46 14	5	Red tower; 33.	
6804 <i>M 5989</i>	Esu Zaki.	33° 29.9' N 135° 35.6' E	Fl.(2)W. period 10s	108 33	12	White round concrete tower; 36.	
6808 <i>M 5988</i>	Susami Ko.	33° 32.6' N 135° 29.2' E	Fl.W. period 5s	190 58	5	White round concrete tower; 36.	
6812 <i>M 5988.4</i>	Tenji Yama.	33° 33.0' N 135° 30.0' E	Dir.W.R.G.	82 25	W. 14 R. 11 G. 11	White round concrete tower; 24.	F.R. 027°30'-033°12', F.W.-036°54', F.G.-042°36'.
6816 <i>M 5987</i>	Hiki Ko.	33° 33.5' N 135° 26.8' E	Fl.R. period 3s	29 9	3	Red tower; 18.	
6820 <i>M 5986</i>	Itie Saki.	33° 35.3' N 135° 24.0' E	Fl.W. period 8s	312 95	20	White octagonal concrete tower; 36.	Visible 313°-145°.
6824 <i>M 5984</i>	Bansho Yama.	33° 41.5' N 135° 20.1' E	Iso.W. period 4s	122 37	8	White round concrete tower; 30.	
6828 <i>M 5979</i>	Siso Shima islet W. of Bansho Yama.	33° 41.6' N 135° 19.6' E	Fl.W. period 5s	46 14	8	White tower; 39.	
6832 <i>M 5978</i>	Tanabe Oki-no-Shima.	33° 43.1' N 135° 19.5' E	Fl.W. period 3s	49 15	8	White tower; 46.	
6836 <i>M 5977.7</i>	Sima - Haya Wan.	33° 44.5' N 135° 20.0' E	Fl.G. period 3s	39 12	5	White tower; 28.	
TANABE KO:							
6840 <i>M 5977.6</i>	-Haya Ko, W. breakwater, head.	33° 44.3' N 135° 21.3' E	Iso.G. period 6s	36 11	4	White tower; 31.	
6844 <i>M 5980</i>	-Egawa, W. breakwater.	33° 43.6' N 135° 21.7' E	Iso.G. period 4s	46 14	4	White tower; 32.	
6848 <i>M 5980.9</i>	-Minatoura, breakwater.	33° 43.1' N 135° 22.8' E	Iso.G. period 6s	39 12	4	White tower; 31.	
6850 <i>M 5981.7</i>	-Breakwater, S. head.	33° 42.9' N 135° 23.0' E	Fl.G. period 3s	29 9	3	White tower; 18.	
6852 <i>M 5980.4</i>	--E. breakwater.	33° 43.7' N 135° 21.9' E	Iso.R. period 4s	43 13	5	Red round concrete tower; 29.	
6858 <i>M 5980.8</i>	-Range, front.	33° 43.7' N 135° 22.5' E	F.Y.	46 14	10	White tower, two red bands, white triangular daymark point up; 33.	
6860 <i>M 5980.61</i>	--Rear, 183 meters 065°36' from front.	33° 43.6' N 135° 22.7' E	F.Y.	72 22	10	White tower, two red bands, white triangular daymark point up; 59.	
6864 <i>M 5981</i>	-Isoma Range, front.	33° 42.5' N 135° 23.6' E	F.Y.	26 8	9	White tower, white triangular daymark point up; 22.	
6868 <i>M 5981.1</i>	--Rear, 060° from front.	33° 42.7' N 135° 23.8' E	F.Y.	39 12	9	White tower, white triangular daymark point up; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
6872 <i>M 5981.6</i>	-Mori, W. breakwater.	33° 42.9' N 135° 23.7' E	F.F.I.G. period 6s	36 11	F. 1 Fl. 3	White tower; 28.	
6876 <i>M 5981.8</i>	-Atonoura, breakwater.	33° 43.0' N 135° 24.0' E	Fl.R. period 3s	36 11	3	Red tower; 31.	
6880 <i>M 5977.4</i>	Inami Ko, E. breakwater.	33° 48.6' N 135° 12.9' E	Fl.R. period 3s	39 12	3	Red tower; 31.	
6884 <i>M 5977</i>	Inami Ko Yokoshima, breakwater.	33° 48.6' N 135° 12.9' E	Fl.(2)R. period 6s	43 13	7	Red tower; 33.	
6888 <i>M 5974</i>	Gobo Katuo Sima.	33° 51.4' N 135° 08.8' E	Fl.W. period 4s	59 18	5	White tower; 49.	
6892 <i>M 5974.5</i>	Gobo Ko, outer breakwater.	33° 51.9' N 135° 08.5' E	Fl.R. period 4s	69 21	5	Red tower; 49.	
6896 <i>M 5975</i>	Gobo Ko, Sioya Ko, S. breakwater, head.	33° 51.7' N 135° 09.4' E	Iso.R. period 4s	26 8	4	Red tower; 18.	

Section 5

Eastern Part of Seto Naikai

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
6900 <i>M 5970</i>	Hino Misaki.	33° 52.9' N 135° 03.7' E	Fl.(3)W. period 40s	460 140	21	White round concrete tower; 46.	Visible 273°-172°.
6904 <i>M 5969.6</i>	Ao Ko, N. breakwater, head.	33° 54.3' N 135° 04.6' E	Iso.R. period 6s	43 13	4	Red tower; 32.	
6908 <i>M 5969.7</i>	-E. breakwater, head.	33° 54.2' N 135° 04.8' E	Iso.G. period 6s	42 13	5	White round concrete tower; 32.	
6912 <i>M 5969.4</i>	Naka Iso.	33° 54.8' N 135° 04.2' E	Fl.(2)W. period 5s	56 17	5	ISOLATED DANGER BRB, tower, topmark; 52.	
6918 <i>M 5969.06</i>	Yura Ko.	33° 56.2' N 135° 03.8' E	Fl.(2)R. period 6s	56 17	5	Red tower; 33.	
6932 <i>M 5969.08</i>	Muronoki Hana.	33° 56.9' N 135° 05.3' E	Fl.R. period 3s	33 10	3	Red metal framework tower; 20.	
6944 <i>M 5968.6</i>	Asika Sima.	33° 58.7' N 135° 03.6' E	Fl.(2)W. period 5s	46 14	5	ISOLATED DANGER BRB, tower, topmark; 33.	
6946 <i>M 5968.5</i>	Ena Ko.	33° 59.4' N 135° 06.4' E	Fl.(2)R. period 6s	29 9	3	Red tower; 18.	
6948 <i>M 5968.3</i>	Taka Sima.	34° 00.8' N 135° 07.5' E	Q.(6)+L.Fl.W. period 15s	49 15	5	S. CARDINAL YB, tower, topmark; 43.	
6950 <i>M 5968.4</i>	Karao Ko.	34° 00.4' N 135° 08.6' E	Fl.R. period 5s	27 8	3	Red tower; 18.	
6952 <i>M 5968</i>	Yuasahiro Ko, jetty.	34° 01.6' N 135° 10.3' E	Fl.(2)R. period 6s	43 13	5	Red tower; 32.	
6956 <i>M 5967.84</i>	-Suhara Ko, W. breakwater, head.	34° 02.5' N 135° 09.7' E	Fl.R. period 3s	39 12	3	Red tower; 33.	
6958 <i>M 5967.82</i>	Oi Ko.	34° 04.2' N 135° 06.3' E	Fl.G. period 3s	46 14	5	White tower; 31.	
6960 <i>M 5967.8</i>	Kii Myazakino Hana.	34° 04.4' N 135° 04.8' E	Oc.W. period 8s lt. 6s, ec. 2s	265 81	12	White square concrete tower; 32.	
6964 <i>M 5967.5</i>	Arida Ku, breakwater, head.	34° 04.6' N 135° 05.2' E	Fl.G. period 4s	30 9	3	White tower; 18.	
6968 <i>M 5967.4</i>	Simotu Ko.	34° 06.8' N 135° 04.6' E	Fl.W. period 4s	308 94	7	White square concrete tower; 43.	
6972 <i>M 5967.35</i>	Arida Ku, sea berth.	34° 06.8' N 135° 06.6' E	Mo.(U)W. period 15s	89 27	9		Mo.(U)W. 15s marks N. and S. ends of berth.
6976 <i>M 5966.62</i>	Huzi Kosan.	34° 08.0' N 135° 07.2' E	Mo.(U)W. period 10s	118 36	11		Mo.(U)W. 10s 11M auxiliary lights 240 meters NNE. and 220 meters S. Horn: 2 bl. ev. 20s. Radar reflector.
OSAKI WAN:							
6980 <i>M 5966.5</i>	-Tubune Hana.	34° 07.8' N 135° 07.3' E	Iso.W. period 6s	95 29	12	White round concrete tower; 32.	F.W. auxiliary light illuminates shoal about 280 meters SSE.
6984 <i>M 5967</i>	-Simotu Ko Kamanosita, breakwater.	34° 07.1' N 135° 08.0' E	Oc.G. period 8s lt. 6s, ec. 2s	43 13	5	White round concrete tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
6988 <i>M 5966.8</i>	-Osaki Ura, breakwater.	34° 07.8' N 135° 07.9' E	Iso.R. period 4s	36 11	4	Red tower; 36.	
6992 <i>M 5967.2</i>	-Ushiga Kubi, breakwater.	34° 06.9' N 135° 08.4' E	Iso.R. period 4s	33 10	4	Red round concrete tower; 30.	
6996 <i>M 5967.3</i>	--W. breakwater, head.	34° 06.8' N 135° 08.2' E	Fl.R. period 3s	39 12	3	Red tower; 33.	
KAINAN KU:							
7000 <i>M 5966</i>	-S. breakwater, head.	34° 08.7' N 135° 11.1' E	Fl.R. period 3s	39 12	5	Red round concrete tower; 31.	
7004 <i>M 5966.2</i>	-N. breakwater, head.	34° 08.8' N 135° 11.0' E	Fl.G. period 3s	36 11	5	White round concrete tower; 20.	
WAKAYAMA KU:							
7008 <i>M 5965.2</i>	-Wakanoura Wan, W. breakwater.	34° 11.1' N 135° 09.8' E	Iso.G. period 4s	43 13	5	White tower; 33.	
7012 <i>M 5965.12</i>	-Outer breakwater, E. head.	34° 10.9' N 135° 09.2' E	Fl.G. period 3s	33 10	5	White tower; 16.	
7016 <i>M 5965.05</i>	-Saigasaki Ko, breakwater.	34° 11.2' N 135° 08.8' E	Fl.(2)G. period 8s	43 13	3	White tower; 30.	
7018 <i>M 5965</i>	-Saika Saki.	34° 11.3' N 135° 08.5' E	Fl.W. period 8s	246 75	20	White round concrete tower; 25.	
7024 <i>M 5962.4</i>	-Minami Ku Auxiliary, breakwater, head.	34° 12.8' N 135° 07.9' E	Fl.R. period 3s	16 5	3	Red metal column; 10.	
7028 <i>M 5963</i>	-S. breakwater, head.	34° 12.9' N 135° 08.1' E	Fl.(2)R. period 7s	43 13	4	Red tower; 43.	
7032 <i>M 5964</i>	-N. breakwater, head.	34° 13.0' N 135° 07.7' E	Fl.(2)G. period 7s	52 16	5	White tower; 46.	
7034 <i>M 5961.8</i>	-Kita Ku, N. breakwater, head.	34° 14.3' N 135° 07.1' E	Iso.G. period 6s	56 17	5	White round concrete tower; 46.	
7036 <i>M 5961.6</i>	--W. breakwater, head.	34° 14.1' N 135° 07.1' E	Iso.R. period 6s	53 16	5	Red tower; 46.	
7040 <i>M 5961</i>	Takura Saki.	34° 15.9' N 135° 03.7' E	Iso.W. period 6s	161 49	8	White tower; 33.	F.W. illuminates rock 300 meters NNW.
7044 <i>M 5576</i>	I Shima.	33° 50.7' N 134° 48.9' E	Fl.W. period 10s	472 144	23	White square concrete tower; 72.	
7048 <i>M 5576.4</i>	Isima Ko, W. breakwater.	33° 50.7' N 134° 48.3' E	Fl.R. period 3s	46 14	4	Red round concrete tower; 31.	
7052 <i>M 5577</i>	Kamoda Misaki.	33° 50.0' N 134° 45.0' E	Fl.W. period 3s	157 48	5	White round concrete tower; 39.	F.W. illuminates Sirika Bae 1200 meters SE.
7056 <i>M 5575.6</i>	-Karimata Saki.	33° 50.7' N 134° 43.2' E	Oc.(2)W. period 8s lt. 5s, ec. 1s lt. 1s, ec. 1s	72 22	5	White round concrete tower; 31.	
7064 <i>M 5575</i>	-Funa Iso.	33° 53.5' N 134° 42.4' E	Fl.(2)W. period 5s	56 17	8	ISOLATED DANGER BRB, beacon, topmark; 46.	
7066 <i>M 5572.5</i>	Tomioka Ko.	33° 55.0' N 134° 42.1' E	Fl.G. period 3s	36 11	5	White tower; 18.	
7068 <i>M 5574</i>	Ao Sima.	33° 55.4' N 134° 43.2' E	Fl.(2)W. period 7s	190 58	10	White round concrete tower; 39.	
7072 <i>M 5572</i>	Tomioka Ko, Groin.	33° 55.5' N 134° 42.7' E	Fl.R. period 3s	39 12	5	Red round concrete tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
7076 M 5571	Nakazima Ko, S. breakwater.	33° 57.2' N 134° 42.0' E	Fl.G. period 3s	39 12	7	White round concrete tower; 31.	
7078 M 5570.8	Awaimazu Ko, breakwater.	33° 58.3' N 134° 39.8' E	Fl.(2)G. period 6s	43 13	7	White tower; 31.	
7080 M 5568	Wadano Hana, N. side of point.	34° 00.6' N 134° 38.1' E	Iso.W. period 6s	46 14	5	White square concrete tower; 31.	
7084 M 5555.4	Komatusima Ko, Offing, Wave Observation tower.	34° 02.4' N 134° 38.5' E	Mo.(U)W. period 8s	39 12	5	Metal framework tower.	Radar reflector.
7088 M 5555	Okame Se.	34° 02.3' N 134° 37.9' E	Fl.(2)W. period 5s	56 17	8	ISOLATED DANGER BRB, tower, topmark; 52.	
KOMATSUSHIMA KO:							
7092 M 5564	-S. breakwater.	34° 00.4' N 134° 35.9' E	Iso.G. period 6s	33 10	5	White tower; 28.	
7096 M 5565	-Detached breakwater, S. head.	34° 00.5' N 134° 35.9' E	Iso.R. period 6s	29 9	5	Red tower; 28.	
7100 M 5565.4	--N. head	34° 00.8' N 134° 36.0' E	Fl.G. period 4s	39 12	5	White tower; 43.	
7104 M 5561	Komatsushima Ko.	34° 01.1' N 134° 35.7' E	Iso.W. period 8s	302 92	14	White concrete tower; 39.	
7108 M 5562	-Taka Sone.	34° 01.1' N 134° 36.2' E	Mo.(A)R. period 8s	33 10	3	STARBOARD (B) R, tower, topmark; 33.	
7112 M 5560	-Tuda, outer breakwater, E. head.	34° 02.8' N 134° 36.5' E	Fl.G. period 3s	43 13	7	White tower; 31.	
TOKUSHIMA KO:							
7116 M 5559	-Outer breakwater, S. head.	34° 02.3' N 134° 36.0' E	Fl.(3)R. period 12s	39 12	5	Red tower; 30.	
7120 M 5556	--E. head.	34° 03.0' N 134° 35.8' E	Fl.R. period 4s	36 11	3	Red tower; 31.	
7132 M 5554	Imagire Ko, N. traninig wall.	34° 06.2' N 134° 36.6' E	F.Fl.R. period 6s	36 11	F. 2 Fl. 5	Red tower; 29.	
7136 M 5553	Tokusima AVIATION LIGHT.	34° 08.0' N 134° 36.0' E	Al.Fl.W.G. period 6s	89 27	W. 9 G. 6	Metal framework tower.	
7140 M 5553.4	Awazu Ko, S. breakwater, head.	34° 08.5' N 134° 37.4' E	Iso.G. period 4s	43 13	5	White tower; 31.	
MUYANO SETO:							
7144 M 5551.8	-Oiso Saki.	34° 10.8' N 134° 38.5' E	Fl.(4)W. period 15s	125 38	12	White round concrete tower; 36.	
			F.W.				Illuminates white beacon on Okame Iso 600 meters E.
7146 M 5551.9	Muya Ko.	34° 11.1' N 134° 38.4' E	Mo.(B)G. period 8s	16 5	3	PORT (B) G, tower, topmark; 18.	
7148 M 5552	Naka Se.	34° 10.9' N 134° 37.6' E	Mo.(A)R. period 8s	36 11	3	STARBOARD (B) R, tower, topmark; 33.	
7152 M 5552.4	-Muye Ko Range, front.	34° 10.9' N 134° 37.4' E	F.G.	36 11	10	White round concrete tower, red bands, white triangular daymark point up; 32.	
7156 M 5552.41	--Rear, 50 meters 253°42' from front.	34° 10.8' N 134° 37.4' E	F.G.	62 19	10	White round concrete tower, red bands, white triangular daymark point up; 59.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
7160 M 5552.6	-Seto Ko, Donoura, W. breakwater, head.	34° 13.1' N 134° 35.3' E	Fl.G. period 3s	33 10	3	White round concrete tower; 32.	
7162 M 5552.55	-Kameura Ko, breakwater, head.	34° 13.0' N 134° 37.9' E	Fl.G. period 3s	30 9	3	White tower; 16.	
NARUTO KAIKYO:							
7164 M 5551.75	-Tobi Shima.	34° 13.9' N 134° 38.9' E	Fl.W. period 3s	105 32	7	White round concrete tower; 75.	
7168 M 5551.5	-Mago Saki.	34° 14.3' N 134° 38.6' E	Fl.W. period 5s	167 51	13	White square concrete tower; 36.	
7172 M 5811.4	To Saki.	34° 14.5' N 134° 39.6' E	Fl.(2)W. period 8s	192 59	7	White square concrete tower; 36.	
7176 M 5812	Turusima Hana.	34° 14.5' N 134° 42.1' E	Fl.W. period 3s	85 26	7	White round concrete tower; 25.	
7180 M 5814	Hukura Ko, on NE. part of Kemuri Shima.	34° 14.9' N 134° 42.5' E	Fl.G. period 3s	30 9	3	White tower; 28.	
7182 M 5814.2	-Breakwater, head.	34° 13.8' N 134° 42.1' E	Mo.(U)W. period 8s	23 7	5		
7183 M 5814.25	Nikoro Ko.	34° 11.5' N 134° 44.7' E	Fl.G. period 3s	39 12	5	White tower; 31.	
7184 M 5570	Nu Sima.	34° 10.1' N 134° 49.7' E	Fl.W. period 10s	437 133	20	White tower; 39.	
7188 M 5570.2	-Nusima Ko, W. breakwater, head.	34° 10.2' N 134° 49.0' E	F.Fl.R. period 3s	36 11	F. 2 Fl. 5	Red tower; 28.	
7192 M 5570.5	-Tomari Ko, training wall, head.	34° 10.3' N 134° 49.2' E	Oc.R. period 8s lt. 6s, ec. 2s	46 14	4	Red tower; 33.	
7196 M 5814.3	Nada Ko, breakwater, head.	34° 11.8' N 134° 47.8' E	Iso.G. period 6s	43 13	4	White tower; 28.	
7200 M 5960	Tomoga Shima.	34° 16.9' N 135° 00.0' E	Al.Fl.W.R. period 10s	197 60	20	White round stone tower; 39.	Visible 350°-232°. Reserve light range 16/13M.
7204 M 5959	Jinoshima, E. end.	34° 17.9' N 135° 03.5' E	Fl.(2)W. period 8s	184 56	5	White tower; 33.	
7206 M 5960.5	Kada Ko, outer breakwater.	34° 16.8' N 135° 04.0' E	Fl.(2)R. period 6s	42 13	5	Red tower; 36.	
7208 M 5960.4	Kada Ko, S. breakwater.	34° 16.6' N 135° 04.2' E	Fl.R. period 3s	30 9	3	Red round concrete tower; 18.	
OSAKA WAN:							
7212 M 5958	-Fuke Ko, W. breakwater, head.	34° 19.2' N 135° 08.5' E	Iso.R. period 4s	39 12	5	Red tower; 33.	
7224 M 5958.2	--E. breakwater.	34° 19.3' N 135° 08.5' E	Iso.G. period 4s	42 13	5	White tower; 33.	
7228	-Tannowa Ko, E. breakwater.	34° 20.3' N 135° 11.0' E	F.Fl.R. period 5s	43 13	F. 6 Fl. 12	Red round concrete tower; 28.	
7229 M 5957.8	-Simosyo Ko, breakwater.	34° 20.7' N 135° 12.5' E	Fl.(2)G. period 6s	23 7	3	White tower; 16.	
7230 M 5957.75	-Ozaki Ko, outer breakwater.	34° 21.7' N 135° 13.9' E	Fl.Y. period 4s	15 5	3		
7230.1 M 5957.74	--SW. head.	34° 21.6' N 135° 14.8' E	Fl.Y. period 4s	15 5	3		
7230.3 M 5957.72	--S. detached breakwater, off N. head.	34° 21.5' N 135° 13.8' E	Fl.Y. period 4s	13 4	3		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
7230.5 <i>M 5957.73</i>	--S. head.	34° 21.5' N 135° 13.8' E	Fl.Y. period 4s	13	3		
7230.6 <i>M 5957.7</i>	--Breakwater, N. Head.	34° 22.2' N 135° 14.4' E	Fl.R. period 3s	36	7	Red tower; 28.	
7231 <i>M 5957.62</i>	-Tarui, N. breakwater.	34° 23.0' N 135° 15.6' E	Fl.R. period 3s	27	3	Red tower; 21.	
7231.1 <i>M 5957.63</i>	--S. breakwater.	34° 22.9' N 135° 15.6' E	Fl.G. period 3s	27	3	White tower; 20.	
7232	-Sumoto Offing buoy.	34° 21.1' N 135° 00.6' E	Mo.(A)W. period 8s			SAFE WATER RW, buoy, topmark.	
	-RACON		OE(- - - •)		5		(3cm).
7233 <i>M 5957.61</i>	-Okada, S. breakwater.	34° 23.5' N 135° 16.4' E	Fl.R. period 3s	21	3	Red tower; 11.	
7233.5 <i>M 5957.64</i>	--N. breakwater.	34° 23.6' N 135° 16.5' E	Fl.G. period 3s	22	3	White tower; 11.	
7234 <i>M 5957.5</i>	Sano Gyoko, detached breakwater, head.	34° 25.4' N 135° 18.9' E	Fl.R. period 4s	16	3	STARBOARD (B) R, tower, topmark.	
7235 <i>M 5957.52</i>	Hannon Ko, outer breakwater.	34° 25.4' N 135° 18.6' E	Fl.(2)R. period 5s	43	5	Round concrete tower; 28.	
7236 <i>M 5957.4</i>	Sano Gyoko.	34° 25.4' N 135° 18.9' E	Fl.G. period 4s	43	3	Red tower; 28.	
7240 <i>M 5957.2</i>	-Hannan Ko, offing, breakwater.	34° 26.2' N 135° 19.1' E	Fl.(2)R. period 7s	52	7	Red tower; 52.	
7242 <i>M 5955.3</i>	--N. breakwater, head.	34° 28.5' N 135° 20.3' E	Fl.R. period 3s	43	7	Red tower; 29.	
7244 <i>M 5956.2</i>	--Offing breakwater, SW. head.	34° 28.7' N 135° 21.2' E	Fl.(2)G. period 6s	43	5	White tower; 33.	
7248 <i>M 5955.5</i>	--Detached breakwater, S. head.	34° 28.3' N 135° 20.7' E	Fl.G. period 3s	49	5	White round concrete tower; 33.	
7250 <i>M 5955.06</i>	---N., head.	34° 29.3' N 135° 21.3' E	Fl.R. period 4s	20	3	Red tower; 12.	
7252 <i>M 5956.4</i>	--Kaizuka, breakwater, head.	34° 27.7' N 135° 21.1' E	Fl.(2)R. period 6s	33	4	Red tower; 22.	
7256 <i>M 5956.25</i>	--Kishiwada, W. breakwater	34° 28.3' N 135° 21.8' E	Fl.R. period 3s	27	3	Red round structure; 18.	
7260 <i>M 5955</i>	--W. breakwater, N.	34° 29.5' N 135° 22.0' E	Fl.(3)R. period 13s	52	7	Red round concrete tower; 52.	
7264 <i>M 5955.04</i>	--S. head.	34° 28.9' N 135° 21.9' E	Fl.G. period 4s	43	4	White tower; 36.	
7268 <i>M 5955.2</i>	--E. breakwater, head.	34° 29.4' N 135° 22.2' E	Fl.(3)G. period 13s	36	4	White tower; 31.	
7271.9 <i>M 5953.7</i>	-Senboku, new wharf, N. corner.	34° 32.0' N 135° 22.7' E	Fl.R. period 4s	26	4	Red tower; 12.	
7271.95 <i>M 5953.75</i>	--SW. corner.	34° 31.0' N 135° 22.0' E	Fl.Y. period 4s	26	4	Yellow mast; 12.	
7272 <i>M 5953.6</i>	--NE. corner.	34° 31.8' N 135° 22.8' E	Fl.R. period 3s	59	7	Red tower; 52.	
7280 <i>M 5953</i>	--E. breakwater, head.	34° 31.5' N 135° 23.2' E	Fl.G. period 5s	40	5	White tower; 28.	
7284 <i>M 5950</i>	-Sakai Hamadera, N. breakwater.	34° 33.5' N 135° 24.6' E	Iso.G. period 6s	59	8	White tower; 52.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
7288 M 5951	--S. breakwater.	34° 33.3' N 135° 24.6' E	Iso.R. period 6s	59 18	8	Red round concrete tower; 46.	
7289 M 5952	--W. breakwater.	34° 33.4' N 135° 26.6' E	Fl.R. period 3s	23 7	3	Red tower; 12.	
7289.1 M 5952.1	---E. breakwater.	34° 33.4' N 135° 26.6' E	Fl.G. period 3s	23 7	3	White tower; 12.	
7292 M 5939.8	-Detached breakwater, S. head.	34° 35.7' N 135° 23.8' E	Fl.G. period 4s	46 14	5	White tower; 33.	
7296 M 5939.7	--N. head.	34° 36.3' N 135° 23.3' E	Iso.R. period 4s	72 22	5	Red tower; 62.	
7304 M 5940	-S. harbor, N. breakwater.	34° 36.7' N 135° 24.1' E	Iso.G. period 4s	49 15	5	White tower; 39.	
7308 M 5945	-S. harbor offing, breakwater.	34° 36.6' N 135° 25.2' E	Fl.(2)G. period 6s	39 12	3	White tower; 31.	
7310 M 5939.6	-Tower.	34° 36.7' N 135° 22.7' E	Mo.(U)W. period 8s	36 11	5	Tower.	
7312 M 5939	-S. harbor Gaiko, N. breakwater.	34° 37.7' N 135° 23.8' E	Fl.(2)G. period 7s	69 21	7	White round concrete tower; 62.	
7316 M 5939.4	--Gaiko, S. breakwater.	34° 37.7' N 135° 23.4' E	Fl.(2)R. period 7s	69 21	7	Red round concrete tower; 62.	
7332 M 5906	-N. harbor, N. head.	34° 40.4' N 135° 24.2' E	Fl.(3)R. period 12s	33 10	5	Red tower; 20.	
7336 M 5907	--Middle breakwater, N. head.	34° 40.5' N 135° 24.4' E	Fl.R. period 4s	33 10	3	Red tower; 20.	
7344 M 5920	-N. harbor entrance, breakwater, head.	34° 39.1' N 135° 24.8' E	Iso.G. period 6s	43 13	5	White tower; 29.	
7348 M 5932	-Radar Tower.	34° 38.6' N 135° 22.7' E	Fl.W. period 5s	171 52	19	White tower; 164.	Visible 331°-151°. Radar station.
7384 M 5894	-W. breakwater, head.	34° 41.1' N 135° 22.7' E	Fl.G. period 5s	33 10	3	White tower; 23.	
7398 M 5899.5	-Nisinomiya, breakwater, N.	34° 42.2' N 135° 20.5' E	Fl.G. period 3s	39 12	5	White tower; 33.	
7400 M 5899	--SE. breakwater.	34° 40.3' N 135° 21.6' E	Fl.G. period 5s	52 16	8	White tower; 52.	
7402 M 5899.3	--Naruohama breakwater.	34° 41.2' N 135° 21.7' E	Fl.(2)G. period 6s	39 12	3	White tower; 31.	
7404 M 5886	Ozekisyuzo.	34° 43.2' N 135° 20.8' E	F.G.	25 8	4	Black square tower; 22.	
7408 M 5854	-Naka.	34° 40.8' N 135° 11.3' E	Al.Fl.R.G. period 10s	177 54	R. 17 G. 18	White tower; 16.	Private light.
7412 M 5864.63	-Beacon E.	34° 38.1' N 135° 15.5' E	Mo.(N)Y. period 6s		6	SPECIAL Y, beacon, "X" topmark.	Radar reflector.
7414 M 5865	-Wave observation tower.	34° 38.8' N 135° 16.6' E	Mo.(U)W. period 10s	36 11	8		Radar reflector.
7415 M 5865.51	-Detached breakwater, NW. head.	34° 38.9' N 135° 15.3' E	Fl.Y. period 4s	14 4	4		
7415.5 M 5865.52	--SE. head.	34° 38.9' N 135° 15.4' E	Fl.Y. period 4s	14 4	4		
7416 M 5866	-Breakwater No 6, E. head.	34° 40.2' N 135° 14.7' E	Fl.(2)G. period 6s	59 18	7	White round concrete tower; 62.	
7420 M 5866.3	--S. head.	34° 39.8' N 135° 15.0' E	Fl.Y. period 3s	23 7	8	SPECIAL Y, beacon, "X" topmark.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
7424 M 5867	-Breakwater No 7, SW. head.	34° 40.1' N 135° 15.2' E	Fl.(2)R. period 6s	66 20	7	Red tower; 62.	
7428 M 5867.2	--NE. head.	34° 40.6' N 135° 17.8' E	Fl.G. period 3s	66 20	7	White tower; 65.	
7430 M 5899.2	-Nisinomiya, breakwater, W. head.	34° 40.7' N 135° 18.8' E	Fl.R. period 3s	52 16	7	Red tower; 56.	
7436 M 5870	-Breakwater No 5, E. head.	34° 41.2' N 135° 14.4' E	Fl.G. period 5s	52 16	3	White tower; 52.	
7440 M 5871	-Range, front.	34° 42.0' N 135° 14.6' E	F.G.	72 22	6	White beacon, red triangular daymark point up; 69.	
7440.5 M 5871.1	--Rear, 150 meters 358° from front.	34° 42.1' N 135° 14.6' E	F.G.	141 43	6		
7448 M 5872	-Breakwater No 4, middle.	34° 41.4' N 135° 13.5' E	Fl.R. period 3s	13 4	7	Red tower; 13.	
7452 M 5868	-Breakwater No 3, E. head.	34° 40.9' N 135° 13.4' E	Fl.(2)G. period 7s	56 17	7	White round concrete tower; 62.	
7456 M 5862	-Breakwater No 2, S. head.	34° 39.4' N 135° 12.3' E	Oc.R. period 8s lt. 6s, ec. 2s	59 18	4	Red tower; 62.	
7460 M 5861	-S. breakwater No 1, S. head.	34° 39.1' N 135° 12.3' E	Iso.G. period 4s	59 18	5	White tower; 59.	
7464 M 5860	-Breakwater No 1, E. head.	34° 39.3' N 135° 12.1' E	Oc.G. period 8s lt. 6s, ec. 2s	62 19	4	White tower; 62. Floodlit.	
7470 M 5860.3	-Aeronautical runway, head.	34° 37.9' N 135° 12.0' E	Mo.(U)W. period 8s	39 12	5		Visible 327°-228°.
7471 M 5860.2	-Beacon W.	34° 37.8' N 135° 11.3' E	Mo.(N)Y. period 6s		6	SPECIAL Y, beacon, "X" topmark.	Radar reflector.
7472 M 5857	-Wada, breakwater, head.	34° 39.2' N 135° 11.3' E	F.Fl.G. period 3s	39 12	F. 4 Fl. 7	White tower; 36.	
7472.5 M 5857.5	-No 1 breakwater, W. head.	34° 39.2' N 135° 11.4' E	F.Fl.R. period 3s	43 13	F. 4 Fl. 7	Red tower; 33.	
7476 M 5852	-Kobe.	34° 38.9' N 135° 10.1' E	Fl.W. period 8s	85 26	15	White round concrete tower; 95.	Visible 263°-083°.
7482 M 5848	-Minami Komaei, breakwater.	34° 38.8' N 135° 09.4' E	Fl.G. period 4s	46 14	5	White tower; 31.	
7488 M 5844	-Nagata, breakwater.	34° 38.7' N 135° 09.0' E	Iso.G. period 4s	39 12	4	White tower; 33.	
7490 M 5843.4	-E. oil terminal pier.	34° 38.6' N 135° 08.5' E	Mo.(U)W. period 8s	26 8	5		
7491 M 5843.2	-W. oil terminal pier.	34° 38.5' N 135° 08.5' E	Mo.(U)W. period 8s	39 12	4		
7492 M 5843	-Suma, offing, breakwater, E. head.	34° 38.4' N 135° 08.2' E	Fl.G. period 3s	33 10	4	White round concrete tower; 28.	
7494 M 5843.1	-Wakamiya, outer breakwater, head.	34° 38.4' N 135° 07.9' E	Fl.(2)G. period 6s	39 12	5	Green tower; 22.	
7496 M 5842.4	-Outer Suma Tower.	34° 38.1' N 135° 06.3' E	Mo.(U)W. period 15s	62 19	8		
7500 M 5840	Hira Iso.	34° 37.3' N 135° 03.9' E	Q.(6)+L.Fl.W. period 15s	46 14	7	S. CARDINAL YB, beacon, topmark; 39.	
7504 M 5838.6	Tarumi Ko, S. breakwater, E. side.	34° 37.4' N 135° 03.4' E	Fl.G. period 3s	43 13	5	White tower; 33.	
7508 M 5838.7	-S. breakwater, W. side.	34° 37.5' N 135° 02.7' E	Fl.(2)R. period 6s	26 8	3	Red tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
AWAJI SHIMA:							
7516 M 5814.6	-Oisino Hana.	34° 16.0' N 134° 57.0' E	Fl.W. period 5s	387 118	12	White round concrete tower; 33.	F. obstruction light illuminates reef 300 meters SE.
7520 M 5815	Taka Saki.	34° 16.6' N 134° 57.4' E	Oc.W. period 4s lt. 3s, ec. 1s	92 28	8	White tower; 36.	
7524 M 5815.5	Naruyama Shima.	34° 17.3' N 134° 57.7' E	Q.(3)W. period 10s	62 19	7	E. CARDINAL BYB, beacon, topmark; 56.	
7528 M 5816	-Yura Ko, breakwater, head.	34° 17.9' N 134° 56.7' E	F.Fl.G. period 6s	37 11	F. 2 Fl. 5	White round concrete tower; 28.	
7536 M 5818.4	-Sumoto Ko, outer harbor, S. breakwater.	34° 20.8' N 134° 54.2' E	F.Fl.(2)G. period 10s	42 13	F. 2 Fl. 5	White round concrete tower; 33.	
7548 M 5819.5	--N. breakwater.	34° 21.0' N 134° 54.1' E	Fl.R. period 3s	46 14	5	Red round concrete tower; 33.	
7592 M 5821	--Takeno Kuchi, N. breakwater, head.	34° 21.2' N 134° 53.8' E	Fl.(2)R. period 6s	36 11	5	Red tower; 22.	
7596 M 5822	-Tuna Ko, Siota Kita, N. breakwater, head.	34° 24.8' N 134° 53.9' E	Fl.R. period 3s	21 6	3	Red round concrete tower; 16.	
7600 M 5822.12	--Sioto, S. breakwater, head.	34° 24.8' N 134° 54.0' E	Iso.G. period 6s	39 12	4	White tower; 28.	
7604 M 5822.16	--Shizuki, S. breakwater, head.	34° 25.9' N 134° 54.9' E	Fl.(2)G. period 7s	33 10	5	White tower; 30.	
7610 M 5822.22	Tsuna Ko, breakwater.	34° 26.0' N 134° 54.9' E	Fl.(2)R. period 6s	36 11	4	Red structure; 28.	
7612 M 5822.3	-Ikuho Gyoko Higasi, E. breakwater.	34° 26.7' N 134° 55.6' E	Fl.G. period 3s	36 11	4	White tower; 28.	
7616 M 5822.4	-Sano Minami, S. breakwater.	34° 27.5' N 134° 56.4' E	Oc.G. period 4s lt. 3s, ec. 1s	36 11	4	White tower; 29.	
7618 M 5822.5	-Kamaguti Ko, breakwater.	34° 29.5' N 134° 57.9' E	Fl.G. period 3s	32 10	5	White tower; 19.	
7620 M 5822.6	-Kariya Ko, S. breakwater.	34° 30.7' N 134° 59.3' E	Iso.G. period 6s	39 12	5	White round concrete tower; 28.	
7624 M 5822.8	--E. breakwater.	34° 31.0' N 134° 59.5' E	Fl.G. period 3s	43 13	5	White round concrete tower; 28.	
7626 M 5823	-Kariya Ko, breakwater, N. head.	34° 31.5' N 134° 59.7' E	Fl.(2)G. period 6s	30 9	5	White tower; 18.	
7628 M 5828	-Ura Ko, S. breakwater.	34° 32.6' N 134° 59.8' E	Iso.G. period 4s	36 11	5	White tower; 28.	
7632 M 5829	--N. breakwater, N. head.	34° 32.6' N 134° 59.7' E	F.R.	24 7	7	White wooden tower; 19.	
7640 M 5834	-Iwaya Ko, inner breakwater, E. head.	34° 35.5' N 135° 01.1' E	Fl.R. period 4s	42 13	3	Red tower; 31.	
7644 M 5834.2	--W. breakwater.	34° 35.5' N 135° 01.1' E	Fl.G. period 3s	39 12	5	White concrete column; 32.	
7648 M 5796	-E. Saki.	34° 36.4' N 134° 59.6' E	Al.W.R. period 10s	161 49	W. 18 R. 16	White tower; 26.	Visible 061°-079° and 098°-266°. Reserve light Q.W. 16M.
			F.R.				Visible 079°-098°.
7650 M 5836	Akashi Kaikyo Bridge, 2P, E.	34° 37.5' N 135° 01.6' E	F.Y.	39 12	7		Visible 165°-084°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
7650.5 <i>M 5836</i>	-W.	34° 37.5' N 135° 01.6' E	F.Y.	39 12	7		Visible 345°-264°.
7651 <i>M 5836</i>	-3P, E.	34° 36.6' N 135° 00.9' E	F.Y.	39 12	7		Visible 168°-081°.
7651.5 <i>M 5836</i>	-W.	34° 36.6' N 135° 00.9' E	F.Y.	39 12	7		Visible 348°-261°.
7651.6 <i>M 5836</i>	-Center span of bridge.	34° 37.0' N 135° 01.3' E	F.W.	272 83	8		Visible 093°-159° and 273°-339°. F.R. 5M, F.G. 8M mark channel limits.
HIGASHI-HARIMA KO:							
7652 <i>M 5783</i>	-Agashi Gaiko, outer harbor, S. breakwater.	34° 38.5' N 134° 59.5' E	Fl.R. period 4s	43 13	5	Red tower; 29.	
7656 <i>M 5785</i>	--Outer Harbor, W. breakwater.	34° 38.5' N 134° 59.4' E	Fl.G. period 4s	39 12	7	White tower; 29.	
7660 <i>M 5784</i>	-Akasi Ko.	34° 38.5' N 134° 59.3' E	Iso.R. period 6s	36 11	5	Red tower; 29.	
7664 <i>M 5782.6</i>	-W. outer harbor, W. breakwater.	34° 38.4' N 134° 59.0' E	Iso.G. period 6s	39 12	4	White tower; 29.	
7666 <i>M 5782.8</i>	-W. breakwater.	34° 38.4' N 134° 59.0' E	Fl.(2)G. period 6s	43 13	5	White tower; 32.	
7668 <i>M 5782</i>	-W. breakwater.	34° 38.6' N 134° 58.0' E	F.Fl.G. period 3s	39 12	F. 2 Fl. 5	White round concrete tower; 28.	
7670	<i>Akashi-Kaikyo, W. buoy.</i>	34° 36.3' N 134° 56.9' E	Mo.(A)W. period 8s			SAFE WATER RW, pillar, topmark.	
RACON							
			OE(- - - •)		5		(3cm).
7672 <i>M 5781</i>	Eigishima Ko, W. breakwater.	34° 40.4' N 134° 54.6' E	F.Fl.G. period 7s	43 13	F. 2 Fl. 5	White tower; 32.	
HIGASHI-HARIMA KO:							
7676 <i>M 5780</i>	-Futami Ko.	34° 41.4' N 134° 53.2' E	Fl.G. period 3s	39 12	5	White tower; 29.	
7680 <i>M 5774.4</i>	-Beppu, E. breakwater, head.	34° 41.8' N 134° 50.2' E	Fl.R. period 3s	56 17	7	Red round concrete tower; 52.	
7684 <i>M 5774</i>	--W. breakwater, head.	34° 41.9' N 134° 49.9' E	Fl.G. period 3s	56 17	7	White tower; 52.	
7692 <i>M 5775</i>	--Directional light 022°18'.	34° 43.2' N 134° 50.7' E	Dir.W.R.G.	56 17	W. 8 R. 6 G. 6	White tower; 49.	F.G. 018°48'-021°18', F.W.-023°18', F.R.-025°48'.
7700 <i>M 5773</i>	-Behu Nisiko, W. breakwater, head.	34° 42.8' N 134° 48.4' E	Fl.(2)G. period 7s	36 11	5	White tower; 28.	
7704 <i>M 5772.5</i>	Takasago Ko, E. breakwater.	34° 43.8' N 134° 47.9' E	Fl.(2)R. period 6s	43 13	5	Red round concrete structure; 33.	
7708 <i>M 5772</i>	-W. breakwater.	34° 43.8' N 134° 47.8' E	Fl.(2)G. period 6s	43 13	5	White tower; 36.	
7712 <i>M 5771.6</i>	--Nisiko, W. breakwater, head.	34° 44.4' N 134° 47.1' E	Fl.G. period 4s	39 12	5	White tower; 33.	
7716 <i>M 5770</i>	-Ibo Ko, entrance, W. side.	34° 44.9' N 134° 45.8' E	Iso.G. period 6s	43 13	5	White tower; 28.	
7720 <i>M 5771</i>	--E. breakwater.	34° 45.0' N 134° 46.1' E	Fl.(3)R. period 13s	33 10	5	Red tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
7724 M 5769	Yagi Ko, W. breakwater.	34° 46.3' N 134° 43.3' E	Iso.G. period 6s	36 11	4	White tower; 28.	
7726 M 5767	Mega Gyoko, breakwater, head.	34° 46.4' N 134° 42.2' E	Iso.R. period 4s	43 13	4	Red tower; 32.	
HIMEJI KO:							
7728 M 5766.3	-Mega Ko, E. breakwater.	34° 45.5' N 134° 41.2' E	Fl.R. period 4s	65 20	7	Red round concrete tower; 62.	
7732 M 5766	-W. breakwater, head.	34° 46.0' N 134° 40.9' E	Fl.G. period 3s	56 17	3	White round concrete tower; 52.	
7736 M 5766.5	-W. breakwater, SE. head.	34° 45.4' N 134° 40.9' E	Fl.G. period 3s	65 20	4	White tower; 65.	
7740 M 5764.6	-Sikama Ko, E. breakwater.	34° 45.8' N 134° 39.2' E	Fl.(2)R. period 6s	49 15	7	Red tower; 46.	
SIKAMA KO:							
7744 M 5764.8	--W. breakwater, SE. head.	34° 45.7' N 134° 39.0' E	Fl.(2)G. period 6s	49 15	7	White tower; 46.	
7748 M 5764	--E. breakwater No 2.	34° 46.4' N 134° 39.5' E	Fl.R. period 3s	43 13	3	Red round concrete tower; 33.	
7752 M 5762	Hirohata, E. breakwater.	34° 45.8' N 134° 37.7' E	Fl.R. period 3s	56 17	7	Red round metal tower; 56.	
7756 M 5763.5	-Range No 2, front.	34° 47.1' N 134° 37.8' E	F.R.	98 30	5	White metal framework tower, white triangular daymark point up; 92.	
7760 M 5763.6	--Rear, 510 meters 000° from front.	34° 47.4' N 134° 37.8' E	F.R.	154 47	6	White metal framework tower, white triangular daymark point up; 148.	
7764 M 5761	Abosi Ko.	34° 46.2' N 134° 36.4' E	Fl.G. period 4s	36 11	7	White tower; 28.	
7768 M 5760	-W.	34° 45.7' N 134° 35.2' E	Fl.(2)G. period 5s	33 10	5	White tower; 24.	
7772 M 5759.7	Himezi Ko, E. breakwater.	34° 45.4' N 134° 34.2' E	Iso.R. period 6s	39 12	5	Red tower; 31.	
7776 M 5759.6	-Naka, W. breakwater.	34° 45.4' N 134° 34.0' E	Iso.G. period 6s	42 13	5	White tower; 36.	
7780 M 5756.7	Iwami Ko.	34° 46.8' N 134° 31.7' E	F.Fl.R. period 3s	39 12	F. 2 Fl. 5	Red round concrete tower; 31.	
7784 M 5756.8	Murotsu Ko, S.	34° 46.1' N 134° 30.0' E	Fl.R. period 3s	36 11	5	Red round concrete tower; 28.	
7788 M 5756.4	Kazura Sima.	34° 44.9' N 134° 27.8' E	Fl.(3)W. period 13s	173 53	10	White tower; 43.	
7790 M 5763.3	Sakosi Ko.	34° 46.0' N 134° 27.2' E	Fl.G. period 3s	24 7	3	White tower; 18.	
7792 M 5756.6	Aioi Ko Range, front.	34° 47.5' N 134° 27.7' E	F.R.	308 94	4	White mast, red bands, white triangular daymark point up; 49.	
7796 M 5756.61	-Rear, 120 meters 350°30' from front.	34° 47.6' N 134° 27.7' E	F.R.	348 106	4	White mast, red bands, white triangular daymark point up; 49.	
7800 M 5755.6	Ako Misaki.	34° 43.8' N 134° 24.5' E	Fl.W. period 10s	276 84	20	White octagonal concrete tower; 52.	
7804 M 5756	Ako.	34° 43.4' N 134° 24.4' E	Q.(6)+L.Fl.W. period 15s	28 9	5	S. CARDINAL YB, beacon, topmark; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
7808 M 5756.2	-Range, front.	34° 44.8' N 134° 22.0' E	F.G.	67 20	9	White mast, red bands, white triangular daymark point up; 59.	
7812 M 5756.21	--Rear, about 575 meters 360° from front.	34° 45.0' N 134° 22.0' E	F.G.	89 27	9	Red beacon, white bands, white triangular daymark point down; 7.	
7816 M 5755.3	Unoisi Hana.	34° 42.2' N 134° 20.5' E	Fl.(3)W. period 14s	79 24	7	White round concrete tower; 30.	
7820 M 5755	Hinase Ko.	34° 43.5' N 134° 16.3' E	Fl.R. period 3s	39 12	3	Red tower; 28.	
7822 M 5754.7	Otabu Ko.	34° 41.2' N 134° 17.9' E	Fl.G. period 3s	24 7	3	White tower; 18.	
7824 M 5754.5	Kasirazima Ko.	34° 41.9' N 134° 16.9' E	Iso.R. period 6s	23 7	5	Red tower; 18.	
7826 M 5754.85	Otabu Sima.	34° 40.8' N 134° 17.7' E	Iso.W. period 6s	102 31	14	White tower; 36.	
7828 M 5754	Takagono Syo.	34° 42.8' N 134° 13.2' E	Fl.(2)W. period 5s	36 11	3	ISOLATED DANGER BRB, tower, topmark; 30.	
7840 M 5752.4	Kami-Ikada.	34° 38.2' N 134° 12.2' E	Mo.(A)G. period 8s	32 10	3	PORT (B) G, tower, topmark; 26.	
7844 M 5752.2	Ki Sima.	34° 35.8' N 134° 11.9' E	Fl.W. period 4s	56 17	10	White tower; 39.	
7848 M 5751.8	Usimado Ko.	34° 36.8' N 134° 10.5' E	F.Fl.W. period 3s	43 13	F. 4 Fl. 7	White round concrete tower; 36.	
7852 M 5752	-Breakwater, E. head.	34° 36.8' N 134° 09.8' E	Fl.G. period 3s	39 12	5	White round concrete tower; 32.	
HARIMA NADA, NORTH PASSAGE:							
7856 M 5751.6	-Yomogi Saki.	34° 35.9' N 134° 08.2' E	Fl.W. period 5s	32 10	10	White structure; 27.	
7860 M 5768	Kami Shima.	34° 41.2' N 134° 42.8' E	Fl.(2)W. period 8s	197 60	12	White tower; 46.	
7864 M 5758.4	Kurakake Sima.	34° 41.2' N 134° 38.2' E	Fl.(4)W. period 16s	220 67	10	White round concrete tower, red bands; 52.	
7868 M 5758	Tanga Sima.	34° 39.5' N 134° 35.0' E	Fl.W. period 6s	249 76	12	White tower; 39.	
7876 M 5757.9	-N. breakwater, E. head.	34° 41.0' N 134° 32.5' E	Fl.R. period 3s	28 8	4	Red tower; 18.	
7880 M 5757.6	Osaki Hana.	34° 41.1' N 134° 32.2' E	Iso.W. period 6s	230 70	8	White tower; 31.	Fl.R. marks head of breakwater close ESE.
7880.5 M 5757.41	-Breakwater, head.	34° 39.9' N 134° 31.4' E	Fl.(2)G. period 6s	30 9	4	White tower; 18.	
7882 M 5757.42	Boze Shima, N. head.	34° 39.5' N 134° 31.1' E	Fl.G. period 3s	30 9	5	White tower; 18.	
7884 M 5757.4	Boze Ko, breakwater, head.	34° 39.2' N 134° 30.6' E	F.Fl.G. period 4s	43 13	F. 2 Fl. 5	White round concrete tower; 31.	
7885 M 5757.45	Boze Ko, W. breakwater.	34° 39.2' N 134° 30.5' E	Fl.R. period 3s	24 7	4	Red tower; 19.	
7886 M 5757.5	Boze Sima.	34° 38.9' N 134° 31.2' E	Fl.(2)G. period 7s	33 10	4	White tower; 18.	
7888 M 5757.3	Inge Sima.	34° 39.1' N 134° 26.1' E	Fl.(2)W. period 10s	240 73	7	White tower; 39.	

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JAPAN-SETO NAIKAI-EASTERN PART (I)							
7892 M 5757	Matu Sima.	34° 35.6' N 134° 28.6' E	Fl.W. period 3s	167 51	7	White tower; 29.	
7896 M 5548	Okado Hana.	34° 26.0' N 134° 20.3' E	Fl.W. period 3s	209 64	21	White tower; 43.	Visible 209°-116°. Partially obscured by Funoko Shima.
7900 M 5547.8	Sanuki Tatibana Ko.	34° 29.4' N 134° 20.8' E	Fl.R. period 3s	33 10	5	Red tower; 19.	
7904 M 5547.55	Oiso.	34° 33.4' N 134° 23.2' E	Fl.(2)W. period 5s	49 15	5	ISOLATED DANGER BRB, tower, topmark; 39.	
7908 M 5547.6	Fukuda Ko, N. breakwater.	34° 32.6' N 134° 20.9' E	F.Fl.R. period 5s	36 11	F. 2 Fl. 5	Red tower; 28.	
7912 M 5547.5	Obe Ko, breakwater.	34° 32.9' N 134° 17.0' E	Fl.G. period 3s	43 13	7	White round concrete tower; 32.	
7916 M 5547	Sanuki Chiburi Shima.	34° 31.8' N 134° 09.7' E	Fl.(2)W. period 7s	72 22	7	White tower; 27.	
7920 M 5547.4	Shikai Ko, breakwater No 12.	34° 31.0' N 134° 09.8' E	Oc.G. period 4s	36 11	5	White round concrete tower; 28.	
7922 M 5549.3	Ojimaie Ko.	34° 28.8' N 134° 11.5' E	Fl.G. period 5s	23 7	3	White tower; 16.	
7924 M 5549.2	Ikeda Ko, breakwater, head.	34° 28.7' N 134° 13.6' E	Fl.G. period 3s	36 11	5	White tower; 27.	
7928 M 5549	Zizo Saki.	34° 24.9' N 134° 14.1' E	Fl.(2)W. period 7s	220 67	12	White tower; 42.	Visible 259°-113°.
	RACON		Y(- • - -)		9		(3cm). Azimuth coverage 259°-114°.
7936 M 5797	-Tosima Ko, N. breakwater.	34° 33.1' N 134° 56.0' E	Iso.R. period 4s	43 13	5	Red tower; 32.	
7940 M 5798.4	-Asano Ko, N. breakwater.	34° 32.2' N 134° 54.6' E	Iso.R. period 6s	39 12	6	Red round concrete tower; 28.	
7944 M 5798.6	-Ikuha Ko, W. breakwater.	34° 31.9' N 134° 53.8' E	Fl.R. period 5s	39 12	3	Red round concrete tower; 28.	
7946 M 5798.8	Ikuha Ko.	34° 31.9' N 134° 53.6' E	Fl.R. period 3s	30 9	5	Red tower; 18.	
7948 M 5799	-Awaji Murotsu Ko, W. breakwater.	34° 31.5' N 134° 52.7' E	F.Fl.R. period 7s	43 13	F. 2 Fl. 5	Red tower; 29.	
7952 M 5800	-Gunge Ko, W. breakwater, head.	34° 28.6' N 134° 50.6' E	F.Fl.R. period 3s	39 12	F. 2 Fl. 5	Red round concrete tower; 28.	
7956 M 5799.5	-Ozaki Ko.	34° 29.9' N 134° 51.5' E	Iso.R. period 4s	39 12	4	Red tower; 29.	
7960 M 5802	-Ei Ko, W. breakwater, head.	34° 28.2' N 134° 49.8' E	Iso.R. period 6s	33 10	5	Red round concrete tower; 22.	
7962	-Harima Nada Light Buoy 4.	34° 30.1' N 134° 38.7' E	Mo.(A)W. period 8s			SAFE WATER RW, pillar, topmark.	
	-RACON		K(- • -)		5		(3cm).
7964 M 5803	-Awazi Yamada Ko.	34° 27.0' N 134° 48.0' E	Oc.R. period 4s	28 9	4	Red tower; 19.	
JAPAN-SETO NAIKAI-EASTERN PART (II)							
7968 M 5804	-Tusi Ko, breakwater, head.	34° 24.9' N 134° 46.8' E	Fl.R. period 4s	43 13	5	Red round concrete tower; 32.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (II)							
7972 M 5806	-Torikai Ko, breakwater.	34° 22.3' N 134° 44.8' E	Iso.G. period 4s	39 12	4	White tower; 31.	
7976 M 5809.2	-Minato Ko, E. breakwater, head.	34° 20.0' N 134° 43.5' E	Fl.(2)G. period 7s	36 11	5	White tower; 31.	
7980 M 5809	--W. breakwater.	34° 20.0' N 134° 43.4' E	Fl.(2)R. period 7s	39 12	5	Red tower; 28.	
7984 M 5811	-Muruyama Ko, W. breakwater, head.	34° 17.4' N 134° 39.6' E	Fl.G. period 4s	36 11	4	White round concrete tower; 23.	
7986	Ibi Ko.	34° 15.3' N 134° 40.4' E	Fl.R. period 3s	24 7	3	Red tower; 16.	
7988 M 5551.3	Kameura Ko.	34° 14.0' N 134° 37.4' E	Fl.R. period 5s	39 12	5	Red tower; 32.	
7988.5 M 5551.6	-W. breakwater, head.	34° 14.1' N 134° 38.1' E	Fl.G. period 3s	28 8	3	White tower; 16.	
7994 M 5551	Kitadomari.	34° 14.4' N 134° 35.3' E	Fl.R. period 4s	36 11	5	Red tower; 28.	
7996 M 5550.9	Awata Ko, breakwater.	34° 13.5' N 134° 32.8' E	Fl.R. period 3s	46 14	3	Red round concrete structure; 36.	
8000 M 5550.85	Awa Oura.	34° 13.6' N 134° 31.5' E	Fl.(2)R. period 6s	33 10	5	Red tower; 21.	
8004 M 5550.8	Orino Ko, breakwater.	34° 12.7' N 134° 28.9' E	Fl.G. period 3s	43 13	5	White tower; 21.	
8008 M 5550.5	Hiketa Hana.	34° 14.0' N 134° 24.7' E	Iso.W. period 6s	246 75	8	White round concrete tower; 23.	
8012 M 5550.7	Hiketa Ko.	34° 13.7' N 134° 24.5' E	Fl.G. period 5s	33 10	3	White tower; 28.	
8016 M 5550.6	-Breakwater.	34° 13.5' N 134° 24.7' E	Iso.R. period 6s	39 12	4	Red tower; 27.	
8024 M 5550.2	Sanbonmatu Ko, W. breakwater.	34° 15.4' N 134° 20.5' E	Fl.(2)R. period 6s	43 13	7	Red tower; 30.	
8028 M 5550.3	-Detached breakwater, NW. head.	34° 15.5' N 134° 20.7' E	Fl.G. period 3s	36 11	3	White round concrete tower, square base; 28.	
8030 M 5549.7	Wakimoto Ko.	34° 17.0' N 134° 16.7' E	Fl.R. period 3s	32 10	4	Red tower; 19.	
8031 M 5550	Tuda Ko, breakwater, head.	34° 17.8' N 134° 15.1' E	Iso.R. period 6s	36 11	5	Red tower; 28.	
8031.5 M 5549.95	Tuda Wan, breakwater.	34° 19.1' N 134° 15.7' E	Fl.(2)R. period 6s	26 8	3	Red tower; 16.	
8032 M 5549.6	Umaga Hana.	34° 21.0' N 134° 15.0' E	Fl.W. period 10s	187 57	20	White square concrete tower; 36. Visible 073°-309°.	
8033 M 5549.5	Oda Wan, breakwater, head.	34° 20.3' N 134° 14.1' E	Fl.G. period 3s	23 7	3	White tower; 16.	
8034 M 5549.55	Okushi Saki.	34° 22.2' N 134° 12.7' E	Mo.(A)R. period 8s	25 8	4	STARBOARD (B) R, beacon, topmark; 18.	
8036 M 5751.4	Inusima Siroisi.	34° 33.8' N 134° 06.8' E	Q.(3)W. period 10s	33 10	5	E. CARDINAL BYB, beacon, topmark; 23.	
8038 M 5751.5	Asahi Ko.	34° 35.1' N 134° 06.1' E	Fl.R. period 5s	26 8	3	Red tower; 18.	
8040 M 5748.6	Kome Saki.	34° 34.6' N 134° 02.8' E	Iso.W. period 6s	82 25	8	White round concrete tower; 33.	
8044 M 5750	Bisyago Iwa.	34° 36.5' N 134° 02.4' E	Mo.(A)G. period 8s	33 10	3	PORT (B) G, tower, topmark; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (II)							
8048 M 5749	Saidaizi Ko.	34° 36.2' N 134° 01.8' E	Fl.(2)R. period 6s	42 13	5	Red tower; 31.	
8052 M 5751	Tubusi Syo.	34° 36.1' N 134° 00.8' E	Mo.(A)R. period 8s	36 11	3	STARBOARD (B) R, tower, topmark; 33.	
8056 M 5751.2	Okayama Ko, W. breakwater.	34° 35.6' N 133° 57.4' E	Fl.(2)G. period 6s	33 10	5	White round concrete tower; 28.	
8058 M 5748.5	-Breakwater, W. head.	34° 29.5' N 134° 05.8' E	Fl.G. period 3s	28 9	3	White tower; 18.	
8060 M 5748.3	Ieura Ko.	34° 29.5' N 134° 03.6' E	Fl.(2)G. period 6s	39 12	6	White tower; 28.	
8064 M 5747.6	Kurakake Hana.	34° 28.8' N 134° 01.2' E	Iso.W. period 6s	187 57	8	White round concrete tower; 36.	
8070 M 5748	Ohirushima.	34° 30.7' N 134° 00.9' E	Fl.W. period 5s	121 37	7	White metal tower; 49.	
8072 M 5741.7	Desaki Uchi.	34° 30.9' N 133° 58.0' E	Mo.(D)Y. period 8s	17 5	5	SPECIAL Y, beacon, "X" topmark; 18.	
8074 M 5747	Kyonojoro Shima.	34° 29.3' N 133° 59.0' E	Fl.W. period 4s	39 12	5	White round concrete tower; 18.	
8078 M 5743	Tera Shima.	34° 28.8' N 133° 58.3' E	Fl.W. period 3s	33 10	5	White tower; 29.	
8082 M 5740	Uno Ko.	34° 28.4' N 133° 56.9' E	Fl.W. period 3s	36 11	5	White tower; 30.	Visible 311°-219°.
8086 M 5739	Kazura Shima.	34° 28.1' N 133° 57.5' E	Fl.(2)W. period 6s	76 23	5	White tower; 36.	
8088 M 5747.3	Honmura.	34° 27.6' N 134° 00.0' E	Fl.G. period 3s	26 8	5	White tower; 18.	
8088.5 M 5747.4	Naoshima-ko.	34° 27.3' N 134° 00.1' E	Iso.G. period 4s	26 8	4	White tower; 18.	
8090 M 5744	Miyanoura Ko.	34° 27.4' N 133° 58.2' E	Fl.(2)R. period 6s	39 12	5	Red tower; 28.	
8094 M 5746	Manaitaishi.	34° 26.8' N 133° 58.1' E	Mo.(A)G. period 8s	43 13	5	PORT (B) G, tower, topmark; 36.	
8098 M 5738	Inumodori Hana.	34° 27.3' N 133° 56.6' E	Mo.(D)G. period 13s	43 13	7	PORT (B) G, tower, topmark; 28.	
8102 M 5737.7	Hibi Ko, E. breakwater.	34° 27.2' N 133° 55.8' E	Fl.R. period 3s	43 13	3	Red round concrete tower; 31.	
8106 M 5737.8	W. breakwater No 3.	34° 27.1' N 133° 55.8' E	Fl.G. period 3s	39 12	5	White round concrete tower; 32.	
8110 M 5737.5	Kotoura Ko, E. breakwater.	34° 28.2' N 133° 50.1' E	Iso.R. period 6s	36 11	5	Red tower; 28.	
8114 M 5737	Kusumi Hana.	34° 25.8' N 133° 49.2' E	Mo.(A)G. period 8s	39 12	5	PORT (B) G, tower, topmark; 33.	
8118 M 5735	Shimotsui Ko.	34° 26.3' N 133° 47.5' E	F.Fl.(2)R. period 8s	32 10	F. 2 Fl. 5	Red round concrete tower; 28.	
8119 M 5549.9	Shirakata Ko, breakwater.	34° 20.7' N 134° 11.6' E	Iso.G. period 6s	27 8	5	White tower; 19.	
8120 M 5546.8	Sido Ko, breakwater, E.	34° 19.5' N 134° 10.6' E	Iso.R. period 4s	36 11	5	Red round concrete tower; 29.	
8124 M 5546.5	Mure Ko, breakwater.	34° 20.6' N 134° 09.4' E	Oc.R. period 5s	36 11	5	Red square concrete tower; 32.	
8128 M 5545.6	Inagi Shima.	34° 24.6' N 134° 08.3' E	Fl.W. period 3s	109 33	11	White tower; 39.	F.W. located 223°40' 2,240 meters from light. Illuminates Siraisi Suo about 280 meters W.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (II)							
8132 <i>M 5546</i>	Kanawa Iwa.	34° 25.3' N 134° 07.8' E	Mo.(A)R. period 8s	46 14	7	STARBOARD (B) R, tower, topmark; 38.	
8136 <i>M 5545</i>	Aji Ko, breakwater.	34° 23.2' N 134° 07.3' E	Iso.R. period 4s	39 12	5	Red tower; 31.	
8144 <i>M 5538</i>	Ogi Sima.	34° 26.0' N 134° 03.6' E	Fl.W.R.G. period 10s	52 16	12	White round stone tower; 46.	G. 052°-073°, W.-081°, R.- 092°, W.-280°.
8150 <i>M 5538.7</i>	-Ogi Gyoko.	34° 25.1' N 134° 03.4' E	Fl.R. period 3s	26 8	4	Red tower; 19.	
8152 <i>M 5538.6</i>	--Outer breakwater.	34° 25.2' N 134° 03.2' E	Oc.G. period 4s lt. 3s, ec. 1s	33 10	5	White tower; 28.	
8155 <i>M 5539.25</i>	Megi Shima, E. breakwater.	34° 23.3' N 134° 03.2' E	Fl.G. period 3s	25 8	5	White tower; 10.	
8156 <i>M 5539.2</i>	-W. breakwater.	34° 23.3' N 134° 03.1' E	Iso.R. period 4s	39 12	4	Red tower; 30.	
8160 <i>M 5539</i>	-Hotsuchi Hana.	34° 22.8' N 134° 02.3' E	Iso.W. period 6s	151 46	14	White tower; 32.	
TAKAMATSU KO:							
8164 <i>M 5540.8</i>	-Detached breakwater, NE. head.	34° 22.0' N 134° 03.6' E	Oc.R. period 8s lt. 6s, ec. 2s	52 16	11	Red round tower; 46.	
8168 <i>M 5540.9</i>	--SW.	34° 21.7' N 134° 03.3' E	Iso.G. period 6s	42 13	5	White tower; 33.	
8172 <i>M 5541</i>	-Asahimachi, breakwater, head.	34° 21.6' N 134° 03.5' E	Fl.(2)R. period 6s	39 12	3	Red tower; 30.	
8176 <i>M 5541.6</i>	-Breakwater, N. head.	34° 21.7' N 134° 03.1' E	Iso.R. period 6s	56 17	11	Red tower; 46.	
8181 <i>M 5732.17</i>	-Aosa Hana, breakwater.	34° 27.9' N 133° 33.5' E	Fl.R. period 3s	31 9	4	Red tower; 19.	
8196 <i>M 5540.6</i>	-Breakwater No 8.	34° 21.2' N 134° 02.0' E	Fl.R. period 3s	36 11	5	Red tower; 32.	
8204 <i>M 5540</i>	Tsuruuchi Ko, E. breakwater.	34° 21.4' N 134° 01.1' E	Fl.(2)G. period 6s	36 11	3	White tower; 30.	
8205 <i>M 5539.6</i>	-Kagawaken.	34° 21.6' N 134° 00.0' E	Fl.R. period 3s	26 8	4	Red tower; 11.	
8208 <i>M 5536</i>	Kozuti Sima.	34° 23.8' N 133° 55.4' E	Iso.W. period 6s	49 15	8	White round concrete tower; 39.	
8212 <i>M 5535</i>	Kosei Sima.	34° 22.4' N 133° 51.1' E	Fl.W. period 3s	89 27	7	White round concrete tower; 46.	
8216 <i>M 5533</i>	Nabe Shima.	34° 22.9' N 133° 49.4' E	Al.R.G. period 16s	95 29	11	White round stone tower; 32.	Visible 191°-091°.
8220 <i>M 5534</i>	Yoshima Ko, breakwater No 3.	34° 23.0' N 133° 49.5' E	Iso.G. period 6s	39 12	5	White tower; 28.	
8228 <i>M 5507</i>	Honshima Ko, W. breakwater.	34° 22.9' N 133° 47.1' E	Fl.G. period 5s	39 12	7	White round concrete tower; 29.	
8232 <i>M 5506</i>	Usi Shima.	34° 22.0' N 133° 46.8' E	Mo.(D)R. period 10s	46 14	7	STARBOARD (B) R, tower, topmark; 43.	Visible 048°-301°.
8236 <i>M 5504.5</i>	Enoura Ko.	34° 21.7' N 133° 43.1' E	Iso.G. period 6s	43 13	5	White tower; 31.	
8240 <i>M 5504</i>	Habushi Iwa.	34° 20.7' N 133° 42.8' E	Fl.(2)W. period 5s	49 15	7	ISOLATED DANGER BRB, tower, topmark; 43.	
	RACON		OE(- - - •)		5		(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (II)							
8244 M 5503.5	Takami Ko.	34° 18.5' N 133° 40.9' E	Fl.(3)G. period 12s	39 12	7	White round concrete structure; 31.	
8248 M 5503	Itamochi Hana.	34° 19.5' N 133° 39.8' E	Oc.W. period 4s	36 11	11	White round concrete tower; 27.	
8252 M 5502	Futaomote Shima.	34° 18.1' N 133° 37.3' E	Fl.W. period 3s	95 29	7	White tower; 33.	
8256 M 5734	Mukuchi Shima.	34° 25.9' N 133° 45.6' E	Q.W.	43 13	5	N. CARDINAL BY, beacon, topmark; 33.	
8260 M 5505	Aoki Ko, breakwater No 1.	34° 22.0' N 133° 41.2' E	Fl.R. period 3s	39 12	7	Red round concrete tower; 28.	
8264 M 5502.5	Sanagi Ko, N. breakwater, S. head.	34° 21.0' N 133° 37.5' E	Fl.R. period 4s	39 12	7	Red tower; 28.	
8268 M 5502.7	-S. breakwater, N. head.	34° 20.1' N 133° 37.8' E	Iso.G. period 6s	30 9	5	White tower; 18.	
8272 M 5733	Mizushima Ko, breakwater.	34° 28.1' N 133° 44.0' E	Fl.(2)G. period 5s	42 13	5	White tower; 32.	
8274 M 5732.2	Otosima Ko, breakwater.	34° 31.4' N 133° 41.4' E	Iso.R. period 6s	39 12	3	Red tower; 18.	
8276 M 5732.4	-Hachiman, breakwater, S. head.	34° 30.8' N 133° 39.9' E	Fl.G. period 4s	30 9	3	White tower; 24.	
8280 M 5732.3	-Tamashima, outer breakwater.	34° 29.8' N 133° 39.8' E	Fl.G. period 3s	39 12	5	White round concrete tower; 29.	
8282 M 5732.23	-Sami Gyoko.	34° 30.1' N 133° 38.4' E	Fl.R. period 3s	28 9	4	Red tower; 19.	
8283 M 5732.19	Yorishima Ko.	34° 29.3' N 133° 35.7' E	Fl.(2)R. period 6s	25 8	4	Red tower; 17.	
8284 M 5732.15	Manabeshima Ko.	34° 21.4' N 133° 34.8' E	Fl.R. period 3s	43 13	3	Red tower; 31.	
8288 M 5732.04	Kitagishima Ko.	34° 22.7' N 133° 32.9' E	Fl.(2)R. period 6s	42 13	5	Red tower; 30.	
8292 M 5732.08	Toyoura Ko, breakwater, head.	34° 23.8' N 133° 32.1' E	Iso.R. period 6s	26 8	5	Red tower; 18.	
8294 M 5732.11	Kanafuro Ko, breakwater.	34° 23.5' N 133° 31.6' E	Fl.G. period 3s	31 9	3	White tower; 18.	
8296 M 5732.02	Shiraishishima Ko.	34° 24.7' N 133° 31.1' E	Fl.R. period 5s	40 12	3	Red tower; 28.	
8300 M 5732	Okinoshiraishi.	34° 25.0' N 133° 30.8' E	Fl.W. period 3s	46 14	5	White tower; 39.	
8304 M 5731.9	Hyakken Zowai.	34° 25.3' N 133° 29.7' E	Mo.(A)G. period 8s	43 13	5	PORT (B) G, tower, topmark; 33.	
8306 M 5731.85	Bittyu Takasima Ko.	34° 25.9' N 133° 30.2' E	Iso.G. period 6s	26 8	5	White tower; 19.	
8308 M 5731.8	Konoshimasoto Ko.	34° 26.9' N 133° 30.6' E	Fl.R. period 3s	31 9	5	Red tower; 18.	
8310 M 5507.5	Kamishinden Ko, breakwater, S. head.	34° 16.6' N 133° 39.3' E	Fl.R. period 6s	24 7	3	Red tower; 18.	
8312 M 5731.7	Katashima.	34° 29.0' N 133° 30.9' E	Mo.(A)G. period 9s	27 8	3	Green tower, square daymark; 33.	
8320 M 5524	Sakaide Ko, W. breakwater, head.	34° 19.8' N 133° 51.0' E	Fl.(2)R. period 6s	36 11	5	Red round concrete tower; 26.	
8324 M 5525	-Mitubisikasei Sakaide, range, front.	34° 21.1' N 133° 50.6' E	F.G.	112 34	11	Tower, white triangular daymark point up; 105.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (II)							
8328 <i>M 5525.1</i>	--Rear, 700 meters 181°18' from front.	34° 20.7' N 133° 50.6' E	F.G.	184 56	11	Tower, white triangular daymark point down; 174.	
8332 <i>M 5530</i>	-Sea berth.	34° 21.7' N 133° 50.2' E	Mo.(U)W. period 14s	115 35	10		Mo.(U)W. 14s 12m 9M Siren 200 meters NE. and 230 meters SW. Radar reflector.
8336 <i>M 5521.5</i>	Kitaura, breakwater, head.	34° 19.5' N 133° 49.3' E	Fl.G. period 3s	43 13	5	White tower; 31.	
8340 <i>M 5520.8</i>	Horai-tyo, breakwater, head.	34° 18.6' N 133° 47.0' E	Fl.(2)R. period 6s	39 12	5	Red tower; 27.	
8344 <i>M 5518</i>	Syowamati, breakwater, head.	34° 18.3' N 133° 46.1' E	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	39 12	4	Red tower; 30.	
8348 <i>M 5515</i>	Tadotsu Ko, E breakwater, head.	34° 16.6' N 133° 44.5' E	Iso.G. period 6s	33 10	9	White tower; 28.	
8352 <i>M 5512</i>	-Inner harbor, W. breakwater, N. head.	34° 17.0' N 133° 44.2' E	Fl.R. period 3s	36 11	5	Red tower; 27.	
8364 <i>M 5509</i>	Mitama Iwa.	34° 14.9' N 133° 40.4' E	Mo.(A)R. period 8s	33 10	7	STARBOARD (B) R, tower, topmark; 26.	
8368 <i>M 5508</i>	-Suda Ichimonji.	34° 14.1' N 133° 39.2' E	Fl.R. period 3s	30 9	3	Red tower; 18.	
8372 <i>M 5501</i>	Hako Saki.	34° 15.6' N 133° 35.5' E	Fl.W. period 3s	82 25	5	White round concrete tower; 26.	
8376 <i>M 5499</i>	Sanuki Misaki.	34° 15.7' N 133° 33.5' E	Iso.W. period 8s	226 69	12	White tower; 36.	
8380 <i>M 5500</i>	Mushima.	34° 18.0' N 133° 32.0' E	Iso.W. period 6s	230 70	14	White tower; 43.	Visible 204°-099°.
	RACON		(- - - - -)		15		(3cm). Azimuth coverage 202°-110°.
8380.5 <i>M 5499.9</i>	-Breakwater, head.	34° 18.6' N 133° 32.2' E	Fl.G. period 3s	31 9	3	White tower; 16.	
8384 <i>M 5482</i>	Taki kami Sima.	34° 11.7' N 133° 16.1' E	Al.FI.(2+1)W.R. period 20s W. fl. 1.5s, ec. 2.5s W. fl. 1.5s, ec. 6.5s R. fl. 1.5s, ec. 6.5s	443 135	17	White tower; 39.	Visible 034°-279°.
	RACON		(- - - - -)		15		(3cm). Azimuth coverage 027°-285°.
8386 <i>M 5500.5</i>	Obi Shima, breakwater.	34° 20.6' N 133° 30.5' E	Fl.G. period 3s	29 9	5	White tower; 18.	
8388 <i>M 5731</i>	Hasiri Ko, W.	34° 21.0' N 133° 25.9' E	Fl.G. period 4s	46 14	7	White tower; 33.	
8388.5 <i>M 5731.2</i>	-N. side.	34° 20.6' N 133° 26.9' E	Fl.(2)G. period 6s	29 9	3	White tower; 16.	
8392 <i>M 5730</i>	Konoishi.	34° 22.0' N 133° 25.6' E	Fl.(2)W. period 5s	46 14	5	ISOLATED DANGER BRB, tower, topmark; 39.	
8393 <i>M 5729.9</i>	Approach, No 1.	34° 23.2' N 133° 26.6' E	Fl.(2)G. period 6s	23 7	5	PORT (B) G, beacon, topmark; 26.	Channel marked by lighted buoys and beacons. Radar reflector.
8396 <i>M 5729.8</i>	Nihonkoku Hukuyama Ko Range, Front.	34° 28.7' N 133° 26.9' E	FR.	72 22	5	White spar beacon, triangular daymark point up; 69.	
8400 <i>M 5729.81</i>	-Rear, 300 meters 000°30' from front.	34° 28.9' N 133° 26.9' E	FR.	125 38	5	White spar beacon, triangular daymark point up; 118.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (II)							
HUKUYAMA KO:							
8404 M 5729.7	-Range, front.	34° 27.3' N 133° 24.6' E	FR.	46 14	5	White spar beacon, triangular daymark point up; 39.	
8408 M 5729.71	-Rear, about 130 meters 300° from front.	34° 27.4' N 133° 24.5' E	FR.	56 17	5	White spar beacon, triangular daymark point down; 39.	
8410 M 5729.5	-Light beacon.	34° 22.8' N 133° 23.3' E	Mo.(A)R. period 8s	32 10	3	STARBOARD (B) R, beacon, topmark; 25.	
8412 M 5729.4	Tomo Ichimonji, detached breakwater, E. head.	34° 22.7' N 133° 23.0' E	Fl.G. period 3s	39 12	3	White tower; 29.	
8416 M 5729.6	-Tamatsu Shima, breakwater, head.	34° 22.5' N 133° 22.9' E	Iso.G. period 6s	39 12	5	White tower; 28.	
8420 M 5729	Abura Syo.	34° 21.9' N 133° 21.6' E	Fl.(2)W. period 5s	28 9	3	ISOLATED DANGER BRB, beacon, tower; 19.	
8424 M 5728.5	Abuto Saki.	34° 22.0' N 133° 20.8' E	Iso.W. period 6s	289 88	8	White tower; 27.	
8428 M 5728.7	Hakosaki Ko, breakwater.	34° 21.5' N 133° 20.3' E	Fl.R. period 3s	46 14	3	Red tower; 28.	
BINGO NADA:							
8436 M 5727	-Ono Zowai.	34° 22.6' N 133° 18.2' E	Mo.(D)R. period 8s	33 10	3	STARBOARD (B) R, tower, topmark; 33.	
8440 M 5726	-Kurikuwa Zowai.	34° 22.9' N 133° 17.5' E	Mo.(D)G. period 8s	31 9	3	PORT (B) G, tower, topmark; 20.	
8444 M 5725	-Katabira Zowai.	34° 22.2' N 133° 17.0' E	Fl.(2)W. period 5s	31 9	5	ISOLATED DANGER BRB, beacon, topmark; 26.	
8448 M 5725.4	Yokota Ko, breakwater.	34° 21.0' N 133° 17.4' E	Fl.(2)R. period 6s	46 14	3	Red tower; 31.	
8450 M 5724.9	Ebi Ko, breakwater.	34° 23.6' N 133° 15.7' E	Fl.G. period 3s	30 9	3	White tower; 18.	
8450.5 M 5723.7	Breakwater, head.	34° 24.0' N 133° 14.8' E	Fl.G. period 5s	29 9	4	White tower; 18.	
8452 M 5722	Onomiti.	34° 24.1' N 133° 11.7' E	Fl.W. period 4s	108 33	10	White round concrete tower; 36.	
8456 M 5723	Usino Ura.	34° 23.7' N 133° 10.7' E	Fl.(2)W. period 7s	92 28	5	White tower; 33.	
8458 M 5723.4	Itozaki Ko.	34° 23.7' N 133° 09.9' E	Iso.G. period 6s	26 8	5	White tower; 19.	
8460 M 5728	Hyakkan Sima.	34° 18.0' N 133° 16.5' E	Fl.W. period 10s	246 75	20	White round stone tower; 30.	
8464 M 5724.4	Hosaki, breakwater, head.	34° 18.0' N 133° 11.8' E	Iso.G. period 6s	43 13	5	White tower; 32.	
8468 M 5724	Ohama Saki.	34° 21.5' N 133° 10.4' E	Iso.W.R. period 6s	59 18	12	White round stone tower; 30.	W. 120°-125°, R.-130°, W.-312°.
8472 M 5720	Tyodayu.	34° 22.4' N 133° 08.3' E	Q.W.	30 9	3	N. CARDINAL BY, beacon, topmark; 22.	
8474 M 5723.3	Hoso Sima.	34° 21.6' N 133° 08.3' E	Fl.(2)G. period 6s	28 8	4	White tower; 18.	
8476 M 5719	Hakanshima.	34° 21.6' N 133° 07.5' E	Q.(9)W. period 15s	33 10	3	W. CARDINAL YBY, beacon, topmark; 26.	
8478 M 5719.5	Sheigei Ko.	34° 20.5' N 133° 08.2' E	Fl.R. period 3s	26 8	4	Red tower; 19.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (II)							
8479 M 5718.5	Sagi Ko, breakwater.	34° 21.5' N 133° 07.1' E	Fl.G. period 3s	26 8	5	White tower; 20.	
8480 M 5718	Sagi Shima.	34° 21.6' N 133° 07.0' E	Oc.W. period 8s lt. 6s, ec. 2s	89 27	4	White tower; 21.	
8484 M 5717.4	-Ko Sagi, SE. part of Island.	34° 21.7' N 133° 06.4' E	F.W.	62 19		White round concrete tower; 39.	Illuminates beacon about 130 meters E.
8488 M 5716	Kosagi Shima.	34° 21.9' N 133° 06.0' E	Fl.W. period 4s	79 24	7	White round stone tower; 21.	Visible 020°-236°.
8490 M 5715.5	Sunami Ko, breakwater.	34° 21.6' N 133° 05.1' E	Fl.R. period 3s	27 8	4	Red tower; 19.	
8492 M 5715	Toramaru Syo.	34° 20.5' N 133° 05.8' E	Mo.(A)R. period 8s	33 10	3	STARBOARD (B) R, tower, topmark; 24.	
8496 M 5714	Kone Sima.	34° 20.0' N 133° 04.6' E	Iso.W. period 8s	148 45	8	White round concrete tower; 16.	Visible 053°-279°.
8500 M 5713	Tadanoumi Ko.	34° 20.2' N 132° 59.7' E	Iso.R. period 4s	30 9	4	Red round concrete tower; 20.	
8504 M 5712	Okuno Sima.	34° 18.1' N 132° 59.6' E	Iso.W.R. period 6s	69 21	14	White round stone tower; 28.	W. 231°-035°, R.-056°, W.-100°.
8512 M 5706	Mebaruzaki Ko, breakwater, head.	34° 16.7' N 132° 56.5' E	Fl.G. period 3s	49 15	5	White metal framework tower; 36.	
8516 M 5703	Kinoe Ko, breakwater.	34° 14.1' N 132° 55.1' E	Fl.R. period 3s	33 10	4	Red round concrete tower; 26.	
8520 M 5702	Nakano Hana.	34° 12.9' N 132° 55.2' E	Fl.(3)W.R. period 13s	148 45	11	White round stone tower; 17.	W. 170°-205°, R.-215°, W.-051°.
8524 M 5700	Oge Sima.	34° 11.3' N 132° 55.1' E	Fl.W. period 5s	115 35	14	White octagonal stone tower; 30.	Visible 356°-186°.
8526 M 5721	Onomiti Itozaki Ko, detached breakwater, S. head.	34° 23.0' N 133° 06.7' E	Fl.G. period 5s	23 7	5	Red tower; 16.	
8528 M 5710.8	Inokuti Ko.	34° 16.0' N 133° 02.7' E	Fl.R. period 4s	31 9	5	Red tower; 18.	
8536 M 5711.2	Okogi Ko, breakwater, head.	34° 16.8' N 133° 08.6' E	Iso.R. period 6s	43 13	5	Red tower; 31.	
8540 M 5711.4	Mitoko Iso.	34° 15.5' N 133° 07.6' E	Mo.(A)R. period 8s	31 9	3	STARBOARD (B) R, beacon, topmark; 26.	
8542 M 5475.7	Tayudo Saki, breakwater.	34° 14.3' N 133° 05.9' E	Fl.G. period 4s	26 8	3	White tower; 16.	
8544 M 5711.5	Iwagi Ko, breakwater, head.	34° 14.6' N 133° 08.8' E	Fl.G. period 3s	31 9	5	White tower; 18.	
8550 M 5711.8	Nagae Ko, breakwater.	34° 16.4' N 133° 09.6' E	F.Fl.R. period 4s	29 9	F. 2 Fl. 5	Red tower; 19.	
8552 M 5724.2	Habu Ko, breakwater.	34° 17.6' N 133° 10.3' E	Iso.G. period 4s	39 12	4	White tower; 31.	
8556 M 5724.8	Ikina Ko, breakwater, S. head.	34° 15.9' N 133° 11.3' E	Fl.G. period 4s	30 9	3	White tower; 18.	
8560 M 5724.6	Yuge Ko.	34° 15.5' N 133° 11.9' E	Fl.G. period 3s	30 9	3	White tower; 18.	
8564 M 5476	Hakata Ko, E. breakwater, head.	34° 12.3' N 133° 07.3' E	Fl.G. period 5s fl. 1s, ec. 4s	36 11	5	White tower; 28.	
8566 M 5476.5	-Detached breakwater, N. head.	34° 12.3' N 133° 07.8' E	Fl.(2)G. period 6s	32 10	3	White tower; 22.	
8568 M 5477	Mutsu Se.	34° 11.7' N 133° 07.8' E	Q.(3)W. period 10s	36 11	5	E. CARDINAL BYB, beacon, topmark; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (II)							
8572 <i>M 5478</i>	Hunaore Iwa.	34° 11.8' N 133° 05.5' E	Mo.(A)R. period 8s	39 12	5	STARBOARD (B) R, beacon, topmark; 27.	
8576 <i>M 5479</i>	Niwatori Ko Sima.	34° 11.5' N 133° 04.8' E	Fl.W. period 4s	49 15	7	White round concrete tower; 20.	
8577 <i>M 5477.5</i>	Miyakubo Ko, breakwater.	34° 10.3' N 133° 04.9' E	Fl.G. period 3s	36 11	3	White tower; 22.	
8580 <i>M 5481</i>	Simo Komaru Kosima.	34° 13.1' N 133° 03.4' E	Fl.(2)W. period 7s	69 21	5	White tower; 26.	
8582 <i>M 5479.5</i>	Edagosi Ko.	34° 12.3' N 133° 04.3' E	Fl.G. period 3s	30 9	3	White tower; 18.	
8584 <i>M 5480</i>	Kayatomari Hana.	34° 11.6' N 133° 01.8' E	Fl.W. period 4s	102 31	11	White square concrete tower; 26.	
8588 <i>M 5480.4</i>	Watamaki Iso.	34° 09.6' N 133° 01.8' E	Fl.(2)W. period 5s	28 9	5	ISOLATED DANGER BRB, beacon, topmark; 26.	
8592 <i>M 5498</i>	Namari Ko, middle breakwater.	34° 15.0' N 133° 34.5' E	F.Fl.G. period 6s	43 13	F. 2 Fl. 5	White round concrete tower; 26.	
KAN ONZI KO:							
8608 <i>M 5494</i>	-N. breakwater, head.	34° 07.5' N 133° 37.9' E	Iso.G. period 6s	31 9	5	White square metal tower; 19.	
8612 <i>M 5495</i>	-S. breakwater, head.	34° 07.4' N 133° 37.9' E	Iso.R. period 6s	39 12	8	Red round concrete tower, square base; 32.	
8616 <i>M 5496</i>	-Ichimonjii, breakwater, S. head.	34° 07.4' N 133° 37.7' E	Fl.G. period 4s	30 9	5	White tower; 21.	
8620 <i>M 5484</i>	Ibuki Ko, breakwater.	34° 08.0' N 133° 32.1' E	Fl.R. period 4s	43 13	7	Red round concrete tower; 28.	
8624 <i>M 5483</i>	Aka Saki.	34° 07.5' N 133° 31.9' E	Fl.W. period 3s	43 13	7	White round concrete tower; 27.	
8636 <i>M 5490</i>	Sanuki Toyohama Ko, W. breakwater.	34° 04.9' N 133° 37.8' E	Oc.R. period 4s lt. 3s, ec. 1s	36 11	4	Red round concrete tower; 26.	
8640 <i>M 5488</i>	Kawanoe Ko, breakwater No 4, head.	34° 01.4' N 133° 34.3' E	Fl.G. period 3s	33 10	5	White tower; 22.	
8645 <i>M 5488.5</i>	-Outer breakwater, NE. head.	34° 01.7' N 133° 34.3' E	Fl.(2)R. period 5s	43 13	5	Red tower; 28.	
8647 <i>M 5484.6</i>	Mishima, E. detached breakwater, N. head.	34° 00.2' N 133° 32.0' E	Fl.(2)R. period 6s	36 11	5	Red tower; 28.	
8648 <i>M 5484.65</i>	-N. detached breakwater, SW. head.	34° 00.4' N 133° 32.2' E	Fl.G. period 3s	39 12	3	White tower; 27.	
8653 <i>M 5484.4</i>	-Sangawa Ko.	33° 58.4' N 133° 30.8' E	Fl.R. period 4s	36 11	4	Red tower; 19.	
8654 <i>M 5475.5</i>	-Oshima Gyoko, breakwater, S. head.	33° 59.6' N 133° 22.1' E	Fl.R. period 5s	31 9	3	Red tower; 18.	
NIIHAMA KO:							
8656 <i>M 5472</i>	-E. breakwater, head.	33° 58.8' N 133° 15.9' E	Fl.(2)G. period 6s	43 13	7	White tower; 33.	
8660 <i>M 5473</i>	-W. breakwater, head.	33° 58.8' N 133° 15.7' E	Iso.R. period 6s	43 13	11	Red tower; 33.	
8672 <i>M 5471</i>	-Hunagami Iwa.	33° 58.4' N 133° 14.2' E	Fl.(2)W. period 5s	33 10	5	ISOLATED DANGER BRB, beacon, topmark; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (II)							
8676 <i>M 5470.7</i>	Saizjo Ko Range, front.	33° 55.6' N 133° 10.7' E	F.R. (neon)	23 7	6	White round concrete tower, white triangular daymark point up; 22.	
8680 <i>M 5470.71</i>	-Rear, about 100 meters 156° from front.	33° 55.5' N 133° 10.7' E	F.R. (neon)	33 10	6	White round concrete tower, white triangular daymark point down; 32.	
8682 <i>M 5474.8</i>	Matsunoki, breakwater.	33° 59.1' N 133° 17.5' E	Fl.G. period 4s	33 10	5	White tower; 18.	
8684 <i>M 5475</i>	Habu Saki.	33° 59.6' N 133° 19.2' E	Fl.(3)W. period 13s	174 53	7	White tower; 36.	
8686 <i>M 5475.4</i>	Takahama Ku.	33° 59.5' N 133° 20.2' E	F.Fl.(2)G. period 7s	39 12	F. 2 Fl. 5	White tower; 28.	
8686.5 <i>M 5475.2</i>	-W. breakwater.	33° 59.6' N 133° 20.0' E	Fl.R. period 3s	39 12	5	Red tower; 28.	
8687 <i>M 5470.6</i>	Nyukawa Ko, N. breakwater, W. head.	33° 57.3' N 133° 06.7' E	Fl.(3)G. period 12s	43 13	5	White tower; 28.	
8688 <i>M 5470.5</i>	-W. breakwater, head.	33° 57.4' N 133° 06.6' E	Fl.(3)R. period 12s	43 13	7	Red tower; 31.	
8692 <i>M 5470</i>	Higi Shima.	34° 03.5' N 133° 05.9' E	Fl.W. period 3s	233 71	8	White round concrete tower; 46.	
8696 <i>M 5470.3</i>	Okino Se.	34° 06.3' N 133° 06.4' E	Fl.(2)W. period 5s	49 15	11	ISOLATED DANGER BRB, beacon, topmark; 43.	

Section 6

Western Part of Seto Naikai and Shikoku Including Kii Suido and Bungo Suido

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
8700 <i>M 5467</i>	Imabari Ko, E. breakwater, head.	34° 04.5' N 133° 00.4' E	Iso.G. period 6s	59 18	11	White tower; 62.	
8704 <i>M 5468</i>	-N. breakwater, head.	34° 04.5' N 133° 00.1' E	Fl.(2)G. period 6s	32 10	3	White tower; 18.	
8708 <i>M 5468.5</i>	-Breakwater, head.	34° 03.9' N 133° 01.2' E	Fl.G. period 4s	52 16	7	White tower; 46.	
8712 <i>M 5464</i>	Ryujin Shima.	34° 06.3' N 133° 01.7' E	Fl.W. period 3s	49 15	7	White round concrete tower; 28.	Traffic signals shown from framework tower 810 meters NE.
8716 <i>M 5456</i>	Hinai Hana Range, front.	34° 07.7' N 133° 00.9' E	Oc.W. period 5s lt. 4s, ec. 1s	128 39	12	White tower; 25.	
8720 <i>M 5456.1</i>	-Rear, about 50 meters 122° from front.	34° 07.7' N 133° 00.9' E	Oc.W. period 5s lt. 4s, ec. 1s	151 46	12	White tower; 31.	
8724 <i>M 5462</i>	Kuru Sima.	34° 06.4' N 132° 59.0' E	Fl.R. period 3s	43 13	7	STARBOARD (B) R, tower, topmark; 33.	
8728 <i>M 5463</i>	Ama Se.	34° 06.7' N 132° 58.9' E	Fl.R. period 3s	32 10	7	STARBOARD (B) R, tower, topmark; 33.	
8732 <i>M 5460</i>	Uzu Hana.	34° 06.7' N 132° 59.5' E	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	102 31	12	White round concrete tower; 46.	
8736 <i>M 5459.7</i>	Koura Saki.	34° 07.1' N 132° 59.4' E	Fl.W. period 3s	86 26	11	White round concrete tower; 28.	
8740 <i>M 5461</i>	Nagase Hana.	34° 07.1' N 132° 59.8' E	Iso.W. period 6s	115 35	12	White tower; 26.	
8744 <i>M 5458</i>	O Sima.	34° 07.7' N 132° 59.0' E	Fl.(2)R. period 6s	56 17	7	STARBOARD (B) R, beacon, topmark; 43.	
8746 <i>M 5700.5</i>	Ago No Hana, Oge Shima, S. point.	34° 11.0' N 132° 55.9' E	Iso.W. period 6s	56 17	8	White tower; 49.	Visible 237°-100°.
8748 <i>M 5459.3</i>	Nakano Iso.	34° 07.3' N 132° 58.4' E	Mo.(A)G. period 8s	36 11	5	PORT (B) G, beacon, topmark; 25.	
Namikata Ko:							
8752 <i>M 5459.4</i>	-Hiro Se.	34° 07.5' N 132° 57.4' E	Fl.(2)W. period 5s	33 10	5	ISOLATED DANGER BRB, beacon, topmark; 26.	
8756 <i>M 5459.44</i>	-E. breakwater.	34° 07.3' N 132° 57.4' E	Fl.G. period 3s	36 11	5	White tower; 28.	
8760 <i>M 5454</i>	Ikada Iso.	34° 08.7' N 132° 56.1' E	Mo.(D)R. period 8s	46 14	5	STARBOARD (B) R, beacon, topmark; 36.	
8764 <i>M 5452</i>	Nisiura Oki.	34° 08.1' N 132° 56.2' E	Mo.(A)R. period 8s	33 10	3	STARBOARD (B) R, beacon, topmark; 30.	
8768 <i>M 5451</i>	Kazitori Hana Sea Berth.	34° 07.3' N 132° 54.4' E	Mo.(U)W. period 15s	108 33	9		Mo.(U)W. 15s 6M on piers 650 meters E. and 660 meters W.
8772 <i>M 5450</i>	Kuru Sima.	34° 07.1' N 132° 53.5' E	Fl.(2)W. period 7s	207 63	13	White tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
8774	Kurushima Kaikyo Buoy No 7.	34° 05.7' N 133° 02.3' E	Fl.(2)G. period 6s			PORT (B) G, pillar, topmark.	
	RACON		OE(- - - *)		5		
8776 M 5652	Nokutuna Sima.	33° 58.0' N 132° 41.8' E	Oc.(2)W. period 12s	43 13	8	White tower; 21.	
8778 M 5652.5	-Breakwater.	33° 58.5' N 132° 41.2' E	Fl.G. period 3s	30 9	5	White tower; 19.	
8780 M 5651.8	Ho Saki.	33° 57.1' N 132° 40.5' E	Mo.(A)G. period 8s	39 12	5	PORT (B) G, beacon, topmark; 28.	
8784 M 5653	Iyo Nakasima Ko, S. breakwater, head.	33° 58.4' N 132° 38.0' E	Iso.G. period 6s	39 12	5	White tower; 26.	
8788 M 5448	Kikuma Sea berth.	34° 03.2' N 132° 51.2' E	Mo.(U)W. period 10s	95 29	10		Auxiliary lights Mo.(U)W. located 150 meters NE. and 170 meters SW. of main light. Private light. Radar reflector.
8790 M 5446	Kikuma Ko, breakwater, head.	34° 02.3' N 132° 50.3' E	Fl.(2)R. period 6s	36 11	7	Red tower; 31.	
8792 M 5447	Siode Iso.	34° 00.9' N 132° 47.4' E	Mo.(A)R. period 8s	49 15	5	STARBOARD (B) R, tower, topmark; 39.	
8796 M 5444	Hazumano Hana.	34° 00.0' N 132° 46.0' E	Oc.W. period 8s lt. 6s, ec. 2s	203 62	8	White tower; 33.	
8800 M 5442	Hozyo Ko, N. jetty, head.	33° 58.6' N 132° 46.2' E	Fl.(3)G. period 7s	39 12	7	White round concrete tower; 32.	
8804 M 5441	-Ka Sima, breakwater.	33° 58.6' N 132° 45.9' E	Fl.R. period 3s	39 12	5	Red round concrete tower; 32.	
8806 M 5439.8	Yanagihara Ko, breakwater.	33° 57.3' N 132° 46.1' E	Iso.G. period 6s	31 9	5	White tower; 20.	
8810 M 5439	Horie Ko, breakwater, W.	33° 54.4' N 132° 44.8' E	Fl.G. period 4s	36 11	7	White tower; 28.	
8812 M 5437	Tumuri Saki.	33° 55.6' N 132° 42.1' E	Fl.(2)W. period 6s	154 47	7	White round concrete tower; 36.	
8816 M 5710	Takehara Ko, breakwater, head.	34° 19.6' N 132° 54.9' E	Fl.G. period 3s	30 9	5	White tower; 19.	
8820 M 5708	Sakaridani, breakwater.	34° 16.4' N 132° 55.0' E	Iso.G. period 6s	39 12	4	White round concrete tower; 30.	
8822 M 5709	Onisi Ko.	34° 15.0' N 132° 52.6' E	Fl.G. period 3s	30 9	3	White tower; 19.	
8824 M 5710.6	Ikari Sima.	34° 17.9' N 132° 52.5' E	Mo.(A)G. period 8s	36 11	5	PORT (B) G, tower, topmark; 26.	
8828 M 5698.4	Tukuga Sima.	34° 15.6' N 132° 50.1' E	Mo.(A)R. period 8s	33 10	5	STARBOARD (B) R, beacon, topmark; 27.	
8830 M 5699.4	Akitu Ko, E. harbor, breakwater.	34° 18.9' N 132° 49.5' E	Fl.(2)G. period 6s	30 9	3	White tower; 18.	
8832 M 5699	Akitu Ko, breakwater.	34° 18.9' N 132° 49.2' E	Fl.G. period 5s	36 11	7	White round concrete tower; 28.	
8834 M 5697.9	Mituguti Wan Bridge.	34° 16.6' N 132° 47.4' E	Iso.R. period 4s	75 23	3		
			Iso.G. period 4s	66 20	3		F.Y. mark extremity of bridge.
8836 M 5698	Simoikari Iso.	34° 15.2' N 132° 47.6' E	Fl.(2)W. period 5s	31 9	5	ISOLATED DANGER BRB, beacon, topmark; 24.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
8840 M 5697.5	Kinoe Sea berth.	34° 12.6' N 132° 51.2' E	Mo.(U)W. period 15s	46 14	9		Mo.(U)W. 15s 5M marks end of pier.
8844 M 5697.6	Okiura Ko, breakwater, head.	34° 12.3' N 132° 52.5' E	Iso.G. period 4s	43 13	3	White tower; 31.	
8846 M 5697.7	Okamura Ko, breakwater.	34° 11.0' N 132° 53.1' E	F.FL.G. period 3s	32 10	F. 2 Fl. 5	White tower; 18.	
8848 M 5697	Mitarai Ko, breakwater, head.	34° 10.7' N 132° 52.1' E	Iso.G. period 6s	46 14	5	White round concrete tower; 32.	
8852 M 5697.1	-Otyo, breakwater.	34° 10.9' N 132° 51.7' E	Fl.G. period 4s	39 12	3	White tower; 32.	
8856 M 5697.2	O Sima, Mitarai approach.	34° 11.7' N 132° 51.3' E	Fl.W. period 3s	36 11	7	White round column, square base; 31.	
8860 M 5697.4	Kubi Ura, breakwater, W. head.	34° 11.3' N 132° 49.7' E	Fl.G. period 4s	39 12	5	White tower; 26.	
8864 M 5696.4	Toyosima Ko, No 1 breakwater.	34° 10.5' N 132° 48.0' E	Oc.G. period 4s lt. 3s, ec. 1s	46 14	4	White concrete tower; 33.	F.R., F.G. and F.Y. mark bridge 0.5 mile S.
8868 M 5695.8	Kamagarini Sima.	34° 11.5' N 132° 45.7' E	Fl.W. period 4s	31 9	5	White square concrete tower; 26.	
8872 M 5695.7	Kamagari Ko, E. breakwater.	34° 11.8' N 132° 44.2' E	Fl.G. period 3s	42 13	5	White tower; 31.	
8880 M 5697.8	Kawaziri Ko, breakwater, head.	34° 14.0' N 132° 41.9' E	Fl.R. period 3s	29 9	5	Red tower; 18.	
8886 M 5695.5	Kamagari Ko, N. breakwater.	34° 11.7' N 132° 40.9' E	Fl.(2)R. period 6s	23 7	3	Red tower; 16.	
8888 M 5695	Kasane Iwa.	34° 12.5' N 132° 39.6' E	Fl.W. period 4s	27 8	5	White tower; 17.	
8890 M 5695.56	Kamagari, bridge.	34° 11.1' N 132° 41.1' E	2 F.W.	79 24	5		Visible 357°-067° and 177°-247°. F.G., F.R., F.Y. mark bridge.
8892 M 5696	Kamo Se.	34° 08.7' N 132° 45.4' E	Fl.W. period 4s	69 21	5	White tower; 23.	
8896 M 5445	Ai Shima.	34° 04.2' N 132° 42.6' E	Oc.W. period 4s lt. 3s, ec. 1s	217 66	14	White tower; 36.	
8900 M 5651.3	Uta Saki.	34° 01.1' N 132° 38.7' E	Fl.W. period 4s	45 14	12	White round concrete tower; 39.	
8902 M 5651.2	Nisinaka Ko, breakwater.	33° 59.1' N 132° 36.3' E	Iso.R. period 6s	32 10	5	Red tower; 22.	
8904 M 5654	Mitsu Ishi.	34° 01.7' N 132° 33.3' E	Fl.W. period 3s	52 16	7	White tower; 31.	
8908 M 5656	Aki Sengai.	34° 04.4' N 132° 33.8' E	Q.(3)W. period 10s	33 10	5	E. CARDINAL BYB, beacon, topmark; 39.	
8912 M 5655	Kurahashi Ko, breakwater.	34° 04.2' N 132° 32.4' E	Iso.G. period 6s	46 14	5	White round concrete tower; 27.	F.W., F.R., F.G. and F.Y. mark bridge 200 meters SE.
8914 M 5654.5	Aki Manaita Ishi.	34° 02.3' N 132° 32.0' E	Fl.(2)W. period 5s	36 11	5	ISOLATED DANGER BRB, beacon, topmark; 26.	
8916 M 5664	Nishi Gobanno Bae.	34° 03.9' N 132° 26.4' E	Q.(9)W. period 15s	49 15	7	W. CARDINAL YBY, beacon, topmark; 39.	
8920 M 5662	Hashirajima Ko, E. breakwater.	34° 01.4' N 132° 25.3' E	Iso.G. period 4s	52 16	5	White tower; 32.	
8924 M 5668	Aki Shira Ishi.	34° 10.7' N 132° 20.9' E	Fl.(2)W. period 5s	62 19	7	ISOLATED DANGER BRB, beacon, topmark; 66.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
8928 M 5677.4	Kanokawa Ko, breakwater.	34° 11.5' N 132° 26.5' E	Fl.(2)R. period 6s	27 8	4	Red tower; 19.	
8932 M 5677.2	-Mitsubishi Shoji Sea berth.	34° 10.7' N 132° 26.0' E	Mo.(U)W. period 15s	46 14	10		
8936 M 5678	Hata Ko, W. breakwater.	34° 12.1' N 132° 24.5' E	Iso.G. period 6s	43 13	5	White tower; 31.	
8940 M 5678.4	-Korenage, breakwater.	34° 12.9' N 132° 23.7' E	Fl.G. period 3s	39 12	5	White tower; 31.	
8944 M 5675.7	Kuba Ko, breakwater.	34° 15.4' N 132° 14.1' E	Fl.G. period 4s	39 12	5	White tower; 22.	
8946 M 5675.9	Ono-seto.	34° 16.3' N 132° 15.7' E	Fl.G. period 3s	27 8	3	White tower; 16.	
8948 M 5675.4	Otake Ko, breakwater, head.	34° 14.0' N 132° 13.4' E	Iso.R. period 6s	39 12	9	Red tower; 32.	
8949 M 5675.6	-Detached breakwater.	34° 14.0' N 132° 13.8' E	Fl.(2)R. period 6s	31 9	4	Red tower; 19.	
8950 M 5672.5	Crude oil pier.	34° 12.2' N 132° 14.9' E	Mo.(U)W. period 8s	72 22	5		
8951 M 5672	LPG pier.	34° 11.8' N 132° 14.5' E	Mo.(U)W. period 10s	33 10	5		
8952 M 5671	Iwakuni Ko, N. breakwater, head.	34° 11.6' N 132° 14.1' E	Fl.R. period 3s	26 8	5	Red tower; 23.	
8956 M 5669	Atada Ko.	34° 11.7' N 132° 18.9' E	Fl.R. period 3s	30 9	5	Red tower; 18.	
8958 M 5670	-S. breakwater, head.	34° 11.7' N 132° 19.1' E	Fl.(2)R. period 8s	29 9	4	Red tower; 19.	
8964 M 5679	Manaita Sho.	34° 15.1' N 132° 21.6' E	Fl.(2)W. period 5s	36 11	5	ISOLATED DANGER BRB, beacon, topmark; 30.	
8968 M 5680.6	Mino Ko, breakwater, E. head.	34° 15.5' N 132° 22.9' E	Oc.R. period 4s lt. 3s, ec. 1s	39 12	4	Red tower; 31.	
8972 M 5680.8	Mitaka Ko, W. breakwater, head.	34° 15.6' N 132° 24.4' E	Fl.R. period 4s	39 12	5	Red tower; 31.	
8976 M 5680.9	Kasa Iso.	34° 15.8' N 132° 24.8' E	Fl.(2)W. period 5s	32 10	3	ISOLATED DANGER BRB, beacon, topmark; 25.	
8977 M 5678.6	Eta Uchi.	34° 14.2' N 132° 26.2' E	Fl.(2)R. period 6s	27 8	4	Red tower; 19.	
8978 M 5680.95	Sejou Ko.	34° 15.1' N 132° 27.5' E	Fl.R. period 3s	25 8	4	Red tower; 19.	
8980 M 5680	Nakano Se.	34° 16.2' N 132° 22.5' E	Mo.(D)G. period 8s	39 12	5	PORT (B) G, beacon, topmark; 49.	
8984 M 5681	Aki Eno Shima.	34° 17.4' N 132° 21.7' E	Fl.W. period 4s	161 49	7	White round concrete tower; 46.	
8988 M 5680.4	Ando Shima.	34° 16.6' N 132° 24.3' E	Fl.W. period 4s	59 18	5	White tower; 30.	
8992 M 5689	Dogen Isi.	34° 18.0' N 132° 26.8' E	Mo.(A)G. period 8s	26 8	4	PORT (B) G, beacon, topmark; 20.	
8994 M 5688.4	Nino Sima Ko, N. breakwater, head.	34° 18.9' N 132° 25.9' E	F.Fl.R. period 3s	27 8	F. 2 Fl. 5	Red tower; 19.	
8996 M 5691	Eta Sima.	34° 17.1' N 132° 28.5' E	Fl.R. period 4s	39 12	5	Red tower; 31.	
9000 M 5690	Yakataisi.	34° 17.9' N 132° 28.7' E	Q.W.	25 8	5	N. CARDINAL BY, beacon, topmark; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
9004 <i>M 5687</i>	Uzina.	34° 20.4' N 132° 27.8' E	Al.FI.W.R. period 10s	151 46	W. 18 R. 14	White round concrete tower, octagonal base; 69.	
9008 <i>M 5687.5</i>	-Harbor, E. breakwater.	34° 20.7' N 132° 27.4' E	Iso.R. period 6s	56 17	8	Red round concrete tower; 62.	
9012 <i>M 5687.4</i>	--W. breakwater.	34° 20.7' N 132° 27.2' E	Iso.G. period 6s	56 17	8	White tower; 62.	
9020 <i>M 5686</i>	-AVIATION LIGHT.	34° 22.2' N 132° 25.2' E	Al.FI.W.G. period 4.3s	79 24		Metal framework tower.	
9022 <i>M 5685</i>	-Tower.	34° 21.2' N 132° 24.8' E	Mo.(U)W. period 12s	29 9	3		
9023 <i>M 5684.2</i>	-Mitsubishi Shipyard, detached breakwater, E. head.	34° 21.4' N 132° 24.9' E	Fl.G. period 3s	21 6	3	White tower; 12.	
9023.5 <i>M 5684.4</i>	--W. head.	34° 21.4' N 132° 24.8' E	Fl.R. period 3s	21 6	3	Red tower; 12.	
9024 <i>M 5684</i>	-Kusatu Gyoko.	34° 21.6' N 132° 24.1' E	Fl.R. period 5s	39 12	7	Red tower; 31.	Visible 300°-210°.
9028 <i>M 5683</i>	-Breakwater, head.	34° 21.7' N 132° 23.9' E	Iso.G. period 4s	36 11	5	White tower; 28.	
9034 <i>M 5681.4</i>	Hirosima Ko Sea berth.	34° 20.3' N 132° 20.4' E	Mo.(U)W. period 10s	39 12	10	Terminal.	Auxiliary lights Mo.(U)W. 10s 5M located 110 meters NE. and 130 meters SW. of main light.
9036 <i>M 5681.2</i>	-Zigozen Ko, W. breakwater.	34° 20.3' N 132° 19.4' E	Iso.G. period 6s	43 13	5	White tower; 31.	
9040 <i>M 5677</i>	Kame Iso.	34° 17.6' N 132° 17.7' E	Mo.(A)G. period 8s	33 10	5	PORT (B) G, beacon, topmark; 23.	Two F.R. lights are shown on NW. side of Itsuku Shima.
9044 <i>M 5676.4</i>	Kaminohama Ko, breakwater, head.	34° 17.4' N 132° 17.1' E	Fl.G. period 3s	26 8	3	White tower; 18.	
9049 <i>M 5691.5</i>	Koyo Ko, detached breakwater.	34° 15.3' N 132° 29.9' E	Fl.R. period 3s	26 8	3	Red tower; 16.	
9050 <i>M 5692.5</i>	Koyo Ko, breakwater.	34° 15.0' N 132° 29.7' E	Fl.(2)G. period 6s	30 9	3	White tower; 18.	
9052 <i>M 5692</i>	Kourume Sima.	34° 14.4' N 132° 31.1' E	Fl.W. period 4s	72 22	11	White tower; 36.	
9054 <i>M 5692.7</i>	Akizuki, breakwater, head.	34° 13.7' N 132° 29.6' E	Fl.(2)R. period 6s	27 8	3	Red tower; 16.	
9056 <i>M 5693</i>	Ondo	34° 12.0' N 132° 32.2' E	Iso.W. period 6s	125 38	12	White tower; 31.	Bridge marked by 2 F.R., 2 F.W., and 2 F.G.
9060 <i>M 5694</i>	Hiro Wan Range, front.	34° 13.5' N 132° 36.9' E	F.R.	79 24	8	Metal column, white triangular daymark point up; 62.	
9064 <i>M 5694.1</i>	-Rear, 127 meters 029°06' from front.	34° 13.5' N 132° 37.0' E	F.R.	89 27	8	Metal column, white triangular daymark point up; 80.	
9068 <i>M 5694.5</i>	Hiro Wan Aga Oki, W. breakwater, head.	34° 13.2' N 132° 35.7' E	Fl.R. period 3s	39 12	5	Red square structure; 30.	
9072 <i>M 5666.5</i>	Kakiura Ko, breakwater, head.	34° 10.8' N 132° 28.5' E	Fl.G. period 4s	42 13	3	White tower; 30.	
9076 <i>M 5666</i>	Ogaki Ko, N. breakwater, head.	34° 10.6' N 132° 28.9' E	Fl.G. period 3s	36 11	5	White round tower; 29.	
9080 <i>M 5665.5</i>	Akitahara Ko, S. breakwater.	34° 10.4' N 132° 29.9' E	Fl.R. period 5s	42 13	3	Red tower; 31.	
9088 <i>M 5664.7</i>	Ryosida Ko, S. breakwater.	34° 08.7' N 132° 30.3' E	F.FI.R. period 3s	36 11	F. 2 Fl. 5	Red tower; 17.	
9092 <i>M 5664.4</i>	Dentarohana.	34° 06.5' N 132° 26.9' E	Fl.W. period 4s	56 17	7	White tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
9094	Iwakuni, N. breakwater, head.	34° 08.1' N 132° 15.5' E	Q.(2)R. period 6s	33 10	7		
9095	-S. breakwater, head.	34° 07.9' N 132° 15.4' E	Q.(2)G. period 6s	36 11			
9096 M 5663	Yuu Ko, breakwater.	34° 02.6' N 132° 13.2' E	Iso.R. period 6s	39 12	5	Red tower; 31.	
9100 M 5658	Kuka Ko.	33° 57.3' N 132° 17.0' E	Fl.(2)W. period 8s	118 36	7	White round concrete tower; 36.	
9102 M 5660	-E. breakwater, head.	33° 57.1' N 132° 16.3' E	Fl.(2)G. period 6s	29 9	5	White tower; 18.	
9104 M 5659	Kuka Ko, breakwater.	33° 57.0' N 132° 15.8' E	Fl.G. period 4s	39 12	5	White tower; 29.	
9106 M 5657.5	Ukashima Ko.	33° 57.7' N 132° 20.8' E	Fl.G. period 3s	20 6	3	White tower; 16.	
9108 M 5657	Ihota Ko.	33° 56.7' N 132° 26.4' E	Fl.R. period 4s	46 14	5	Red round structure; 33.	
9110 M 5638	Osima Bridge.	33° 57.5' N 132° 11.1' E	2 F.W.	105 32	9		Visible 028°-094° and 208°-274°. Marks center of channel. Vertical clearance 30 meters. F.G. and F.R. mark edges of channel. Siren: 1 bl. ev. 18s (bl. 3s, si. 15s).
9112 M 5636	O Iso.	33° 57.2' N 132° 10.6' E	Fl.W. period 3s	46 14	5	White tower; 46.	
9116 M 5634.5	Yanai Ko.	33° 57.2' N 132° 08.3' E	Fl.(2)R. period 6s	43 13	5	Red tower; 29.	
9120 M 5632	-E. breakwater, head.	33° 57.1' N 132° 08.3' E	Fl.(2)G. period 6s	36 11	5	White tower; 28.	
9124 M 5634	-W. breakwater, head.	33° 57.1' N 132° 08.1' E	Fl.R. period 3s	40 12	5	Red tower; 28.	
9128 M 5436	Turu Shima.	33° 53.6' N 132° 38.3' E	Al.Fl.W.R. period 16s	190 58	W. 20 R. 18	White round stone tower; 33.	Visible 007°-250°.
	RACON		Q(- - • -)		9		(3cm). Azimuth coverage 352°-252°.
9130 M 5651.75	Iyokounoura Ko.	33° 56.9' N 132° 36.4' E	Fl.G. period 3s	30 9	3	White tower; 18.	
9132 M 5651.7	Huguri Iwa.	33° 56.1' N 132° 36.4' E	Q.(6)+L.Fl.W. period 15s	46 14	5	S. CARDINAL YB, beacon, topmark; 36.	
9136 M 5651.6	Oichi Shima.	33° 54.6' N 132° 35.3' E	Fl.W. period 3s	46 14	5	White tower; 32.	
9140 M 5645	Yuri Sima.	33° 50.7' N 132° 32.0' E	Fl.(3)W. period 12s	105 32	5	White tower; 36.	
9144 M 5644.4	Ao Sima.	33° 44.1' N 132° 28.6' E	Fl.(2)W. period 8s	338 103	12	White round concrete tower; 43.	
9148 M 5644	Kominase Sima.	33° 46.7' N 132° 23.5' E	Fl.W. period 4s	66 20	7	White round concrete tower; 49.	
9152 M 5418.5	Heigon Ko.	33° 46.9' N 132° 15.6' E	Fl.R. period 4s	29 9	3	Red tower; 18.	
9156 M 5418	Okino Se.	33° 45.9' N 132° 15.3' E	Fl.G. period 4s	26 8	5	PORT (B) G, tower, topmark; 16.	
9160 M 5414	Ya Shima.	33° 42.8' N 132° 08.0' E	Fl.W. period 10s	193 59	20	White square concrete tower; 36.	Visible 251°-115°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
9162	Iyo Nada, buoy No 5.	33° 41.4' N 132° 08.2' E	Mo.(A)W. period 8s			SAFE WATER RW, pillar, topmark.	
	RACON		G(- - •)		5		(3cm).
9164 M 5412	Hoziro Sima.	33° 44.0' N 132° 00.9' E	Fl.W. period 3s	128	7 39	White round concrete tower; 26.	
9168 M 5647	Okozeiwa.	33° 59.4' N 132° 32.0' E	Mo.(A)R. period 8s	36	3 11	STARBOARD (B) R, beacon, topmark; 26.	
9172 M 5649	Kazakiri Hana.	33° 59.7' N 132° 34.0' E	Fl.(2)W. period 7s	39	7 12	White tower; 28.	
9176 M 5650	Kudako Sima.	33° 58.1' N 132° 33.9' E	Iso.W. period 6s	187	12 57	White round stone tower; 33.	
9180 M 5651	Heyano Hana.	33° 58.1' N 132° 34.8' E	Fl.(3)W. period 13s	174	7 53	White tower; 36.	
9184 M 5646.5	Aburatori Se.	33° 58.4' N 132° 30.8' E	Mo.(A)G. period 8s	40	5 12	PORT (B) G, beacon, topmark; 26.	
9186 M 5646.7	Nuwazima Suido, breakwater, head.	33° 58.9' N 132° 31.0' E	Fl.(3)G. period 12s	31	3 10	White tower; 21.	
9188 M 5646	Nenasi Syo.	33° 56.8' N 132° 29.9' E	Fl.(2)W. period 5s	56	5 17	ISOLATED DANGER BRB, beacon, topmark; 56.	
9190 M 5646.3	Nasake Sima.	33° 57.2' N 132° 28.4' E	Fl.W. period 3s	39	5 12	White tower; 31.	
9192 M 5645.4	Oisi.	33° 55.2' N 132° 28.3' E	Mo.(D)G. period 8s	43	5 13	PORT (B) G, beacon, topmark; 33.	
9196 M 5645.6	Yuta Ko, A breakwater.	33° 55.9' N 132° 26.1' E	Iso.G. period 6s	43	4 13	White tower; 32.	
9200 M 5640	Setono Isi.	33° 51.6' N 132° 21.6' E	Mo.(A)G. period 8s	32	3 10	PORT (B) G, beacon, topmark; 23.	
9202 M 5641	Okikamuro Sima.	33° 50.7' N 132° 21.9' E	Mo.(C)G. period 13s	49	7 15	PORT (B) G, beacon, topmark; 36.	
9204 M 5642	Sengai Se.	33° 49.4' N 132° 22.0' E	Fl.(2)W. period 5s	23	5 7	ISOLATED DANGER BRB, beacon, topmark; 16.	
9208 M 5639.4	Siraki Ko, breakwater.	33° 53.1' N 132° 20.0' E	Iso.G. period 6s	39	4 12	White tower; 28.	
9210 M 5639.2	-Breakwater.	33° 54.0' N 132° 17.3' E	Fl.G. period 3s	33	3 10	White tower; 18.	
9212 M 5639	Agenosyoko, W. breakwater, head.	33° 54.0' N 132° 17.0' E	F.Fl.R. period 5s	36	F. 3 Fl. 7	Red tower; 28.	
9216 M 5628	Simo-Ninai Sima, on summit.	33° 50.8' N 132° 11.0' E	Fl.(4)W. period 14s	387	7 118	White tower; 39.	
9220 M 5627	Kajikake Iwa.	33° 50.0' N 132° 08.8' E	Mo.(A)G. period 8s	43	5 13	PORT (B) G, beacon, topmark; 33.	
9224 M 5415	Yasima Ko, breakwater.	33° 43.8' N 132° 08.6' E	Fl.R. period 3s	43	3 13	Red tower; 32.	
9228 M 5413	Amata Sima.	33° 46.3' N 132° 03.1' E	Fl.(2)W. period 6s	49	5 15	White round metal tower; 32.	
9232 M 5410	Hanaguri Shima.	33° 47.1' N 132° 01.4' E	Fl.W. period 5s	98	5 30	White tower; 33.	
9236 M 5435	Mutuyama Ko.	33° 53.7' N 132° 42.4' E	Fl.R. period 3s	33	5 10	Red tower; 18.	
9240 M 5433.8	Outer Harbor, breakwater No 2, N. head.	33° 52.1' N 132° 41.9' E	Fl.(2)R. period 7s	59	7 18	Red tower; 52.	

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JAPAN-SETO NAIKAI-WESTERN PART (I)							
9244 <i>M 5434</i>	Breakwater, N. head.	33° 52.0' N 132° 42.4' E	Iso.R. period 4s	36 11	3	Red tower; 28.	
9246 <i>M 5432.9</i>	-Offshore, S. beacon.	33° 50.4' N 132° 40.9' E	Mo.(D)Y. period 8s	36 11	5	SPECIAL Y, beacon, "X" topmark; 36.	Radar reflector.
9247 <i>M 5432.95</i>	--N. beacon.	33° 50.7' N 132° 40.5' E	Mo.(N)Y. period 8s	36 11	5	SPECIAL Y, beacon, "X" topmark; 36.	Radar reflector.
9248 <i>M 5433</i>	Yosidahama, breakwater.	33° 50.9' N 132° 41.5' E	Fl.R. period 5s	36 11	5	Red round concrete tower; 18.	
9252 <i>M 5432.6</i>	AVIATION LIGHT.	33° 49.9' N 132° 41.9' E	Al.FI.W.G. period 4.3s	66 20	W. G. 3 1	Metal framework tower.	
9256 <i>M 5432.8</i>	Breakwater.	33° 49.1' N 132° 41.0' E	Fl.R. period 3s	43 13	4	Red round concrete tower; 36.	
9260 <i>M 5432</i>	Masaki Ko, W. breakwater.	33° 47.2' N 132° 41.5' E	Fl.R. period 3s	39 12	5	Red tower; 26.	
9264 <i>M 5431</i>	Guntyu Ko, W. breakwater, head.	33° 45.6' N 132° 41.6' E	Fl.(2)R. period 7s	43 13	3	Red tower; 31.	
9268 <i>M 5430.5</i>	Kaminada Ko, breakwater, N. head.	33° 41.4' N 132° 38.2' E	Iso.R. period 4s	43 13	9	Red round concrete tower; 31.	Spotlight illuminates W. head of breakwater 75 meters N.
9270 <i>M 5430</i>	Iyotoyota Ko, W. breakwater.	33° 39.2' N 132° 34.6' E	Fl.R. period 3s	52 16	5	Red tower; 31.	
9272 <i>M 5428</i>	Nagahama Ko, N. breakwater.	33° 37.2' N 132° 29.4' E	Fl.(2)R. period 6s	29 9	5	Red round concrete tower; 18.	
9276 <i>M 5429</i>	-E. breakwater, N. head.	33° 37.1' N 132° 29.4' E	Iso.G. period 6s	39 12	10	White round concrete tower; 32.	
9280 <i>M 5427.8</i>	Kusyu Ko, W. breakwater, head.	33° 34.5' N 132° 26.4' E	F.Fl.R. period 4s	49 15	F. Fl. 1 3	Red tower; 32.	
9284 <i>M 5427.5</i>	Husuma Hana.	33° 28.4' N 132° 15.6' E	Fl.W. period 10s	197 60	20	White square concrete tower; 36.	Visible 040°-253°.
9288 <i>M 5427</i>	Mitukue Ko.	33° 27.5' N 132° 15.1' E	Iso.R. period 6s	43 13	4	Red tower; 31.	
9292 <i>M 5426</i>	Mimai Saki.	33° 25.1' N 132° 07.3' E	Iso.W. period 6s	240 73	8	White concrete column; 33.	
9296 <i>M 5424</i>	Sada Misaki.	33° 20.6' N 132° 00.9' E	Fl.(3)W. period 20s	161 49	19	White octagonal concrete tower; 59.	Visible 265°-214°.
			F.W.	121 37			Illuminates beacon on Ogon Bac, 650 meters SSW.
	RAMARK				21		
9300 <i>M 4947</i>	Bungo Hira Se.	33° 16.7' N 131° 54.5' E	Fl.(2)W. period 5s	43 13	12	ISOLATED DANGER BRB, beacon, topmark; 39.	
9304 <i>M 4947.04</i>	Asike Bae.	33° 16.8' N 131° 57.8' E	Fl.W. period 3s	69 21	14	White round concrete structure; 49.	Visible 089°-054°.
9308 <i>M 4946</i>	Seki Saki.	33° 16.0' N 131° 54.1' E	Iso.W. period 8s	226 69	22	White round metal tower; 33.	Visible 094°-360°.
9310 <i>M 4945.5</i>	Koguro Ko.	33° 15.2' N 131° 53.7' E	Fl.R. period 3s	30 9	3	Red tower; 16.	
9312 <i>M 4945</i>	Saganoseki Gyoko.	33° 14.6' N 131° 53.0' E	Iso.R. period 4s	43 13	12	Red tower; 31.	
9316 <i>M 4944</i>	Fishery Harbor, E. breakwater.	33° 14.6' N 131° 52.7' E	F.Fl.R. period 6s	36 11	F. Fl. 6 11	Red round concrete tower; 28.	
9320 <i>M 4946.6</i>	-W. breakwater.	33° 15.1' N 131° 52.0' E	Fl.R. period 3s	36 11	5	Red round concrete structure; 28.	

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JAPAN-SETO NAIKAI-WESTERN PART (I)							
9321 <i>M 4947.06</i>	Kozaki Ko, breakwater.	33° 14.5' N 131° 47.4' E	Fl.G. period 3s	33 10	5	White concrete tower; 22.	
9322 <i>M 4947.08</i>	Hiyosibaru Hakuti, E. breakwater, head.	33° 15.5' N 131° 46.3' E	Iso.G. period 6s	59 18	13	White tower; 62.	
9324 <i>M 4947.12</i>	Oita Ko, breakwater, head.	33° 15.1' N 131° 46.9' E	Fl.R. period 4s	29 9	3	Red post; 24.	
9328 <i>M 4947.11</i>	-Sea Berth.	33° 14.9' N 131° 46.9' E	Mo.(U)R. period 12s	30 9	5		
9332 <i>M 4947.1</i>	Ekikagasu Bitiku.	33° 15.4' N 131° 46.6' E	Mo.(U)W. period 12s	102 31	15		Mo.(U)W. 12s 180 meters W. and 190 meters ESE.
9336 <i>M 4947.15</i>	-S.	33° 15.2' N 131° 46.6' E	Dir.W.R.G.	49 15	W. 3 R. 1 G. 1	White tower; 36.	F.R. 188°-190°30', F.W.- 195°30', F.G.-198°.
9338 <i>M 4947.09</i>	-Breakwater, NE. head.	33° 15.5' N 131° 46.2' E	Fl.(2)R. period 6s	39 12	11	Red tower; 28.	
9340 <i>M 4947.18</i>	-Breakwater, W. head.	33° 15.4' N 131° 44.5' E	Fl.(2)G. period 6s	43 13	8	White tower; 33.	
9341 <i>M 4947.19</i>	-E. head.	33° 15.6' N 131° 44.2' E	Fl.(2)R. period 6s	39 12	6	Red tower; 29.	
9342 <i>M 4947.3</i>	Oita Ko, LNG berth.	33° 16.6' N 131° 42.7' E	Mo.(U)W. period 12s	82 25	14	Dolphin.	Mo.(U)W. 12s 7M on dolphins 220 meters SE. and 200 meters NW.
9344 <i>M 4947.26</i>	-No 1.	33° 16.8' N 131° 41.1' E	Mo.(U)R. period 8s	30 9	10	Dolphin.	Auxiliary Mo.(U)R. 8s, 250 meters WNW. and 480 meters W.
9348 <i>M 4947.4</i>	-Tsurasaki, E. breakwater, head.	33° 16.8' N 131° 40.8' E	Fl.(2)G. period 6s	43 13	5	White round concrete tower; 28.	
9352 <i>M 4947.5</i>	-Misa, W. breakwater.	33° 16.8' N 131° 40.6' E	Fl.(2)R. period 6s	39 12	5	Red tower; 27.	
9356 <i>M 4947.6</i>	-Showa Yuka, oil terminal sea berth.	33° 16.8' N 131° 40.3' E	Mo.(U)R. period 12s	98 30	14	Dolphin.	Auxiliary lights Mo.(U)R. 12s shown 190 and 220 meters E. and W. respectively from main light. Radar reflector.
9360 <i>M 4947.74</i>	-E. breakwater.	33° 16.7' N 131° 39.8' E	Fl.G. period 3s	59 18	4	White round metal structure; 49.	
9364 <i>M 4947.7</i>	-Otozu, W. breakwater.	33° 16.6' N 131° 39.6' E	Fl.R. period 3s	59 18	7	Red round concrete structure; 52.	
9368 <i>M 4947.8</i>	Heavy oil sea berth.	33° 16.5' N 131° 39.6' E	Mo.(U)W. period 8s	25 8	9		Visible 159°-019° Auxiliary light Mo.(U)W. 8s. vis. 159°-019° located 60 meters SSW.
9372 <i>M 4948</i>	Oita Ko, Sin Nippon Seitetsu Sea Berth.	33° 16.4' N 131° 38.0' E	Mo.(U)R. period 8s	39 12	9		Auxiliary lights Mo.(U)R. 8s located 140, 730, and 870 meters SW.
9376 <i>M 4947.9</i>	-Jetty.	33° 16.0' N 131° 37.6' E	Dir.W.R.G.	36 11	W. 11 R. 10 G. 10	Bridge tower.	F.R. 223°06'-230°06', F.W.- 235°54', F.G.-242°54'. Center of fairway is 233°.
9380 <i>M 4948.4</i>	--E. breakwater.	33° 15.4' N 131° 36.0' E	Fl.(2)G. period 6s	46 14	5	White round concrete structure, square base; 31.	
9384 <i>M 4948.6</i>	Sumiyosi, W. breakwater.	33° 15.3' N 131° 35.8' E	Fl.(2)R. period 6s	42 13	4	Red round concrete structure; 31.	
9388 <i>M 4950</i>	Oita Ko, N. breakwater, head.	33° 15.1' N 131° 35.2' E	F.Fl.G. period 4s	43 13	F. 5 Fl. 9	White round concrete tower; 32.	
9392 <i>M 4951</i>	W. breakwater, head.	33° 15.1' N 131° 35.1' E	F.Fl.R. period 4s	43 13	F. 5 Fl. 9	Red round concrete tower; 32.	

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JAPAN-SETO NAIKAI-WESTERN PART (I)							
9396 <i>M 4953</i>	Beppu Kanko Ko.	33° 18.0' N 131° 30.4' E	Fl.G. period 3s	24 7	5	White round concrete tower; 21.	
9400 <i>M 4954</i>	-Offing breakwater.	33° 18.0' N 131° 30.5' E	Fl.R. period 3s	52 16	7	Red round concrete structure; 52.	
9404 <i>M 4954.5</i>	-Offing breakwater, N. head.	33° 18.5' N 131° 30.5' E	Iso.G. period 4s	52 16	8	White round concrete structure; 52.	
9408 <i>M 4955</i>	-Breakwater, head.	33° 19.9' N 131° 29.8' E	Fl.G. period 3s	46 14	5	White tower; 33.	
9412 <i>M 4955.5</i>	Hizi Ko, E. breakwater, head.	33° 21.9' N 131° 32.2' E	Oc.R. period 8s	30 9	7	Red tower; 19.	
9414 <i>M 4955.57</i>	Kanuki Ko.	33° 22.4' N 131° 38.3' E	Fl.R. period 3s	30 9	6	Red tower; 19.	
9416 <i>M 4956</i>	Morie Ko.	33° 24.6' N 131° 39.5' E	Mo.(A)R. period 8s	36 11	6	STARBOARD (B) R, beacon, topmark; 30.	
9421 <i>M 4962</i>	Usuisi Hana.	33° 24.4' N 131° 42.2' E	L.Fl.W. period 15s	98 30	16	White concrete structure; 56.	Visible 190°-057°.
9422	Musasi, breakwater, SE. head.	33° 30.1' N 131° 44.1' E	Fl.R. period 3s	36 11	6	Red tower; 28.	
9424 <i>M 4964</i>	Kunisaki Ko, S. breakwater.	33° 34.0' N 131° 44.4' E	Oc.G. period 5s	33 10	6	White tower; 26.	
9428 <i>M 4965</i>	Kunisaki Ko, E. breakwater.	33° 34.4' N 131° 44.3' E	Fl.R. period 5s	46 14	12	Red round tower; 33.	
9432 <i>M 4966</i>	Tomiku Ko.	33° 36.3' N 131° 43.2' E	Fl.R. period 3s	43 13	12	Red round concrete tower; 31.	
9434	<i>Suo Nada Buoy No 4.</i>	33° 51.4' N 131° 12.0' E	Mo.(A)W. period 8s			SAFE WATER RW, pillar, topmark.	
	RACON		OE(- - - *)		5		(3cm).
9436 <i>M 5626</i>	Murotu.	33° 49.9' N 132° 07.1' E	Iso.W.R. period 6s	49 15	12	White tower; 43.	R. 250°-274°, W.-105°.
9440 <i>M 5626.2</i>	Murotu Ko, breakwater.	33° 50.3' N 132° 07.0' E	Fl.G. period 3s	39 12	5	White tower; 31.	
9444 <i>M 5409</i>	-Kaminoseki Range, front.	33° 49.8' N 132° 06.9' E	F.R.	118 36	6	White round concrete tower, white triangular daymark point up; 39.	
9448 <i>M 5409.1</i>	--Rear, 58 meters 154°18' from front.	33° 49.8' N 132° 06.9' E	F.R.	138 42	6	White round concrete tower, white triangular daymark point down; 26.	
9452 <i>M 5409.4</i>	Kaminoseki Ko, A breakwater.	33° 49.9' N 132° 06.7' E	F.Fl.R. period 3s	36 11	F. 2 Fl. 5	Red tower; 28.	
9456 <i>M 5408</i>	Kame Iwa.	33° 51.7' N 132° 04.5' E	Mo.(A)R. period 8s	46 14	5	STARBOARD (B) R, beacon, topmark; 46.	
9460 <i>M 5407.4</i>	Siraida, breakwater, head.	33° 49.4' N 132° 04.2' E	Fl.R. period 3s	39 12	5	Red concrete column; 28.	
9464 <i>M 5407</i>	Suo Ikada Se.	33° 51.9' N 132° 03.4' E	Mo.(A)G. period 8s	46 14	5	PORT (B) G, beacon, topmark; 31.	
9468 <i>M 5408.5</i>	Hiraosaga Ko.	33° 53.5' N 132° 04.7' E	Fl.(2)R. period 5s	39 12	3	Red tower; 32.	
9472 <i>M 5406.5</i>	Maru Iwa.	33° 54.1' N 132° 02.1' E	Mo.(A)R. period 8s	36 11	5	STARBOARD (B) R, beacon, topmark; 30.	
9474 <i>M 5406.55</i>	Hirao Ko, breakwater, head.	33° 54.6' N 132° 02.9' E	Fl.R. period 3s	26 8	4	Red tower; 19.	
9476 <i>M 5406.7</i>	Suo Usi Sima.	33° 52.3' N 132° 01.0' E	Mo.(A)R. period 8s	33 10	5	STARBOARD (B) R, beacon, topmark; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
9480 <i>M 5406.8</i>	Usisima Ko, breakwater.	33° 51.6' N 132° 00.5' E	Fl.(2)R. period 6s	39 12	3	Red tower; 26.	
9484 <i>M 5406</i>	Murozumi Ko.	33° 55.3' N 131° 58.6' E	Iso.W. period 6s	39 12	11	White round concrete tower; 30.	
9486 <i>M 5406.2</i>	-Breakwater, W. head.	33° 55.4' N 131° 58.6' E	Fl.R. period 3s	30 9	6	Red tower; 19.	
9488 <i>M 5405</i>	Ominase Sima.	33° 56.1' N 131° 55.9' E	Fl.W. period 3s	39 12	8	White round concrete tower; 32.	
9492 <i>M 5405.4</i>	Hikari Ko, S. breakwater.	33° 56.9' N 131° 56.9' E	Iso.G. period 6s	39 12	5	White round concrete structure; 31.	
9494 <i>M 5405.2</i>	Shimada Quay, breakwater.	33° 57.1' N 131° 55.5' E	F.Fl.G. period 3s	39 12	F. 5 Fl. 11	White concrete structure; 31.	
9496 <i>M 5404.5</i>	Sekiyu Seisei.	33° 58.7' N 131° 53.2' E	Mo.(U)W. period 15s	108 33	16	Sea berth.	Mo.(U)W. 15s 10m 10M 210 meters E. and 220 meters WNW.
9500 <i>M 5404.7</i>	Kudamatsu, public wharf, breakwater.	34° 00.2' N 131° 51.7' E	Oc.G. period 4s lt. 3s, ec. 1s	43 13	12	White round concrete tower; 31.	Bridge 0.9 mile S. marked by F.W., F.R., and F.G. lights.
9504 <i>M 5404.8</i>	Tokuyama Gyoko, W. breakwater.	34° 00.2' N 131° 50.2' E	Iso.G. period 4s	39 12	11	White round metal structure; 31.	
9508 <i>M 5404.4</i>	Hiburi Saki.	33° 55.8' N 131° 49.1' E	Fl.W. period 4s	121 37	12	White round concrete tower; 25.	
9512 <i>M 5398.5</i>	No Sima.	33° 56.2' N 131° 41.7' E	Iso.W. period 6s	285 87	22	White quadrangular concrete tower; 62.	F.W. illuminates beacon on Omo Se.
	RACON	(-----)			9		Azimuth coverage 224°-206°. (3cm).
9512.3 <i>M 5397.5</i>	-Omo Ze.	33° 55.6' N 131° 41.2' E	Fl.(2)W. period 5s	30 9	5	ISOLATED DANGER BRB, beacon, topmark; 26.	
9516 <i>M 5399</i>	Nosima Ko, W. breakwater.	33° 56.8' N 131° 41.5' E	Iso.R. period 6s	40 12	11	Red round concrete structure, quadrangular base; 28.	
9520 <i>M 5400</i>	Iwa Sima, Tokuyama Wan, entrance.	33° 59.0' N 131° 45.2' E	Fl.(3)W. period 12s	75 23	12	White round stone tower; 31.	
TOKUYAMA WAN:							
9524 <i>M 5400.5</i>	-Nishiga Mori, on pier.	33° 59.2' N 131° 46.7' E	F.R.	30 9	3	Framework tower, red metal pole; 18.	
9528 <i>M 5400.4</i>	-Kudamatu Ko, oil terminal jetty No 6.	33° 59.9' N 131° 47.1' E	Mo.(U)R. period 8s	31 9	8		
9532 <i>M 5400.3</i>	--No 7.	33° 59.8' N 131° 47.0' E	Mo.(U)R. period 13s	89 27	8		F.R. 9m 4M 170 meters NE. and 180 meters SW.
9536 <i>M 5404</i>	-Tikko, breakwater.	34° 03.0' N 131° 47.8' E	Iso.G. period 4s	43 13	12	White round concrete structure; 36.	
9544 <i>M 5401.6</i>	-Oki-no-Ikada.	34° 02.9' N 131° 47.0' E	Fl.W. period 4s	36 11	11	White round concrete tower; 26.	
9548 <i>M 5402.5</i>	-Soda Nanyo Range, front.	34° 03.5' N 131° 46.9' E	F.R.	20 6	6	White round metal structure, triangular daymark point up; 20.	
9552 <i>M 5402.51</i>	--Rear, 245 meters 004°42' from front.	34° 03.7' N 131° 46.9' E	F.R.	33 10	6	White round metal structure, triangular daymark point down; 19.	
9556 <i>M 5401</i>	-Toyosoda, W.	34° 03.4' N 131° 45.8' E	F.G.	33 10	5	White triangular metal framework tower; 17.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
9568 <i>M 5400.8</i>	-Soda No 4 Range, front.	34° 03.4' N 131° 45.6' E	F.Y.	56 17	9	Metal framework structure, white triangular daymark point up; 49.	
9572 <i>M 5400.81</i>	--Rear, 40 meters 311°36' from front.	34° 03.4' N 131° 45.6' E	F.Y.	62 19	9	White triangular daymark, point down; 54.	
9574 <i>M 5397</i>	-Otusima Ko, breakwater.	34° 00.5' N 131° 42.2' E	Iso.R. period 6s	29 9	7	Red concrete structure; 18.	
9577 <i>M 5396</i>	Mitaziri Nakanoseki Ko.	34° 00.9' N 131° 36.7' E	Fl.R. period 3s	46 14	12	Red tower; 31.	
9580 <i>M 5394.5</i>	Muko Sima, breakwater, head.	34° 01.5' N 131° 35.2' E	F.Fl.G. period 5s	46 14	F. 5 Fl. 12	White round concrete tower; 32.	
9584 <i>M 5394</i>	Nakanoseki.	34° 00.0' N 131° 32.6' E	Fl.W. period 4s	217 66	5	White square concrete tower; 36.	
9588 <i>M 5393</i>	Hofu AVIATION LIGHT.	34° 01.3' N 131° 31.9' E	Al.Fl.W.G. period 10s	777 237		Metal framework tower; 49.	
9592 <i>M 5392</i>	Nisiura Ko, breakwater, head.	34° 00.7' N 131° 30.5' E	Fl.(2)R. period 7s	43 13	12	Red round concrete structure; 31.	
9596 <i>M 5391.4</i>	Aio Gyoko, Fishery harbor, Omi breakwater.	34° 01.8' N 131° 28.1' E	Fl.G. period 3s	43 13	3	White round concrete structure; 26.	
9604 <i>M 5390.6</i>	Sabasima.	33° 58.0' N 131° 30.6' E	Fl.W. period 3s	154 47	12	White quadrangular concrete structure; 43.	
9608 <i>M 5390</i>	Kusayama Saki.	33° 59.1' N 131° 26.4' E	Iso.W. period 6s	420 128	22	White round concrete tower; 39.	Spotlight.
9612 <i>M 5390.4</i>	Aio Ko, S. breakwater, head.	33° 59.8' N 131° 25.5' E	F.Fl.R. period 4s	33 10	F. 5 Fl. 11	Red round concrete structure; 26.	
9616 <i>M 5390.45</i>	-Ura, breakwater, head.	34° 00.5' N 131° 25.6' E	Iso.R. period 4s	39 12	11	Red round concrete structure; 28.	
9620	Iwayano Hana.	33° 59.1' N 131° 23.8' E	F.W.	73 22		White round concrete tower; 20.	
9624 <i>M 5389</i>	Ta teisi.	33° 59.2' N 131° 22.8' E	Fl.W. period 4s	39 12	11	White round concrete structure; 26.	
9628 <i>M 5388</i>	Maruo Ko, breakwater, head.	33° 58.2' N 131° 21.4' E	Iso.G. period 8s	29 9	10	White round concrete tower; 21.	
9632 <i>M 5387.5</i>	Tokonami Ko, breakwater.	33° 56.9' N 131° 18.5' E	Iso.R. period 4s	39 12	11	Red round concrete tower; 29.	
9636 <i>M 5386</i>	Kamega Se.	33° 54.9' N 131° 17.1' E	Fl.W. period 4s	39 12	11	White tower; 46.	
9640 <i>M 5382</i>	Ubemisaki Ko, fishing harbor, W. breakwater.	33° 55.4' N 131° 15.7' E	F.Fl.G. period 5s	39 12	F. 5 Fl. 11	White round concrete structure, square base; 28.	
9648 <i>M 5387</i>	Motoyama.	33° 52.9' N 131° 15.0' E	Fl.W. period 3s	49 15	12	Black concrete tower, white bands; 49.	
UBE KO:							
9652 <i>M 5387.3</i>	-Seibu Sekiyu Seaberth.	33° 49.8' N 131° 12.8' E	Mo.(U)W. period 8s		9	Red and white striped mooring buoy.	Horn: 1 bl. ev. 30s (bl. 5s, si. 25s). Radar reflector.
9656 <i>M 5380</i>	-E. Range, front.	33° 56.2' N 131° 15.2' E	F.R.	43 13	10	White round concrete tower; 39.	
9660 <i>M 5380.1</i>	--Rear, 240 meters 58°12' from front.	33° 56.2' N 131° 15.3' E	F.R.	62 19	10	White round concrete tower; 52.	
9664 <i>M 5376</i>	-W. breakwater.	33° 56.3' N 131° 13.9' E	Iso.G. period 6s	39 12	5	White round concrete structure; 30.	

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JAPAN-SETO NAIKAI-WESTERN PART (I)							
9668 <i>M 5372</i>	Onoda Ko, N. breakwater, head.	33° 58.4' N 131° 09.9' E	Fl.(2)G. period 6s	36 11	7	White tower; 26.	
9672 <i>M 5366</i>	Ozuki AVIATION LIGHT.	34° 03.0' N 131° 03.5' E	Al.FI.G.W. period 10s	246 75		Metal framework tower; 49.	
9676 <i>M 4968</i>	Hime Sima.	33° 43.8' N 131° 42.0' E	Fl.(4)W. period 30s	187 57	20	White tower; 40.	Visible 116°-064°.
	RACON		(- - - - -)		9		
9678	-Higasiura Ko.	33° 44.3' N 131° 41.0' E	Fl.G. period 3s	29 9	3	White tower; 16.	
9680 <i>M 4968.4</i>	Kitaura Ko, S. breakwater.	33° 43.9' N 131° 38.9' E	Fl.(2)R. period 6s	39 12	3	Red round concrete tower; 31.	
9684 <i>M 4968.6</i>	Himesima Ko, E. breakwater.	33° 43.1' N 131° 38.9' E	F.FI.R. period 3s	43 13	F. 6 Fl. 12	Red round concrete tower, quadrangular base; 32.	
9688 <i>M 4969</i>	Imi Ko, N. breakwater.	33° 41.3' N 131° 36.1' E	F.FI.R. period 5s	43 13	F. 6 Fl. 12	Red round concrete tower; 28.	
9692 <i>M 4972</i>	Taketazu Ko, N. breakwater.	33° 40.7' N 131° 34.1' E	Iso.R. period 6s	39 12	11	Red round concrete tower; 28.	
9696 <i>M 4971</i>	Biwa Saki.	33° 41.1' N 131° 33.6' E	Fl.W. period 3s	164 50	7	White round concrete tower; 32.	
9700 <i>M 4974</i>	Kakaji.	33° 41.0' N 131° 31.4' E	Iso.W. period 8s	79 24	5	White round concrete tower; 25.	
9704 <i>M 4974.2</i>	Kakazi Ko, N. breakwater.	33° 40.6' N 131° 31.4' E	F.FI.R. period 6s	36 11	F. 6 Fl. 11	Red round concrete tower; 28.	
9708 <i>M 4974.6</i>	Bungo Takada Ko, training wall.	33° 35.7' N 131° 25.4' E	Fl.(2)R. period 8s 2 fl. 3s, ec. 5s	36 11	4	Red round concrete tower; 28.	
9712 <i>M 4975</i>	Buzen Nagasu Ko, training wall.	33° 34.7' N 131° 22.3' E	Iso.W. period 8s	36 11	11	White round structure, square base; 26.	
9714 <i>M 4975.5</i>	Buzen Imazu Ko.	33° 35.2' N 131° 16.2' E	Iso.R. period 4s	39 12	11	Red tower; 28.	
9716 <i>M 4976.2</i>	Imazu.	33° 36.1' N 131° 16.6' E	Fl.(2)W. period 5s	43 13	12	ISOLATED DANGER BRB, beacon, topmark; 46.	
9720 <i>M 4978</i>	Nakatu Ko.	33° 37.0' N 131° 15.0' E	Fl.R. period 3s	39 12	9	Red round tower on square concrete base; 30.	
9724 <i>M 4978.5</i>	Koiwai Ko, breakwater, head.	33° 37.1' N 131° 11.3' E	Fl.R. period 5s	46 14	12	Red tower; 33.	
9726 <i>M 4977</i>	Nakatu Ko, W. training wall, head.	33° 38.1' N 131° 11.5' E	Mo.(A)R. period 8s	39 12	9	STARBOARD (B) R, beacon, topmark; 31.	
9728 <i>M 4977.3</i>	Yositomi Ko.	33° 37.4' N 131° 11.1' E	Iso.G. period 6s	32 10	6	White concrete structure; 22.	
9730 <i>M 4979</i>	Unosima Ko.	33° 38.0' N 131° 07.5' E	Fl.(2)R. period 8s 2 fl. 3s, ec. 5s	43 13	11	Red round concrete tower; 31.	
9734 <i>M 4976.6</i>	Tuiki AVIATION LIGHT.	33° 40.6' N 131° 02.3' E	Al.FI.W.G. period 10s	125 38		Metal framework tower.	
9736 <i>M 4982.5</i>	-S. breakwater, S. head.	33° 47.2' N 131° 00.5' E	Fl.R. period 3s	32 10	4	Red tower; 19.	
9738 <i>M 4981</i>	Kando Ko, E. breakwater.	33° 47.8' N 131° 00.8' E	Fl.(2)G. period 8s	36 11	4	White round tower; 23.	
9742 <i>M 4982</i>	-N. breakwater.	33° 48.0' N 131° 00.7' E	Fl.(2)R. period 8s	36 11	7	Red round structure, square base; 26.	
9744 <i>M 4982.3</i>	-Observation tower.	33° 48.0' N 131° 04.3' E	Mo.(U)W. period 8s	33 10	5		Auxiliary light Mo.(U)W. 8s 8m 7M. Radar Reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
9746 <i>M 4983</i>	Kitakyushu AVIATION LIGHT.	33° 50.0' N 130° 56.5' E	Al.FI.W.G. period 4.3s	62 19		Iron framework tower.	
9750 <i>M 4984</i>	Inoura Ko, breakwater.	33° 50.8' N 130° 59.5' E	Fl.(2)G. period 8s	43 13	5	White tower; 32.	
9754 <i>M 4985</i>	Shin-Moji Hakuchi, breakwater.	33° 52.4' N 131° 00.6' E	Fl.G. period 5s	59 18	6	White tower; 53.	
9756 <i>M 4985.5</i>	-- W.	33° 52.5' N 131° 00.2' E	Fl.R. period 5s	46 14	7	Red tower; 33.	
9758 <i>M 4986</i>	Hishakuda Ko.	33° 54.1' N 130° 59.9' E	Fl.(2)R. period 8s	39 12	5	Red tower; 33.	
JAPAN-SETO NAIKAI-WESTERN PART (II)							
9762 <i>M 5360</i>	Manju Shima.	33° 59.7' N 131° 01.6' E	Fl.W. period 4s	52 16	7	White round concrete structure; 52.	Visible 245°-092°.
9766 <i>M 5312</i>	He Saki.	33° 57.6' N 131° 01.4' E	F.Fl.W. period 15s	128 39	17	White round granite tower; 33.	
9770 <i>M 5358</i>	Tyohu.	33° 59.7' N 130° 59.8' E	Iso.G. period 6s	39 12	3	White tower; 28.	
9774 <i>M 5355</i>	Moji Saki.	33° 57.7' N 130° 57.8' E	Iso.W. period 6s	33 10	5	White tower; 24.	Visible 029°-268°. Two F.R. lights are shown from outer corners of pier head at Moji Ko.
9778 <i>M 5356</i>	Simonoseki Range, front.	33° 57.7' N 130° 57.2' E	F.Y.	43 13	12	White round metal tower, masonry base; 30.	
9782 <i>M 5356.1</i>	--Rear, 163 meters 240°06' from front.	33° 57.7' N 130° 57.1' E	F.Y.	69 21	13	White metal framework tower, diamond daymark; 23.	
9786 <i>M 5353</i>	Sotohama, breakwater.	33° 57.3' N 130° 56.7' E	Fl.R. period 4s	26 8	4	Red square metal framework tower; 18.	
9788 <i>M 5352</i>	Shimonoseki Shi.	33° 57.3' N 130° 56.7' E	Fl.G. period 4s	27 8	5	White tower; 22.	
9790 <i>M 5354</i>	Mozi No 2 basin, breakwater.	33° 57.3' N 130° 57.7' E	Fl.G. period 3s	33 10	3	White concrete tower; 30.	
9792 <i>M 5355.2</i>	Moji No 5 basin, breakwater.	33° 56.8' N 130° 57.6' E	Iso.R. period 6s	24 7	5	Red tower; 23.	
9794 <i>M 5351</i>	-Simonoseki ku on Hananotyo Wharf, breakwater.	33° 56.9' N 130° 56.0' E	Fl.R. period 5s	32 10	3	Red round concrete structure; 28.	
9799 <i>M 5349</i>	Hiko Sima Range, front.	33° 55.9' N 130° 55.6' E	F.Y.	89 27	13	White tower; 86.	
9799.5 <i>M 5349.1</i>	-Rear, 90 meters 220° from front.	33° 55.9' N 130° 55.5' E	F.Y.	115 35	13	White tower; 46.	
9804 <i>M 5340.6</i>	Oseto No 3 Range, front.	33° 54.9' N 130° 56.3' E	F.Y.	85 26	13	White round concrete tower, triangular daymark point up; 61.	
9808 <i>M 5340.61</i>	-Rear, 340 meters 059° from front.	33° 55.0' N 130° 56.5' E	F.Y.	138 42	13	White round concrete tower, triangular daymark point down; 42.	
9816 <i>M 5347</i>	Moji Dairi, breakwater.	33° 54.6' N 130° 56.0' E	Fl.(2)R. period 6s	39 12	5	Red round concrete tower; 30.	
9820 <i>M 5340.3</i>	No 2 Range, front.	33° 53.9' N 130° 55.2' E	F.Y.	66 20	13	White round concrete tower, triangular daymark point up; 60.	
9824 <i>M 5340.31</i>	-Rear, 140 meters 112° from front.	33° 53.9' N 130° 55.3' E	F.Y.	98 30	13	White round concrete tower, triangular daymark point down; 92.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (II)							
9836 <i>M 5340</i>	No 1 Range, front.	33° 53.5' N 130° 54.7' E	F.Y.	131 40	14	White round metal tower, triangular daymark point up; 59.	
9840 <i>M 5340.1</i>	-Rear, 260 meters 141° from front.	33° 53.4' N 130° 54.8' E	F.Y.	259 79	14	White round metal tower, triangular daymark point up; 40.	
9844 <i>M 5345</i>	Sunatu, breakwater.	33° 53.6' N 130° 53.6' E	Fl.R. period 5s	39 12	5	Red round concrete tower, square base; 33.	
9848 <i>M 5344</i>	Sunatu Fairway Range, front.	33° 53.5' N 130° 53.7' E	F.G.	30 9	10	White round concrete structure, triangular daymark point up; 29.	
9852 <i>M 5344.1</i>	-Rear, 780 meters 232°12' from front.	33° 53.3' N 130° 53.3' E	F.G.	46 14	10	White round concrete structure, triangular daymark point up; 43.	
9860 <i>M 5339</i>	Simonoseki, basin, breakwater.	33° 55.2' N 130° 54.0' E	Fl.(2)G. period 8s	33 10	3	White tower; 28.	
9868 <i>M 5343.7</i>	Kokura, detached breakwater.	33° 54.4' N 130° 53.2' E	Iso.R. period 4s	36 11	5	Red round concrete tower; 30.	
9872 <i>M 5343</i>	Hiagari, No 1 breakwater.	33° 54.6' N 130° 52.8' E	Fl.(2)R. period 6s	39 12	5	Red tower; 30.	
9876 <i>M 5343.4</i>	--No 2 breakwater.	33° 54.7' N 130° 52.7' E	Fl.R. period 4s	40 12	5	Red tower; 30.	
9880 <i>M 5302</i>	Sakai Kawa Mouth Basin, breakwater.	33° 54.5' N 130° 51.2' E	Iso.G. period 6s	30 9	6	White tower; 24.	
9888 <i>M 5300</i>	Tobata Koro Passage, range, front.	33° 55.1' N 130° 51.6' E	F.G.	82 25	10	White quadrangular metal framework tower, triangular daymark point up; 79.	
9892 <i>M 5300.1</i>	-Rear, 63 meters 213° from front.	33° 55.1' N 130° 51.6' E	F.G.	102 31	10	White quadrangular metal framework tower, triangular daymark point down; 98.	
9896 <i>M 5301</i>	-Seitetsu Tobata Range, front.	33° 55.0' N 130° 50.9' E	F.G.	59 18	10	White metal post, triangular daymark point up; 52.	
9900 <i>M 5301.1</i>	--Rear, 360 meters 246°18' from front.	33° 55.0' N 130° 50.7' E	F.G.	105 32	10	White metal column, triangular daymark point down; 85.	
9912 <i>M 5297</i>	-Dokai Wan Entrance, breakwater.	33° 56.5' N 130° 51.0' E	Iso.R. period 4s	39 12	5	Red tower; 30.	
9916 <i>M 5295</i>	-Passage, bridge.	33° 54.2' N 130° 49.0' E	F.W.	141 43	6		F.R. and F.G. lights mark either end of bridge.
9924.5 <i>M 5335.2</i>	-Outer breakwater, E. side.	33° 57.3' N 130° 53.0' E	Fl.R. period 3s	30 9	4	Red tower; 18.	
9928 <i>M 5335.4</i>	-E. breakwater, head.	33° 57.2' N 130° 53.0' E	Fl.G. period 3s	39 12	3	White tower; 30.	
9932 <i>M 5337</i>	Koseto Range, front.	33° 57.0' N 130° 54.6' E	F.Y.	66 20	11	White tower, white rectangular daymark; 30.	
9936 <i>M 5337.1</i>	-Rear, 57 meters 130° from front.	33° 57.0' N 130° 54.6' E	F.Y.	85 26	11	White tower, white rectangular daymark; 30.	
9942 <i>M 5334.5</i>	Masima Ko.	33° 57.9' N 130° 51.2' E	Iso.G. period 8s	36 11	4	White tower; 18.	
9944 <i>M 5334</i>	Mutsureshima.	33° 58.7' N 130° 52.1' E	Fl.W. period 3s	92 28	12	White round granite tower; 36.	Visible 140°-12°.
9946 <i>M 5334.2</i>	-Breakwater, head.	33° 58.5' N 130° 52.1' E	Fl.R. period 3s	23 7	3	Red tower; 16.	
9948 <i>M 5332</i>	Yasuoka Ko, breakwater.	34° 01.4' N 130° 54.6' E	Iso.G. period 6s	33 10	4	White tower; 18.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (II)							
9952 M 5326	Omoji Iwa.	34° 00.6' N 130° 48.7' E	Fl.W. period 3s	49 15	5	White tower; 49.	Visible 031°-330°.
9953 M 5327.6	-Ainosima ko.	33° 59.8' N 130° 48.7' E	Fl.G. period 3s	30 9	3	White tower; 18.	
9954 M 5327.2	Ainosima Ko.	33° 59.5' N 130° 49.3' E	Fl.R. period 6s	33 10	7	Red tower; 19.	
9956 M 5327	Ainosima Ko, E. breakwater, head.	33° 59.2' N 130° 49.1' E	Fl.(2)G. period 6s	33 10	6	White tower; 27.	
9960 M 5328	Shira Su.	33° 59.0' N 130° 47.5' E	Fl.W. period 4s	52 16	7	White round metal tower, black bands, stone base; 56.	
9962 M 5324	Sirasima.	34° 01.3' N 130° 44.3' E	Mo.(U)W. period 12s	128 39	10	Oil storage seaberth.	Mo.(U)W. 12s 140 meters and 240 meters NNW, 160 meters and 260 meters SSW. Horn: Mo.(U) ev. 30s.
9962.2 M 5324.4	-S. breakwater.	34° 00.4' N 130° 43.7' E	Fl.G. period 4s	43 13	12	White tower; 36.	Horn: 1 bl. ev. 20s.
9962.4 M 5324.5	--Inner breakwater.	34° 00.4' N 130° 43.7' E	Fl.R. period 4s	26 8	9	Red mast; 16.	
9962.6 M 5324.7	-Outer breakwater, S. corner.	34° 00.3' N 130° 44.0' E	Fl.W. period 3s	59 18	10		
9962.8 M 5324.8	--N. corner.	34° 00.9' N 130° 44.3' E	Fl.W. period 5s	59 18	10		
JAPAN-SHIKOKU							
9964 M 5577.06	Izarki Ko.	33° 48.1' N 134° 40.2' E	Oc.R. period 4s	40 12	4	Red tower; 19.	
9983 M 5577.1	Yuki Ko, breakwater.	33° 47.3' N 134° 38.6' E	F.Fl.(2)R. period 6s	46 14	F. 1 Fl. 3	Red tower; 31.	
9984 M 5577.15	Breakwater, head.	33° 46.7' N 134° 36.5' E	Fl.R. period 5s	52 16	3	Red tower; 36.	
9988 M 5577.2	Yuki Ko, E. breakwater.	33° 46.1' N 134° 35.4' E	F.Fl.R. period 3s	33 10	F. 1 Fl. 3	Red round concrete tower; 28.	
10000 M 5578.5	Asebino Hana.	33° 44.1' N 134° 33.8' E	Fl.W. period 5s	545 166	19	White tower; 39.	Visible 210°-091°.
10004 M 5578.8	Hiwasa Ko, N. breakwater.	33° 43.8' N 134° 32.6' E	F.Fl.(2)R. period 10s	33 10	F. 1 Fl. 3	Red tower; 28.	
10012 M 5578.6	Hiwasa Ko, offing breakwater, N. head.	33° 43.6' N 134° 32.8' E	Fl.G. period 3s	43 13	5	White tower; 28.	
10016 M 5579.4	Mugi ko.	33° 39.6' N 134° 26.7' E	Fl.R. period 3s	49 15	7	Red tower; 32.	
10024 M 5579.6	-E. breakwater.	33° 40.0' N 134° 25.0' E	Iso.R. period 6s	43 13	4	Red round concrete tower; 28.	
10028 M 5579.7	-W. breakwater.	33° 39.5' N 134° 25.4' E	Iso.G. period 6s	46 14	5	White tower; 31.	
10032 M 5581	Deba Jima.	33° 37.9' N 134° 25.5' E	Fl.(2)W. period 8s	279 85	7	White tower; 46.	
10036 M 5581.1	-E. Breakwater, N. end of island.	33° 38.2' N 134° 25.4' E	Fl.G. period 3s	33 10	5	White tower; 26.	
10040 M 5581.2	Asakawa Ko, E. breakwater.	33° 37.8' N 134° 22.7' E	Fl.(2)R. period 6s	43 13	5	Red round concrete tower; 33.	
10044 M 5581.4	Tomoura, breakwater.	33° 35.5' N 134° 21.9' E	Fl.R. period 4s	39 12	5	Red round concrete tower; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SHIKOKU							
10048 <i>M 5581.6</i>	Shishikui Ko, S. breakwater.	33° 33.7' N 134° 18.8' E	F.F.I.G. period 5s	36 11	F. 1 Fl. 3	White tower; 27.	
10052 <i>M 5581.8</i>	Awa Take-ga-Sima.	33° 32.5' N 134° 19.2' E	Fl.W. period 8s	318 97	23	White concrete column, red bands; 43.	
10056 <i>M 5584</i>	Kannoura.	33° 32.5' N 134° 18.1' E	Iso.W. period 6s	138 42	5	White concrete tower; 27.	Visible 211°-031°.
10060 <i>M 5584.3</i>	-N. breakwater.	33° 32.3' N 134° 18.5' E	Fl.G. period 3s	26 8	3	White tower; 16.	
10064 <i>M 5585</i>	-Hasu Bae.	33° 32.3' N 134° 18.4' E	Fl.R. period 5s	59 18	3	Red tower; 49.	
10065 <i>M 5585.3</i>	None Ko.	33° 29.8' N 134° 16.4' E	Fl.G. period 3s	43 13	3	White tower; 23.	
10066 <i>M 5585.65</i>	Sakihama.	33° 23.5' N 134° 12.9' E	Fl.G. period 3s	49 15	5	White tower; 32.	
10068 <i>M 5585.5</i>	Sakihama Range, front.	33° 23.5' N 134° 12.7' E	Oc.R. period 8s lt. 6s, ec. 2s	49 15	9	White tower; 46.	
10072 <i>M 5585.6</i>	-Rear, 40 meters 237°36' from front.	33° 23.5' N 134° 12.6' E	Oc.W. period 8s lt. 6s, ec. 2s	85 26	12	White round concrete tower; 23.	
10076 <i>M 5585.8</i>	Mitu Ko, N. breakwater.	33° 17.6' N 134° 11.3' E	Fl.R. period 6s	43 13	3	Red tower; 36.	
10080 <i>M 5585.7</i>	Shiina Ko, E. breakwater.	33° 19.7' N 134° 12.0' E	Iso.R. period 6s	49 15	4	Red tower; 36.	
10084 <i>M 5586</i>	Muroto Zaki.	33° 14.8' N 134° 10.5' E	Fl.W. period 10s	509 155	26	White round metal tower; 50.	DGPS Station 741 meters N.
	RAMARK				22		
	MUROTOMISAKI KO:						
10092 <i>M 5587.2</i>	-W. breakwater extension.	33° 15.6' N 134° 09.9' E	F.F.I.R. period 4s	56 17	F. 1 Fl. 3	Red round concrete tower; 43.	
10096 <i>M 5587.3</i>	-S. breakwater.	33° 15.6' N 134° 09.8' E	Fl.G. period 3s	56 17	5	White tower; 46.	
10098 <i>M 5587.4</i>	-Breakwater, head.	33° 15.7' N 134° 09.6' E	Fl.R. period 3s	66 20	5	Red tower; 52.	
	TOSA WAN MUROTSU KO:						
10100 <i>M 5589</i>	-S. breakwater.	33° 17.2' N 134° 08.7' E	Fl.(2)R. period 6s	62 19	4	Red tower; 56.	
10104 <i>M 5590</i>	-N. jetty, S. head.	33° 17.1' N 134° 08.6' E	Iso.G. period 6s	36 11	4	White tower; 28.	
10108 <i>M 5591</i>	Hana Saki.	33° 22.3' N 134° 02.3' E	Fl.(2)W. period 20s	256 78	12	White square concrete tower; 36.	Visible 323°-171°.
10112 <i>M 5592.2</i>	Nahari Ko, breakwater, head.	33° 25.2' N 134° 00.8' E	Fl.R. period 3s	46 14	5	Red round concrete tower; 36.	
10116 <i>M 5592.3</i>	Nahari Ko.	33° 25.0' N 134° 01.0' E	Fl.G. period 3s	39 12	3	White tower; 31.	
10118 <i>M 5592.4</i>	--	33° 24.9' N 134° 00.9' E	Fl.(2)R. period 6s	52 16	5	Red tower; 28.	
10120 <i>M 5592.5</i>	To-No Hama.	33° 26.5' N 133° 57.8' E	F.W.	69 21		White tower; 49.	Illuminates reef 450 meters SW.
10124 <i>M 5592.55</i>	Yasuda Ko.	33° 26.7' N 133° 57.3' E	Fl.R. period 5s	49 15	3	Red tower; 31.	F.W. floodlight 120 meters WNW.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SHIKOKU							
10128 <i>M 5592.6</i>	Aki Ko, E. breakwater.	33° 29.9' N 133° 53.4' E	Iso.R. period 4s	49 15	4	Red tower; 32.	
10132 <i>M 5592.8</i>	Sumiyosi Ko, E. breakwater.	33° 30.9' N 133° 46.0' E	Fl.R. period 3s	49 15	5	Red round concrete tower; 31.	
10136 <i>M 5593</i>	Tei Saki.	33° 31.3' N 133° 45.4' E	Fl.W. period 3s	95 29	7	White round concrete tower; 36.	
10140 <i>M 5593.2</i>	Tei Ko, breakwater.	33° 31.7' N 133° 45.1' E	Fl.(2)R. period 6s	49 15	4	Red tower; 28.	
10142 <i>M 5593.3</i>	Akaoka Ko, breakwater.	33° 32.1' N 133° 43.4' E	Fl.(2)G. period 6s	49 15	3	White tower; 30.	
10144 <i>M 5593.4</i>	Kochi (Koti).	33° 32.1' N 133° 41.8' E	Fl.R. period 3s	52 16	3	Red tower; 32.	
10148 <i>M 5593.5</i>	Kochi (Koti) AVIATION LIGHT.	33° 32.9' N 133° 40.6' E	Al.Fl.W.G. period 4.3s	72 22	W. G.	3 1	Metal framework tower.
KOCHI KO:							
10152 <i>M 5594</i>	-Ryuzu Saki.	33° 29.8' N 133° 34.4' E	Fl.W. period 5s	177 54	19	White round concrete tower; 49.	Visible 222°30'-063°.
10156 <i>M 5595</i>	-Breakwater, S. side of harbor entrance.	33° 30.1' N 133° 35.0' E	Iso.G. period 6s	52 16	5	White square metal framework tower; 36.	
10160 <i>M 5594.8</i>	-Tanezaki, breakwater.	33° 30.3' N 133° 34.5' E	Iso.R. period 6s	43 13	4	Red round concrete tower; 33.	
10188 <i>M 5596.3</i>	Shirano Hana.	33° 25.8' N 133° 27.8' E	Iso.W. period 6s	197 60	8	White tower; 25.	
10190 <i>M 5596.25</i>	Usa Ko.	33° 26.7' N 133° 27.5' E	Fl.(2)R. period 6s	43 13	5	Red tower; 31.	
10192 <i>M 5596.2</i>	Usa Ko, training wall, 2.2 km. 323° from Shirano Hana.	33° 26.8' N 133° 26.9' E	Fl.G. period 3s	36 11	5	White round concrete tower; 31.	
10196 <i>M 5596.4</i>	Yamazaki Hana.	33° 22.9' N 133° 17.4' E	Fl.(2)W. period 6s	223 68	12	White tower; 36.	
10204 <i>M 5596.5</i>	Isshi Hae.	33° 19.5' N 133° 19.0' E	Fl.(2)W. period 5s	69 21	8	ISOLATED DANGER BRB, beacon, topmark; 69.	
10208 <i>M 5596.6</i>	Hutana Shima.	33° 19.7' N 133° 14.9' E	Fl.(2)W. period 7s	115 35	10	White round concrete tower; 31.	F.W. illuminates rocks 130 meters SSE.
10210 <i>M 5596.7</i>	Kure Ko, breakwater, head.	33° 19.6' N 133° 14.1' E	Fl.R. period 3s	42 13	5	Red tower; 33.	
10212 <i>M 5597</i>	Kaminokae Ko, E. entrance, breakwater, head.	33° 16.8' N 133° 14.9' E	Fl.G. period 3s	39 12	5	White tower; 27.	
10216 <i>M 5598.1</i>	Urabun Ko, breakwater.	33° 09.6' N 133° 13.2' E	Fl.R. period 5s	43 13	4	Red tower; 32.	
10220 <i>M 5598.15</i>	Okitu Saki, WNW.	33° 09.7' N 133° 12.3' E	F.Fl.R. period 3s	46 14	F. Fl.	1 3	Red tower; 33.
10224 <i>M 5598</i>	Okitsu Saki.	33° 09.3' N 133° 13.1' E	Fl.W. period 10s	617 188	20	White concrete tower; 46.	Visible 204°-043°.
10228 <i>M 5598.3</i>	Saga, Ko Groin.	33° 04.5' N 133° 07.2' E	Fl.(2)G. period 6s	66 20	7	White tower; 39.	
10234 <i>M 5598.25</i>	-S.	33° 04.1' N 133° 06.8' E	Fl.G. period 3s	62 19	5	White tower; 43.	
10244 <i>M 5599.4</i>	Tanoura Ko.	32° 59.9' N 133° 00.5' E	Fl.(3)W. period 13s	52 16	13	White round tower; 31.	
10246 <i>M 5599.6</i>	-Tanoura.	32° 59.7' N 133° 00.6' E	Fl.(2)G. period 6s	59 18	4	White tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SHIKOKU							
10248 <i>M 5599.3</i>	-Nakamura.	33° 00.6' N 133° 00.7' E	Fl.G. period 3s	49 15	5	White tower; 31.	F.W. spotlight marks shoal 110 meters SSE.
10252 <i>M 5598.5</i>	Inomino Misaki.	33° 01.5' N 133° 05.7' E	Fl.(2)W. period 8s	144 44	7	White round concrete tower; 36.	
10256 <i>M 5598.7</i>	Ida Ko, breakwater.	33° 02.1' N 133° 04.4' E	Fl.G. period 4s	36 11	7	White round concrete structure; 31.	F.W. illuminates Oki no Hiraso about 140 meters SW.
10258 <i>M 5600.2</i>	Tosa Shimoda Ko.	32° 56.0' N 132° 59.3' E	Fl.R. period 3s	28 9	3	Red tower; 18.	
10260 <i>M 5600</i>	Nishi Michi Saki.	32° 55.8' N 133° 00.0' E	Fl.W. period 4s	131 40	12	White tower; 43.	F.W. illuminates head of training wall 202 meters N.
10264 <i>M 5601</i>	Nuno Zaki.	32° 51.8' N 133° 59.6' E	Fl.W. period 5s	190 58	7	White tower; 33.	
10266 <i>M 5601.3</i>	Simonokae Ko.	32° 51.7' N 132° 57.8' E	Fl.G. period 3s	46 14	3	White tower; 33.	
10270 <i>M 5601.9</i>	Iburi Ko.	32° 48.1' N 132° 58.0' E	Fl.(2)G. period 6s	49 15	5	White tower; 33.	
10272 <i>M 5601.8</i>	Iburi Ko, breakwater.	32° 48.1' N 132° 58.0' E	Fl.G. period 5s	46 14	3	White tower; 31.	
10273 <i>M 5601.7</i>	Kubotu Ko.	32° 47.4' N 133° 59.9' E	Fl.G. period 3s	46 14	5	White tower; 36.	
10276 <i>M 5601.6</i>	Kubotsu Zaki.	32° 47.2' N 133° 00.1' E	Fl.W. period 15s	167 51	21	White tower; 36.	Visible 118°-329°. Auxiliary light illuminates Yusuga Bae about 440 meters ENE.
10284 <i>M 5602</i>	Ashizuri Zaki.	32° 43.6' N 133° 01.2' E	Fl.(3)W. period 30s	200 61	20	White tower; 59.	Visible 201°-091°. Auxiliary light illuminates Kogane Bae about 410 meters S.
	RAMARK				22		
10286 <i>M 5602.4</i>	Asizuri Misaki, on point.	32° 43.4' N 133° 00.6' E	F.Fl.R. period 3s	52 16	F. 2 Fl. 5	Red tower; 31.	
10288 <i>M 5603</i>	Usu-bae Saki.	32° 43.9' N 132° 57.9' E	Fl.(2)W. period 10s	167 51	12	White tower; 31.	An auxiliary F.W. illuminates the rock about 210 meters SSW.
10292 <i>M 5607.3</i>	Asizuri Ko, W. breakwater.	32° 46.7' N 132° 56.1' E	Iso.G. period 6s	52 16	4	White tower; 36.	
10296 <i>M 5604</i>	Tosa Shimizu.	32° 46.0' N 132° 56.9' E	Fl.W.R. period 4s	151 46	13	White tower; 42.	R. 021°-084°, W.-021°. F.W. illuminates shoal 850 meters SSW.
10301 <i>M 5607.4</i>	Ashizuri Ko, E. breakwater.	32° 46.5' N 132° 56.1' E	Fl.R. period 3s	56 17	4	Red tower; 33.	
10304 <i>M 5605</i>	-Hira Bae, breakwater, about 1061 meters 164°30' from Maki Yama.	32° 45.9' N 132° 57.1' E	Iso.R. period 4s	43 13	4	Red tower; 31.	
10308 <i>M 5606</i>	-Tobi Shima, breakwater.	32° 46.2' N 132° 57.3' E	Fl.G. period 5s	43 13	5	White round concrete tower; 28.	
10310 <i>M 5607.5</i>	Chihiro Saki, 2.6 km NNW.	32° 47.2' N 132° 52.1' E	Fl.G. period 5s	39 12	3	White tower; 18.	
10312 <i>M 5608</i>	Kano (Kanai) Saki.	32° 44.9' N 132° 48.2' E	Fl.W. period 5s	131 40	12	White octagonal tower; 27.	Visible 216°-098°.
10316 <i>M 5608.4</i>	Kosaitsumo Ko, breakwater.	32° 45.3' N 132° 47.1' E	Iso.G. period 4s	56 17	4	White tower; 32.	
10320 <i>M 5608.7</i>	Komame Saki.	32° 47.1' N 132° 41.8' E	Fl.W. period 4s	298 91	5	White tower; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SHIKOKU							
10324 <i>M 5610.12</i>	Okino Shima, N. point.	32° 45.3' N 132° 32.7' E	Fl.W. period 3s	220 67	5	White tower; 33.	
10328 <i>M 5609.7</i>	Tosa-Moshima Ko, outer breakwater, head.	32° 44.3' N 132° 32.8' E	Fl.R. period 3s	52 16	3	Red tower; 31.	
10330 <i>M 5610.17</i>	Uguru Sima.	32° 48.2' N 132° 29.9' E	Iso.W. period 8s	354 108	5	White tower; 31.	
10332 <i>M 5610</i>	Kushiga Hana.	32° 42.3' N 132° 32.6' E	Fl.(2)W. period 20s	571 174	21	White square concrete tower; 49.	Visible 240°-170°30'.
10336 <i>M 5609.5</i>	Kashiwa Jima.	32° 46.1' N 132° 37.3' E	Fl.(2)W. period 10s	512 156	7	White round concrete tower; 39.	
10340 <i>M 5609</i>	Kashiwa Jima Ko Entrance.	32° 46.4' N 132° 37.7' E	Iso.R. period 4s	46 14	4	Red round concrete tower; 36.	

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UWAJIMA KO:							
10344 <i>M 5619</i>	-Breakwater.	33° 13.6' N 132° 33.0' E	F.F.L.G. period 4s	26 8	F. 2 Fl. 5	White tower; 18.	
10348 <i>M 5619.2</i>	-W. breakwater.	33° 13.6' N 132° 32.6' E	Fl.R. period 5s	33 10	3	Red tower; 28.	
10352 <i>M 5621</i>	Yamashita Suido.	33° 16.5' N 132° 28.6' E	Oc.R. period 4s lt. 3s, ec. 1s	32 10	4	Red round concrete tower; 25.	
10356 <i>M 5618</i>	-Doga Saki.	33° 13.0' N 132° 30.9' E	Fl.W. period 4s	92 28	7	White round concrete tower; 25.	
10358 <i>M 5618.2</i>	Kusima Ko, breakwater.	33° 13.2' N 132° 31.5' E	Fl.R. period 3s	23 7	4	Red tower; 18.	
10360 <i>M 5616.4</i>	Bozu Bae.	33° 12.7' N 132° 28.5' E	Mo.(A)G. period 8s	33 10	3	PORT (B) G, tower, topmark; 26.	
10368 <i>M 5616.2</i>	Miti Shimi, No 1 breakwater.	33° 12.9' N 132° 26.3' E	Fl.(2)R. period 6s	26 8	3	Red round concrete tower; 16.	
10372 <i>M 5623</i>	Sa Shima.	33° 26.4' N 132° 21.7' E	Fl.W. period 3s	190 58	7	White round concrete tower; 30.	
10376 <i>M 5623.4</i>	Zeku Iwa.	33° 26.5' N 132° 22.9' E	Mo.(A)R. period 8s	43 13	3	STARBOARD (B) R, tower, topmark; 30.	
10378 <i>M 5623.5</i>	Yawatahama Ko, breakwater.	33° 27.4' N 132° 24.4' E	Oc.G. period 4s lt. 3s, ec. 1s	36 11	5	White tower; 28.	
10380 <i>M 5623.6</i>	Muronohana.	33° 28.4' N 132° 21.2' E	Iso.W. period 6s	102 31	5	White tower; 36.	
10384 <i>M 5624.5</i>	Mekko Hana.	33° 27.1' N 132° 19.0' E	Oc.(2)W. period 8s lt. 5s, ec. 1s lt. 1s, ec. 1s	210 64	12	White tower; 36.	
10388 <i>M 5622.7</i>	Ko Sima.	33° 22.6' N 132° 22.1' E	Fl.W. period 5s	39 12	7	White tower; 36.	
10390	Mikame Ko, jetty, head.	33° 22.2' N 132° 24.3' E	Iso.G. period 4s	27 8	6	White round tower; 19.	
10392 <i>M 5622.4</i>	Okuti Wan, on Island.	33° 20.7' N 132° 22.7' E	Fl.(3)W. period 14s	125 38	5	White tower; 28.	
10396 <i>M 5622.5</i>	-S. breakwater, head.	33° 20.4' N 132° 22.7' E	Fl.G. period 3s	40 12	3	White tower; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SHIKOKU AND KYUSHU							
10400 <i>M 5622</i>	Osaki Hana.	33° 19.2' N 132° 22.4' E	Fl.W. period 5s	351 107	12	White tower; 28.	F.W. light illuminates Sanzo Baya about 830 meters SW.
10404 <i>M 5621.4</i>	Iyo Mizukoshi Shima.	33° 18.5' N 132° 29.2' E	Fl.W. period 5s	52 16	7	White tower; 26.	
10408 <i>M 5620</i>	Ora Saki.	33° 15.2' N 132° 28.1' E	Iso.W. period 6s	98 30	8	White tower; 36.	
10412 <i>M 5619.4</i>	Hikide Hana.	33° 14.7' N 132° 31.4' E	Oc.W. period 4s	49 15	5	White tower; 43.	
10416 <i>M 5616</i>	Hosoki Unga, N. entrance, W. side.	33° 12.2' N 132° 24.6' E	Fl.R. period 3s	36 11	4	Red tower; 28.	
10420 <i>M 5614.4</i>	Otoshibana.	33° 11.8' N 132° 25.2' E	Mo.(A)G. period 8s	33 10	3	PORT (B) G, tower, topmark.	
10424 <i>M 5615.6</i>	Uwa Ka Shima.	33° 13.8' N 132° 21.6' E	Iso.W. period 6s	423 129	14	White tower; 32.	
10428 <i>M 5615</i>	Okoshi Shima.	33° 12.5' N 132° 23.4' E	Fl.W. period 3s	200 61	7	White tower; 28.	
10430 <i>M 5614.9</i>	To Sima.	33° 12.2' N 132° 22.0' E	Fl.R. period 3s	30 9	4	Red tower; 19.	
10436 <i>M 5614.5</i>	Hiburi Shima.	33° 10.2' N 132° 16.0' E	Fl.W. period 6s	410 125	19	White tower; 33.	
10440 <i>M 5614.34</i>	Noto Saki, on Aka Bae.	33° 09.4' N 132° 25.4' E	Fl.(3)W. period 13s	52 16	10	White tower, red bands; 29.	
10444 <i>M 5614.2</i>	Sho-no-Shima.	33° 07.6' N 132° 26.5' E	Fl.W. period 4s	33 10	5	White tower; 26.	
10448 <i>M 5614.3</i>	Iwamatsu Ko, Usashi breakwater.	33° 07.7' N 132° 29.7' E	Iso.G. period 6s	36 11	5	White tower; 28.	
10452 <i>M 5614.1</i>	Iyo, Takega Shima.	33° 06.4' N 132° 24.5' E	Fl.(4)W. period 16s	108 33	7	White tower; 26.	
10456 <i>M 5614</i>	Suge Zaki.	33° 04.3' N 132° 24.9' E	Fl.(2)W. period 8s	351 107	5	White round concrete tower; 43.	
10464 <i>M 4912</i>	Mizunoko Shima.	33° 02.7' N 132° 10.6' E	Fl.W. period 10s	184 56	20	White round stone tower, black bands; 128.	
	RACON		(- - - - -)		9		(3cm).
10465 <i>M 5625.6</i>	Sadamisaki Ko, No 1 breakwater.	33° 21.8' N 132° 03.1' E	F.Fl.G. period 6s	46 14	F. 2 Fl. 5	White tower; 31.	
10465.5 <i>M 5625.2</i>	-Inoura, breakwater.	33° 22.5' N 132° 06.3' E	Iso.R. period 6s	43 13	5	Red round concrete tower; 30.	
10466 <i>M 5625</i>	Iyo Misaki Ko, No 1 breakwater.	33° 23.3' N 132° 07.2' E	F.Fl.R. period 4s	39 12	F. 1 Fl. 3	Red tower; 28.	
10468 <i>M 5613</i>	Yurano Hana.	33° 01.2' N 132° 23.0' E	Fl.W. period 5s	305 93	8	White tower; 29.	
10472 <i>M 5612.5</i>	Funakoshi Canal, N. entrance.	33° 03.3' N 132° 26.0' E	Iso.G. period 6s	33 10	5	White tower; 28.	
10476 <i>M 5612.3</i>	Shiokoshima Kurobae.	33° 01.3' N 132° 27.5' E	Fl.W. period 3s	62 19	5	White tower; 56.	
10480 <i>M 5612.2</i>	Kogai Bae.	32° 59.6' N 132° 30.0' E	Fl.(2)W. period 8s	43 13	5	White round concrete tower; 36.	
10484 <i>M 5612.14</i>	Mabune.	32° 58.4' N 132° 30.3' E	Iso.W. period 6s	43 13	4	White tower; 33.	
10488 <i>M 5612.1</i>	Ka Shima.	32° 56.7' N 132° 27.5' E	Fl.W. period 4s	118 36	7	White tower; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SHIKOKU AND KYUSHU							
10492 <i>M 5612</i>	Komo Saki.	32° 54.4' N 132° 28.5' E	Fl.W. period 7s	466 142	7	White round concrete tower; 20.	
10496 <i>M 5611.4</i>	Iyo, Fukuura Ko, breakwater.	32° 55.1' N 132° 30.0' E	Fl.G. period 3s	25 8	4	White tower; 18.	
10500 <i>M 5611.3</i>	-Breakwater, head.	32° 56.7' N 132° 30.4' E	Fl.R. period 3s	26 8	5	Red tower; 18.	
10504 <i>M 5611</i>	Tengi Hana.	32° 55.8' N 132° 34.0' E	Oc.W. period 8s lt. 6s, ec. 2s	241 73	12	White round concrete tower; 25.	Auxiliary light illuminates beacon on Shira Ishi, about 800 meters SE.
10508 <i>M 5611.2</i>	Iyo Fukaura Ko Ninobae Hana.	32° 56.3' N 132° 35.2' E	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	31 9	4	White tower; 30.	
10512 <i>M 5610.5</i>	Ikeno Shima.	32° 55.1' N 132° 41.3' E	Iso.W. period 6s	194 59	8	White round concrete tower, octagonal base; 28.	
10514 <i>M 5610.45</i>	-O Sima.	32° 55.2' N 132° 41.1' E	Fl.(2)R. period 6s	39 12	4	Red tower; 28.	
10516 <i>M 5610.4</i>	Tosa, Nagasaka Bana.	32° 53.7' N 132° 42.3' E	Fl.(3)W. period 13s	230 70	12	White round concrete tower; 31.	F.W. floodlight illuminates Siro Bae 420 meters W.
10520 <i>M 5610.2</i>	Sira Saki.	32° 51.3' N 132° 39.5' E	Fl.W. period 4s	184 56	12	White concrete tower; 31.	F.W. floodlight marks Ko Jima 400 meters N.
10524 <i>M 4922</i>	Takago Iwa.	33° 06.8' N 132° 01.7' E	Fl.W. period 3s	62 19	5	White round concrete tower; 28.	
10526 <i>M 4923.3</i>	Hodosima Ko.	33° 06.6' N 132° 00.5' E	Iso.G. period 6s	30 9	4	White tower; 19.	
10528 <i>M 4923</i>	Hoto Shima Ko.	33° 06.2' N 132° 00.3' E	Fl.G. period 3s	30 9	5	White tower; 18.	
10532 <i>M 4924</i>	Hoto Shima Ko, breakwater, head.	33° 05.9' N 132° 00.2' E	Iso.G. period 6s	29 9	4	White tower; 19.	
10534	Tukumi Ko.	33° 04.1' N 131° 59.3' E	Iso.G. period 6s	27 8	6	White tower; 19.	
10535 <i>M 4927.5</i>	Youra Ko.	33° 03.8' N 131° 58.2' E	Fl.R. period 3s	28 9	6	Red tower; 19.	
10536 <i>M 4928</i>	Tsukumi Sirais.	33° 06.5' N 131° 56.4' E	Fl.(2)W. period 5s	39 12	11	ISOLATED DANGER BRB, beacon, topmark; 30.	
10538 <i>M 4928.5</i>	Akae Ko, breakwater.	33° 05.4' N 131° 55.8' E	Fl.G. period 5s	26 8	5	White concrete structure; 18.	
TSUKUMI KO:							
10548 <i>M 4930</i>	-Detached breakwater.	33° 04.7' N 131° 51.8' E	Fl.G. period 3s	39 12	10	Green tower; 29.	
10552 <i>M 4929</i>	-Chinu Saki.	33° 05.2' N 131° 53.0' E	Iso.G. period 4s	36 11	11	White round concrete tower; 28.	
10556 <i>M 4938.3</i>	-Tomariganti.	33° 07.4' N 131° 54.9' E	Fl.W. period 4s	239 73	12	White round metal tower; 33.	
10558 <i>M 4939</i>	-Kusuya Saki.	33° 07.2' N 131° 49.7' E	Fl.(2)G. period 5s	29 9	5	White tower; 18.	
10560 <i>M 4940</i>	Usuki Ko, breakwater, E. head.	33° 07.8' N 131° 48.7' E	Fl.R. period 3s	26 8	9	Red tripod, round base; 23.	
10564 <i>M 4941</i>	-Breakwater, head.	33° 07.6' N 131° 48.9' E	Oc.G. period 8s lt. 6s, ec. 2s	39 12	11	White tower; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SHIKOKU AND KYUSHU							
10568 <i>M 4943</i>	-Shitanoe.	33° 09.6' N 131° 49.7' E	Oc.W. period 8s lt. 6s, ec. 2s	69 21	14	White round concrete structure; 28.	
10570 <i>M 4943.5</i>	-Shitanoe Ko.	33° 10.6' N 131° 50.0' E	Fl.G. period 3s	25 8	5	White tower; 18.	
SAIKI WAN:							
10572 <i>M 4916</i>	-Takega Shima.	32° 59.1' N 131° 58.9' E	Fl.W. period 5s	125 38	12	White round concrete tower, square base; 23.	
10574 <i>M 4921</i>	-Breakwater, head.	33° 02.9' N 131° 56.1' E	Iso.R. period 6s	36 11	11	Red tower; 28.	
10576 <i>M 4917</i>	-Motsura Ko, N. breakwater.	32° 56.9' N 131° 57.7' E	Fl.(2)G. period 6s	24 7	3	White round concrete tower; 16.	
10578 <i>M 4917.5</i>	-Breakwater, head.	32° 57.1' N 131° 57.4' E	Fl.R. period 3s	26 8	6	Red concrete tower; 19.	
10580 <i>M 4918</i>	-Todo Hana, summit off SE. point of Onyu Shima.	32° 58.8' N 131° 55.4' E	Oc.W. period 8s	75 23	14	White tower; 33.	
10584 <i>M 4920.4</i>	-E. Training Wall.	32° 58.5' N 131° 54.8' E	Fl.R. period 4s	36 11	9	Red round concrete tower; 31.	
10586 <i>M 4920.5</i>	-Breakwater, head.	32° 58.5' N 131° 54.8' E	Fl.G. period 4s	26 8	6	White tower; 19.	
10588 <i>M 4920.2</i>	-W. Training Wall, head.	32° 58.5' N 131° 54.5' E	Fl.(2)G. period 7s	36 11	5	White tower; 28.	
10592 <i>M 4920</i>	-Saeki Ko, Katsura, N. breakwater.	32° 58.6' N 131° 54.6' E	Fl.(2)R. period 7s	36 11	6	Red tower; 27.	
10594 <i>M 4913.5</i>	-O Sima, W. side.	32° 58.3' N 132° 04.5' E	Fl.R. period 3s	28 9	3	Red tower; 19.	
10596 <i>M 4914</i>	Bungo, O Shima, W. breakwater.	32° 58.1' N 132° 04.4' E	Iso.G. period 6s	29 9	4	White tower; 19.	
10600 <i>M 4913</i>	Sakino Se.	32° 58.2' N 132° 06.1' E	Fl.(2)W. period 6s	141 43	5	White tower; 24.	
10604 <i>M 4910</i>	Motonoma Kaiyo.	32° 57.0' N 132° 04.2' E	Fl.(2)W. period 5s	39 12	3	ISOLATED DANGER BRB, beacon, topmark; 36.	

Section 7

Kyushu

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
10608 <i>M 4909.8</i>	Turumi Saki.	32° 55.9' N 132° 05.0' E	Fl.W. period 8s	646 197	23	White round concrete tower; 46.	Visible 172°-080°.
10610 <i>M 4909.1</i>	Yonozu Hakuti.	32° 54.0' N 131° 59.7' E	Fl.W. period 4s	56 17	5	White tower; 30.	
10613 <i>M 4909.3</i>	-S. breakwater.	32° 53.5' N 131° 59.2' E	Fl.G. period 3s	26 8	4	White tower; 20.	
10614 <i>M 4909.4</i>	-Breakwater.	32° 53.6' N 131° 59.2' E	Iso.R. period 8s	26 8	4	Red tower; 20.	
10620 <i>M 4909</i>	Oki Kuro Sima.	32° 52.8' N 132° 02.0' E	Fl.W. period 3s	262 80	5	White round concrete tower; 26.	
10624 <i>M 4908</i>	Kamae Ko.	32° 47.2' N 131° 55.8' E	Fl.W. period 5s	42 13	5	White round concrete tower; 33.	
10628 <i>M 4908.4</i>	-Breakwater.	32° 47.6' N 131° 55.3' E	Fl.R. period 3s	23 7	3	Red tower; 16.	
10630 <i>M 4908.6</i>	-N. breakwater, head.	32° 51.1' N 131° 57.1' E	Fl.G. period 3s	26 8	3	White tower; 20.	
10632 <i>M 4906</i>	Fuka Shima.	32° 42.9' N 131° 55.6' E	Fl.W. period 3s	295 90	12	White round concrete tower; 32.	
10636 <i>M 4907</i>	Maruitibi Ko, breakwater.	32° 47.3' N 131° 52.5' E	F.Fl.G. period 6s	46 14	F. 2 Fl. 5	White round tower, square base; 30.	
10638 <i>M 4907.5</i>	Yakata Sima, breakwater.	32° 46.7' N 131° 54.6' E	Fl.(2)R. period 6s	27 8	6	Red tower; 20.	
10640 <i>M 4905.4</i>	Furue Ko, Miyano Ura, breakwater.	32° 41.7' N 131° 50.1' E	Fl.(2)R. period 8s	39 12	3	Red square concrete tower; 30.	
10644 <i>M 4904.6</i>	-Aso, breakwater.	32° 41.1' N 131° 48.6' E	F.Fl.R. period 3s	39 12	F. 1 Fl. 3	Red tower; 33.	
10648 <i>M 4904</i>	Shimanoura Shima.	32° 39.9' N 131° 49.3' E	Fl.(2)W. period 7s	630 192	13	White tower; 26.	
10650 <i>M 4904.2</i>	Gozyo Se.	32° 39.5' N 131° 48.4' E	Fl.W. period 4s	89 27	5	White tower; 36.	
10652 <i>M 4904.8</i>	-Kitaura Ko, approach.	32° 40.6' N 131° 48.9' E	Fl.W. period 3s	56 17	5	White round concrete tower; 43.	
10656 <i>M 4904.4</i>	-Shimanoura Ko, S. breakwater.	32° 40.1' N 131° 48.4' E	Fl.R. period 3s	30 9	3	Red round concrete tower; 16.	
10660 <i>M 4904.5</i>	--N. breakwater.	32° 40.1' N 131° 48.6' E	Fl.G. period 3s	30 9	3	White tower; 16.	
10668 <i>M 4904.9</i>	--Inner breakwater.	32° 42.1' N 131° 49.3' E	Fl.R. period 4s	43 13	3	Red tower; 26.	
10672 <i>M 4903.7</i>	Urashiro, breakwater, head.	32° 38.6' N 131° 45.9' E	Fl.R. period 4s	39 12	3	Red tower; 30.	
10676 <i>M 4903.6</i>	Minamiura Ko, Yasui, N. breakwater.	32° 36.6' N 131° 45.3' E	Fl.G. period 3s	46 14	5	White tower; 30.	
10680 <i>M 4903</i>	Simake Bae.	32° 35.6' N 131° 46.5' E	Fl.(2)W. period 5s	69 21	5	ISOLATED DANGER BRB, beacon, topmark; 59.	
10684 <i>M 4902</i>	Tomi. on N. side of mouth of Kita Kawa.	32° 35.5' N 131° 43.0' E	Fl.W. period 3s	33 10	5	White tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
10688 <i>M 4900</i>	Nobeoka Shinko, N. breakwater, N. light.	32° 31.6' N 131° 41.9' E	Fl.(2)G. period 6s	59 18	5	White round concrete tower; 36.	
10692 <i>M 4900.94</i>	Nobeoka Sinko, N. breakwater S.	32° 31.5' N 131° 41.6' E	Fl.(2)R. period 6s	46 14	5	Red round concrete tower; 30.	
10696 <i>M 4900.7</i>	-Range No 2, front.	32° 30.8' N 131° 41.3' E	F.R.	49 15	6	White round concrete tower; 16.	
10700 <i>M 4900.8</i>	--Rear, about 60 meters 201° from front.	32° 30.6' N 131° 40.5' E	F.R.	66 20	6	White round concrete tower; 20.	
10704 <i>M 4900.2</i>	-Breakwater.	32° 30.6' N 131° 41.3' E	Fl.R. period 3s	39 12	3	Red metal framework tower; 30.	
10708 <i>M 4898.6</i>	Biro Jima.	32° 27.9' N 131° 43.9' E	Fl.W. period 3s	282 86	5	White concrete column; 36.	
10712 <i>M 4897</i>	Nabe Saki.	32° 28.3' N 131° 41.7' E	Fl.(4)W. period 15s	125 38	7	White tower; 33.	
OZUE WAN:							
10716 <i>M 4898</i>	-Ikui Bae.	32° 27.2' N 131° 41.8' E	Fl.R. period 3s	36 11	5	White tower; 16.	
10720 <i>M 4899.7</i>	--Approach light.	32° 28.3' N 131° 40.5' E	Fl.(2)R. period 6s	52 16	3	Red tower; 36.	
10724 <i>M 4899</i>	-Kadokawa Ko, S. breakwater.	32° 28.2' N 131° 39.7' E	Iso.G. period 4s	36 11	4	White tower; 23.	
10736 <i>M 4896</i>	Hososhima Ko.	32° 25.4' N 131° 41.1' E	Al.FI.W.G. period 10s	331 101	19	White round concrete tower; 36.	Two F.W. lights (horiz.) visible 5 miles show from head and middle of pier.
RAMARK							
10740 <i>M 4898.7</i>	-Breakwater, N. head.	32° 27.3' N 131° 40.4' E	Fl.G. period 4s	56 17	5	White round tower; 36.	
10748 <i>M 4894</i>	Mimitsu Ko, Tatsugami Bae, S. head.	32° 19.4' N 131° 37.4' E	Fl.W. period 4s	75 23	7	White tower; 56.	
10752 <i>M 4893</i>	Tsuno Ko, S. breakwater.	32° 15.1' N 131° 34.5' E	Fl.G. period 3s	39 12	5	White metal framework tower; 30.	
10756 <i>M 4892.6</i>	Kawanami Ko, S. breakwater.	32° 10.1' N 131° 33.3' E	Fl.(2)G. period 6s	56 17	7	White tower; 30.	
10760 <i>M 4890</i>	Tonda.	32° 04.1' N 131° 30.2' E	Fl.W. period 15s	210 64	21	White tower; 30.	Visible 199°-019°.
10762 <i>M 4889.2</i>	Miyazaki, N. breakwater.	31° 55.1' N 131° 28.4' E	Fl.(2)R. period 6s	43 13	5	Red tower; 33.	
10763 <i>M 4889.4</i>	-S. breakwater.	31° 55.3' N 131° 29.1' E	Fl.(2)G. period 6s	52 16	7	White tower; 20.	
10764 <i>M 4889</i>	Miyazaki, AVIATION LIGHT.	31° 52.4' N 131° 26.4' E	Al.FI.W.G. period 4.3s		W. 3 G. 1		
10768 <i>M 4887</i>	Ao Shima.	31° 48.4' N 131° 28.8' E	Fl.W. period 4s	43 13	5	White round concrete tower; 39.	
10772 <i>M 4888</i>	Aoshima Ko, E. breakwater.	31° 47.8' N 131° 28.5' E	F.Fl.(2)G. period 10s	43 13	F. 2 Fl. 5	White round concrete tower; 26.	
UCHIUMI KO:							
10776 <i>M 4886</i>	-Tosaki Hana.	31° 47.1' N 131° 29.2' E	Fl.W. period 8s	299 91	20	White square concrete tower; 30.	Visible 138°-018°.
10780 <i>M 4883</i>	-Breakwater, head.	31° 45.3' N 131° 28.5' E	Fl.(2)G. period 6s	30 9	3	White tower; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
10784 <i>M 4882</i>	-Offing breakwater.	31° 45.1' N 131° 28.6' E	Fl.(2)R. period 6s	46 14	4	Red tower; 30.	
10788 <i>M 4884</i>	-Range, front.	31° 45.5' N 131° 28.2' E	F.Y.	36 11	8	White hexagonal concrete tower, white triangular daymark point up; 33.	
10792 <i>M 4884.1</i>	--Rear, 180 meters 325° from front.	31° 45.1' N 131° 28.4' E	F.Y.	85 26	8	White round concrete tower, white triangular daymark point down; 16.	
10796 <i>M 4880</i>	Kinchaku Jima.	31° 44.3' N 131° 28.4' E	Fl.(3)W. period 13s	164 50	7	White round concrete tower; 36.	
10800 <i>M 4881</i>	Nojima Ko, breakwater, head.	31° 44.1' N 131° 28.1' E	Fl.G. period 3s	39 12	3	White metal framework tower; 26.	
10804 <i>M 4876</i>	Udo Saki.	31° 38.7' N 131° 28.1' E	Fl.(2)W. period 6s	148 45	7	White square concrete tower; 39.	
10808 <i>M 4870</i>	Hadaka Bae.	31° 33.9' N 131° 25.0' E	Fl.W. period 4s	69 21	5	White tower; 46.	
ABURATSU KO:							
10820 <i>M 4870.5</i>	-E. entrance Range, front.	31° 33.6' N 131° 23.8' E	F.G.	124 38	10	White tower; 13.	
10824 <i>M 4870.51</i>	--Rear, 420 meters 263°30' from front.	31° 33.5' N 131° 23.6' E	F.G.	220 67	10	White round concrete tower; 52.	
10828 <i>M 4872</i>	-E. breakwater, W. head.	31° 34.3' N 131° 24.2' E	Fl.R. period 4s	43 13	7	Red tower; 30.	
10832 <i>M 4873</i>	-W. breakwater, head.	31° 34.1' N 131° 24.3' E	Fl.G. period 4s	33 10	4	White tower; 26.	
10836 <i>M 4873.6</i>	-W. inner breakwater, head.	31° 33.7' N 131° 24.1' E	Fl.G. period 5s	39 12	3	White tower; 33.	
10840 <i>M 4874</i>	-Inner breakwater, E. head.	31° 34.7' N 131° 24.3' E	Iso.G. period 4s	32 10	4	White square concrete tower; 26. F.W. 4M shown from head of wharf in inner harbor.	
10844 <i>M 4866.8</i>	Odotsu Ko, detached breakwater.	31° 33.3' N 131° 23.3' E	Fl.R. period 3s	43 13	3	Red round concrete tower; 30.	
10848 <i>M 4867</i>	Odotsu Ko, W. groin.	31° 33.4' N 131° 23.2' E	Fl.G. period 3s	39 12	3	White round concrete tower; 30.	
10856 <i>M 4866.4</i>	Meitsu Ko Oki, detached breakwater, S.	31° 32.4' N 131° 23.8' E	Fl.(2)R. period 6s	36 11	3	Red tower; 16.	
10860 <i>M 4866</i>	Meitsu Ko, S. breakwater.	31° 32.4' N 131° 23.9' E	Fl.(2)G. period 6s	49 15	4	White tower; 30.	
10864 <i>M 4865</i>	Tonoura Ko, breakwater.	31° 30.8' N 131° 22.7' E	F.Fl.G. period 5s	36 11	F. 1 Fl. 3	White round concrete tower; 26.	
10868 <i>M 4864</i>	Kurasaki.	31° 30.9' N 131° 24.9' E	Fl.(2)W. period 20s	305 93	21	White twelve-sided concrete tower; 46.	Visible 187°-142°. F.W. illuminates M. Shima 0.9 mile SSE.
10872 <i>M 4864.4</i>	Hyugano Se.	31° 30.4' N 131° 23.8' E	Mo.(A)G. period 8s	73 22	5	PORT (B) G, beacon, topmark; 63.	
10874 <i>M 4861</i>	Miyanoura, breakwater, head.	31° 23.8' N 131° 20.3' E	Fl.G. period 4s	56 17	7	White tower; 28.	
10876 <i>M 4860</i>	Toi Misaki.	31° 22.0' N 131° 20.7' E	Fl.W. period 15s	837 255	23	White octagonal concrete tower; 49.	Visible 198°-097°. Radiobeacon 1241 meters NW. DGPS Station 1241 meters NW.
10880 <i>M 4860.2</i>	-S.	31° 21.7' N 131° 20.2' E	F.W.	312 95		White round concrete tower; 36.	Illuminates shallow portion of Harajiro Se about 0.46 mile SSW.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
10884 <i>M 4857.5</i>	Fukushima Ko, breakwater, head.	31° 26.7' N 131° 12.3' E	Iso.R. period 6s	46 14	5	Red tower; 30.	
10885 <i>M 4857</i>	-W. breakwater.	31° 26.8' N 131° 11.8' E	Fl.(2)R. period 6s	49 15	4	Red tower; 30.	
10892 <i>M 4858</i>	Bindare Jima.	31° 25.6' N 131° 12.9' E	Fl.W. period 4s	108 33	7	White round concrete tower; 30.	
SHIBUSHI KO:							
10896 <i>M 4842</i>	-Breakwater.	31° 28.4' N 131° 06.5' E	Fl.G. period 5s	36 11	3	White round tower, square base; 30.	
10898 <i>M 4842.6</i>	-Beacon.	31° 26.9' N 131° 05.5' E	Fl.G. period 3s	49 15	8	White tower; 33.	
10899	Kashiwabarū, SE. breakwater.	31° 21.8' N 131° 02.2' E	Fl.(2)R. period 6s	49 15	5	Red concrete structure; 32.	
10899.1 <i>M 4841.5</i>	-Kimotuki Ko.	31° 21.6' N 131° 03.0' E	Mo.(U)W. period 10s	115 35	10		Mo.(U)W. 10s 9M 270 meters W. and 240 meters ESE. Radar reflector.
10900 <i>M 4840</i>	Uchinoura, S. side of Shibushi Wan, E. breakwater, head.	31° 16.8' N 131° 05.0' E	Fl.G. period 3s	49 15	5	White tower; 30.	
10904 <i>M 4839</i>	Hi Saki.	31° 16.9' N 131° 07.9' E	Fl.(2)W. period 6s	207 63	7	White tower; 36.	
10908 <i>M 4837</i>	Odomari Ko, breakwater.	31° 01.4' N 130° 41.2' E	F.Fl.R. period 5s	52 16	F. 2 Fl. 5	Red tower; 28.	
10912 <i>M 4836</i>	Sata Misaki.	30° 59.5' N 130° 39.5' E	Fl.W. period 10s	223 68	21	White octagonal concrete tower; 43.	Visible 242°-150°.
10916 <i>M 4835</i>	Tachime Saki.	31° 04.2' N 130° 39.3' E	Fl.W. period 3s	282 86	7	White round concrete tower; 23.	
10920 <i>M 4834</i>	Izashiki Ko, S. breakwater.	31° 05.8' N 130° 41.5' E	Fl.R. period 3s	56 17	5	Red round concrete tower; 30.	
KAGOSHIMA WAN:							
10924 <i>M 4821.6</i>	-Kanoya AVIATION LIGHT.	31° 22.7' N 130° 50.2' E	Al.Fl.W.G. period 6s		W. 6 G. 3	Metal framework tower.	
10932 <i>M 4822</i>	--N. breakwater.	31° 24.1' N 130° 45.5' E	Fl.G. period 5s	23 7	5	White tower; 16.	
10936 <i>M 4824</i>	-Tarumisu Ko, S. breakwater.	31° 29.7' N 130° 41.7' E	F.Fl.R. period 6s	36 11	F. 2 Fl. 5	Red round concrete tower; 30.	
10937 <i>M 4824.5</i>	-S. harbor, S. breakwater.	31° 29.0' N 130° 41.2' E	Fl.R. period 3s	39 12	4	Red tower; 30.	
-Kagoshima Ko:							
10940 <i>M 4826</i>	--Taniyama, N. breakwater, head.	31° 30.3' N 130° 32.1' E	Fl.R. period 4s	56 17	7	Red tower; 56.	
10944 <i>M 4825.5</i>	--Detached breakwater, S. head.	31° 29.0' N 130° 32.4' E	Fl.R. period 3s	59 18	7	Red round concrete tower; 52.	
10948 <i>M 4826.4</i>	--Mokuzai Ko, S. breakwater.	31° 31.8' N 130° 33.4' E	Fl.(2)G. period 6s	49 15	7	White tower; 36.	
10956 <i>M 4827.4</i>	--Kamoike, breakwater.	31° 33.2' N 130° 33.8' E	Fl.G. period 3s	46 14	7	White concrete column; 30.	
10960 <i>M 4825</i>	--Kan Se.	31° 34.0' N 130° 35.4' E	Fl.W. period 3s	62 19	7	White tower; 49.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
10964 <i>M 4828</i>	--New Harbor, S. breakwater.	31° 34.9' N 130° 34.3' E	Fl.G. period 4s	46 14	7	White round concrete tower; 43.	
10968 <i>M 4828.2</i>	--N. breakwater, head.	31° 35.0' N 130° 34.2' E	Fl.R. period 4s	46 14	7	Red tower; 43.	
10971 <i>M 4828.6</i>	--Outer middle breakwater, S. head.	31° 35.6' N 130° 34.4' E	Fl.(2)R. period 6s	43 13	7	Red tower; 36.	
10972 <i>M 4828.7</i>	---N. head.	31° 35.9' N 130° 34.4' E	Fl.G. period 5s	46 14	7	White tower; 36.	
10973 <i>M 4828.8</i>	--Outer N. breakwater, S. head.	31° 35.9' N 130° 34.4' E	Fl.R. period 5s	43 13	7	Red tower; 36.	
10980 <i>M 4831</i>	--N. breakwater, S. head.	31° 35.9' N 130° 34.1' E	Fl.R. period 3s	46 14	3	Red tower; 31.	
10981 <i>M 4831.7</i>	-Approach.	31° 35.6' N 130° 35.8' E	Fl.(2)R. period 6s	26 8	4	Red tower; 20.	
10992 <i>M 4823.3</i>	-Kiire Ko Oil Terminal, Sea Berth, No 1.	31° 23.9' N 130° 33.1' E	Mo.(U)W. period 8s	98 30	11		Mo.(U)W. 8s 230 meters NNW.
10996 <i>M 4823.2</i>	---No 2.	31° 23.8' N 130° 33.3' E	Mo.(U)W. period 8s	118 36	11		Mo.(U)W. 8s 210 meters NNW.
11000 <i>M 4823.12</i>	---No 3.	31° 23.6' N 130° 33.5' E	Mo.(U)W. period 8s	118 36	11		Mo.(U)W. 8s 270 meters NNW and 270 meters SSE.
11002 <i>M 4823.06</i>	---No 4.	31° 23.3' N 130° 33.7' E	Mo.(U)W. period 8s	138 42	11		Mo.(U)W. 8s 260 meters SSE.
11004 <i>M 4823.02</i>	--No 2.	31° 22.5' N 130° 33.9' E	Mo.(B)Y. period 15s	20 6	5	SPECIAL Y, beacon, "X" topmark; 20.	
11008 <i>M 4823</i>	--No 1.	31° 22.3' N 130° 34.0' E	Mo.(B)Y. period 15s	20 6	5	SPECIAL Y, beacon, "X" topmark; 20.	
11016 <i>M 4823.4</i>	--N. breakwater.	31° 23.6' N 130° 32.4' E	F.R.	22 7	5	Red column; 13.	
11020 <i>M 4823.42</i>	--E. breakwater.	31° 23.7' N 130° 32.5' E	F.G.	22 7	5	White tower; 13.	
11024 <i>M 4820</i>	-Yamakawa Ko on Uno Se.	31° 12.7' N 130° 38.8' E	Fl.R. period 3s	37 11	5	STARBOARD (B) R, tower, topmark; 39.	R. light located on Bando Koro Hana.
11028 <i>M 4820.2</i>	-Bandokoro Hana.	31° 12.6' N 130° 38.2' E	Fl.G. period 3s	39 12	5	White tower; 33.	
11030 <i>M 4820.8</i>	-Ibusuki Ko, breakwater.	31° 14.3' N 130° 39.5' E	Fl.R. period 5s	31 9	4	Red tower; 23.	
11032 <i>M 4821</i>	-Chirin Jima, NE. point of island.	31° 16.6' N 130° 40.9' E	Fl.W. period 4s	331 101	8	White round concrete tower; 36.	
11036 <i>M 4821.2</i>	-O-Nezime Ko, N. breakwater.	31° 15.2' N 130° 47.3' E	Fl.G. period 3s	36 11	5	White tower; 26.	
11040 <i>M 4820.6</i>	-Nezime Ko, N. breakwater.	31° 13.1' N 130° 45.4' E	Fl.(2)G. period 6s	36 11	7	White tower; 26.	
11044 <i>M 4819.5</i>	-Nagasaki Hana.	31° 09.4' N 130° 35.2' E	Fl.(2)W. period 8s	69 21	12	White tower; 33.	
11048 <i>M 4819</i>	Maese Hana.	31° 14.9' N 130° 24.8' E	Fl.W. period 4s	56 17	12	White tower; 30.	
MAKURASAKI KO:							
11056 <i>M 4815.3</i>	-S. breakwater, head.	31° 15.5' N 130° 17.5' E	Fl.(2)R. period 6s	59 18	5	Red tower; 33.	
11060 <i>M 4817</i>	-W. breakwater, head.	31° 15.7' N 130° 17.6' E	Fl.(2)G. period 6s	49 15	5	White tower; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11064 <i>M 4812</i>	Bono Misaki.	31° 15.0' N 130° 13.0' E	Fl.(3)W. period 30s	276 84	21	White octagonal concrete tower; 39.	Visible 274°-157°.
11068 <i>M 5080</i>	Minega Saki.	31° 16.3' N 130° 13.0' E	Iso.W. period 6s	410 125	5	White tower; 26.	
11072 <i>M 5083</i>	Satuma.	31° 25.0' N 130° 06.6' E	Fl.W. period 5s	489 149	11	White round concrete tower; 36.	
11076 <i>M 5082</i>	Bonoura Naga Se.	31° 16.2' N 130° 13.6' E	Mo.(A)R. period 9s	23 7	3	STARBOARD (B) R, tower, topmark; 26.	
11080 <i>M 5084</i>	Kataura Ko, breakwater, head.	31° 25.3' N 130° 11.0' E	Fl.W. period 3s	36 11	7	White tower; 29.	
11081 <i>M 5084.5</i>	Kagosima Ken.	31° 25.1' N 130° 11.1' E	Fl.(2)R. period 6s	23 7	3	Red tower; 13.	
11084 <i>M 4994.7</i>	Torinosu Yama.	31° 47.0' N 129° 48.1' E	Fl.W. period 4s	236 72	13	White tower; 30.	F. light illuminates beacon on Heta-no-Se about 275 meters NE.
11088 <i>M 4994.6</i>	Tsubura Saki.	31° 47.4' N 129° 46.9' E	Fl.(4)W. period 15s	299 91	12	White tower; 33.	F.W. light illuminates beacon 360 meters WSW.
11092 <i>M 4994.4</i>	Imuta Ko, breakwater.	31° 46.8' N 129° 47.9' E	Fl.G. period 6s	52 16	5	White tower; 30.	
11094 <i>M 4994.2</i>	Nagahama Ko, S. breakwater.	31° 42.2' N 129° 44.6' E	Fl.G. period 3s	52 16	5	White tower; 33.	
11096 <i>M 4992</i>	Tsurikake Saki.	31° 37.4' N 129° 41.5' E	Fl.W. period 15s	479 146	23	White round concrete tower; 56.	Visible 271°-115°. Storm signal.
11100 <i>M 4994</i>	Teuchi Ko, breakwater.	31° 37.9' N 129° 43.0' E	Fl.(2)G. period 6s	56 17	7	White tower; 36.	
11104 <i>M 4996</i>	Nakakoshiki, breakwater.	31° 50.0' N 129° 51.7' E	Fl.G. period 4s	33 10	3	White tower; 23.	
11108 <i>M 4995</i>	-Training wall.	31° 49.8' N 129° 50.6' E	Fl.R. period 4s	39 12	7	Red concrete tower, square base; 33.	
11112 <i>M 4994.8</i>	Koshiki, Taira Ko, breakwater, head.	31° 48.3' N 129° 50.5' E	Fl.(2)G. period 6s	36 11	5	White round concrete tower; 20.	
KUSHIKINO KO:							
11116 <i>M 5090</i>	-S. breakwater, N. head.	31° 42.6' N 130° 15.1' E	Fl.R. period 3s	59 18	5	Red tower; 30.	
11120 <i>M 5088</i>	-N. breakwater, S. head.	31° 42.7' N 130° 15.3' E	Fl.G. period 3s	49 15	3	White tower; 30.	
11124 <i>M 5087</i>	-Naga Saki.	31° 42.5' N 130° 15.5' E	F.W.	49 15		White tower; 23.	Illuminates rock 700 meters S.
11126 <i>M 5087.5</i>	-Detached breakwater.	31° 43.0' N 130° 14.9' E	Fl.(2)G. period 6s	52 16	5	White tower; 36.	
11128 <i>M 5091</i>	Satsuma.	31° 44.4' N 130° 10.8' E	Fl.W. period 4s	282 86	12	White tower; 30.	
11132 <i>M 5094.6</i>	Sendai River entrance, breakwater, head.	31° 50.0' N 130° 10.8' E	Fl.G. period 4s	46 14	4	White round concrete tower; 30.	
11136 <i>M 5094</i>	Sendai Ko, S. breakwater.	31° 51.3' N 130° 11.0' E	Fl.(2)R. period 6s	59 18	5	Red tower; 39.	
11138 <i>M 5094.3</i>	-Outer breakwater.	31° 51.5' N 130° 10.7' E	Fl.(2)G. period 6s	56 17	5	White round concrete tower; 36.	
11140 <i>M 5094.28</i>	-W. breakwater, S. head.	31° 51.4' N 130° 11.2' E	Fl.G. period 3s	46 14	3	White round concrete tower; 33.	
11146 <i>M 5094.25</i>	--N. head.	31° 52.2' N 130° 11.6' E	Fl.R. period 4s	30 9	3	Red tower; 13.	

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JAPAN-KYUSHU							
11148 <i>M 5093</i>	Naka Se. RACON	31° 51.2' N 130° 03.0' E	Fl.(2)W. period 5s OE(- - - •)	62 19	7	ISOLATED DANGER BRB, beacon, topmark; 56.	(3cm).
11152 <i>M 4996.4</i>	Satomura.	31° 50.2' N 129° 55.8' E	Oc.W. period 5s lt. 3s, ec. 2s	177 54	12	White round concrete tower; 33.	
11156 <i>M 5092</i>	Ite Saki.	31° 52.1' N 129° 56.3' E	Fl.W. period 3s	272 83	5	White round concrete tower; 36.	
11158	Sato Ko, outer breakwater.	31° 50.7' N 129° 55.5' E	Fl.G. period 3s	27 8	5	White tower; 16.	
11160 <i>M 4997</i>	Nawase Hana.	31° 52.8' N 129° 50.2' E	Fl.W. period 5s	574 175	12	White round concrete tower; 33.	
11164 <i>M 5095</i>	Akune Ko.	32° 00.7' N 130° 10.7' E	Fl.(2)W. period 10s	141 43	12	White round concrete tower, square base; 33.	F.W. auxiliary light illuminated obstruction 300 meters away.
11168 <i>M 5096</i>	Akune Ko, W. breakwater, head.	32° 01.2' N 130° 11.4' E	Fl.R. period 3s	39 12	3	Red round concrete tower; 26.	
11169.1 <i>M 5098</i>	-Center breakwater.	32° 01.6' N 130° 11.0' E	Fl.(2)G. period 6s	52 16	4	White tower; 26.	
11172 <i>M 5100</i>	Kobira Se.	32° 04.9' N 130° 10.3' E	Fl.(3)W. period 13s	66 20	12	White round concrete tower; 30.	F.W. light shows over Hira Se.
11176 <i>M 5101</i>	Kuronohama Ko, S. breakwater.	32° 05.5' N 130° 10.4' E	Fl.(2)R. period 6s	46 14	3	Red tower; 33.	
11180 <i>M 5100.2</i>	Satuma No Se.	32° 05.1' N 130° 10.0' E	Mo.(A)G. period 8s	43 13	3	PORT (B) G, tower, topmark; 36.	
11184 <i>M 5102</i>	Nagasaki Hana.	32° 07.5' N 130° 06.7' E	Fl.W. period 10s	89 27	15	White tower; 49.	Visible 326°-162°.
11188 <i>M 5103</i>	Sasue Ko, S. breakwater.	32° 09.4' N 130° 06.8' E	Fl.R. period 3s	32 10	3	Red tower; 16.	
11192 <i>M 5106</i>	To Shima.	32° 11.9' N 130° 04.9' E	Fl.W. period 3s	158 48	7	White round stone tower; 20.	Visible 162°-032°.
11196 <i>M 5130</i>	Miyanoura Ko, breakwater.	32° 12.0' N 130° 11.5' E	Fl.G. period 4s	26 8	3	White tower; 16.	
11200	Komenotsu Ko, N. breakwater, head.	32° 07.6' N 130° 20.7' E	Fl.(2)G. period 6s	43 13	3	White tower; 30.	
11204 <i>M 5133</i>	-Detached breakwater, NE. head.	32° 08.1' N 130° 20.2' E	Fl.R. period 3s	26 8	5	Red round concrete tower, 16.	
11208 <i>M 5131</i>	Nago Ko, breakwater.	32° 07.5' N 130° 19.7' E	Fl.(2)G. period 6s	39 12	3	White round concrete tower; 30.	
11212 <i>M 5134</i>	Minamata Ko, Koji Shima, W. extremity.	32° 11.8' N 130° 21.7' E	Fl.W. period 3s	105 32	7	White tower; 36.	
11224 <i>M 5136.4</i>	Marushima Ko, E. breakwater.	32° 13.0' N 130° 23.0' E	Fl.R. period 3s	30 9	3	Red tower; 16.	
11228 <i>M 5136.7</i>	Tunagi Wan.	32° 14.4' N 130° 25.9' E	Fl.G. period 3s	39 12	3	White tower; 30.	
11234 <i>M 5137.46</i>	Sasiki Ko, breakwater.	32° 16.4' N 130° 26.8' E	Fl.R. period 5s	26 8	3	Red tower; 16.	
11236 <i>M 5137.4</i>	Egushi Ko, breakwater.	32° 16.9' N 130° 26.8' E	Fl.R. period 6s	36 11	3	Red tower; 30.	
11240 <i>M 5137.47</i>	Higo Okino Shima.	32° 18.0' N 130° 26.8' E	Fl.W. period 3s	79 24	5	White tower; 26.	
11242 <i>M 5137.48</i>	Sasiki Ko, N. breakwater, S. head.	32° 18.0' N 130° 28.2' E	Fl.G. period 3s	33 10	3	White tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11244 <i>M 5137.5</i>	Ganno Shiri.	32° 18.3' N 130° 18.1' E	Fl.W. period 4s	151 46	7	White round concrete tower, red bands; 36.	
11248 <i>M 5137.8</i>	Hongo Ko, breakwater, head.	32° 20.5' N 130° 20.1' E	Fl.G. period 3s	33 10	3	White tower; 16.	
11256 <i>M 5137.6</i>	Arakuchi Ko, No 4 breakwater.	32° 20.9' N 130° 21.6' E	Fl.R. period 6s	39 12	3	Red tower; 30.	
11260 <i>M 5138.5</i>	Daido Ko, E. breakwater.	32° 22.9' N 130° 21.2' E	Fl.R. period 3s	39 12	3	Red tower; 30.	
11264 <i>M 5138.6</i>	Yoitigaura Ko, breakwater.	32° 22.2' N 130° 21.1' E	Fl.G. period 3s	43 13	3	White tower; 33.	
11268 <i>M 5138.8</i>	Karajiro Hana.	32° 22.6' N 130° 21.3' E	Fl.W. period 3s	105 32	7	White tower; 33.	
11269 <i>M 5138.9</i>	Matu ga Hana.	32° 22.9' N 130° 22.8' E	F.W.	49 15		White tower; 36.	Spotlight illuminates beacon on shoal 180 meters S.
11270 <i>M 5138.85</i>	Ike-no-Ura.	32° 23.3' N 130° 22.1' E	Fl.R. period 4s	30 9	5	Red tower; 20.	
11274 <i>M 5155.1</i>	-W. breakwater, head.	32° 23.8' N 130° 18.4' E	Fl.R. period 5s	30 9	4	Red tower; 20.	
11276 <i>M 5139</i>	Hino Shima.	32° 23.1' N 130° 24.6' E	Fl.(2)R. period 6s	33 10	5	Red round concrete tower; 33.	
11276.5 <i>M 5139.5</i>	-Breakwater.	32° 23.8' N 130° 24.5' E	Fl.(2)G. period 6s	39 12	5	White tower; 30.	
11278 <i>M 5139.2</i>	Tomari Yama.	32° 22.7' N 130° 25.1' E	Fl.G. period 4s	29 9	3	White tower; 16.	
11279 <i>M 5138.95</i>	Roya Ka Wachi Ko.	32° 23.5' N 130° 23.4' E	Fl.G. period 3s	30 9	3	White tower; 20.	
11284 <i>M 5140.2</i>	Hino Shima, NW.	32° 23.9' N 130° 24.2' E	Fl.R. period 3s	30 9	3	Red tower; 16.	
11288 <i>M 5140.4</i>	Uryu Saki.	32° 26.0' N 130° 25.4' E	Fl.W. period 4s	121 37	7	White tower; 39.	
11292 <i>M 5140.5</i>	Himedo Ko, breakwater.	32° 26.3' N 130° 24.8' E	Fl.G. period 3s	36 11	3	White tower; 30.	
11294 <i>M 5140.55</i>	-Breakwater.	32° 27.0' N 130° 25.3' E	Fl.G. period 4s	30 9	3	White tower; 20.	
11296 <i>M 5140.6</i>	Yatusiro Ko, W. breakwater.	32° 28.2' N 130° 26.3' E	Fl.G. period 3s	46 14	3	White tower; 30.	
11300 <i>M 5140.8</i>	Usi Se.	32° 28.4' N 130° 26.4' E	Fl.(2)W. period 5s	40 12	3	ISOLATED DANGER BRB, beacon, topmark; 30.	
11304 <i>M 5142.4</i>	Yatsushiro Ko, breakwater.	32° 31.4' N 130° 32.0' E	Fl.(2)R. period 8s	43 13	4	Red tower; 30.	
11308 <i>M 5142</i>	-Groin.	32° 32.8' N 130° 33.1' E	Fl.G. period 3s	43 13	5	White tower; 30.	
11312 <i>M 5141</i>	Shimo-Utano Hana.	32° 31.8' N 130° 27.6' E	Fl.(2)W. period 6s	148 45	10	White round concrete tower; 66.	F.W. spotlight illuminates Sobei sei.
11316 <i>M 5141.2</i>	Amura, breakwater, head.	32° 32.0' N 130° 27.0' E	F.Fl.R. period 5s	39 12	F. 6 Fl. 11	Red tower; 28.	
11320 <i>M 5141.6</i>	Aizu Ko, Naga Se.	32° 31.5' N 130° 25.9' E	Mo.(A)R. period 9s	30 9	3	STARBOARD (B) R, tower, topmark; 20.	
11322 <i>M 5143.7</i>	Oniki Wan.	32° 14.3' N 130° 00.6' E	Iso.R. period 4s	29 9	4	Red tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
USHIBUKA KO:							
11324 M 5120	-Ushibuka Moqushi.	32° 13.0' N 130° 00.8' E	F.W.	400 122	13	Wooden mast; 30.	Visible 045°-135°.
11328 M 5110.2	-Detached breakwater, S. head.	32° 11.6' N 130° 01.9' E	Fl.R. period 3s	43 13	5	Red tower; 33.	
11340 M 5143.6	-Ushibuka.	32° 11.0' N 129° 58.1' E	Fl.W. period 5s	230 70	12	White tower; 36.	
11344 M 5118	-Ushibuka Ko, breakwater.	32° 10.9' N 130° 01.0' E	Fl.R. period 3s	49 15	3	Red tower; 33.	
11346 M 5107.5	-E. breakwater.	32° 12.1' N 130° 02.1' E	Fl.G. period 4s	33 10	5	White tower; 16.	
11352 M 5117	-Suguchi Ura approach.	32° 11.1' N 130° 00.4' E	Fl.(2)R. period 6s	49 15	5	Red tower; 33.	
11354 M 5119	--Outer breakwater.	32° 11.0' N 130° 00.3' E	Fl.(2)G. period 6s	49 15	5	White tower; 33.	
11356	-Nagateno.	32° 11.5' N 130° 01.2' E	Fl.(2)W. period 7s	279 85	12	White tower; 36.	
11360 M 5109	-Itimonoji, breakwater.	32° 11.5' N 130° 01.9' E	Fl.G. period 3s	36 11	5	White tower; 30.	
11361 M 5106.5	Katagawa, breakwater.	32° 10.8' N 130° 02.1' E	Iso.G. period 4s	28 8	4	White tower; 16.	
11363 M 5106.2	Yamanoura Ko, breakwater.	32° 13.5' N 130° 04.5' E	Iso.R. period 4s	26 8	4	Red tower; 20.	
11369 M 5126.5	Hukami Ko.	32° 15.2' N 130° 05.9' E	Fl.R. period 3s	27 8	3	Red tower; 20.	
11372 M 5129.1	Kajiki Saki.	32° 16.9' N 130° 08.7' E	Fl.W. period 3s	66 20	5	White tower; 33.	
11376 M 5129.15	Kamihira Ko, breakwater.	32° 17.1' N 130° 08.0' E	Fl.G. period 3s	39 12	3	White tower; 30.	
11380 M 5129.25	Miyana Kawachi.	32° 18.3' N 130° 08.5' E	Fl.R. period 3s	36 11	3	Red tower; 30.	
11384 M 5128	Kaminata Jima, in Hachiman Seto.	32° 15.8' N 130° 09.3' E	Fl.(2)W.R. period 5s	66 20	5	White round stone tower; 23.	R. 226°-232°, W.-226°.
11388 M 5129.6	Hegusi Ko, S. breakwater.	32° 15.6' N 130° 13.6' E	Fl.R. period 4s	30 9	4	Red tower; 20.	
11389 M 5129.7	Mehuki Seto, Hyotan Sima.	32° 14.6' N 130° 12.8' E	Fl.R. period 3s	31 9	4	STARBOARD (B) R, tower, topmark; 23.	
11390 M 5129.8	Kuzuwa Ko, breakwater.	32° 15.4' N 130° 11.2' E	Iso.G. period 6s	29 9	4	White tower; 23.	
11392 M 5129	Mate Shima.	32° 16.6' N 130° 11.4' E	Fl.W. period 4s	79 24	7	White round concrete tower; 30.	
11394 M 5129.05	Katasoba Ko.	32° 16.6' N 130° 12.8' E	Fl.R. period 5s	28 8	4	Red tower; 20.	
11396 M 5129.3	Naga Se.	32° 18.8' N 130° 10.1' E	Mo.(A)R. period 8s	33 10	5	STARBOARD (B) R, tower, topmark; 30.	
11400 M 5129.2	Nakata Ko, breakwater.	32° 20.0' N 130° 09.5' E	Fl.G. period 5s	39 12	3	White square metal framework tower; 30.	
11404 M 5129.4	Otao Ko, No 1 breakwater.	32° 21.4' N 130° 12.8' E	Fl.G. period 3s	39 12	7	White tower; 30.	
11410 M 5138	Yubunehara Wan.	32° 24.2' N 130° 15.7' E	Fl.G. period 3s	30 9	3	White tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11412 <i>M 5138.4</i>	Sumoto Ko, No 1 breakwater.	32° 24.6' N 130° 16.4' E	Iso.G. period 4s	36 11	3	White round concrete tower, square base; 26.	
11416 <i>M 5143.8</i>	Sakitsu Ura.	32° 18.5' N 130° 01.6' E	Iso.W. period 6s	79 24	5	White tower; 30.	
11424 <i>M 5144</i>	Oye Ko.	32° 19.1' N 129° 59.3' E	Iso.W. period 6s	272 83	12	White square concrete tower; 23.	Visible 013°-140°. F.W. floodlight illuminates Shimabare Se to the SSW.
11426 <i>M 5144.45</i>	-Oe ko, SE. breakwater, head.	32° 19.0' N 129° 59.5' E	Fl.G. period 3s	52 16	3	White tower; 16.	
11432 <i>M 5144.6</i>	Higo Takahama.	32° 22.7' N 129° 59.3' E	Fl.(2)R. period 6s	46 14	4	Red tower; 20.	
11436 <i>M 5144.5</i>	Takahama.	32° 23.0' N 129° 59.3' E	Fl.W. period 4s	213 65	7	White tower; 30.	
11438 <i>M 5154</i>	Yoko Sima Island.	32° 22.8' N 130° 14.1' E	Fl.W. period 3s	112 34	7	White round concrete tower; 36.	
11440 <i>M 5145</i>	Higo Shimoda Ko, breakwater.	32° 25.5' N 130° 00.2' E	F.Fl.R. period 6s	52 16	F. 2 Fl. 5	Red round concrete tower; 33.	
11440.5 <i>M 5146.27</i>	Tororo.	32° 28.6' N 130° 02.0' E	Dir.W.R.G.	33 10	W. 7 R. 4 G. 4	White tower; 15.	F.G. 175°-178°30', F.W.- 181°30', F.R.-185°. Reserve light range 2-1M.
11441 <i>M 5146.253</i>	Reihoku.	32° 29.5' N 130° 02.1' E	Mo.(B)Y. period 8s	30 9	6	SPECIAL Y, tower, "X" topmark; 30.	
11443 <i>M 5146.28</i>	Tosikara, breakwater.	32° 29.2' N 130° 01.9' E	Fl.(2)R. period 6s	59 18	9	Red tower; 39.	
11443.1 <i>M 5146.26</i>	-Inner breakwater.	32° 29.0' N 130° 02.0' E	Fl.(2)G. period 6s	43 13	7	White tower; 30.	
11443.5 <i>M 5146.25</i>	Huka Se.	32° 29.7' N 130° 02.0' E	Mo.(A)G. period 8s	30 9	6	PORT (B) G, tower, topmark; 30.	
11444 <i>M 5146.4</i>	Tomioka, Gyoka, S. breakwater.	32° 30.9' N 130° 02.0' E	Fl.R. period 3s	39 12	4	Red square metal framework tower; 16.	
11448 <i>M 5146</i>	Sikizakimuaki.	32° 31.8' N 130° 00.8' E	Fl.W. period 4s	184 56	12	White round concrete tower; 26.	
11452 <i>M 5147</i>	Nanatsu Se.	32° 32.8' N 130° 06.3' E	Mo.(A)G. period 8s	39 12	3	PORT (B) G, tower, topmark; 33.	
11456 <i>M 5147.4</i>	Kogame Iwa.	32° 33.7' N 130° 06.5' E	Mo.(D)R. period 8s	49 15	3	STARBOARD (B) R, tower, topmark; 39.	
11460 <i>M 5148</i>	Gotsu Sho.	32° 34.4' N 130° 06.7' E	Q.W.	46 14	5	N. CARDINAL BY, tower, topmark; 39.	
11468 <i>M 5149.4</i>	Futae Ko, No 2 breakwater.	32° 32.8' N 130° 08.0' E	Fl.G. period 5s	46 14	4	White round concrete tower, square base; 30.	
11472 <i>M 5150</i>	Oniike Ko, breakwater, head.	32° 33.0' N 130° 11.5' E	Fl.(2)R. period 6s	32 10	4	Red tower; 20.	
11476 <i>M 5150.4</i>	Gorio Ko, breakwater.	32° 31.0' N 130° 11.8' E	F.Fl.(2)R. period 10s	32 10	F. 3 Fl. 7	Red round concrete tower; 26.	
11480 <i>M 5150.6</i>	Saitsu Ko, breakwater.	32° 29.6' N 130° 11.8' E	Fl.R. period 3s	39 12	3	Red round concrete tower; 26.	
11484 <i>M 5151</i>	Hondo Ko, groin, head.	32° 27.6' N 130° 12.6' E	Fl.R. period 4s	39 12	4	Red round concrete tower; 33.	
11488 <i>M 5152</i>	Hondo Ko.	32° 27.4' N 130° 12.3' E	Mo.(A)G. period 8s	33 10	5	PORT (B) G, tower, topmark; 36.	
11492 <i>M 5154.4</i>	Shimakou Ko, No 1 breakwater.	32° 28.5' N 130° 15.1' E	Iso.G. period 4s	43 13	3	White tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11494 <i>M 5152.5</i>	-Hondo Seto.	32° 26.7' N 130° 12.3' E	Fl.(2)R. period 6s	33 10	3	STARBOARD (B) R, tower, topmark; 23.	
11496 <i>M 5153</i>	Goshiki Shima.	32° 25.1' N 130° 13.0' E	Fl.G. period 3s	28 9	3	PORT (B) G, beacon, topmark; 23.	
11500 <i>M 5150.8</i>	Kami-Tizuka Sima.	32° 25.5' N 130° 13.1' E	Fl.(2)R. period 6s	40 12	3	STARBOARD (B) R, tower, topmark; 26.	
11504 <i>M 5154.6</i>	Kamituura Ko, N. breakwater.	32° 29.6' N 130° 17.5' E	Fl.G. period 3s	46 14	3	White tower; 30.	
11508 <i>M 5154.8</i>	Oura Ko, breakwater.	32° 31.2' N 130° 22.5' E	Iso.R. period 4s	42 13	4	Red tower; 30.	
11512 <i>M 5141.3</i>	Kaiba Ko, breakwater.	32° 33.0' N 130° 27.0' E	Fl.G. period 5s	43 13	3	White tower; 33.	
11516 <i>M 5141.4</i>	Satuma Se.	32° 32.8' N 130° 27.3' E	Fl.(2)W. period 5s	33 10	3	ISOLATED DANGER BRB, tower, topmark; 26.	
11520 <i>M 5141.5</i>	Yanagi Ko, breakwater, head.	32° 32.9' N 130° 26.5' E	Fl.G. period 4s	39 12	3	White tower; 30.	
11524 <i>M 5183</i>	Sukawa Ko, E. breakwater.	32° 39.0' N 130° 17.5' E	Fl.(2)R. period 6s	36 11	3	Red tower; 30.	
11528 <i>M 5156</i>	Yu Shima.	32° 36.3' N 130° 19.9' E	Fl.W. period 3s	128 39	11	White tower; 39.	Visible 336°-243°.
11532 <i>M 5157</i>	Yu Sima Ko, breakwater.	32° 35.9' N 130° 20.0' E	Fl.R. period 3s	30 9	4	Red tower; 20.	
11536 <i>M 5154.7</i>	Akasaki, E. breakwater, head.	32° 31.1' N 130° 19.2' E	Iso.G. period 4s	36 11	3	White tower; 26.	
11540 <i>M 5158</i>	Ebito Ko, breakwater.	32° 34.8' N 130° 24.9' E	Fl.(2)G. period 8s	39 12	3	White tower; 30.	
11542 <i>M 5159</i>	Hatonokama Ko.	32° 34.8' N 130° 24.2' E	Fl.R. period 3s	25 8	3	Red tower; 16.	
11544 <i>M 5160</i>	Misumi.	32° 37.5' N 130° 26.6' E	Fl.(2)W. period 7s	131 40	12	White tower; 23.	Visible 109°-316°.
11548 <i>M 5162</i>	Misumi Ko, Ninai Shima.	32° 36.5' N 130° 27.5' E	Fl.(2)W. period 6s	39 12	3	White tower; 30.	
11552 <i>M 5164</i>	Tera Shima.	32° 35.7' N 130° 28.5' E	Fl.W.R. period 3s	33 10	3	White round stone tower; 36.	R. 106°-139°, W.-356°.
11556 <i>M 5143</i>	Tobaseshima.	32° 34.6' N 130° 29.3' E	Fl.W. period 4s	108 33	7	White round stone tower; 26.	Visible 297°-154°.
11560 <i>M 5165</i>	Higo, Kabuto Shima.	32° 34.5' N 130° 27.5' E	Fl.W. period 3s	39 12	3	White round concrete tower; 26.	
11564 <i>M 5143.2</i>	-Mihune.	32° 37.1' N 130° 32.8' E	Mo.(A)R. period 8s	39 12	5	STARBOARD (B) R, tower, topmark; 33.	
SHIMABARA KAIWAN:							
11568 <i>M 5179.8</i>	-Shimabara, about 3.5 kilometers N. of city.	32° 48.8' N 130° 22.0' E	Fl.G. period 4s	46 14	5	White round concrete tower; 30.	
11572 <i>M 5180</i>	-Simabara.	32° 46.8' N 130° 22.9' E	Fl.W. period 4s	62 19	5	White square metal framework tower; 43.	
11576 <i>M 5182</i>	-Moso Se.	32° 45.8' N 130° 22.7' E	Mo.(A)R. period 8s	33 10	5	STARBOARD (B) R, beacon, topmark; 36.	
11580 <i>M 5181</i>	-Breakwater.	32° 45.9' N 130° 22.5' E	Fl.(2)R. period 6s	39 12	5	Red round concrete tower, square base; 26.	
11584 <i>M 5182.5</i>	-Hukae Ko.	32° 42.8' N 130° 21.1' E	Fl.R. period 3s	33 10	3	Red tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11588 M 5167	-Oda Ko, E. training wall.	32° 40.1' N 130° 32.1' E	Fl.G. period 3s	39 12	3	White metal framework tower; 33.	
11592 M 5168	Sumiyoshi.	32° 42.5' N 130° 35.4' E	Fl.(2)W. period 6s	131 40	7	White tower; 56.	
11596 M 5170	Hyakkan Ko.	32° 48.0' N 130° 36.2' E	Fl.W. period 3s	46 14	7	White tower; 26.	
11600 M 5171	-Higo, Sioyo, S. breakwater.	32° 49.0' N 130° 35.3' E	Fl.(2)R. period 8s	43 13	5	Red metal framework tower; 26.	
11604 M 5172	-Kawati.	32° 49.7' N 130° 34.8' E	Fl.W. period 4s	85 26	7	White tower; 33.	
11608 M 5172.4	-Kawati Ko, N. breakwater.	32° 49.9' N 130° 34.8' E	Fl.G. period 3s	30 9	3	White tower; 16.	
11609 M 5179.75	Suge Hana.	32° 51.1' N 130° 20.6' E	Fl.R. period 3s	32 10	3	Red tower; 16.	
11610 M 5179.7	-Hamasuge.	32° 51.8' N 130° 19.9' E	Fl.(2)R. period 6s	36 11	4	White tower; 20.	
11612 M 5172.7	-Taishokai Ko, No 1 breakwater.	32° 53.3' N 130° 30.5' E	Fl.R. period 3s	33 10	3	Red tower; 20.	
11616 M 5173.2	-Nagasu Ko.	32° 55.4' N 130° 26.3' E	Iso.G. period 6s	42 13	5	White tower; 26.	
11620 M 5179.6	-Kunimi Tahira Ko, breakwater.	32° 52.6' N 130° 18.7' E	F.Fl.R. period 5s	46 14	F. 2 Fl. 5	Red tower; 26.	
11622 M 5179.65	-Breakwater.	32° 52.7' N 130° 18.4' E	Fl.R. period 4s	36 11	5	Red tower; 18.	
11624 M 5179.2	-Konagai Ko, breakwater, head.	32° 55.6' N 130° 11.6' E	Fl.G. period 3s	43 13	5	White tower; 30.	
11628 M 5174	-Miike Ko, about 20 meters 223° from Yotsu Yana summit.	33° 00.1' N 130° 25.6' E	Fl.W. period 5s	213 65	12	White tower; 49.	
11632 M 5174.4	--Offing Light.	32° 59.5' N 130° 21.0' E	Fl.(2)W. period 5s	36 11	5	ISOLATED DANGER BRB, beacon, topmark; 36.	
11636 M 5175	--N. groin.	33° 00.3' N 130° 23.5' E	Fl.G. period 3s	49 15	5	White tower; 33.	
11640 M 5175.3	-Omuta Ko.	33° 02.1' N 130° 25.2' E	Fl.G. period 4s	43 13	4	White round concrete tower; 30.	
11644 M 5179	Yato Hana.	32° 57.5' N 130° 13.5' E	Fl.W. period 3s	125 38	10	White tower; 30.	
11648 M 5179.04	Takazakiko, W. breakwater, head.	32° 57.2' N 130° 13.2' E	Fl.G. period 3s	33 10	5	White round metal column; 20.	
11652 M 5179.1	Michikoshi Ko, S. breakwater, head.	32° 57.6' N 130° 13.5' E	F.Fl.(2)G. period 6s	33 10	F. 1 Fl. 3	White round concrete tower; 16.	
11654 M 5178.6	-N. breakwater, head.	32° 58.3' N 130° 13.5' E	Fl.R. period 5s	28 9	3	Red tower; 16.	
11656 M 5178.5	-Kame Se.	32° 59.2' N 130° 12.8' E	Fl.(2)W. period 5s	33 10	5	ISOLATED DANGER BRB, tower, topmark; 30.	
11660 M 5177	-Okikami Se.	33° 03.8' N 130° 13.5' E	Fl.(2)W. period 5s	43 13	5	ISOLATED DANGER BRB, tower, topmark; 33.	
11664 M 5177.2	-Hizen-Ka Sima.	33° 04.8' N 130° 12.1' E	Mo.(A)G. period 8s	39 12	3	PORT (B) G, beacon, topmark; 39.	
11668 M 5177.4	-Suminoe Ko Range, front.	33° 09.2' N 130° 13.4' E	Fl.W. period 3s	33 10	8	White metal column; 33.	
11672 M 5177.41	--Rear, 350 meters 331°24' from front.	33° 09.4' N 130° 13.3' E	Fl.W. period 3s	49 15	8	White metal column; 56.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11676 <i>M 5177.5</i>	--No 1.	33° 11.0' N 130° 14.1' E	Fl.(2)G. period 6s	27	8	5 PORT (B) G, beacon, topmark; 36.	
11680 <i>M 5177.6</i>	--No 2.	33° 11.2' N 130° 14.2' E	Fl.(2)R. period 6s	33	10	5 STARBOARD (B) R, beacon, topmark; 30.	
11684 <i>M 5177.8</i>	--No 4.	33° 11.9' N 130° 13.3' E	Fl.R. period 3s	39	12	5 STARBOARD (B) R, column, topmark; 39.	
11688 <i>M 5176.5</i>	-Okinohasi.	33° 08.2' N 130° 21.7' E	Mo.(D)R. period 8s	49	15	3 STARBOARD (B) R, tower, topmark; 49.	FW., FR. and FG. mark bridge 3.5 miles upstream.
11692 <i>M 5176.7</i>	-Hayatue Kawaguti.	33° 08.0' N 130° 18.7' E	Mo.(C)R. period 10s	33	10	3 STARBOARD (B) R, beacon, topmark.	
11696 <i>M 5176.8</i>	-W.	33° 08.6' N 130° 19.6' E	Oc.W. period 4s	43	13	12 White tower; 33.	
11698 <i>M 5177.22</i>	Suminoe Ko, approach.	33° 09.1' N 130° 17.1' E	Mo.(U)W. period 8s	22	7	3	
11699 <i>M 5177.24</i>	-W.	33° 09.1' N 130° 16.9' E	Mo.(U)W. period 8s	22	7	3	
11700 <i>M 5176.85</i>	-Hiroe Ko.	33° 10.0' N 130° 16.6' E	Iso.R. period 4s	42	13	5 Red tower; 23.	
11704 <i>M 5175.8</i>	-Tikugo Hiyakuken.	33° 04.4' N 130° 22.0' E	Mo.(B)R. period 8s	52	16	3 STARBOARD (B) R, tower, topmark; 46.	
11705 <i>M 5175.5</i>	Yabe Kawa.	33° 05.0' N 130° 24.7' E	Fl.R. period 3s	43	13	4 Red tower; 20.	
11706 <i>M 5175.85</i>	Yamoto.	33° 05.7' N 130° 23.3' E	Iso.W. period 6s	43	13	7 White tower; 20.	
11708 <i>M 5175.9</i>	--Offing.	33° 06.1' N 130° 21.4' E	Mo.(A)R. period 8s	33	10	3 STARBOARD (B) R, tower, topmark; 36.	
11709 <i>M 5182.8</i>	-Simabara Wan.	32° 39.9' N 130° 20.1' E	Fl.G. period 3s	33	10	5 White tower; 20.	
11709.2 <i>M 5182.2</i>	-Hotsu Ko, breakwater.	32° 41.3' N 130° 21.6' E	Fl.(2)R. period 6s	46	14	3 Red tower; 26.	
11709.8 <i>M 5183.2</i>	-Breakwater.	32° 39.0' N 130° 17.3' E	Fl.R. period 3s	26	8	4 Red tower; 20.	
11710 <i>M 5183.5</i>	-Hurusiro.	32° 37.5' N 130° 14.9' E	Fl.G. period 4s	30	9	3 White tower; 20.	
11712 <i>M 5184</i>	-Okino Se.	32° 36.7' N 130° 14.2' E	Fl.(2)W. period 5s	46	14	5 ISOLATED DANGER BRB, tower, topmark; 39.	
11716 <i>M 5186</i>	Kuchinotsu Ko.	32° 36.1' N 130° 11.8' E	Fl.(2)W. period 7s	132	40	12 White tower; 23.	Visible 178°-066°.
11716.1 <i>M 5187.2</i>	-Breakwater, head.	32° 36.2' N 130° 12.2' E	Fl.R. period 3s	32	10	4 Red tower; 20.	
11728 <i>M 5187.3</i>	Setsume Saki.	32° 35.4' N 130° 10.0' E	Iso.W. period 6s	42	13	5 White tower; 36.	
11729 <i>M 5187.55</i>	Simabara.	32° 41.3' N 130° 07.6' E	Fl.W. period 3s	49	15	8 White tower; 39.	
11730 <i>M 5187.5</i>	Kyodomari Ko, W. breakwater.	32° 41.0' N 130° 08.0' E	Fl.R. period 3s	23	7	3 Red tower; 16.	
11732 <i>M 5187.4</i>	-E. basin, W. breakwater.	32° 40.9' N 130° 08.5' E	Iso.R. period 4s	39	12	4 Red tower; 26.	
11736 <i>M 5187.6</i>	Syamisen Sima.	32° 45.7' N 130° 03.0' E	Mo.(A)G. period 8s	49	15	5 PORT (B) G, tower, topmark, 49.	
11740 <i>M 5188</i>	Wakimisaki Ko, N. breakwater.	32° 34.8' N 129° 47.1' E	F.Fl.R. period 5s	43	13	F. 4 Red tower; 33. Fl. 8	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11744 <i>M 5188.3</i>	-S. breakwater, N.	32° 34.8' N 129° 47.2' E	Fl.G. period 3s	46 14	5	White round concrete tower; 30.	
11748 <i>M 5189</i>	--S.	32° 34.4' N 129° 47.0' E	Fl.R. period 3s	46 14	3	Red tower; 30.	
11749 <i>M 5191.4</i>	Kabasima Ko.	32° 34.2' N 129° 47.2' E	Fl.G. period 3s	43 13	3	White tower; 30.	
11750 <i>M 5189.51</i>	-Bridge.	32° 34.1' N 129° 47.1' E	F.W.	66 20	7		Marks center of span. F.G. 6M close W. F.R. 5M close E.
11752 <i>M 5187.64</i>	Mogi Ko, E. breakwater, head.	32° 42.3' N 129° 55.0' E	F.Fl.G. period 3s	42 13	F. 3 Fl. 7	White concrete column, square base; 26.	
11754 <i>M 5187.67</i>	-Outer breakwater, N. head.	32° 42.0' N 129° 55.2' E	Fl.(2)G. period 6s	46 14	7	White tower; 30.	
11756 <i>M 5191</i>	-Outer breakwater.	32° 34.2' N 129° 46.8' E	F.Fl.(2)R. period 10s	36 11	F. 3 Fl. 7	Red round concrete tower, square base; 26.	
11760 <i>M 5190</i>	Kaba Shima.	32° 33.1' N 129° 46.6' E	Fl.W. period 20s	407 124	23	White round concrete tower; 49.	Visible 213°-167°, partially obscured by land when bearing 125°-167°.
11764 <i>M 5192</i>	Otagami.	32° 34.0' N 129° 44.4' E	Fl.W. period 3s	88 27	5	White round concrete tower; 20.	
11768 <i>M 5193</i>	Nomokita Ura.	32° 35.5' N 129° 45.1' E	Iso.W. period 6s	134 41	5	White round concrete tower; 33.	F.W. illuminates rock 100 meters N.
11772 <i>M 5193.2</i>	Nomo Ko.	32° 35.4' N 129° 45.4' E	F.Fl.G. period 6s	36 11	F. 3 Fl. 7	White round concrete tower; 36.	
11776 <i>M 5193.3</i>	Nomo Ko.	32° 35.4' N 129° 45.3' E	Fl.R. period 3s	36 11	3	Red round concrete tower; 30.	
11780 <i>M 5193.4</i>	Mitu Se.	32° 36.9' N 129° 42.3' E	Fl.W. period 5s	85 26	5	White round concrete tower; 26.	
11784 <i>M 5193.42</i>	Hizen Ha Sima.	32° 37.6' N 129° 44.3' E	Fl.W. period 3s	164 50	7	White tower; 33.	
11786 <i>M 5193.5</i>	Hizen Takasima Ko.	32° 39.5' N 129° 45.6' E	Fl.(2)G. period 6s	33 10	3	White tower; 23.	Radar reflector.
11788 <i>M 5193.6</i>	Hizen Kuro Se.	32° 41.1' N 129° 46.8' E	Fl.W. period 3s	49 15	8	White tower; 43.	
NAGASAKI KO:							
11792 <i>M 5194</i>	-Ito Shima.	32° 42.9' N 129° 45.7' E	Fl.(4)W. period 30s	210 64	20	White square concrete tower; 36.	Visible 030°-275°.
11796 <i>M 5195</i>	-Hira Se.	32° 42.7' N 129° 46.9' E	Fl.(2)W. period 5s	52 16	7	ISOLATED DANGER BRB, tower, topmark; 46.	
11798 <i>M 5193.95</i>	-Breakwater.	32° 42.2' N 129° 46.9' E	Fl.R. period 3s	30 9	4	Red tower; 20.	
11804 <i>M 5193.8</i>	-Onaka Seto, N.	32° 41.7' N 129° 47.5' E	Fl.R. period 3s	46 14	5	Red tower; 26.	
11808 <i>M 5195.5</i>	-Nagasaki Ko.	32° 42.9' N 129° 48.6' E	Iso.G. period 4s	49 15	5	White round concrete tower; 33.	
11812 <i>M 5198.8</i>	-Koe Oki.	32° 45.2' N 129° 48.4' E	Fl.G. period 4s	46 14	7	White round concrete tower; 36.	
11816 <i>M 5197</i>	-Mitsubishi Zosen Kagenoo wharf.	32° 42.5' N 129° 49.8' E	Fl.(2)R. period 6s	46 14	7	Red round metal tower; 36.	Private light.
11820 <i>M 5198.4</i>	-Asahi-mati, breakwater.	32° 44.7' N 129° 51.9' E	Iso.G. period 4s	39 12	5	White tower; 30.	2 F.W. 5M, 2 F.G. 4M and 2 F.R. 3M mark bridge 750 meters N.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11826 M 5200	Hisen Hira Se.	32° 47.1' N 129° 45.2' E	Fl.(2)W. period 5s	62 19	8	ISOLATED DANGER BRB, tower, topmark; 59.	
11828 M 5199	Shikimi Ko, breakwater.	32° 47.2' N 129° 47.3' E	Fl.R. period 3s	49 15	5	Red round concrete tower; 16.	
11832 M 5203	Mie Ura, E. breakwater.	32° 49.2' N 129° 44.9' E	Fl.R. period 4s	36 11	3	Red round concrete tower; 26.	
11833 M 5202.5	Nagasaki Gyoko, range, front.	32° 49.5' N 129° 45.5' E	F.Y.	220 67	13	White triangular tower; 43.	
11833.1 M 5202.51	-Rear, 012°24' from front.	32° 49.5' N 129° 45.5' E	F.Y.	266 81	13	White triangular tower; 33.	
11834 M 5202	-Detached breakwater, W. head.	32° 48.8' N 129° 45.4' E	Fl.R. period 3s	52 16	4	Red tower; 30.	
11835 M 5202.3	--E. head.	32° 48.5' N 129° 46.1' E	Fl.G. period 3s	56 17	5	White tower; 26.	
11836 M 5201	No Se.	32° 48.2' N 129° 43.8' E	Mo.(A)G. period 8s	62 19	5	PORT (B) G, tower, topmark; 52.	
11840 M 5207	O-Hiki Sima, O Se.	32° 52.7' N 129° 32.6' E	Fl.W. period 4s	52 16	5	White round concrete tower; 39.	
11844 M 5209	Nezumi Se.	32° 56.5' N 129° 37.7' E	Q.(6)+L.Fl.W. period 15s	49 15	5	S. CARDINAL YB, tower, topmark; 36.	
11848 M 5208.4	Seto Ko, N. breakwater, S.	32° 56.4' N 129° 38.1' E	Fl.(2)G. period 6s	39 12	3	White tower; 26.	
11852 M 5208	-Breakwater, head.	32° 55.9' N 129° 38.0' E	Fl.(2)R. period 6s	46 14	5	Red tower; 33.	
11856 M 5207.6	Kashira Shima.	32° 54.8' N 129° 38.3' E	Fl.W. period 3s	62 19	5	White tower; 49.	
11859 M 5209.2	Matusima Ko.	32° 56.4' N 129° 37.0' E	Fl.R. period 3s	29 9	4	Red tower; 20.	
11859.5 M 5209.3	Matsushima Channel, shoal.	32° 56.7' N 129° 37.2' E	Q.W.	36 11	3	N. CARDINAL BY, beacon, topmark; 26.	
11860 M 5209.5	Matsu Shima, breakwater, head.	32° 57.0' N 129° 36.2' E	F.Fl.R. period 4s	43 13	F. 5 Fl. 8	Red round concrete tower; 26.	
11868 M 5233	Ta Shima.	33° 00.0' N 129° 49.0' E	Fl.W. period 3s	102 31	8	White round concrete tower; 36.	
11870 M 5213	Tsushima Suido Bridge.	33° 02.2' N 129° 38.5' E	F.W.	118 36	6		F.R. 36m 4M and F.G. 36m 4M mark either side of navigable channel.
11872 M 5210	Kabuto Shima.	33° 00.8' N 129° 37.8' E	Fl.W. period 3s	78 24	5	White tower; 26.	
11900 M 5211	Mitoko Shima.	33° 00.6' N 129° 32.2' E	Iso.W. period 6s	157 48	5	White round concrete tower; 36.	Auxiliary light F.W. illuminates white beacon on reef 250 meters W.
11904 M 5225	Eno Shima.	33° 00.1' N 129° 21.2' E	Fl.G. period 3s	62 19	5	White tower; 30.	
11906 M 5224.5	Yoko Sone.	32° 57.6' N 129° 20.7' E	Q.(6)+L.Fl.W. period 15s	75 23	5	S. CARDINAL YB, tower, topmark; 75.	Radar reflector.
11908 M 5226	Huku Se, on rock.	33° 04.6' N 129° 26.7' E	Fl.(2)W. period 5s	72 22	5	ISOLATED DANGER BRB, tower, topmark; 79.	
11912 M 5230	Shira Se, islet at entrance to Sasebo Wan.	33° 05.6' N 129° 37.6' E	Fl.W.R. period 4s	59 18	8	White round concrete tower; 23.	R. 266°-086°, covering the dangers Kanise and Nakano Se, W.-266°.
11916 M 5232.4	Hario Seto.	33° 03.6' N 129° 45.1' E	Fl.W. period 3s	52 16	3	White tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11920 <i>M 5232</i>	Kogo Zaki.	33° 06.1' N 129° 40.0' E	Fl.W. period 6s	210 64	21	White tower; 49.	Traffic signals.
SASEBO KO:							
11921 <i>M 5236.7</i>	-Fairway, No 2.	33° 06.2' N 129° 41.7' E	Fl.R. period 3s	26 8	4	STARBOARD (B) R, beacon, topmark.	Radar reflector.
11922 <i>M 5236.8</i>	--No 3.	33° 06.7' N 129° 42.7' E	Fl.(2)G. period 6s	23 7	4	PORT (B) G, beacon, topmark.	Radar reflector.
11923 <i>M 5236.9</i>	--No 4.	33° 06.4' N 129° 42.9' E	Fl.(2)R. period 6s	23 7	4	STARBOARD (B) R, beacon, topmark.	Radar reflector.
11924 <i>M 5236.5</i>	-Hanare Shoal.	33° 05.6' N 129° 43.1' E	Q.(9)W. period 15s	33 10	4	W. CARDINAL YBY, beacon, topmark; 33.	
11928 <i>M 5236</i>	-Benten Shima.	33° 08.7' N 129° 42.9' E	Fl.W. period 3s	62 19	5	White metal framework tower; 26.	
11956 <i>M 5240.48</i>	Hiszen Ohira Se.	33° 10.4' N 129° 36.6' E	Q.W.	46 14	3	N. CARDINAL BY, tower, topmark; 49.	
11956.5 <i>M 5240.6</i>	Ainoura Ko, breakwater.	33° 11.6' N 129° 37.3' E	Fl.R. period 3s	23 7	3	Red tower; 16.	
11956.7 <i>M 5240.65</i>	-S. breakwater.	33° 10.9' N 129° 38.5' E	Fl.(2)R. period 6s	39 12	4	Red tower; 26.	
11957 <i>M 5240.44</i>	Usunoura Ko, N. breakwater.	33° 10.3' N 129° 35.6' E	Fl.R. period 3s	23 7	2	Red tower; 16.	
11958 <i>M 5240.7</i>	Kujukushima Wan, breakwater.	33° 10.0' N 129° 38.5' E	F.Fl.G. period 3s	31 9	F. 2 Fl. 5	White tower; 18.	
11960 <i>M 5240.4</i>	Ushigakubi, on SW. extremity of Hashira Iwa.	33° 09.7' N 129° 34.9' E	Iso.W. period 8s	39 12	5	White round concrete tower; 36.	
11964 <i>M 5240.43</i>	Taka Shima.	33° 10.2' N 129° 35.4' E	Fl.R. period 3s	29 9	3	Red tower; 20.	
11968 <i>M 5242.2</i>	Kuro Shima Ko.	33° 08.8' N 129° 31.7' E	Fl.R. period 3s	25 8	4	Red round concrete tower, square base; 20.	
11972 <i>M 5241</i>	Simo-Kareki Shima.	33° 12.2' N 129° 30.2' E	Fl.W. period 3s	121 37	5	White square concrete tower; 52.	
11976 <i>M 5240.46</i>	Usunoura Ko Kusudomari, E. breakwater.	33° 12.8' N 129° 34.9' E	Fl.R. period 3s	36 11	3	Red round concrete column; 26.	
11980 <i>M 5242.1</i>	Tsuyoshi Ko, E. breakwater.	33° 12.6' N 129° 27.4' E	Fl.G. period 3s	52 16	3	White tower; 33.	
11984 <i>M 5240</i>	Ogami Sima.	33° 10.7' N 129° 20.0' E	Fl.W. period 4s	250 76	12	White round concrete tower; 39.	
11988 <i>M 5239.8</i>	Miyanoura Ko, W. breakwater, head.	33° 11.4' N 129° 21.2' E	Fl.G. period 3s	31 9	3	White tower; 16.	
11992 <i>M 5239.7</i>	Shishiki Wan.	33° 11.8' N 129° 24.1' E	Fl.G. period 3s	43 13	3	White tower; 30.	
11994 <i>M 5239.6</i>	Hayahuku Ko.	33° 13.8' N 129° 22.9' E	Fl.R. period 3s	33 10	3	Red tower; 16.	
11994.5 <i>M 5239.65</i>	Hirado Hayahuku Se.	33° 13.6' N 129° 23.0' E	F.W.	75 23		White tower; 36.	Illuminates reefs 370 meters NW.
12000 <i>M 5239.12</i>	-S. breakwater.	33° 21.4' N 129° 26.2' E	Fl.(2)G. period 6s	30 9	4	White tower; 20.	
12002 <i>M 5239.05</i>	Ikutuki Sima, breakwater.	33° 21.5' N 129° 26.2' E	Fl.(2)R. period 6s	39 12	4	Red tower; 26.	
12004 <i>M 5238</i>	Shiomi Saki.	33° 21.3' N 129° 26.1' E	F.W.	43 13		White tower; 39.	F.W., F.R., and F.G. lights mark bridge close SW.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
12008 <i>M 5239.2</i>	Ichibiura Ko, N. breakwater.	33° 23.6' N 129° 26.3' E	F.F.I.R. period 5s	46 14	F. 3 Fl. 7	Red round concrete tower; 30.	
12010 <i>M 5239.15</i>	-S. breakwater.	33° 23.3' N 129° 26.2' E	Fl.R. period 3s	36 11	4	Red tower; 20.	
12012 <i>M 5239.5</i>	Obae Hana.	33° 26.4' N 129° 25.8' E	Iso.W. period 6s	330 101	12	White tower; 36.	
F.W.							
12014 <i>M 5239.55</i>	Nagase Hana.	33° 21.7' N 129° 24.0' E	Fl.W. period 3s	358 109	7	White tower; 28.	
12015 <i>M 5239.56</i>	Shishi Ko.	33° 18.4' N 129° 26.1' E	Fl.G. period 3s	49 15	4	White tower; 33.	
12016 <i>M 5242.6</i>	Kawachi Wan, breakwater.	33° 19.5' N 129° 31.2' E	Fl.R. period 3s	39 12	5	Red round concrete tower; 26.	
12020 <i>M 5242.4</i>	Aosa Zaki.	33° 19.9' N 129° 33.7' E	Fl.W. period 4s	33 10	10	White round concrete tower, square base; 26.	
12024 <i>M 5245</i>	Tabira Ko, S. Breakwater.	33° 21.8' N 129° 34.4' E	F.F.I.R. period 3s	43 13	F. 2 Fl. 5	Red round concrete tower; 30.	
12032 <i>M 5244</i>	Ko-Dasuke Se.	33° 21.8' N 129° 34.1' E	Mo.(B)R. period 8s	28 9	3	STARBOARD (B) R, column, topmark; 30.	
12034 <i>M 5245.5</i>	Haeno Saki.	33° 22.2' N 129° 34.1' E	Fl.(2)W. period 6s	28 9	5	White structure; 23.	
12036 <i>M 5246</i>	Hirado Ko.	33° 22.3' N 129° 33.5' E	Fl.G. period 3s	30 9	7	White round concrete tower; 23.	
12038 <i>M 5247</i>	Hirado Seto.	33° 22.6' N 129° 34.1' E	Al.F.I.W.G. period 6s	24 7	5	White tower; 15.	
12040 <i>M 5250.6</i>	Usuka Wan Ko, breakwater, head.	33° 22.6' N 129° 32.3' E	F.F.I.R. period 5s	36 11	F. 3 Fl. 7	Red concrete column; 26.	
12044 <i>M 5248.2</i>	Hiro Se.	33° 22.9' N 129° 34.1' E	Fl.(2)W. period 6s	46 14	5	White round concrete tower; 22.	
12048 <i>M 5248</i>	-Training Wall.	33° 22.8' N 129° 34.1' E	Fl.W. period 3s	42 13	7	White round concrete tower, black bands; 36.	
12052 <i>M 5250</i>	Tasuke Ko, outer breakwater, head.	33° 23.4' N 129° 33.8' E	Iso.R. period 4s	43 13	4	Red tower; 26.	
12054 <i>M 5250.7</i>	Kameo Se.	33° 26.5' N 129° 33.1' E	Q.(3)W. period 10s	21 6	3	E. CARDINAL BYB, beacon, topmark; 23.	
12056 <i>M 5250.8</i>	Sakise Hana.	33° 26.3' N 129° 32.8' E	Fl.(2)W. period 6s	46 14	3	White tower; 36.	
12060 <i>M 5250.9</i>	Taku Sima, breakwater, head.	33° 25.8' N 129° 30.9' E	Fl.R. period 3s	30 9	4	Red round concrete tower; 20.	
12064 <i>M 5250.4</i>	Yoko Shima.	33° 25.3' N 129° 32.1' E	Fl.W. period 4s	66 20	5	White round concrete tower; 39.	
O SHIMA:							
12068 <i>M 5253</i>	-Magari Bana.	33° 28.3' N 129° 31.3' E	Fl.W. period 4s	39 12	11	White tower; 30.	
12070 <i>M 5253.2</i>	-Azutiosima Ko.	33° 28.9' N 129° 31.6' E	Iso.R. period 8s	32 10	4	Red tower, 18.	
12072 <i>M 5252</i>	-Oshima Ko, Kannoura, breakwater.	33° 28.5' N 129° 33.4' E	Fl.R. period 3s	43 13	3	Red round concrete tower; 26.	
12075 <i>M 5251.5</i>	-Onezaka Ko.	33° 29.7' N 129° 33.3' E	Fl.R. period 3s	29 9	3	Red tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
12076 M 5251	-Nagasaki Bana.	33° 30.6' N 129° 33.4' E	Fl.W. period 4s	82 25	5	White round concrete tower; 33.	
12080 M 5253.4	--Umano Kashira Zaki.	33° 28.4' N 129° 29.9' E	Fl.W. period 5s	151 46	3	White tower; 30.	
12084 M 5254	Tsu Saki.	33° 23.9' N 129° 40.4' E	Fl.W. period 4s	160 49	5	White tower; 39.	
12088 M 5254.95	Tukinokawa Ko, breakwater.	33° 21.5' N 129° 43.6' E	Fl.R. period 3s	39 12	5	Red round concrete tower; 26.	
12090 M 5254.97	Imabuku Ko, breakwater, head.	33° 21.4' N 129° 45.9' E	Fl.(2)R. period 6s	23 7	3		
12092 M 5254.5	Uokono Shima.	33° 25.4' N 129° 42.6' E	Fl.(2)W. period 6s	226 69	5	White round concrete tower; 39.	
12098 M 5254.7	Takeko Sima.	33° 27.3' N 129° 45.1' E	Fl.G. period 4s	30 9	5	White tower; 20.	
12100 M 5254.8	Kai Se.	33° 27.7' N 129° 44.6' E	Fl.W. period 3s	49 15	5	White tower; 39.	
12104 M 5254.86	Oteisi Hana.	33° 24.9' N 129° 45.5' E	Fl.W. period 4s	29 9	5	White tower; 20.	
12108 M 5255	Kanai Hana.	33° 22.3' N 129° 47.4' E	Fl.W. period 3s	36 11	7	White tower; 30.	
12112 M 5255.22	Kugi Shima, breakwater.	33° 19.0' N 129° 50.2' E	Fl.G. period 3s	39 12	5	White round concrete tower; 30.	
12116 M 5255.24	Imari Ko.	33° 21.6' N 129° 49.4' E	Fl.W. period 3s	36 11	5	White tower; 26.	
12118 M 5255.05	-Outer Harbor, Sea Berth A.	33° 21.1' N 129° 48.4' E	Mo.(U)W. period 10s	82 25	5		Auxiliary light F.W. 3M 180 meters NNW.
12118.1 M 5255.06	--Sea Berth B.	33° 21.0' N 129° 48.5' E	Mo.(U)W. period 10s	28 8	5		Auxiliary light F.W. 3M 78 meters NW.
12118.2 M 5255.07	--Sea Berth C.	33° 20.9' N 129° 48.6' E	Mo.(U)W. period 10s	28 8	5		Auxiliary light F.W. 3M 70 meters ESE.
12120 M 5255.23	-Hatu Saki.	33° 24.9' N 129° 47.8' E	Fl.W. period 3s	39 12	3	White tower; 30.	
12124 M 5255.1	Imari Ko Uranosaki, breakwater.	33° 20.4' N 129° 47.6' E	Iso.R. period 4s	39 12	4	Red round concrete tower; 30.	
12136 M 5255.3	Hatatsuura Ko, W. breakwater.	33° 22.6' N 129° 51.9' E	Iso.R. period 4s	39 12	4	Red round concrete tower; 30.	
12144 M 5255.4	Takakushi Ko Hontei, breakwater.	33° 25.3' N 129° 49.4' E	Fl.G. period 3s	26 8	3	White round concrete tower; 20.	
12148 M 5255.7	-W. breakwater.	33° 25.3' N 129° 49.3' E	Fl.R. period 3s	43 13	5	Red tower; 33.	
12152 M 5255.5	-Takakushi Ko, S. breakwater.	33° 25.3' N 129° 49.4' E	Fl.R. period 3s	39 12	3	Red tower; 33.	
12154 M 5255.35	Imari Hira Se.	33° 24.0' N 129° 51.0' E	Fl.R. period 4s	26 8	5	STARBOARD (B) R, tower, topmark; 20.	
12156 M 5254.9	Miya Zaki.	33° 27.1' N 129° 47.0' E	Fl.W. period 4s	36 11	3	White tower; 26.	
12157 M 5254.91	-Ake Se.	33° 28.6' N 129° 46.9' E	Fl.(2)W. period 5s	46 14	5	ISOLATED DANGER BRB, beacon, topmark; 16.	
12160 M 5256	Muku Sima.	33° 29.3' N 129° 46.5' E	Fl.W. period 3s	263 80	7	White tower; 39.	
12168 M 5257	Hizen Madara Shima.	33° 33.8' N 129° 45.8' E	Iso.W. period 6s	98 30	5	White tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
12172 <i>M 5257.1</i>	-Ko, S. breakwater, head.	33° 33.9' N 129° 45.9' E	Iso.G. period 4s	42 13	4	White tower; 30.	
12176 <i>M 5257.4</i>	Chika Saki.	33° 31.1' N 129° 49.7' E	Iso.W. period 10s	85 26	5	White round concrete tower; 30.	
12180 <i>M 5268</i>	Hado Saki.	33° 33.3' N 129° 50.8' E	Fl.W. period 5s	69 21	12	Round concrete tower; 43.	
12184 <i>M 5265.6</i>	Kakara Shima, breakwater.	33° 35.2' N 129° 51.6' E	Iso.G. period 4s	31 9	4	White round concrete structure; 20.	
12188 <i>M 5265.65</i>	-Kakara Shima.	33° 35.4' N 129° 51.8' E	F.W.	197 60		White square structure; 20.	Illuminates beacon on Hutame Se 650 meters SE. from light.
12192 <i>M 5265.4</i>	Ogawashima Ko, W. breakwater.	33° 35.6' N 129° 53.9' E	Fl.G. period 3s	36 11	3	White round concrete tower; 26.	
12193.5 <i>M 5266.45</i>	Entrance breakwater, E. side.	33° 33.0' N 129° 52.0' E	Fl.R. period 3s	43 13	4	Red tower; 30.	
12194 <i>M 5266.5</i>	Yobuko Ko, Ko Sima, breakwater.	33° 32.8' N 129° 52.1' E	Fl.G. period 3s	30 9	5	Green tower; 23.	
12196 <i>M 5267</i>	-Nagoya, breakwater.	33° 32.3' N 129° 52.7' E	F.Fl.R. period 5s	36 11	F. 1 Fl. 3	Red tower; 26.	
12204 <i>M 5266.4</i>	-E. side, S. breakwater, head.	33° 33.1' N 129° 53.7' E	F.Fl.G. period 3s	33 10	F. 2 Fl. 5	White round concrete tower, square base; 26.	
12208 <i>M 5266.3</i>	--Detached breakwater, E. head.	33° 33.2' N 129° 53.7' E	Fl.R. period 3s	33 10	4	Red tower; 26.	
12212 <i>M 5266.35</i>	--N. breakwater.	33° 33.3' N 129° 53.6' E	Iso.R. period 4s	36 11	4	Red round concrete tower, square base; 30.	
12216 <i>M 5265.8</i>	Hizen Tateishi Saki.	33° 34.0' N 129° 52.9' E	Iso.W. period 6s	102 31	5	White tower; 33.	
12220 <i>M 5265</i>	Hira Se.	33° 34.9' N 129° 54.6' E	Iso.W. period 10s	36 11	5	White round concrete tower; 26.	
12224 <i>M 5266.2</i>	Usu Shima.	33° 33.9' N 129° 53.8' E	Fl.W. period 3s	36 11	5	White tower; 23.	
12226 <i>M 5266.25</i>	Kabe Shima.	33° 33.4' N 129° 53.5' E	Fl.R. period 4s	33 10	3	Red tower; 16.	
12228 <i>M 5266</i>	Taka Shima.	33° 33.6' N 129° 54.2' E	Fl.(3)W. period 13s	180 55	10	White round concrete tower; 36.	
12232 <i>M 5269.02</i>	Kashiwa Jima, Ko Miya Saki	33° 32.3' N 129° 57.9' E	Iso.W. period 6s	42 13	4	White tower; 39.	
12236 <i>M 5269.04</i>	-Breakwater.	33° 32.2' N 129° 58.0' E	Iso.R. period 6s	36 11	4	Red tower; 27.	
12240 <i>M 5269</i>	Mese Hana.	33° 31.7' N 129° 57.4' E	Fl.W. period 3s	118 36	3	White tower; 26.	
12244 <i>M 5269.06</i>	Minatohama Ko.	33° 31.5' N 129° 57.5' E	F.Fl.R. period 5s	43 13	F. 1 Fl. 3	Red round concrete tower, square base; 26.	
12248 <i>M 5269.24</i>	Karatsu Ko, breakwater, W. head.	33° 29.3' N 129° 57.4' E	Fl.(2)G. period 6s	36 11	5	White tower; 30.	
12252 <i>M 5269.22</i>	-E. head.	33° 29.1' N 129° 57.6' E	Fl.R. period 7s	36 11	3	Red tower; 30.	
12254 <i>M 5269.3</i>	-W. harbor, breakwater, head.	33° 28.8' N 129° 57.4' E	Fl.G. period 3s	27 8	3	White tower; 23.	
12256 <i>M 5269.2</i>	Karatsu.	33° 29.0' N 129° 57.8' E	Iso.W. period 6s	180 55	5	White tower; 23.	
12260 <i>M 5269.5</i>	Tobo Ko, No 2 breakwater.	33° 28.9' N 129° 56.4' E	Fl.R. period 6s	32 10	3	Red round concrete tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
12262 <i>M 5269.55</i>	-E. breakwater.	33° 28.9' N 129° 56.6' E	Iso.R. period 4s	31 9	4	Red tower; 20.	
12264 <i>M 5269.7</i>	-E. Harbor, W. breakwater.	33° 28.2' N 129° 58.4' E	Fl.(2)R. period 8s	36 11	5	Red round concrete tower; 31.	
12268 <i>M 5269.62</i>	--E. breakwater.	33° 28.1' N 129° 58.5' E	Fl.(2)G. period 8s	36 11	5	White round concrete tower, square base; 31.	
12276 <i>M 5262</i>	Eboshi Jima.	33° 41.4' N 129° 59.0' E	Fl.W. period 6s	184 56	12	White round concrete tower; 52.	
12280 <i>M 5269.8</i>	Iso Saki, breakwater.	33° 30.5' N 130° 05.3' E	Fl.(2)R. period 6s	43 13	5	Red tower; 30.	
12283 <i>M 5269.95</i>	Hime Shima, breakwater, head.	33° 34.0' N 130° 03.2' E	Fl.R. period 3s	30 9	3	Red tower; 16.	
12284 <i>M 5269.96</i>	Tikuzen No Se.	33° 34.1' N 130° 05.3' E	Mo.(A)G. period 8s	49 15	3	PORT (B) G, tower, topmark; 46.	
12286 <i>M 5270.15</i>	Keya Ko.	33° 35.3' N 130° 06.4' E	Iso.G. period 6s	30 9	4	White tower; 20.	
12288 <i>M 5269.94</i>	Kishi Ko, breakwater, head.	33° 34.3' N 130° 07.2' E	Fl.G. period 3s	36 11	7	White round concrete tower, square base; 30.	
12292 <i>M 5269.92</i>	Tikuzen Hunakosi Ko, W. breakwater.	33° 33.3' N 130° 07.6' E	Fl.(2)G. period 6s	39 12	5	White round concrete tower; 30.	
12296 <i>M 5269.9</i>	Kamuri Ko, W. breakwater.	33° 33.0' N 130° 09.5' E	Fl.(2)R. period 6s	36 11	5	Red round concrete tower; 30.	
12300 <i>M 5270.2</i>	Nogita Ko, W. breakwater.	33° 36.8' N 130° 09.6' E	Fl.(2)G. period 8s	36 11	7	White round concrete tower; 30.	
12304 <i>M 5270</i>	Today Se.	33° 39.4' N 130° 07.3' E	Fl.(2)W. period 5s	43 13	5	ISOLATED DANGER BRB, beacon, topmark; 39.	
12308 <i>M 5270.4</i>	Nagama Syo.	33° 42.1' N 130° 09.0' E	Q.W.	43 13	5	N. CARDINAL BY, tower, topmark; 36.	
12312 <i>M 5270.3</i>	Nishinoura, breakwater, head.	33° 39.1' N 130° 12.3' E	Fl.G. period 3s	53 16	3	White round concrete tower; 30.	
12316 <i>M 5271</i>	Nishima Misaki.	33° 40.0' N 130° 12.6' E	Fl.W. period 6s	249 76	12	White round concrete tower, square base; 30.	
12320 <i>M 5272</i>	Genkai Jima.	33° 41.5' N 130° 14.1' E	Fl.W. period 15s	259 79	19	White round concrete tower; 36.	Visible 121°-318°.
12324 <i>M 5272.4</i>	-Breakwater.	33° 40.9' N 130° 14.3' E	Fl.(2)R. period 7s	46 14	5	Red tower; 36.	
12328 <i>M 5270.6</i>	Kurinokami Sho.	33° 48.1' N 130° 15.9' E	Fl.(2)W. period 5s	56 17	5	ISOLATED DANGER BRB, tower, topmark; 49.	
12332 <i>M 5284.4</i>	Aino Shima.	33° 45.7' N 130° 21.6' E	Iso.W. period 6s	285 87	5	White tower; 33.	
12336 <i>M 5284</i>	Tikuzen Aino Shima Ko, S. breakwater, head.	33° 45.4' N 130° 22.0' E	Fl.G. period 3s	36 11	3	White tower; 30.	
12338 <i>M 5274.5</i>	Hiro Ko.	33° 40.1' N 130° 17.4' E	Fl.G. period 3s	31 9	3	White tower; 16.	
12340 <i>M 5273</i>	Karatomari Ko, No 1 breakwater.	33° 38.4' N 130° 13.9' E	Fl.R. period 3s	33 10	5	Red round tower; 20.	
12344 <i>M 5276</i>	Nokono Shima.	33° 38.3' N 130° 18.2' E	Iso.W. period 6s	102 31	12	White square concrete tower; 39.	
12346 <i>M 5275.2</i>	Shike Shima Ko, breakwater.	33° 39.5' N 130° 18.7' E	Fl.R. period 3s	27 8	4	Red tower; 20.	
12348 <i>M 5275</i>	-W. breakwater.	33° 39.6' N 130° 18.8' E	Iso.G. period 6s	36 11	5	White round concrete tower, square base; 26.	

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JAPAN-KYUSHU							
12352 <i>M 5275.4</i>	Sika Shima, N. breakwater.	33° 39.9' N 130° 19.1' E	Fl.R. period 3s	33 10	5	Red round concrete tower, square base; 20.	Breakwater extends NW. to shore.
12356 <i>M 5279</i>	Ha Shima.	33° 38.6' N 130° 20.2' E	Fl.W. period 3s	36 11	5	White tower; 30.	
HAKATA KO:							
12360 <i>M 5282</i>	-W. detached breakwater, N. head.	33° 37.1' N 130° 22.9' E	Fl.R. period 3s	56 17	7	Red tower; 62. Floodlit.	Several lights shown from piers in the harbor.
12364 <i>M 5282.2</i>	-W. breakwater.	33° 36.0' N 130° 23.0' E	Fl.G. period 4s	27 8	9	White square concrete tower; 26.	
12368 <i>M 5282.4</i>	-S. breakwater.	33° 36.4' N 130° 22.7' E	F.Fl.R. period 4s	36 11	F. 6 Fl. 10	Red tower; 30.	
12382 <i>M 5282.52</i>	-Aratu Ohasi.	33° 36.0' N 130° 23.0' E	Iso.W. period 4s	135 41	8		Marks center of span.
12384 <i>M 5282.53</i>	--E. side.	33° 36.0' N 130° 23.1' E	Iso.G. period 4s	135 41	6		
12388 <i>M 5282.51</i>	--W. side.	33° 36.0' N 130° 23.0' E	Iso.R. period 4s	132 40	6		
12390 <i>M 5283</i>	Nata Ko.	33° 41.8' N 130° 24.2' E	Fl.G. period 3s	36 11	3	White tower; 16.	
12392 <i>M 5288</i>	O Shima.	33° 54.6' N 130° 24.5' E	Fl.(2)W. period 20s	167 51	19	White square concrete tower; 36.	Visible 033°-249°.
12396 <i>M 5289</i>	-E. breakwater.	33° 53.8' N 130° 26.3' E	Fl.R. period 3s	36 11	3	Red round concrete tower, square concrete base; 26.	
12400 <i>M 5289.2</i>	-S. breakwater.	33° 53.7' N 130° 26.2' E	Iso.R. period 6s	23 7	5	Red tower; 20.	
12404 <i>M 5289.8</i>	Kurara Se.	33° 55.2' N 130° 28.6' E	Fl.W. period 3s	92 28	5	White tower; 30.	
12408 <i>M 5291</i>	Kanesaki Ko.	33° 52.9' N 130° 31.6' E	Fl.(2)G. period 6s	40 12	7	White tower; 30.	
12412 <i>M 5290</i>	Ku Zaki, breakwater, head.	33° 51.3' N 130° 29.1' E	Fl.R. period 4s	36 11	7	Red round concrete tower, square base; 26.	
12416 <i>M 5285</i>	Tsuyazaki Hana.	33° 47.2' N 130° 26.9' E	Fl.W. period 4s			White round concrete tower; 30.	F.W. light illuminates reef 600 meters S.
12420 <i>M 5286</i>	-Breakwater.	33° 47.1' N 130° 27.4' E	Fl.R. period 3s	39 12	5	Red tower; 30.	
12424 <i>M 5291.4</i>	Hatsu Saki, breakwater, head.	33° 53.2' N 130° 34.1' E	Fl.R. period 3s	46 14	5	Red tower; 30.	

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12428 <i>M 5291.5</i>	Ashiya, AVIATION LIGHT.	33° 53.0' N 130° 39.9' E	Al.Fl.W.G. period 5s	203 62	W. 8 G. 6	Metal framework tower.	
12430 <i>M 5291.55</i>	-Outer breakwater, W. head.	33° 53.9' N 130° 38.9' E	Fl.G. period 3s	43 13	6	Green tower; 33.	
12432 <i>M 5291.6</i>	Kashiwaru Ko, W. breakwater.	33° 54.6' N 130° 39.6' E	Fl.(2).R. period 6s	39 12	3	Red tower; 30.	
12436 <i>M 5292</i>	Myoken Saki.	33° 56.2' N 130° 41.0' E	Oc.(2)W. period 12s lt. 2s, ec. 2s lt. 6s, ec. 2s	85 26	5	White tower; 33.	
12438 <i>M 5293</i>	Yawata Saki.	33° 56.0' N 130° 43.8' E	Fl.R. period 4s	43 13	5	Red tower; 26.	

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JAPAN-KYUSHU-OUTLYING ISLANDS							
12439 <i>M 5295</i>	-Breakwater, W. head.	33° 57.3' N 130° 46.5' E	Fl.(2)G. period 6s	43 13	7	White tower; 30.	
12439.5 <i>M 5295.5</i>	--E. head.	33° 57.4' N 130° 46.1' E	Fl.(2)R. period 6s	43 13	5	Red tower; 30.	
12440 <i>M 5076</i>	Okino Shima.	34° 14.6' N 130° 06.4' E	Al.FI.W.R. period 30s	830 253	17	White tower; 66.	
12446 <i>M 5078</i>	Okino Sima, S. approach.	34° 14.2' N 130° 06.3' E	Fl.G. period 3s	42 13	3	White tower; 20.	
12452 <i>M 5263</i>	Oro Shima, W. breakwater.	33° 51.7' N 130° 02.1' E	Fl.G. period 4s	56 17	7	White round concrete tower; 33.	
12456 <i>M 5070</i>	Kamiagata.	34° 33.9' N 129° 17.3' E	Oc.(3)W. period 16s	443 135	14	White tower; 39.	
12460 <i>M 5070.32</i>	Ina ko, W. breakwater.	34° 33.4' N 129° 18.8' E	F.Fl.G. period 3s	36 11	F. 2 Fl. 5	White tower; 30.	
12462 <i>M 5070.3</i>	-Breakwater, head.	34° 33.9' N 129° 18.3' E	Iso.R. period 6s	33 10	5	Red tower; 20.	
12464 <i>M 5070.4</i>	Nita Wan, S. approach.	34° 31.2' N 129° 18.7' E	F.W.	308 94		White concrete column; 30.	
12468 <i>M 5070.5</i>	Tsuyanagi.	34° 30.7' N 129° 18.1' E	Fl.R. period 4s	43 13	4	Red tower; 33.	
12472 <i>M 5069.4</i>	So Saki.	34° 38.8' N 129° 19.3' E	Fl.W. period 5s	276 84	23	White tower, two red bands; 36.	Visible 020°30'-252°30'.
12476 <i>M 5069</i>	-Sasuna Ko, entrance.	34° 38.6' N 129° 23.1' E	F.Fl.G. period 3s	36 11	F. 2 Fl. 5	White tower; 33.	
12477 <i>M 5069.2</i>	Nisituya Ko.	34° 39.9' N 129° 24.3' E	Fl.G. period 3s	27 8	3	White tower; 20.	
12478	-Wani Ura RAMARK	34° 41.1' N 129° 25.6' E					
12480 <i>M 5068.4</i>	-Waniura Ko, N. breakwater, head.	34° 41.8' N 129° 26.3' E	Fl.R. period 3s	39 12	4	Red tower; 26.	
12484 <i>M 5068</i>	-Mitsu Shima, island, off N. head.	34° 43.5' N 129° 26.7' E	Fl.W. period 15s	76 23	14	White tower; 46.	Visible 051°-314°.
12488 <i>M 5067</i>	Oki-No-Siine Shima.	34° 42.3' N 129° 27.8' E	Fl.W. period 4s	62 19	8	White round concrete tower; 33.	
12492 <i>M 5065</i>	Shitasaki.	34° 41.0' N 129° 29.6' E	Iso.W. period 6s	75 23	5	White tower; 30.	F.W. light illuminates reef 340 meters ENE.
12496 <i>M 5058</i>	-Jodo Zaki.	34° 38.7' N 129° 29.5' E	Fl.W. period 3s	85 26	7	White round concrete tower, square base; 26.	
12500 <i>M 5062</i>	Ikatsuti Saki.	34° 39.1' N 129° 28.8' E	Fl.R. period 3s	36 11	3	Red tower; 30.	
12504 <i>M 5060</i>	Nishitomari Wan, range, front.	34° 39.0' N 129° 28.0' E	F.Y.	194 59	11	White square concrete tower, square base, white triangular daymark point up; 39.	
12508 <i>M 5060.1</i>	-Rear, about 113 meters 299° from front.	34° 39.4' N 129° 28.2' E	F.Y.	220 67	11	White round concrete tower, white triangular daymark point down; 20.	
12510 <i>M 5057.9</i>	Tozyusi Ko, breakwater.	34° 36.9' N 129° 28.7' E	Fl.G. period 3s	30 9	3	White tower; 23.	
12512 <i>M 5057</i>	-Kin Wan.	34° 33.1' N 129° 28.1' E	Fl.W. period 3s	251 76	12	White tower; 26.	Visible 195°30'-021°20'.
12516 <i>M 5057.4</i>	--W. breakwater, head.	34° 33.1' N 129° 27.6' E	Fl.(2)G. period 6s	33 10	3	White tower; 16.	
12520 <i>M 5056.9</i>	-Tusima Hitoe Ko.	34° 31.8' N 129° 27.2' E	Fl.G. period 3s	39 12	4	White tower; 26.	

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12524 <i>M 5056.8</i>	-Hitoe Wan, E. breakwater	34° 31.7' N 129° 27.2' E	Fl.(2)R. period 6s	32 10	4	Red round concrete tower; 26.	
12528 <i>M 5056.6</i>	-Saga Ko, E. breakwater.	34° 27.0' N 129° 22.5' E	F.Fl.R. period 3s	46 14	F. 1 Fl. 3	Red tower; 30.	
12532 <i>M 5056.4</i>	-Nagasaki Hana.	34° 24.6' N 129° 23.8' E	F.W.	138 42	12	White tower; 33.	Illuminates reef 320 meters NE.
12536 <i>M 5056</i>	-Yokoura Wan.	34° 24.1' N 129° 22.6' E	Fl.R. period 4s	42 13	3	Red round concrete tower; 30.	
12540 <i>M 5052.5</i>	Orise Hana.	34° 18.0' N 129° 23.6' E	Iso.W. period 8s	377 115	8	White tower; 26.	
12544 <i>M 5052</i>	-Kuro Shima.	34° 19.1' N 129° 24.7' E	Fl.W. period 5s	472 144	7	White round concrete tower; 43.	
12548 <i>M 5053</i>	-Manzeki-no-Seto, E. entrance.	34° 18.0' N 129° 21.4' E	Oc.G. period 4s	19 6	4	White round concrete tower; 20.	
12552 <i>M 5054</i>	--W. entrance.	34° 17.7' N 129° 21.2' E	Oc.G. period 4s	23 7	4	White round concrete tower; 20.	
12556 <i>M 5051</i>	-Ohunakosi Ko, S. breakwater, head.	34° 16.5' N 129° 21.3' E	Fl.G. period 3s	36 11	3	White round concrete tower; 30.	
12558 <i>M 5051.5</i>	-E. breakwater, head.	34° 16.3' N 129° 21.4' E	Fl.(2)G. period 6s	36 11	5	White round concrete tower; 30.	
12562 <i>M 5050.5</i>	-Breakwater.	34° 12.8' N 129° 18.0' E	Oc.G. period 8s	33 10	5	White tower; 20.	
12564 <i>M 5047</i>	Yara Zaki.	34° 11.7' N 129° 17.9' E	Iso.W. period 6s	148 45	8	White tower; 20.	
12568 <i>M 5048.5</i>	-Izuhara Ko, E. breakwater.	34° 11.7' N 129° 17.6' E	Fl.R. period 3s	43 13	3	Red tower; 30.	
12580 <i>M 5042</i>	-Kosaki.	34° 05.1' N 129° 12.9' E	Fl.(2)W. period 6s	200 61	12	White octagonal concrete tower; 36.	Visible 261°-114°.
12582 <i>M 5040</i>	-Tuto Ko, breakwater.	34° 06.4' N 129° 12.7' E	Iso.G. period 6s	46 14	4	White tower; 33.	
12584 <i>M 5039</i>	-Tsutsu Ko, S. breakwater.	34° 06.7' N 129° 11.1' E	Fl.R. period 3s	39 12	3	Red tower; 16.	
12588 <i>M 5038</i>	-Tutu Saki.	34° 06.3' N 129° 10.1' E	Fl.W. period 10s	348 106	25	White tower; 62.	F.W. illuminates MyoSe 0.6 miles SSW.
12590 <i>M 5074.6</i>	--Northward.	34° 10.2' N 129° 10.6' E	F.Fl.G. period 3s	46 14	F. 2 Fl. 5	White tower; 30.	
12596 <i>M 5074</i>	-Komoda Ko, W. Training Wall.	34° 13.9' N 129° 11.3' E	Fl.R. period 3s	43 13	3	Red tower; 26.	
12600 <i>M 5071</i>	-Mine Ko Sin Saki.	34° 26.9' N 129° 17.0' E	Iso.W. period 6s	39 12	5	White tower; 33.	
12604 <i>M 5073</i>	Aso Wan Mizus-aki Zyoko.	34° 20.9' N 129° 16.1' E	Fl.G. period 3s	39 12	5	White tower; 30.	
12608 <i>M 5072</i>	Gosaki.	34° 19.9' N 129° 12.3' E	Iso.W. period 6s	89 27	12	White round concrete tower; 26.	
12612 <i>M 5073.2</i>	Imo Saki.	34° 19.7' N 129° 16.0' E	Fl.W. period 3s	43 13	8	White round concrete tower; 33.	
12614 <i>M 5073.3</i>	Nii Byoti.	34° 21.2' N 129° 18.1' E	Fl.(2)W. period 5s	26 8	5	ISOLATED DANGER BRB, tower, topmark; 23.	
12616 <i>M 5073.4</i>	Mezumi Shima.	34° 19.0' N 129° 18.0' E	Iso.W. period 6s	46 14	5	White round concrete tower; 43.	
12620 <i>M 5073.7</i>	Kuromi Saki.	34° 17.8' N 129° 19.5' E	Fl.W. period 3s	95 29	5	White round concrete tower; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU-OUTLYING ISLANDS							
12622 M 5073.6	-NW. of Takesiki Byoti.	34° 16.9' N 129° 18.9' E	Iso.G. period 6s	23 7	5	White tower; 20.	
12624 M 5259	Naga Shima.	33° 43.4' N 129° 37.8' E	Fl.W. period 4s	161 49	7	White square concrete tower; 24.	
12628 M 5259.2	Oshima Ko, E. breakwater.	33° 44.2' N 129° 38.5' E	Fl.R. period 3s	39 12	3	Red tower; 30.	
12630 M 5259.32	Hunori Se.	33° 44.8' N 129° 38.4' E	Fl.R. period 4s	42 13	5	STARBOARD (B) R, beacon, topmark; 39.	
12632 M 5259.34	Iki U Se.	33° 45.2' N 129° 38.7' E	Fl.(2)W. period 6s	46 14	7	White tower; 26.	
12636 M 5259.38	Tenaga Shima.	33° 50.0' N 129° 39.5' E	Fl.W. period 3s	72 22	5	White round concrete tower; 30.	
12638 M 5259.45	Katamoto Ko, breakwater, S. head.	33° 51.5' N 129° 40.7' E	Fl.G. period 3s	49 15	5	White tower; 33.	
12640 M 5260	Wakamiya Shima.	33° 52.2' N 129° 41.2' E	Oc.W. period 8s lt. 6s, ec. 2s	348 106	15	White tower; 33.	Visible 027°-289°. Radiobeacon. DGPS Station.
12641 M 5260.2	-Approach beacon.	33° 52.4' N 129° 41.5' E	Q.W.	23 7	3	N. CARDINAL BY, beacon, topmark; 23.	
12644 M 5259.6	Katsumoto Ko Range No 1, front.	33° 51.8' N 129° 41.4' E	F.Y.	62 19	11	Round concrete tower, white triangular daymark point up; 36.	
12648 M 5259.61	-No 1 rear, 60 meters 198° from front.	33° 51.6' N 129° 41.6' E	F.Y.	79 24	11	Round concrete tower, white triangular daymark point down; 33.	
12660 M 5259.4	Katsumoto Ko, W. breakwater, head.	33° 51.5' N 129° 41.5' E	Fl.R. period 3s	39 12	3	Red tower; 26.	
12664 M 5260.4	Uoturi Saki.	33° 50.6' N 129° 46.3' E	Fl.W. period 3s	190 58	7	White tower; 27.	
12672 M 5261.4	-S. breakwater, head.	33° 48.4' N 129° 45.6' E	Fl.G. period 3s	43 13	3	White round concrete tower; 30.	
12676 M 5261.3	-Outer breakwater.	33° 48.4' N 129° 45.9' E	Fl.(2)R. period 6s	52 16	5	Red tower; 33.	
12680 M 5261.2	-N. breakwater, head.	33° 48.5' N 129° 45.6' E	Fl.R. period 3s	43 13	3	Red round concrete tower; 30.	
12684 M 5261.45	Kanashiro Iwa.	33° 46.0' N 129° 48.9' E	Fl.W. period 3s	72 22	3	White tower; 30.	
12688 M 5259.25	Gonovra Ko, N. breakwater, head.	33° 44.5' N 129° 41.0' E	Fl.G. period 3s	46 14	3	White round concrete tower, square base; 30.	
12689 M 5259.27	-Breakwater, head.	33° 44.4' N 129° 40.6' E	Fl.R. period 3s	43 13	5	Red tower; 26.	
12689.1 M 5259.29	-NW. breakwater.	33° 44.4' N 129° 40.6' E	Iso.G. period 6s	31 9	4	White tower; 20.	
12690 M 5261.72	Kuki Ko, breakwater.	33° 44.1' N 129° 44.2' E	Fl.R. period 3s	33 10	4	Red concrete structure; 23.	
12692 M 5261.5	Oto Shima.	33° 44.5' N 129° 47.3' E	Iso.W. period 8s	46 14	5	White round concrete tower; 23.	
12697 M 5261.11	-Inner breakwater.	33° 44.2' N 129° 45.3' E	Fl.G. period 3s	46 14	3	White tower; 26.	
12698 M 5261.8	Go Se, approach to Gonoura Ko.	33° 42.5' N 129° 41.6' E	Fl.W. period 3s	36 11	3	White tower; 26.	
12700 M 5261.74	Iruka Saki.	33° 42.3' N 129° 43.0' E	Fl.(2)W. period 6s	102 31	12	White round concrete tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU-OUTLYING ISLANDS							
12704 M 5258	Futagami Shima.	33° 36.3' N 129° 33.2' E	Al.FI.W.G. period 20s	325 99	19	White octagonal concrete tower; 46.	
12708 M 5265.7	Kakara Shima.	33° 37.0' N 129° 51.7' E	Fl.W. period 3s	233 71	7	White square concrete structure; 33.	
12712 M 5261.9	Na Shima.	33° 44.1' N 129° 51.5' E	Fl.W. period 5s	105 32	7	White tower; 46.	
12716 M 5017.8	Tsushimase Hana.	33° 18.0' N 129° 07.6' E	Fl.W. period 3s	95 29	12	White tower; 39.	F.W. light illuminates Tsushima SE. about 380 meters NNE.
GOTO RETTO:							
12720 M 5018	-Koshiki Jima.	33° 18.1' N 129° 10.2' E	Fl.W. period 3s	230 70	5	White round concrete tower; 43.	
12724 M 5016	-Kuromo Se.	33° 14.6' N 129° 11.1' E	Fl.W. period 3s	69 21	7	White tower; 30.	
12728 M 5025	-Tsuwa Zaki.	33° 09.6' N 129° 06.8' E	Fl.W. period 3s	391 119	5	White round concrete tower, square base; 30.	
12729 M 5025.5	-Kuro Se.	33° 09.3' N 129° 00.4' E	Fl.W. period 3s	36 11	3	White tower; 23.	
12732 M 5022	-Ojika Shima, Fuefuki Ko.	33° 10.9' N 129° 03.8' E	Fl.G. period 3s	46 14	3	White round concrete tower; 30.	
12736 M 5024	--S. breakwater.	33° 11.0' N 129° 03.8' E	Fl.R. period 3s	33 10	3	Red tower; 23.	
12740 M 5016.4	-Ai Se.	33° 14.1' N 129° 05.7' E	Fl.W. period 5s	49 15	3	White tower; 33.	
12744 M 5017.7	-Nagasaki Hana.	33° 16.3' N 129° 09.5' E	Oc.W. period 4s	33 10	5	White round concrete tower; 26.	
12748 M 5017.4	-Taira, breakwater.	33° 15.5' N 129° 07.9' E	Fl.R. period 3s	39 12	4	Red round concrete tower; 26.	
12750 M 5017.5	--Detached breakwater, SW. head.	33° 15.3' N 129° 08.1' E	Fl.(2)R. period 6s	50 15	5	Red tower; 30.	
12756 M 5017.2	-S. breakwater, head.	33° 15.1' N 129° 05.6' E	Fl.R. period 3s	36 11	3	Red tower; 26.	
12760 M 5020	-Madara Shiam, NW. extremity of island.	33° 12.7' N 129° 00.9' E	Iso.W. period 6s	62 19	5	White round concrete tower; 33.	
12764 M 5026	-Shiro Se.	33° 11.0' N 128° 48.2' E	Fl.W.R. period 4s	125 38	11	White square concrete tower; 23.	R. 041°-063°, W.-251°, R.- 264°, W.-041°.
12768 M 5015.3	-Maruo, breakwater, head.	33° 00.2' N 129° 05.7' E	Iso.R. period 6s	43 13	4	Red tower; 30.	
12772 M 5015	-Mamako Se.	33° 00.1' N 129° 06.5' E	Fl.W. period 3s	56 17	8	White tower; 30.	
12774 M 5014.5	-Arikawa Wan, breakwater, head.	32° 59.3' N 129° 06.4' E	Fl.G. period 3s	32 10	3	White tower; 16.	
12776 M 5014	-Hirakushi Saki.	32° 59.4' N 129° 06.9' E	Iso.W. period 6s	115 35	4	White tower; 30.	
12780 M 5013	-Hira Shima.	33° 00.0' N 129° 13.4' E	Fl.W. period 3s	177 54	5	White tower; 62.	
12784 M 5013.4	-Hira Shima Ko, breakwater, head.	32° 59.9' N 129° 14.1' E	Fl.R. period 3s	56 17	4	Red tower; 30.	
12786 M 5012.8	Sakiura Ko.	32° 59.8' N 129° 10.8' E	Fl.G. period 3s	36 11	5	White tower; 20.	
12788 M 5012.6	-Ota, breakwater.	32° 57.3' N 129° 09.0' E	Iso.G. period 4s	59 18	4	White round concrete tower, 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU-OUTLYING ISLANDS							
12792 M 5011	-Aino Shima.	32° 55.2' N 129° 11.1' E	Fl.W. period 5s	82 25	8	White tower; 79.	
12796 M 5012	-Kanko Shima.	32° 56.1' N 129° 07.0' E	Fl.W. period 4s	52 16	5	White round concrete tower; 20.	
12800 M 5012.4	-Ayetsu, breakwater.	32° 56.9' N 129° 06.7' E	Iso.R. period 6s	39 12	4	Red round concrete tower; 30.	
12802 M 5011.5	-Arikawa Konoura Ko.	32° 55.5' N 129° 05.2' E	Fl.R. period 6s	27 8	5	Red tower; 16.	
12804 M 5010.6	-Hamakusi Ko, S. breakwater.	32° 53.6' N 129° 05.4' E	Fl.R. period 3s	56 17	5	White tower; 33.	
12806 M 5010.5	-Narao Ko, breakwater.	32° 53.0' N 129° 05.3' E	Fl.(2)R. period 6s	49 15	3	Red tower; 39.	
12808 M 5026.6	-Tuboga Se.	33° 04.4' N 129° 03.8' E	Fl.(2)W. period 5s	56 17	5	ISOLATED DANGER BRB, tower, topmark; 46.	
12812 M 5027	-Yagatameno Hana.	33° 02.7' N 129° 04.1' E	Fl.W. period 3s	131 40	5	White tower; 33.	
12816 M 5027.4	-Aokata Ko, Itino Se.	32° 59.5' N 129° 02.4' E	Mo.(A)G. period 8s	46 14	5	PORT (B) G, tower, topmark; 36.	
12818 M 5027.65	-Breakwater, S. head.	32° 58.7' N 129° 03.1' E	Fl.G. period 3s	29 9	3	White tower; 20.	
12824 M 5028	-Kushi Jima.	32° 57.6' N 128° 58.8' E	Fl.W. period 4s	373 114	17	White round concrete tower, square base; 36.	
12828 M 5028.4	-Arifuku Jima.	32° 55.2' N 128° 55.8' E	Fl.W. period 3s	66 20	11	White round concrete structure; 33.	
12832 M 5009	-Sao Ko, No 3 breakwater.	32° 49.6' N 129° 02.8' E	Iso.G. period 4s	46 14	4	White round concrete tower; 33.	
12836 M 5009.6	-Goto Sao Saki.	32° 48.8' N 129° 03.8' E	Fl.W. period 3s	73 22	12	White tower; 39.	
12844 M 5010.2	-Narao Ko, S. breakwater.	32° 50.3' N 129° 04.0' E	Fl.(2)G. period 6s	49 15	3	White tower; 33.	
12848 M 5010.35	Ko-narao.	32° 50.9' N 129° 03.7' E	Fl.R. period 3s	52 16	3	Red tower; 30.	Synchronized with 12852.
12852 M 5010.3	-Ko-narao Ko Minami, S. breakwater, head.	32° 50.8' N 129° 04.0' E	Fl.G. period 3s	72 22	3	White tower; 33.	Synchronized with 12848.
12856 M 5008	-Takanou Hana.	32° 45.2' N 129° 00.4' E	Iso.W. period 6s	72 22	5	White round concrete tower; 36.	
12860 M 5010	-Otona Se.	32° 49.2' N 129° 05.5' E	Fl.(2)W. period 5s	66 20	5	ISOLATED DANGER BRB, tower, topmark; 66.	
12862 M 5008.2	Ban-dake.	32° 45.3' N 128° 58.1' E	Fl.G. period 3s	25 8	3	White tower; 16.	
12864 M 5006	-Fukue Ko, N. breakwater.	32° 42.0' N 128° 51.2' E	Fl.(2)R. period 6s	39 12	3	Red tower; 30.	Synchronized with 12868.
12868 M 5006.41	--S. breakwater, N. head.	32° 42.0' N 128° 51.4' E	Fl.(2)G. period 6s	46 14	4	White tower; 33.	Synchronized with 12864.
12876 M 5005.7	-Sakiyama Ko, N. breakwater, head.	32° 39.6' N 128° 53.4' E	Fl.R. period 3s	42 13	3	Red tower; 26.	
12880 M 5004	-Tomie Ko, on Okinokuro Se.	32° 37.5' N 128° 46.8' E	Fl.W. period 5s	36 11	8	White tower; 30.	
12884 M 5005	--Breakwater, W. head.	32° 37.4' N 128° 46.4' E	Fl.G. period 3s	33 10	4	White round concrete tower; 23.	
12888 M 5005.4	--Ohama Ko, S. breakwater.	32° 38.7' N 128° 48.8' E	Fl.R. period 3s	39 12	3	Red tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU-OUTLYING ISLANDS							
12890 <i>M 5002.7</i>	-Hukue Sima, breakwater.	32° 35.1' N 128° 45.0' E	Fl.R. period 5s	46 14	3	Red tower; 16.	
12892 <i>M 5002.8</i>	-Kasayama Saki.	32° 34.4' N 128° 46.3' E	Iso.W. period 6s	62 19	5	White round concrete tower; 36.	F.W. auxiliary light illuminates white post on reefs 230 meters S.
12894 <i>M 5003.5</i>	Wakou Ko, S. breakwater, head.	32° 34.8' N 128° 46.7' E	Fl.(2)G. period 6s	43 13	5	White tower; 26.	
12896 <i>M 5002.6</i>	-Kurose Ko, S. breakwater, head.	32° 36.2' N 128° 44.3' E	Fl.R. period 3s	49 15	3	Red tower; 30.	
12900 <i>M 5002.5</i>	-Daiho Ko, S. breakwater.	32° 35.9' N 128° 39.5' E	Iso.G. period 6s	43 13	4	White tower; 26.	
12904 <i>M 5002</i>	-Ose Zoki.	32° 36.8' N 128° 36.0' E	Fl.W. period 3s	272 83	12	White round metal tower; 52.	Visible 301°-175°. Radiobeacon, DGPS Station , 741 meters NE.
12908 <i>M 5034</i>	-Tamanoura Ko, groin.	32° 38.8' N 128° 36.9' E	Fl.R. period 3s	36 11	3	Red tower; 26.	
12912 <i>M 5032</i>	-Tamanoura, Kuro Se.	32° 40.9' N 128° 38.0' E	Fl.W. period 3s	112 34	5	White round concrete tower, square base; 30.	
12916 <i>M 5033</i>	Tamanoura Ko.	32° 40.0' N 128° 39.8' E	Fl.W. period 3s	115 35	10	White tower; 26.	
12920 <i>M 5033.5</i>	--Breakwater.	32° 40.0' N 128° 40.0' E	Fl.G. period 3s	43 13	3	White round concrete tower, square base; 30.	
12924 <i>M 5030</i>	-Kashiwa Zaki.	32° 47.1' N 128° 39.9' E	Fl.W. period 3s	79 24	5	White tower; 49.	
12928 <i>M 5029.8</i>	Nagasaki Hana.	32° 45.7' N 128° 38.5' E	Iso.W. period 6s	72 22	12	White square concrete structure.	F.W. light illuminates surface 520 meters W.S.W.
12932 <i>M 5029.6</i>	-Miiraku Ko, E. breakwater.	32° 44.8' N 128° 42.1' E	Fl.R. period 3s	43 13	4	Red round concrete tower, square base; 30.	
12934 <i>M 5029.5</i>	Mizunoura Ko.	32° 44.9' N 128° 44.5' E	Fl.(2)G. period 6s	26 8	4	White tower; 20.	
12936 <i>M 5029.4</i>	-Taketo Shima.	32° 45.7' N 128° 44.5' E	Fl.W. period 4s	125 38	7	White tower; 26.	
12940 <i>M 5029.2</i>	-Kishuku Ura Range, front.	32° 45.0' N 128° 46.0' E	F.G.	33 10	8	Concrete column, white rectangular daymark; 26.	
12944 <i>M 5029.21</i>	--Rear, 55 meters 196°06' from front.	32° 45.2' N 128° 45.9' E	F.G.	56 17	8	Concrete column, white rectangular daymark; 30.	
12948 <i>M 5029</i>	-Itokushi Bana.	32° 47.8' N 128° 48.6' E	Oc.(2)W. period 12s lt. 2s, ec. 2s lt. 6s, ec. 2s	351 107	12	White round concrete tower; 33.	
			F.W.		104		
12952 <i>M 5008.4</i>	-Narushima Ko, Mae Shima, N. breakwater.	32° 48.5' N 128° 56.1' E	Iso.R. period 4s	42 13	4	Red tower; 30.	
12956 <i>M 5008.6</i>	-Kakarasaki Bana.	32° 49.3' N 128° 54.9' E	Fl.(2)G. period 6s	69 21	8	White round concrete tower; 30.	
			F.W.				Illuminates rock 160 meters SSE.
12960 <i>M 5008.45</i>	-Nurosima Ko.	32° 49.0' N 128° 56.1' E	Fl.G. period 3s	39 12	3	White tower; 30.	
12968 <i>M 5007</i>	-Akahae Bana.	32° 45.0' N 128° 52.9' E	Fl.W. period 4s	49 15	5	White tower; 33.	
12970 <i>M 5006.55</i>	-Goto Nyudou Se.	32° 45.0' N 128° 50.0' E	Fl.G. period 3s	26 8	3	PORT (B) G, beacon, topmark; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU-OUTLYING ISLANDS							
12972 <i>M 5028.6</i>	-Kurose Hana.	32° 51.7' N 128° 52.3' E	Fl.W. period 5s	59 18	5	White round concrete tower; 30.	
12974 <i>M 5028.8</i>	Hisaka Sima.	32° 50.5' N 128° 50.5' E	Fl.R. period 5s	30 9	3	STARBOARD (B) R, beacon, topmark; 30.	
12976 <i>M 5003</i>	O Shima.	32° 33.7' N 128° 54.1' E	Fl.(2)W. period 20s	338 103	21	White square concrete tower; 43.	
12980 <i>M 4998</i>	Me Shima.	31° 59.5' N 128° 21.0' E	Fl.W. period 15s	391 119	21	White octagonal concrete tower; 49.	Visible 215°-162°.
12984 <i>M 4805</i>	Ie Shima.	31° 12.1' N 129° 28.6' E	Fl.W. period 3s	338 103	7	White tower; 30.	

Section 8

Ryukyu Islands and Taiwan

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RYUKYU ISLANDS							
12988 <i>M 4802</i>	Kusagaki Shima.	30° 51.7' N 129° 27.9' E	Fl.(2)W. period 20s	459 140	21	White round concrete tower; 46.	
12990 <i>M 4804</i>	Kuro Shima.	30° 49.8' N 129° 57.6' E	Al.Fl.(2)W.G. period 10s	784 239	W. 20 G. 21	White tower; 36.	Visible 125°-351°.
12992 <i>M 4787</i>	Satuma.	30° 47.1' N 130° 16.5' E	Fl.W. period 4s	482 147	12	White tower; 39.	
12994 <i>M 4787.2</i>	-Breakwater, head.	30° 46.7' N 130° 16.7' E	Fl.R. period 5s	50 15	3	Red tower; 36.	
12996	Mage Sima.	30° 45.9' N 130° 51.4' E	Fl.W. period 3s	46 14	7	White round concrete structure; 39.	
13000 <i>M 4799</i>	Kishika Saki.	30° 50.1' N 131° 03.5' E	Al.Fl.W.R. period 14s	226 69	16		W. 057°-336°, R.-057°.
13002 <i>M 4798.8</i>	Nisinoomote Ko.	30° 44.6' N 130° 58.9' E	Fl.(2)R. period 6s	59 18	7	Red tower; 49.	
13004 <i>M 4796</i>	Nisinoomote Ko Sonosaki, breakwater.	30° 44.1' N 130° 59.3' E	Fl.G. period 4s	43 13	5	White round concrete tower; 30.	
13016 <i>M 4798.6</i>	Nisimo-Omote Ko, S. breakwater.	30° 43.9' N 130° 59.0' E	Fl.R. period 3s	46 14	3	Red tower; 36.	
13020 <i>M 4794</i>	Surniyoshi Misaki.	30° 40.2' N 130° 56.5' E	Fl.W. period 5s	75 23	7	White tower; 33.	
13024 <i>M 4793.5</i>	Shimana Ko, W. breakwater.	30° 28.2' N 130° 51.9' E	Fl.(2)R. period 6s	52 16	4	Red tower; 33.	
13028 <i>M 4793</i>	Shimana Saki.	30° 28.0' N 130° 51.0' E	Iso.W. period 8s	56 17	8	White tower; 36.	
13032 <i>M 4792</i>	Otake Zaki.	30° 23.1' N 130° 57.7' E	Fl.(2)W. period 20s	348 106	21	White round concrete tower; 59.	
13036 <i>M 4800.4</i>	Kumano Ko, breakwater.	30° 27.7' N 130° 57.8' E	Fl.R. period 3s	46 14	7	Red round concrete tower; 30.	
13040 <i>M 4800.6</i>	Dir. Lt.	30° 27.4' N 130° 57.7' E	Dir.W.R.G.	92 28	W. 10 R. 7 G. 7	White square metal tower; 23.	F.R. 216°12'-237°30', F.W.- 240°30', F.G.-261°48'. 239° centerline of navigable fairway.
13048 <i>M 4791.2</i>	Onoaida.	30° 13.9' N 130° 33.4' E	Fl.W. period 6s	167 51	12	White hexagonal concrete tower; 30.	
13052 <i>M 4791</i>	Ambo, outer.	30° 19.2' N 130° 40.0' E	Fl.R. period 3s	56 17	7	Red round concrete tower; 33.	
13060 <i>M 4790.6</i>	Miyanoura, N. breakwater.	30° 26.0' N 130° 34.8' E	Fl.(2)R. period 7s	49 15	5	Red tower; 36.	
13064 <i>M 4790</i>	Yahazu Saki.	30° 28.1' N 130° 29.9' E	Fl.W. period 10s	144 44	18	White tower; 36.	Visible 068°-298°.
13068 <i>M 4790.4</i>	Isso, N. breakwater.	30° 27.4' N 130° 29.4' E	F.Fl.R. period 6s	46 14	F. 1 Fl. 3	Red tower; 30.	
13072 <i>M 4788</i>	Nagota Misaki.	30° 23.6' N 130° 22.8' E	Fl.W. period 15s	236 72	22	White tower; 66.	Visible 002°-244°.
RAMARK							
13076 <i>M 4786.3</i>	No Saki.	30° 29.2' N 130° 08.9' E	Fl.(2)W. period 14s	302 92	12	White metal tower; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RYUKYU ISLANDS							
13080 <i>M 4786</i>	Kuchinoerabu Ko, breakwater.	30° 27.4' N 130° 11.6' E	Fl.(2)R. period 7s	43 13	5	Red tower; 33.	
13084 <i>M 4786.6</i>	Mega Saki.	30° 26.2' N 130° 15.9' E	Fl.(2)W. period 6s	220 67	7	White tower; 33.	
13088 <i>M 4785</i>	Osumi Hira Se.	30° 02.5' N 130° 03.0' E	Fl.W. period 3s		7	White tower; 36.	
13092 <i>M 4784.5</i>	Kuti-no-Sima.	29° 59.5' N 129° 54.8' E	Fl.R. period 3s	56 17	7	Red tower; 30.	
13096 <i>M 4783</i>	Nakano Shima.	29° 49.4' N 129° 54.9' E	Fl.(3)W. period 18s	207 63	12	White concrete tower; 52.	DGPS Station.
13100 <i>M 4784</i>	Gaja Shima.	29° 54.7' N 129° 32.2' E	Fl.W. period 8s	679 207	12	White tower; 39.	
13102 <i>M 4782.95</i>	Akuseki Sima.	29° 27.0' N 129° 36.9' E	Al.Fl.W.G. period 16s	518 158	22	White tower; 49.	Visible 177°-027°.
13104 <i>M 4782.8</i>	Takara Shima.	29° 07.7' N 129° 13.2' E	Fl.W. period 10s	236 72	12	White square concrete tower; 52.	
13108 <i>M 4782.9</i>	-Maegomori Ko, breakwater.	29° 09.6' N 129° 12.5' E	Fl.G. period 3s	52 16	5	Red round concrete tower; 30.	
13112 <i>M 4782</i>	Tonbi Saki.	28° 22.2' N 130° 01.7' E	Fl.W. period 5s	135 41	18	White round concrete tower; 62.	
13114 <i>M 4782.2</i>	Somati Gyoko, breakwater.	28° 19.8' N 130° 00.6' E	Fl.R. period 5s	62 19	5	Red tower; 39.	
13116 <i>M 4782.4</i>	Shitsuru Saki.	28° 17.0' N 129° 56.9' E	Fl.W. period 3s	164 50	12	White tower; 43.	
13120 <i>M 4782.61</i>	Wan Ko.	28° 19.8' N 129° 56.1' E	Fl.G. period 4s	59 18	7	White tower; 39.	
13124 <i>M 4782.5</i>	Akara Ko Range, front.	28° 19.4' N 129° 56.3' E	F.R.	39 12	6	White concrete column, white triangular daymark point up; 33.	
13128 <i>M 4782.51</i>	-Rear, 500 meters 156°42' from front.	28° 19.1' N 129° 56.4' E	F.R.	102 31	6	White concrete column, white triangular daymark point down; 30.	
13132 <i>M 4767</i>	Kasari Saki.	28° 31.8' N 129° 41.4' E	Fl.W. period 15s	197 60	20	White square concrete tower; 43.	Visible 079°-335°.
13134 <i>M 4767.8</i>	Akakina Ko Range, front.	28° 26.6' N 129° 39.7' E	F.Y.	43 13	8	White tower, white triangular daymark point up; 39.	
13134.1 <i>M 4767.81</i>	-Rear, 184° from front.	28° 26.4' N 129° 39.8' E	F.Y.	79 24	8	White tower, white triangular daymark point down; 20.	
13140 <i>M 4767.6</i>	Imai Zaki.	28° 28.6' N 129° 37.3' E	Fl.(2)W. period 7s	249 76	12	White tower; 33.	
13144 <i>M 4768</i>	Borose Saki.	28° 26.7' N 129° 31.4' E	L.Fl.W. period 10s	374 114	5	White tower; 36.	
13148 <i>M 4770</i>	Tategami, entrance to Nasa Ko, W. side.	28° 24.5' N 129° 29.9' E	Fl.(2)W. period 6s	128 39	8	White round concrete tower; 30.	
13148.5 <i>M 4770.4</i>	-Breakwater, head.	28° 24.4' N 129° 30.2' E	Fl.R. period 3s	33 10	3	Red tower; 16.	
13150 <i>M 4771</i>	Naze Ko.	28° 24.0' N 129° 30.0' E	Fl.R. period 4s	42 13	3	Red tower; 36.	
13151 <i>M 4771.5</i>	-E. breakwater.	28° 24.0' N 129° 30.2' E	Fl.G. period 4s	43 13	5	White round concrete tower; 36.	
13168 <i>M 4778</i>	Oyama Zaki.	28° 21.9' N 129° 20.5' E	Fl.W. period 5s	620 189	12	White tower; 33.	
13172 <i>M 4780</i>	Satsuko Saki.	28° 15.3' N 129° 08.2' E	Fl.W. period 15s	459 140	21	White tower; 52.	Visible 323°-233°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RYUKYU ISLANDS							
13176 <i>M 4780.5</i>	Onensaki.	28° 12.3' N 129° 14.8' E	Fl.W. period 5s	118 36	7	White tower; 30.	
13180 <i>M 4780.6</i>	Seto Saki.	28° 09.0' N 129° 17.8' E	Fl.(2)W. period 6s	135 41	5	White tower; 33.	
13184 <i>M 4780.7</i>	Koniya Ko, breakwater.	28° 08.7' N 129° 18.8' E	Iso.R. period 6s	23 7	5	Red tower; 20.	
13188 <i>M 4781.5</i>	Machiami Saki.	28° 07.1' N 129° 20.5' E	Fl.W. period 3s	59 18	5	White concrete tower; 30.	
13192 <i>M 4781</i>	Kaitsu Saki.	28° 06.7' N 129° 22.6' E	Fl.W. period 6s	335 102	12	White round concrete tower; 26.	
TOKUNO SHIMA:							
13196 <i>M 4766.5</i>	-Kanami Saki.	27° 53.5' N 128° 58.2' E	Fl.W. period 3s	141 43	12	White tower; 36.	F.W. light illuminates Tombara Iwa about 2 miles NNE.
13200 <i>M 4766.7</i>	Kametoku Ko, S. breakwater.	27° 44.3' N 129° 01.7' E	Fl.G. period 4s	59 18	5	White round concrete tower; 46.	
13204 <i>M 4766.8</i>	Kametoku Range, front.	27° 44.3' N 129° 01.4' E	F.Y.	56 17	8	White round concrete tower, white triangular daymark point up; 49.	Visible 274°-292°.
13208 <i>M 4766.81</i>	-Rear, 130 meters 283° from front.	27° 44.3' N 129° 01.3' E	F.Y.	72 22	8	White round concrete tower, white triangular daymark point up; 49.	Visible 274°-292°.
13212 <i>M 4765.6</i>	Kinen Saki.	27° 40.2' N 128° 59.1' E	Fl.(2)W. period 7s	72 22	12	White tower; 46.	
13216 <i>M 4765.8</i>	Hetono Ko, jetty.	27° 48.8' N 128° 53.6' E	Fl.G. period 3s	46 14	5	White tower; 23.	
13220 <i>M 4766</i>	Yon ama Saki.	27° 52.9' N 128° 53.5' E	Fl.(2)W. period 10s	177 54	12	White tower; 52.	
OKINO-ERABU SHIMA:							
13224 <i>M 4765.4</i>	- Kunigami Saki.	27° 26.0' N 128° 42.6' E	Fl.W. period 5s	131 40	17	White round concrete tower; 62.	Visible 097°-049°30'. Aero Radiobeacon.
13228 <i>M 4765.34</i>	Wadomari Ko Range, front.	27° 24.0' N 128° 40.0' E	F.R.	56 17	7	White concrete column, triangular daymark point up; 23.	
13232 <i>M 4765.35</i>	-Rear, 282°48' from front.	27° 23.9' N 128° 39.6' E	F.R.	69 21	7	White concrete column, triangular daymark point up; 33.	
13236 <i>M 4765.3</i>	Tina Ko, wharf.	27° 19.8' N 128° 34.0' E	F.W.R.G.	105 32	W. 13 R. 7 G. 7	White round concrete tower; 43.	R. 014°18'-022°18', W.-029°48', G.-037°48'.
13240 <i>M 4765.2</i>	Yakuniya Saki.	27° 24.2' N 128° 32.2' E	Fl.(2)W. period 7s	236 72	12	White tower; 52.	
13242 <i>M 4765.5</i>	-Inobe Ko Range, front.	27° 24.6' N 128° 38.8' E	F.Y.	75 23	8	White tower, white triangular daymark point up; 52.	
13242.1 <i>M 4765.51</i>	--Rear, 151° from front.	27° 24.9' N 128° 38.6' E	F.Y.	98 30	8	White tower, white triangular daymark point up; 43.	
YORON JIMA:							
13244 <i>M 4763.8</i>	-Aka Saki.	27° 01.5' N 128° 27.4' E	Fl.W. period 4s	75 23	12	White tower; 46.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RYUKYU ISLANDS							
13246 M 4763.9	Yoron Ko.	27° 02.4' N 128° 24.1' E	Dir.W.R.G.	69	W. 13 R. 10 G. 11	White tower; 30.	F.R. 357°30'-359°, F.W.-001°, F.G.-002°30'.
			Oc.Y. period 4s lt. 3s, ec. 1s	79 24	10		
13248 M 4764	Hanebu Saki.	27° 03.0' N 128° 23.9' E	Fl.(2)W. period 7s	65 20	12	White tower, two red bands; 30.	
13252 M 4764.4	Yoron Ko Range, front.	27° 03.0' N 128° 25.0' E	F.G.	46 14	8	White round metal tower, white triangular daymark point up; 33.	Visible 125°42'-139°42'.
13256 M 4764.41	-Rear, 45 meters 132°42' from front.	27° 02.8' N 128° 24.6' E	F.G.	62 19	8	White round metal tower, white triangular daymark point up; 30.	Visible 1252°42'-139°42'.
13260 M 4765	Dana Misaki.	27° 05.5' N 128° 01.2' E	Fl.W. period 12s	377 115	21	White round concrete tower; 49.	
13261 M 4765.05	Maedomari Ko.	27° 02.0' N 127° 58.2' E	Fl.G. period 3s	56 17	7	White tower; 39.	
13262 M 4764.7	Iheya Gyoko, breakwater, S. head.	27° 01.0' N 127° 56.7' E	Fl.R. period 3s	33 10	5	Red tower; 20.	
13263 M 4764.5	Nakado Ko, breakwater.	26° 55.6' N 127° 57.3' E	Fl.R. period 3s	60 18	7	Red tower; 39.	
OKINAWA JIMA:							
13264 M 4763	-Hedo Misaki.	26° 52.0' N 128° 14.9' E	Fl.W. period 6s	233 71	12	White round concrete tower; 36.	
13266 M 4763.2	-Hentona Ko, breakwater.	26° 45.0' N 128° 10.7' E	Fl.G. period 3s	33 10	5	White tower; 20.	
13268 M 4762.9	Setake Saki.	26° 45.0' N 128° 19.5' E	Fl.W. period 10s	285 87	24	White square concrete tower; 49.	
13272 M 4762.2	Takabaka Saki.	26° 32.2' N 128° 05.3' E	Fl.(2)W. period 6s	82 25	5	White tower; 33.	
13280 M 4762.4	Naga Shima.	26° 31.2' N 128° 03.7' E	Fl.W. period 3s	85 26	5	White tower; 33.	
13282 M 4761.8	Kunigami Seaberth, breakwater.	26° 26.3' N 127° 55.2' E	Mo.(U)W. period 12s	46 14	10		
13284 M 4758	Mengui Syo, Kin Wan approach.	26° 25.0' N 128° 01.9' E	Q.W.	39 12	5	N. CARDINAL BY, beacon, topmark; 39.	Radar reflector.
13290 M 4761.6	-Beacon No 4.	26° 25.5' N 127° 50.2' E	Fl.R. period 4s	16 5	1	STARBOARD (B) R, beacon, topmark; 16.	
13292 M 4761.4	Ishikawa, breakwater, head.	26° 25.4' N 127° 51.1' E	Mo.(U)W. period 8s	46 14	10		
13296 M 4759	Ike Sima.	26° 23.9' N 127° 59.8' E	Fl.(2)W.R. period 6s	135 41	12	White tower; 46.	R. 242°-265°, W.-242°.
13300 M 4759.2	Okinawa Sekiyukiti Sea Berth.	26° 23.4' N 127° 58.5' E	Mo.(U)W. period 15s	135 41	10		
13300.5 M 4759.25	Okinawa Terminal Sea Berth.	26° 22.7' N 127° 57.9' E	Mo.(U)W. period 12s	112 34	9		
13302 M 4760	Kin Wan Offshore Terminal.	26° 22.9' N 127° 53.4' E	Mo.(U)W. period 8s	49 15	10		
13304 M 4759.4	Kin Nagakusuku Ko.	26° 21.7' N 127° 56.3' E	Q.(3)W. period 10s	23 7	7	E. CARDINAL BYB, beacon, topmark; 23.	
13304.5 M 4757.5	Ikei Sima, S.	26° 22.5' N 127° 59.9' E	Fl.R. period 3s	18 5	3	STARBOARD (B) R, tower, topmark; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RYUKYU ISLANDS							
13305 <i>M 4754.7</i>	Hamahiga Kuti.	26° 20.0' N 127° 59.8' E	Fl.R. period 3s	18 5	3	STARBOARD (B) R, tower, topmark; 16.	
13306 <i>M 4754.6</i>	Hamahiga Sa, breakwater.	26° 19.8' N 127° 57.1' E	Fl.G. period 3s	24 7	5	White tower; 20.	
13308 <i>M 4754</i>	Katsuren Saki.	26° 17.8' N 127° 54.9' E	Fl.W. period 6s	200 61	5	White square concrete tower; 33.	
13310 <i>M 4754.8</i>	-W. detached breakwater, E. head.	26° 18.4' N 127° 52.1' E	Fl.G. period 3s	42 13	5	White tower; 30.	
13310.5 <i>M 4754.9</i>	-E. detached breakwater, W. head.	26° 18.5' N 127° 52.3' E	Fl.R. period 3s	33 10	4	Red tower; 20.	
13311	-Small craft basin, W. breakwater, head.	26° 17.9' N 127° 54.7' E	F.G.	10 3	4		
13311.5	--E. breakwater, head.	26° 17.9' N 127° 54.7' E	F.R.	10 3	4		
13313	-Navy Pier, head.	26° 17.7' N 127° 54.4' E	Iso.W. period 6s	9 3	4	White post; 9.	
13316 <i>M 4752</i>	Tsuken Jima.	26° 15.0' N 127° 56.2' E	Fl.W. period 4s	167 51	12	White tower; 46.	
13320 <i>M 4752.4</i>	-Breakwater, head.	26° 14.7' N 127° 56.0' E	Fl.G. period 3s	36 11	4	White tower; 23.	
13322 <i>M 4754.5</i>	Usiziuuse, E. breakwater.	26° 18.5' N 127° 55.5' E	Fl.R. period 3s	30 9	3	Red tower; 16.	
13324 <i>M 4753</i>	Hira Sone.	26° 15.8' N 127° 53.1' E	Fl.W. period 4s	39 12	5	White tower; 36.	
13326 <i>M 4755</i>	Gusikawa, breakwater, head.	26° 19.5' N 127° 50.5' E	Fl.R. period 3s	26 8	3	Red tower; 20.	
13336 <i>M 4750.84</i>	<i>Nansei Sea Berth Buoy.</i>	26° 14.2' N 127° 49.9' E	Mo.(U)W. period 8s	23 7	4		
13340 <i>M 4753.4</i>	Breakwater, head.	26° 15.8' N 127° 49.1' E	Mo.(U)W. period 15s	39 12	10		
13348 <i>M 4750.7</i>	Kin Nanseki.	26° 13.1' N 127° 47.6' E	Mo.(U)W. period 10s	72 22	10	White square metal tower.	Mo.(U)W. 10s 130 meters E. and 150 meters WNW.
13349 <i>M 4749.5</i>	Untaku.	26° 11.1' N 127° 50.7' E	Mo.(A)G. period 8s	16 5	3	PORT (B) G, beacon, topmark; 16.	
13352 <i>M 4750</i>	China Saki, on shoal.	26° 11.4' N 127° 49.3' E	Fl.W. period 3s	115 35	7	White tower; 36.	
13354 <i>M 4750.2</i>	Yonabaru Wan, breakwater.	26° 11.5' N 127° 48.8' E	Fl.G. period 3s	46 14	3	White tower; 31.	
13356 <i>M 4750.4</i>	Baten Ko, breakwater, head.	26° 10.8' N 127° 46.8' E	Fl.R. period 3s	39 12	5	Red tower; 33.	
13360 <i>M 4749</i>	Kudaka Sima.	26° 09.3' N 127° 53.1' E	Fl(2).W. period 6s	82 25	12	White tower; 36.	
13362 <i>M 4748.5</i>	Hira Bishi.	26° 08.7' N 127° 52.5' E	Mo.(B)G. period 8s	16 5	3	PORT (B) G, beacon, topmark; 16.	
13364 <i>M 4748</i>	Kiyan Saki.	26° 04.8' N 127° 40.2' E	Fl.W. period 5s	154 47	18	White tower; 49.	Aero Radiobeacon 1.3 miles N.
13365 <i>M 4747</i>	Tokomasari-sho.	26° 05.7' N 127° 38.2' E	Q.(9)W. period 15s	16 5	3	W. CARDINAL YBY, beacon, topmark; 16.	
13368 <i>M 4746</i>	Rukan Sho Reef.	26° 06.6' N 127° 32.0' E	Fl.(2)W. period 10s	72 22	12	White tower; 56.	Radar reflector.
13368.5 <i>M 4745.2</i>	Muki.	26° 08.7' N 127° 37.3' E	Q.(9)W. period 15s	16 5	3	W. CARDINAL YBY, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RYUKYU ISLANDS							
13371 <i>M 4744</i>	O Se.	26° 11.7' N 127° 36.9' E	Q.(9)W. period 15s	16 5	3	W. CARDINAL YBY, beacon, topmark.	
13372 <i>M 4740.87</i>	Sinko, No 1 breakwater, N. head.	26° 15.2' N 127° 39.5' E	Fl.R. period 3s	72 22	7	Red tower; 62.	
13372.2 <i>M 4740.9</i>	Urasoe, No 1 breakwater, W. head.	26° 15.5' N 127° 39.2' E	Fl.G. period 5s	46 14	3	White round tower; 13.	
13374 <i>M 4740.95</i>	Inner harbor, N. breakwater.	26° 15.3' N 127° 40.4' E	Fl.G. period 3s	43 13	3	White tower; 23.	
13380 <i>M 4740.85</i>	Sinko, No 1 breakwater, S. head.	26° 13.5' N 127° 39.1' E	Fl.G. period 3s	75 23	5	White tower; 62.	
13382 <i>M 4744.8</i>	Naha, breakwater, N. head.	26° 13.5' N 127° 38.6' E	Fl.(2)R. period 6s	56 17	7	Red tower; 33.	
13388 <i>M 4741.3</i>	-Port side.	26° 12.9' N 127° 39.8' E	Fl.G. period 3s	19 6	5	PORT (B) G, tower, topmark; 20.	Visible 322°-142°.
13392 <i>M 4743</i>	-Starboard side.	26° 12.8' N 127° 39.8' E	Fl.R. period 3s	22 7	5	Red tower; 13.	
13404 <i>M 4745</i>	Naha AVIATION LIGHT.	26° 11.9' N 127° 38.6' E	Al.FI.W.G. period 4.3s		W. 3 G. 1		
13407 <i>M 4739.92</i>	Kuro Shima.	26° 14.4' N 127° 24.4' E	Fl.(2)W. period 5s	16 5	3	ISOLATED DANGER BRB, beacon, topmark; 16.	
13408 <i>M 4739.9</i>	Hate Shima.	26° 14.4' N 127° 27.5' E	Fl.W. period 3s	115 35	7	White square concrete tower; 39.	
13410 <i>M 4739.95</i>	Nagannu Sima, atoll, NW. head.	26° 16.5' N 127° 31.7' E	Q.(9)W. period 15s	16 5	3		
13412 <i>M 4740</i>	Kamiyama Shima.	26° 15.7' N 127° 35.1' E	Fl.W. period 4s	69 21	7	White square concrete tower; 36.	
13414 <i>M 4740.6</i>	Machinato Wan, breakwater, head.	26° 16.7' N 127° 43.5' E	Fl.G. period 3s	36 11	5	White tower; 23.	
13420 <i>M 4740.3</i>	Zampa Misaki.	26° 26.5' N 127° 42.8' E	Fl.(2)W. period 10s	144 44	18	White tower; 102.	Visible 343°-296°.
13422 <i>M 4740.4</i>	Maeta Saki, E.	26° 26.9' N 127° 48.0' E	Fl.G. period 3s	29 9	5	White tower; 20.	
13424 <i>M 4763.5</i>	Toguchi Ko, S. breakwater, head.	26° 39.7' N 127° 53.3' E	Fl.R. period 4s	33 10	3	Red round concrete tower; 26.	
13432 <i>M 4763.7</i>	Nago Wan.	26° 35.0' N 127° 58.9' E	Fl.G. period 3s	39 12	5	White tower; 30.	
13436 <i>M 4763.54</i>	Sinko, breakwater, head.	26° 38.5' N 127° 52.7' E	Fl.R. period 3s	43 13	5	Red tower; 33.	
13440 <i>M 4763.4</i>	Bise Zaki.	26° 42.8' N 127° 52.6' E	Fl.W. period 5s	56 17	7	White round concrete tower; 39.	
13444 <i>M 4763.44</i>	Kouri Shima.	26° 42.6' N 128° 00.6' E	Iso.W. period 6s	174 53	8	White tower; 36.	
13448 <i>M 4763.6</i>	Ie Shima, island, W. head.	26° 43.6' N 127° 45.1' E	Fl.W. period 4s	102 31	7	White round concrete tower; 36.	
13449 <i>M 4763.57</i>	Ie Ko, breakwater, head.	26° 42.2' N 127° 48.2' E	Fl.G. period 3s	56 17	4	White tower; 39.	
13450 <i>M 4763.61</i>	Ryukyu Nakan Si.	26° 40.7' N 127° 49.3' E	Fl.(2)W. period 5s	18 5	5	ISOLATED DANGER BRB, tower, topmark; 16.	
13452 <i>M 4763.64</i>	Minna Shima.	26° 38.8' N 127° 49.2' E	Fl.W. period 3s	89 27	12	White tower; 43.	
	RACON		C(- • - •)		9		(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RYUKYU ISLANDS							
OKINAWA GUNTO:							
13460 <i>M 4739.8</i>	-Aware Saki.	26° 08.4' N 127° 20.5' E	Fl.W. period 8s	318 97	12	White round concrete tower; 30.	
13460.5 <i>M 4739.77</i>	-Breakwater, head.	26° 10.0' N 127° 20.8' E	Fl.R. period 3s	30 9	3	Red tower; 16.	
13461 <i>M 4739.75</i>	-Hirasi.	26° 11.9' N 127° 19.6' E	Fl.(2)W. period 5s	16 5	3	ISOLATED DANGER BRB, beacon, topmark; 17.	
13462 <i>M 4739.85</i>	Tokashiki.	26° 11.9' N 127° 22.4' E	Fl.G. period 3s	52 16	5	White tower; 39.	
13463 <i>M 4739.88</i>	Mae Shima.	26° 11.8' N 127° 26.3' E	Fl.(2)R. period 6s	18 5	3	STARBOARD (B) R, beacon, topmark; 16.	
13464 <i>M 4739.5</i>	Kitabirasi.	26° 13.6' N 127° 20.1' E	Fl.W. period 5s	256 78	5	White tower; 26.	
13466 <i>M 4739.7</i>	Zamami Ko, breakwater.	26° 13.3' N 127° 17.9' E	Fl.R. period 3s	43 13	5	Red tower; 26.	
13467 <i>M 4739.76</i>	Hira-se, breakwater, head.	26° 11.4' N 127° 17.2' E	Fl.R. period 3s	36 11	3	Red tower; 16.	
13467.5 <i>M 4739.763</i>	-Beacon.	26° 11.2' N 127° 16.9' E	Fl.(2)G. period 6s	16 5	3	PORT (B) G, beacon, topmark; 16.	
13468 <i>M 4739.6</i>	Kahi Shima.	26° 13.2' N 127° 17.0' E	Fl.W. period 4s	141 43	5	White round concrete tower; 30.	
13472 <i>M 4739.48</i>	Aguni Sima.	26° 34.6' N 127° 12.7' E	Oc.W. period 4s lt. 3s, ec. 1s	354 108	12	White round concrete tower; 52.	
13476 <i>M 4739.47</i>	Tonaki Shima.	26° 22.4' N 127° 08.5' E	Iso.W. period 8s	49 15	8	White tower; 33.	
13480 <i>M 4739.4</i>	Ogan Misaki.	26° 21.6' N 126° 55.7' E	Fl.W. period 10s	33 10	7	White tower; 30.	
13482 <i>M 4739.42</i>	Nakazato Ko.	26° 21.1' N 126° 49.6' E	Fl.R. period 3s	59 18	7	Red tower; 33.	
13490 <i>M 4739.37</i>	Torisima Ko.	26° 19.7' N 126° 45.0' E	Fl.R. period 3s	16 5	3	STARBOARD (B) R, tower, topmark; 16.	
13491 <i>M 4739.39</i>	-Approach.	26° 20.7' N 126° 44.9' E	Fl.G. period 3s	30 9	3	White tower; 23.	
13492 <i>M 4739.2</i>	Kume Sima.	26° 22.3' N 126° 43.8' E	Fl.(2)W. period 6s	177 54	12	White tower; 69.	
13496 <i>M 4801</i>	Kita-daito Shima.	25° 57.0' N 131° 17.6' E	Fl.W. period 15s	295 90	22	White tower; 72.	
SAKISHIMA GUNTO:							
13500 <i>M 4739</i>	-Hude Iwa.	24° 58.8' N 125° 21.6' E	Fl.W. period 3s	52 16	5	White tower; 36.	
13504 <i>M 4738</i>	Ikema Shima.	24° 56.2' N 125° 14.2' E	Fl.W. period 12s	138 42	18	White tower; 75.	
13506 <i>M 4738.5</i>	Ikema Sima.	24° 55.8' N 125° 15.8' E	Fl.(2)R. period 6s	16 5	3	STARBOARD (B) R, beacon, topmark; 16.	
13508 <i>M 4738.4</i>	Ikema Gyoko.	24° 55.2' N 125° 15.0' E	Fl.R. period 3s	36 11	5	Red tower; 20.	
13510 <i>M 4738.6</i>	Ogami Sa, breakwater.	24° 54.4' N 125° 18.5' E	Fl.R. period 3s	27 8	3	Red tower; 16.	
13513 <i>M 4737.7</i>	Sarahama Ko, breakwater, S. head.	24° 50.2' N 125° 13.0' E	Fl.(2)R. period 6s	49 15	4	Red tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RYUKYU ISLANDS							
13516 <i>M 4737</i>	Agari-Henna Saki.	24° 43.1' N 125° 28.2' E	Al.FI.W.R. period 20s	141 43	18	White octagonal concrete tower; 82.	
13520 <i>M 4737.5</i>	Hirara Ko.	24° 48.8' N 125° 16.7' E	Fl.(2)G. period 7s	39 12	3	White round concrete tower; 31.	
13524 <i>M 4736</i>	Minna Shima.	24° 44.7' N 124° 42.1' E	Fl.W. period 4s	72 22	12	White tower; 43.	
13528 <i>M 4734</i>	Hirakubosaki.	24° 36.7' N 124° 18.9' E	Iso.W. period 6s	243 74	12	White tower; 43.	
13532 <i>M 4733</i>	Ogan Misaki.	24° 27.1' N 124° 04.8' E	Fl.W. period 10s	203 62	12	White round concrete tower; 56.	
13536 <i>M 4732</i>	Ryukyu, Kannon Zaki.	24° 21.9' N 124° 06.7' E	Iso.W. period 6s	66 20	8	White tower; 36.	
13540 <i>M 4734.26</i>	Ishigaki Ko.	24° 19.9' N 124° 07.9' E	Fl.(2)R. period 6s	43 13	4	Red round concrete tower; 30.	
13542 <i>M 4734.15</i>	-Eastward.	24° 19.9' N 124° 09.8' E	Fl.R. period 3s	30 9	3	Red tower; 20.	
13544 <i>M 4734.3</i>	-Outer breakwater, S. head.	24° 20.2' N 124° 08.4' E	Fl.G. period 3s	39 12	4	White round concrete tower; 30.	
13548 <i>M 4734.4</i>	-Entrance to Isigaki.	24° 20.1' N 124° 08.2' E	Fl.(2)G. period 8s	56 17	7	White tower; 52.	
13550 <i>M 4734.5</i>	-Inner breakwater.	24° 20.6' N 124° 08.7' E	Fl.G. period 3s	23 7	3	White tower; 20.	
13560 <i>M 4730</i>	Hatoma Jima.	24° 28.3' N 123° 49.3' E	Fl.W. period 4s	154 47	12	White tower; 52.	
13564 <i>M 4731</i>	Funauke Ko.	24° 21.0' N 132° 42.3' E	Fl.W. period 6s	79 24	12	White tower; 30.	
13568 <i>M 4735</i>	Haterumia Jima.	24° 03.5' N 123° 47.2' E	Iso.W. period 6s	230 70	12	White tower; 52.	
13570 <i>M 4735.2</i>	-NW. breakwater.	24° 04.2' N 123° 46.1' E	Fl.R. period 3s	46 14	4	Red tower; 31.	
13576 <i>M 4728.4</i>	Yonaguni Jima.	24° 27.7' N 123° 02.6' E	Fl.W. period 8s	276 84	12	White tower; 39.	
13580 <i>M 4728</i>	Yonaguni Jima, Irii Saki.	24° 26.9' N 122° 56.2' E	Fl.W. period 5s	246 75	22	White round metal tower; 66.	F.W. auxiliary light.
13586 <i>M 4728.3</i>	--W. extension, head.	24° 27.2' N 122° 56.0' E	Fl.G. period 3s fl. 1s, ec. 2s	52 16	5	White tower; 33.	
TAIWAN							
13588 <i>P 4690</i>	P'eng-chia Hsu (T).	25° 37.9' N 122° 04.8' E	Fl.W. period 15s	480 146	25	White round brick tower; 85.	Within 2 miles the light may be obscured from 264° to 316°.
13592 <i>P 4670</i>	Fu-kuei Chiao.	25° 17.9' N 121° 32.2' E	Fl.(2)W. period 15s	103 31	27	White octagonal concrete tower, black bands; 46.	Visible 069°-272°. Horn: 1 bl. ev. 30s (bl. 3s, si. 27s).
13596 <i>P 4672</i>	Yeh-liu Pan-tao.	25° 12.8' N 121° 41.9' E	L.FI.W. period 10s fl. 3s, ec. 7s	325 99	17	White concrete column, tripod; 36.	
13600 <i>P 4672.2</i>	Chi-Lung Tao.	25° 11.6' N 121° 47.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	621 189	14	White octagonal concrete tower, black stripes; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TAIWAN							
CHI-LUNG:							
13604 <i>P 4674</i>	-Wan-Jentui Pi.	25° 09.3' N 121° 44.9' E	Mo.(A)W. period 7s fl. 0.5s, ec. 1.5s fl. 1s, ec. 4s	132 40	16	White round brick tower; 36.	Visible 151°-347°.
13612 <i>F 4672.4</i>	-Shei-ho Power Plant AVIATION LIGHT.	25° 09.4' N 121° 44.3' E	Fl.R. period 5s	646 197	12	Chimney; 669.	Two sets of lights vertically disposed.
13616 <i>P 4675</i>	-E. breakwater, head.	25° 09.6' N 121° 45.3' E	Fl.G. period 3s fl. 0.6s, ec. 2.4s	54 16	10	Green octagonal concrete column; 36.	
13620 <i>P 4676</i>	-W. breakwater, head.	25° 09.5' N 121° 45.1' E	Fl.R. period 3s fl. 0.6s, ec. 2.4s	54 16	8	Red octagonal concrete tower; 36.	Radar reflector.
13624 <i>P 4675.5</i>	-E. breakwater extension.	25° 09.7' N 121° 45.3' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	72 22	14	Green round concrete tower; 56.	
13628 <i>P 4676.6</i>	-E. inner breakwater, head.	25° 09.4' N 121° 45.4' E	Fl.G. period 6s fl. 0.5s, ec. 5.5s	35 11	8	Green round concrete column; 23.	Fl.G. light marks stranded wreck 195 meters SSW. 4 Fl.G. lights mark stranded wreck 330 meters SE.
13632 <i>P 4677</i>	-W. inner breakwater, head.	25° 09.3' N 121° 45.2' E	Fr.R.	98 30	8	Blue round tower, red roof; 85.	
13636 <i>P 4679</i>	-An Lan.	25° 08.8' N 121° 45.4' E	Oc.G. period 3s	35 11	8	Green round concrete column; 23.	
13640 <i>P 4678</i>	-Yu Chiang, Entrance.	25° 09.1' N 121° 45.8' E	F.G.	24 7	9	Green round concrete column; 20.	Fishing light.
13656 <i>P 4683</i>	-Pachimen Log Basin.	25° 09.4' N 121° 46.5' E	Iso.G. period 4s	35 11	5	White round concrete column; 23.	
PA-TOU:							
13658 <i>P 4684</i>	-W. breakwater, head.	25° 08.9' N 121° 47.4' E	Fl.R. period 4s	39 12	9	Red column; 23.	
13659 <i>P 4685</i>	-E. breakwater, head.	25° 08.9' N 121° 47.5' E	Fl.G. period 4s fl. 1s, ec. 3s	46 14	9	Green tower; 30.	
13660 <i>P 4686</i>	-Inner N. breakwater, head.	25° 08.8' N 121° 47.5' E	Fl.G. period 4s	26 8	3	Green column; 20.	
13661 <i>P 4687</i>	-Inner S. breakwater, head.	25° 08.8' N 121° 47.4' E	Fl.R. period 4s	30 9	3	Red column; 20.	
13662 <i>P 4688</i>	-Quay.	25° 08.7' N 121° 47.5' E	Fl.R. period 4s	26 8	3	Red column; 20.	Fishing light.
SHEN AO OIL HARBOR:							
13664 <i>P 4692.4</i>	-Shen-ao, bay, SE. side.	25° 07.6' N 121° 49.7' E	Oc.G. period 11s	43 13	3	White beacon; 26.	
13668 <i>P 4692.2</i>	-Entrance Range, front.	25° 07.5' N 121° 49.2' E	F.G.	59 18	3	White column.	
13672 <i>P 4692.21</i>	--Rear, 228° from front.	25° 07.4' N 121° 49.2' E	F.G.	70 21	3	White column; 75.	
13676 <i>P 4693</i>	Pi-tou Chiao.	25° 07.7' N 121° 55.4' E	Oc.W. period 11s lt. 6s, ec. 5s	214 65	17	White round concrete tower; 39.	Visible 090°-325°.
13677.2 <i>P 4693.4</i>	-Beacon 1.	25° 05.8' N 121° 55.1' E	Fl.W. period 4s			Pole.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TAIWAN							
13678 <i>P 4693.1</i>	Observation platform.	25° 06.9' N 122° 02.5' E	Fl.W. period 5s	10 3		Platform.	
13680 <i>P 4694</i>	San-tiao Chiao.	25° 00.5' N 122° 00.1' E	Fl.(2)W.R. period 28s	331 101	W. 24 R. 20	White round concrete tower; 52.	R. 011°-021°, W.-011°.
13682 <i>P 4697</i>	Kui-shan Tao.	24° 50.6' N 121° 56.4' E	Q.(3)W. period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 7.5s	39 12	9		
SU-AO CHIANG:							
13684 <i>P 4700</i>	-Pei Chiao.	24° 36.0' N 121° 53.1' E	Fl.W.R. period 7s fl. 1s, ec. 6s	185 56	W. 16 R. 12	White square concrete tower; 26.	W. 164°-210°, R.-240°, W.-268°, R.-303°, W.-073°.
	-RACON		G(- - •)		15		(3 & 10cm).
13688 <i>P 4700.5</i>	-N. outer breakwater, head.	24° 35.7' N 121° 52.9' E	Q.(2)R. period 5s	70 21	10	Red round concrete tower; 59.	
13692 <i>P 4700.6</i>	-S. outer breakwater, head.	24° 35.6' N 121° 52.8' E	Fl.(2)G. period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 3.5s	66 20	11	Green round concrete tower; 59.	
13696 <i>P 4701</i>	-On heights about 2.8 kilometers W. of Pei Chiao.	24° 36.3' N 121° 51.4' E	Oc.W.R.G. period 3s lt. 2s, ec. 1s	240 73	W. 12 R. 9 G. 9	White metal framework tower; 20.	R. 284°-292°, W.-295°, G.-309°.
13700 <i>P 4701.2</i>	-Breakwater, N. head.	24° 35.8' N 121° 52.1' E	Fl.G. period 5s fl. 1s, ec. 4s	44 13	11	Green concrete column; 33.	
13704 <i>P 4701.22</i>	-Breakwater, S. head.	24° 35.4' N 121° 52.1' E	Fl.R. period 4s	13 4	8	Red pile; 7.	
13712 <i>P 4701.25</i>	-Training Wall, head.	24° 35.9' N 121° 51.6' E	Fl.R. period 4s				
13716 <i>P 4701.15</i>	-Suao Kang, N. inner breakwater.	24° 35.8' N 121° 52.4' E	Fl.R. period 2.5s	69 21	8	Red octagonal concrete column; 62.	Q.R. lights mark entrance to Pei-fang Wan, close NW.
13718 <i>P 4701.7</i>	-Nan-fang Wan, Pier 13.	24° 35.2' N 121° 52.1' E	Fl.R. period 4s	75 23	1	Beacon, triangular daymark point up; 75.	
13719	--S2.	24° 35.2' N 121° 52.0' E	F.G.				
13721 <i>P 4702</i>	Nan-fang-ao, breakwater, W.	24° 35.1' N 121° 52.1' E	F.R.	16 5	7	Red concrete column; 16.	
13722 <i>P 4703</i>	-E.	24° 35.1' N 121° 52.2' E	F.G.	16 5	7	Green concrete column; 16.	
13725 <i>P 4704</i>	Ho-p'ing Hsi, front.	24° 18.4' N 121° 45.8' E	W.R.G.	69 21	16	Red and white beacon; 46.	F.R. 005°-007°30', Al.R.G.-009°30', F.G.-010°30', Al.W.G.-012°30', F.W.-015°. Range 2M by day.
13725.5 <i>P 4704.1</i>	-Rear, 010° from front.	24° 19.2' N 121° 45.9' E	Q.G.	167 51	17	Red and white metal column; 197.	
13726 <i>P 4704.2</i>	-W. Breakwater, head.	24° 17.6' N 121° 45.5' E	Fl.(2)G. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	69 21	10	Green beacon; 43.	Fl.(2)R. 8s 25m 13M light on E. Breakwater.
13728 <i>P 4705</i>	Chi-lai Pi.	24° 00.9' N 121° 38.6' E	Iso.W. period 6s	102 31	17	White pentagonal concrete tower; 43.	Visible 150°-024°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TAIWAN							
HUA-LIEN ANCHORAGE:							
13732 <i>P 4706</i>	-Hua-Lien.	23° 58.5' N 121° 36.8' E	Fl.(3)G. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 7s		10	White square metal framework tower; 92.	Visible 232°-019°.
13736 <i>P 4708</i>	-Hua-lien Range, front.	23° 59.7' N 121° 38.3' E	F.G.	39 12	8	White concrete column, red triangular daymark point up; 39.	
13740 <i>P 4708.1</i>	--Rear, 600 meters 023°30' from front.	24° 00.0' N 121° 38.4' E	F.R.	79 24	8	Red square concrete column, white triangular daymark point down; 69.	
13746 <i>P 4709.5</i>	-Mei-Lun.	23° 59.6' N 121° 38.2' E	F.G.	7 2	2		
13747.5 <i>P 4710</i>	Mei-Lun boat basin.	23° 59.9' N 121° 38.3' E	Fl.R. period 4s	3 1	2	Red metal pole; 7.	
13748 <i>P 4709</i>	-E. breakwater, S. head.	23° 58.3' N 121° 37.8' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	43 13	8	Red round concrete column; 36.	
13749 <i>P 4709.1</i>	-E. breakwater, head.	23° 58.2' N 121° 37.7' E	Fl.R. period 4s fl. 1s, ec. 3s	72 22	11	Red round concrete tower; 75.	
13750 <i>P 4709.3</i>	-W. breakwater, head.	23° 58.4' N 121° 37.6' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	59 18	12	Green round concrete column; 36.	
	-RACON		D(- • •)		15		(3 & 10cm).
13752 <i>P 4714</i>	San-hsien-t'ai.	23° 07.6' N 121° 25.3' E	Fl.W. period 6s fl. 0.6s, ec. 5.4s	194 59	9	White square concrete tower; 23.	Visible 137°-039°.
13756 <i>P 4716</i>	Ch'eng-kung Anchorage, E. breakwater.	23° 05.8' N 121° 22.8' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	12	Red round concrete tower; 33.	
13760 <i>P 4724</i>	Huo-shao Tao.	22° 40.6' N 121° 28.0' E	Fl.(2)W. period 20s	151 46	26	White round concrete tower; 108.	
13764 <i>P 4725</i>	Lan Yu.	22° 04.9' N 121° 30.2' E	Fl.(4)W. period 24s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 11.7s	702 214	26	White round concrete tower; 49.	Obscured by high land of island.
13768 <i>P 4602</i>	O-luan Pi.	21° 54.1' N 120° 51.3' E	Fl.W. period 10s fl. 1s, ec. 9s	177 54	27	White round metal tower, gallery; 69.	Visible 234°-099°. Fl.G. 4s 13m marks small harbor 4.5 miles N. Signal station.
13769 <i>P 4603.04</i>	Hou-Pi Hu Fishing Harbor.	21° 56.6' N 120° 44.7' E	Fl.(3)G. period 10s			White concrete post.	
13769.5 <i>P 4603.06</i>	-N. side.	21° 56.6' N 120° 44.8' E	Fl.R. period 4s			White concrete post.	
13770 <i>P 4606</i>	Fang-liao Fishing Harbor.	22° 21.8' N 120° 35.4' E	F.W.	52 16	10	Red concrete tower; 46.	
13776 <i>P 4612</i>	Liu-ch'iu Hsu.	22° 19.7' N 120° 22.0' E	L.Fl.W. period 8s fl. 2s, ec. 6s	285 87	14	White round concrete tower; 39.	Visible 226°-217°.
13780 <i>P 4610</i>	-Breakwater, head.	22° 21.2' N 120° 23.0' E	Fl.R. period 3s	13 4	9	Red pile; 7.	Fishing light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TAIWAN							
13784	Ta-Lin-Pu Terminal Buoy No 1.	22° 30.2' N 120° 18.4' E	Fl.(2)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s			SBM.	Horn: 1 bl. ev. 20s.
13784.2	-No 2.	22° 29.7' N 120° 17.2' E	Fl.(4)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 8s			SBM.	Horn: 1 bl. ev. 20s. Radar reflector.
13784.4	-No 3.	22° 28.3' N 120° 17.4' E	Mo.(A)W. period 15s			SBM.	Radar reflector.
13784.6	-No 4.	22° 28.8' N 120° 18.6' E	Fl.(2)W. period 15s fl. 1s, ec. 1s fl. 2s, ec. 11s			SBM.	
13786	Ta-lin p'u, N. breakwater, head.	22° 31.8' N 120° 19.5' E	Fl.W. period 3s	39 12	6	Steel post; 3.	
13786.1	-S. breakwater.	22° 31.8' N 120° 19.5' E	Fl.R. period 3s	39 12	4	Steel post; 3.	
KAO-HSUING CHIANG:							
13788 P 4624.4	-S. entrance, N. breakwater, head.	22° 33.1' N 120° 18.0' E	Fl.(3)G. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	52 16	15	Green square concrete tower; 43.	N. mole marked by three 2 F.G. (vert.) 6M lights.
	-RACON		Y(- • - -)		15		(3 & 10cm).
13792 P 4624.42	-W. breakwater, head.	22° 32.6' N 120° 17.2' E	Fl.R. period 6s fl. 1.5s, ec. 4.5s	88 27	14	Red conical concrete tower; 66.	
13793 P 4624.5	-Range, front.	22° 33.3' N 120° 19.8' E	F.R.G. (vert.)	125 38	5	Beacon, triangular daymark point up; 121.	
13793.1 P 4624.51	--Rear, 490 meters 079°30' from front.	22° 33.3' N 120° 20.1' E	F.R.G. (vert.)	157 48	5	Beacon, triangular daymark point down; 121.	
13793.5 P 4623.72	-Fishing harbor, SE. side.	22° 34.2' N 120° 18.7' E	Fl.R. period 4s	10 3	5	Red structure; 10.	
13793.55 P 4623.71	--NW. side.	22° 34.2' N 120° 18.6' E	Fl.G. period 4s	10 3	5	Green structure; 10.	
13794 P 4621.52	-Container Terminal No 1.	22° 36.6' N 120° 17.0' E	Q.R.	89 27	3	White column; 82.	
13794.1 P 4621.5	-Dock No 142 Range, front.	22° 36.8' N 120° 16.4' E	Q.R.		3		
13794.2 P 4621.51	--Rear.	22° 36.7' N 120° 16.5' E	Fl.R. period 4s	13 4	3	Black beacon, red band, black double ball topmark; 3.	
13796 P 4618	-Ch'i-hou Shan.	22° 36.9' N 120° 15.9' E	Fl.(4)W. period 30s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 14.6s	184 56	25	White octagonal brick tower; 49.	Visible 320°-158°. Traffic signals.
13800 P 4620	-N. entrance, N. breakwater, head.	22° 37.3' N 120° 15.4' E	Iso.G. period 4s	43 13	16	Green round concrete column; 45.	
	-RACON		G(- - •)		15		(3 & 10cm).
13804 P 4621	-S. breakwater, head.	22° 37.1' N 120° 15.4' E	Fl.R. period 6s fl. 0.8s, ec. 5.2s	43 13	12	Red round concrete column; 46.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TAIWAN							
13806 <i>P 4622</i>	-Narrows, N. side.	22° 37.0' N 120° 16.0' E	F.G.	36 11	5	Black beacon, red band, black double ball topmark; 16.	2 F.G. (vert.) shown from W. end of N. side.
13806.2 <i>P 4622.2</i>	--No 2.	22° 37.0' N 120° 16.0' E	F.G.	23 7	5	ISOLATED DANGER BRB, beacon, topmark; 16.	
13807 <i>P 4623.4</i>	--S. side.	22° 37.0' N 120° 15.9' E	F.R.G.	23 7	5	Black beacon, red band, black double ball topmark; 16.	F.R. shown from W. end of S. side. 2 F.R. (vert.) shown from E. end of S. side.
13808 <i>P 4625</i>	Tso-ying.	22° 41.8' N 120° 15.3' E	Fl.W. period 6s	61 19	9		Aero Radiobeacon 5.5 miles NNE.
13812 <i>P 4625.2</i>	-S. breakwater, head.	22° 41.8' N 120° 15.1' E	Fl.R. period 4s	59 18	6		
13816 <i>P 4625.4</i>	-Spur, head.	22° 42.0' N 120° 15.0' E	Fl.R. period 5s	46 14	5		
TSO-YING:							
13820 <i>P 4626</i>	-Entrance Range, front.	22° 41.4' N 120° 16.5' E	F.R.	61 19	8		
13824 <i>P 4626.1</i>	--Rear, 570 meters 103°48' from front.	22° 41.3' N 120° 16.8' E	F.G.	106 32	3		
13824.5 <i>P 4626.2</i>	-N. breakwater, head.	22° 43.5' N 120° 15.0' E	Fl.G. period 5s	33 10	3	Green four-sided concrete post; 33.	
13824.6 <i>P 4626.25</i>	-S. breakwater, head.	22° 43.5' N 120° 14.9' E	Fl.R. period 4s	33 10	3	Red column; 33.	
13825 <i>P 4626.3</i>	-Tug berth.	22° 48.4' N 120° 12.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	74 23	17	White round concrete tower; 65.	
13825.1 <i>P 4626.4</i>	-Breakwater, head.	22° 49.2' N 120° 11.4' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	92 28	9	Red octagonal concrete tower; 69.	
13825.12 <i>P 4626.43</i>	-N. breakwater, head.	22° 49.1' N 120° 11.8' E	Fl.G. period 4s	82 25	9	Green octagonal concrete tower; 69.	
13826 <i>P 4626.5</i>	-Unloading platform.	22° 48.6' N 120° 11.8' E	Mo.(U)W. period 12s	39 12	8	Metal pole, control tower.	Mo.(U)W. 12s mark dolphins 220 meters N. and 280 meters S. Horn: 1 bl. ev. 20s (bl. 4s, si. 16s).
AN-P'ING-CHIANG:							
13828 <i>P 4628</i>	-N. of N. entrance.	22° 59.5' N 120° 08.8' E	Fl.(3)W. period 20s	69 21	15	White metal framework tower; 72.	Visible 305°-145°.
13828.1 <i>P 4628.1</i>	-N. entrance, N. breakwater, head.	22° 59.1' N 120° 08.7' E	Fl.G. period 4s	46 14	12	Concrete column; 33.	
13828.2 <i>P 4628.15</i>	--S. breakwater, head.	22° 59.0' N 120° 08.7' E	Fl.R. period 4s	39 12	12	Concrete column; 33.	
13828.5 <i>P 4628.2</i>	-Harbor, NE.	22° 59.0' N 120° 08.9' E	Fl.Y. period 4s fl. 0.5s, ec. 3.5s			Gray concrete column.	
13829 <i>P 4629.24</i>	-Anping Harbor, N. outer breakwater, head.	22° 57.8' N 120° 08.8' E	Iso.G. period 3s	72 22	17	Green round concrete column; 75.	
13832 <i>P 4629</i>	--N. breakwater.	22° 58.0' N 120° 09.3' E	Fl.W. period 4s fl. 1.5s, ec. 2.5s	46 14	8	White metal post; 43.	
13834 <i>P 4629.23</i>	--S. outer breakwater, head.	22° 57.6' N 120° 08.9' E	Iso.R. period 3s	77 24	13	Red octagonal concrete tower; 75.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TAIWAN							
13836 <i>P 4629.2</i>	--S. breakwater.	22° 57.9' N 120° 09.4' E	Fl.R. period 6s fl. 1.5s, ec. 4.5s	52 16	8	Red metal post; 42.	
13837 <i>P 4629.3</i>	--S. wharf, W. end.	22° 58.2' N 120° 09.8' E	F.R.	52 16	6	Red and white metal post; 33.	
13837.2 <i>P 4629.35</i>	---Middle.	22° 58.2' N 120° 09.9' E	F.R.	52 16	6	Red and white metal post; 33.	
13837.4 <i>P 4629.355</i>	---E. end.	22° 58.2' N 120° 10.0' E	F.R.	52 16	6	Red and white metal post; 33.	
13838 <i>P 4629.25</i>	--N. wharf, W. end.	22° 58.2' N 120° 09.8' E	F.G.	52 16	6	Green and white metal post; 33.	
13838.2 <i>P 4629.26</i>	---Middle.	22° 58.3' N 120° 09.9' E	F.G.	52 16	6	Green and white metal post; 33.	
13838.4 <i>P 4629.27</i>	---W. end.	22° 58.3' N 120° 09.9' E	F.G.	52 16	6	Green and white metal post; 33.	
13839	--N. Channel.	22° 58.5' N 120° 09.9' E	Fl.G. period 4s				Fl.G. 4s lights mark channel.
13839.5 <i>P 4629.21</i>	-Harbor, SE.	22° 57.2' N 120° 10.3' E	Fl.Y. period 4s fl. 0.5s, ec. 3.5s			Gray concrete column.	
13840 <i>P 4630</i>	Kuo-sheng Kang.	23° 06.0' N 120° 02.2' E	Fl.(2)W. period 15s fl. 1.5s, ec. 3s fl. 1.5s, ec. 9s	105 32	17	White metal framework tower, black bands; 108.	Fl.W. 4s, Fl.R. 4s marks end of peninsula 1.3 miles NNE.
13844 <i>P 4658.4</i>	Wengangdui.	23° 26.0' N 120° 02.0' E	Fl.W. period 4s fl. 0.6s, ec. 3.4s	191 58	11	White four-sided metal framework tower, red bands; 197.	
13852 <i>P 4659.5</i>	Fong-Yuan.	23° 58.3' N 120° 19.4' E	Iso.W. period 10s	112 34	17	White octagonal tower, black stripes; 121.	
	RACON		Q(- - • -)		15		(3 & 10cm).
13853 <i>P 4659.45</i>	-Wang-Kung, observation tower.	24° 00.1' N 120° 16.4' E	Mo.(U)W. period 15s	302 92	10	Red and white metal conical tower; 304.	
13854 <i>P 4659.415</i>	Mai-liao Kang, S. breakwater.	23° 46.8' N 120° 09.7' E	Fl.R. period 3s fl. 1s, ec. 2s	80 24	13	Red octagonal concrete tower; 75.	F.R. 12m 10M light marks breakwater SE.
	RACON		N(- •)		15		(3 & 10cm).
13855 <i>P 4659.412</i>	-W. breakwater.	23° 46.8' N 120° 09.1' E	Fl.G. period 3s fl. 1s, ec. 2s	75 23	16	Green round concrete column: 72.	
	RACON		X(- • • -)		15		(3 & 10cm).
13855.1 <i>P 4659.428</i>	-W. inner breakwater.	23° 47.2' N 120° 09.6' E	Oc.G. period 5s lt. 3s, ec. 2s	46 14	12	Green metal column; 43.	
			Q.G.				
P'ENG-HU-LIEH-TAO:							
13856 <i>P 4658</i>	-Mu-t'ou Hsu.	23° 47.2' N 119° 36.0' E	Fl.W. period 20s fl. 1.2s, ec. 18.8s	160 49	27	White round metal tower, black bands; 131.	
13858	-Hsiao ch'ih-chiao Range, front.	23° 35.6' N 119° 30.8' E	F.G.	66 20	3		
13858.1	--Rear, 371 meters 317° from front.	23° 35.8' N 119° 30.6' E	F.R.	85 26	3		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TAIWAN							
13860 <i>P 4654</i>	-Hai-kan Yen.	23° 34.8' N 119° 32.5' E	Fl.W. period 6s fl. 0.6s, ec. 5.4s	29 9	6	White metal framework tower; 25.	
13872 <i>P 4652</i>	-Yu-weng Tao.	23° 33.8' N 119° 28.1' E	L.Fl.(2)W. period 30s	199 61	25	White round metal tower; 36.	Horn: 1 bl. ev. 30s (bl. 3s, si. 27s).
13875	-Chi-lung Yu.	23° 32.4' N 119° 31.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	46 14	9		
	-RACON		D(- • •)		15		
13878	-Chu-mu-shui Range, front.	23° 31.5' N 119° 34.9' E	F.G.	30 9	3		
13878.1	--Rear, 561 meters 137° from front.	23° 31.3' N 119° 35.2' E	F.R.	59 18	3		
13880 <i>P 4650</i>	-Ch'a-mou Hsu.	23° 32.1' N 119° 43.5' E	Fl.W. period 6s fl. 0.4s, ec. 5.6s	81 25	9	White octagonal brick tower, black stripes; 43.	Radar reflector
13884 <i>P 4640</i>	-Ch'u-t'ou Hsu.	23° 15.6' N 119° 40.2' E	L.Fl.W. period 12s fl. 2s, ec. 10s	220 67	21	White round concrete structure, black bands; 79.	
13888 <i>P 4642</i>	-Chi-mei Yu on, Ta Hsu, S. head.	23° 11.4' N 119° 25.7' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	134 41	11	White round concrete tower; 26.	Visible 228°-158°.
13892 <i>P 4646</i>	-Hua Hsu, island, W. side.	23° 24.2' N 119° 19.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	212 65	10	White round concrete tower; 39.	
13892.3	Mai Liao Refinery.	23° 47.5' N 120° 09.8' E	Fl.R. period 4s				Fl.R. 4s marks S. breakwater 1.3 miles SSE.
13892.5	Chang Sheng.	24° 11.0' N 120° 25.5' E	Fl.R. period 4s				Marks wreck Chang Sheng. Lights on bow and stern.
13893 <i>P 4659.7</i>	Taichung Power Plant, S. training wall, head.	24° 12.9' N 120° 27.7' E	Fl.R. period 4s	36 11		Red concrete tower; 10.	Fl.R. 4s marks center of S. wall and head of N. training wall.
13896 <i>P 4660.15</i>	Taichung Kan.	24° 17.3' N 120° 31.4' E	Fl.(3)W. period 30s	197 60	27	White concrete silo; 207.	
13900 <i>P 4660.4</i>	Taichung Harbor.	24° 18.0' N 120° 29.2' E	Fl.G. period 4s fl. 0.8s, ec. 3.2s	66 20	17	Green round concrete tower; 59.	
	RACON		M(- -)		15		(3 & 10cm).
13901 <i>P 4660.48</i>	-Entry Channel Range, front.	24° 17.7' N 120° 29.9' E	W.R.G.	36 11	W. 14 R. 11 G. 11	Yellow hexagonal concrete tower; 52.	F.R. 057°30'-062°30', F.W.- 067°30', F.G.-072°30'.
			F.Y.		11		
13901.1 <i>P 4660.481</i>	--Rear, 500 meters 065° from front.	24° 17.8' N 120° 30.2' E	F.Y.	121 37	11	Yellow metal tower; 98.	
13902 <i>P 4660.5</i>	-N. breakwater, jetty.	24° 17.9' N 120° 30.3' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	10 3	6	Red round concrete tower; 26.	
13904 <i>P 4660.6</i>	-S. breakwater.	24° 17.4' N 120° 30.0' E	Fl.R. period 2s	62 19	14	Red round concrete tower; 66.	
	-RACON		F(• • - •)		15		(3 & 10cm).
13906 <i>P 4660.94</i>	-Main Channel Range, front.	24° 17.0' N 120° 31.4' E	W.R.G.	141 43	17	Red and white square metal tower, yellow triangular daymark point up; 138.	F.R. 103°-112°, F.W.-116°30', F.G.-121°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TAIWAN							
13907 <i>P 4660.941</i>	--Rear, 800 meters 114°15' from front.	24° 16.8' N 120° 31.9' E	F.W.	223 68	10	Red and white four-sided metal tower, yellow triangular daymark point down; 220.	Strobe.
13908 <i>P 4660.64</i>	-Fishing harbor, outer breakwater, head.	24° 17.5' N 120° 30.6' E	Fl.G. period 6s fl. 0.6s, ec. 5.4s	29 9	8	Green round concrete column; 23.	
13909 <i>P 4660.66</i>	--Inner breakwater.	24° 17.5' N 120° 30.7' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	26 8	8	Green round concrete column; 23.	
13909.5 <i>P 4660.67</i>	--E. inner breakwater.	24° 17.5' N 120° 30.8' E	F.W.	56 17		Yellow tower; 26.	Fishing light.
13912 <i>P 4660.7</i>	-N. inner breakwater.	24° 17.3' N 120° 30.8' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	36 11	10	Red round concrete column; 33.	
13916 <i>P 4660.8</i>	-S. inner breakwater.	24° 17.1' N 120° 30.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	39 12	10	Red round concrete tower; 36.	
13918 <i>P 4660.92</i>	-W. basin, E. arm.	24° 17.3' N 120° 30.9' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	20 6	8	Red round concrete column; 23.	
13919 <i>P 4660.9</i>	--W. arm.	24° 17.3' N 120° 30.9' E	Fl.G. period 4s	43 13	8	Green concrete tower; 23.	
13920 <i>P 4660.93</i>	-Taichung Harbor Craft Basin, W. breakwater.	24° 17.2' N 120° 31.0' E	Fl.G. period 4s fl. 1s, ec. 3s	20 6	8	Green round concrete column; 23.	
13920.1 <i>P 4660.932</i>	--E. breakwater.	24° 17.2' N 120° 31.1' E	Fl.R.	43 13	8	Red concrete column; 23.	
13921.1 <i>P 4660.675</i>	-Collier Channel N. Range, front.	24° 17.4' N 120° 31.1' E	F.G.	69 21	9	Orange metal tower, green triangular daymark point up; 59.	
13921.11 <i>P 4660.676</i>	--Rear, 601 meters 021°32' from front.	24° 17.7' N 120° 31.3' E	F.G.	135 41	9	Orange metal tower, red triangular daymark point down; 92.	
13921.2 <i>P 4660.617</i>	-Collier Channel S. Range, front.	24° 14.2' N 120° 29.8' E	F.G.	125 38	9	Orange metal tower, green triangular daymark point up; 92.	
13921.21 <i>P 4660.618</i>	--Rear, 864 meters 201°32' from front.	24° 13.8' N 120° 29.6' E	F.G.	236 72	10	Orange metal chimney; 223.	
13921.3 <i>P 4660.614</i>	-Coal Wharf Range, front.	24° 14.1' N 120° 29.0' E	F.G.	43 13	3	Orange metal pillar, green triangular daymark point up; 33.	
13921.31 <i>P 4660.615</i>	--Rear, 100 meters 231°30' from front.	24° 14.2' N 120° 29.0' E	F.G.	59 18	3	Orange metal pillar, red triangular daymark point up; 46.	
13921.4 <i>P 4660.62</i>	-S. Pier Range, front.	24° 15.2' N 120° 30.5' E	F.G.	43 13	3	Orange metal pillar, green triangular daymark point up; 33.	
13921.41 <i>P 4660.621</i>	--Rear, 100 meters 051°30' from front.	24° 15.3' N 120° 30.5' E	F.G.	59 18	3	Orange metal pillar, red triangular daymark point down; 46.	
13921.5 <i>P 4660.61</i>	-W. Pier Range, front.	24° 15.1' N 120° 29.6' E	F.G.	43 13	9	Orange metal tower, green triangular daymark point up; 33.	
13921.51 <i>P 4660.611</i>	--Rear, 116 meters 021°30' from front.	24° 15.1' N 120° 29.6' E	F.G.	79 24	9	Orange metal tower, red triangular daymark point down; 46.	
13922 <i>P 4660.63</i>	China American Petrochemical Co. Ltd. E. AVIATION LIGHT.	24° 15.9' N 120° 29.8' E	Fl.W. period 1.5s	328 100	6	Round column; 312.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TAIWAN							
13922.1 <i>P 4660.635</i>	-W. AVIATION LIGHT.	24° 15.9' N 120° 29.9' E	Fl.W. period 1.5s	246 75		Round column; 230.	
13940 <i>P 4660.2</i>	Taichung Harbor, N. jetty.	24° 18.8' N 120° 31.2' E	Fl.(3)W. period 10s fl. 0.4s, ec. 0.9s fl. 0.4s, ec. 0.9s fl. 0.4s, ec. 7s	43 13	7	White round concrete tower, red bands; 39.	
13942	Tung-shiao, power plant, prohibited area.	24° 30.0' N 120° 39.3' E	2 Fl.R. (vert.) period 5s	36 11	3		Five 2 Fl.R. 5s (vert.) lights mark pipelines.
13944 <i>P 4661</i>	Pai-sha-t'un.	24° 33.3' N 120° 43.9' E	FR.				
13946 <i>P 4661.4</i>	Observation Tower.	24° 42.4' N 120° 49.9' E	Fl.W. period 1.7s	49 15	4	Red and white metal beacon tower; 288.	
13948 <i>P 4661.5</i>	AVIATION LIGHT (Hsinchu).	24° 48.9' N 120° 56.5' E	Al.FI.W.G. period 9.5s W. fl. 1s, ec. 4s G. fl. 0.5s, ec. 4s		15		
13949 <i>P 4661.6</i>	Hsinchu, S. breakwater.	24° 51.1' N 120° 54.8' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	45 14	4	Red round concrete tower; 16.	
13950 <i>P 4661.7</i>	-N. breakwater.	24° 51.2' N 120° 54.8' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	45 14	4	White round concrete tower; 20.	
13952 <i>P 4662</i>	Pai-sha-Chia (Hakusha Ko).	25° 02.5' N 121° 04.6' E	Al.FI.W.R. period 20s W. fl. 0.2s, ec. 9.8s R. fl. 0.2s, ec. 9.8s	122 37	W. 26 R. 23	White round brick tower; 92.	Visible 055°-235°. Partially obscured 075°-078°.
13960 <i>P 4664</i>	Tan-Shui Kang.	25° 10.6' N 121° 25.2' E	L.FI.W. period 8s fl. 2s, ec. 6s	115 35	17	White square metal tower; 108.	
13960.05 <i>P 4663.2</i>	-Shoal Warning LT7.	25° 08.8' N 121° 19.8' E	Q.(2)W. period 5s	59 18	10	Black metal post.	
13960.1 <i>P 4663.4</i>	-N. outer breakwater, head.	25° 09.3' N 121° 21.5' E	Fl.G. period 5s fl. 1s, ec. 4s	56 17	12	Green round concrete tower; 52.	
	-RACON		T(-)				
13960.13 <i>P 4663.5</i>	--SW. corner.	25° 09.4' N 121° 22.3' E	Fl.(2)G. period 5s	30 9	10	Green metal post; 23.	
13960.17 <i>P 4663.25</i>	-Hsia-ku-tzu.	25° 08.1' N 121° 22.0' E	Iso.W. period 3s			White column; 141.	
13960.18 <i>P 4663.26</i>	-S. breakwater, SW. side.	25° 08.3' N 121° 22.0' E	Fl.G. period 4s	13 4			
13960.19 <i>P 4663.27</i>	--W. side.	25° 08.5' N 121° 21.8' E	Fl.Y. period 4s	16 5			
13960.2 <i>P 4663.3</i>	--Head.	25° 09.0' N 121° 21.7' E	Fl.R. period 5s			Red round concrete tower; 55.	
			Fl.R. period 4s	61 19	15		
13960.62 <i>P 4663.65</i>	-S. inner breakwater, NW. head.	25° 09.3' N 121° 23.0' E	Fl.R. period 4s	13 4			
13961.9 <i>P 4664.5</i>	-Pa-li Ocean , Outfall pipeline.	25° 09.8' N 121° 24.6' E	FR.		19	White metal column; 62.	Visible 135°-145°.
13962 <i>P 4665.2</i>	-Fishing harbor, N. side.	25° 11.0' N 121° 24.3' E	Fl.G. period 4s		8	Green tower; 20.	
13962.5 <i>P 4665</i>	--S. side.	25° 11.0' N 121° 24.3' E	Fl.R. period 4s		8	Red column; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TAIWAN							
13962.8 <i>F 4665.5</i>	--Inner entrance, N. side.	25° 11.0' N 121° 24.5' E	FI.G. period 4s			8	White column; 20.
13962.9 <i>P 4665.4</i>	--S. side.	25° 11.0' N 121° 24.5' E	FI.R. period 4s			8	Red column; 20.
13964 <i>P 4666.5</i>	-N. side.	25° 10.2' N 121° 26.3' E	FR.		48 15	9	Red square metal framework structure; 43.

Section 9

Philippines and Pacific Coast of Russia

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PHILIPPINES							
13985 <i>F 2819</i>	Balintang Island.	19° 57.6' N 122° 08.5' E	Fl.W. period 5s			12 Concrete structure.	
13988 <i>F 2822</i>	Batan Island.	20° 22.0' N 121° 58.3' E	Fl.R.			10	
13990 <i>F 2822.5</i>	Basco.	20° 26.9' N 121° 57.9' E	Fl.W. period 5s			7 White concrete structure, stone dwelling.	
13991 <i>F 2820</i>	Sabtang Island.	20° 20.4' N 121° 52.3' E	Fl.W. period 5s			7 Concrete structure.	
13991.5 <i>F 2819.5</i>	-Chavayan.	20° 17.2' N 121° 53.0' E	Fl.W. period 5s			12	
13992 <i>F 2823</i>	Amianan Island.	21° 07.1' N 121° 56.8' E	Fl.W. period 5s	65 20	15	Concrete tower.	Visible 200°-310°.
13996 <i>F 2720</i>	Arboledan Point.	18° 01.0' N 120° 28.9' E	Fl.R. period 5s	161 49	18	White concrete tower; 33.	
14000 <i>F 2722</i>	Cape Bojeador.	18° 30.8' N 120° 35.8' E	Fl.(3)W. period 5s	386 118	20	White octagonal tower, dwelling; 66.	Visible 014°-236°.
14002 <i>F 2723</i>	Dialao Point.	18° 37.7' N 120° 47.3' E	Fl.(4)W. period 20s			Fiberglass structure.	
14004 <i>F 2724</i>	Pata Point.	18° 37.4' N 121° 09.3' E	Fl.W. period 5s fl. 0.4s, ec. 4.6s	202 62	15	Small white concrete dwelling; 20.	Visible 098°-299°.
14006 <i>F 2737</i>	Palanan Point.	17° 08.4' N 122° 30.5' E	Fl.W. period 5s			Fiberglass structure.	
14007 <i>F 2735</i>	Maconacon.	17° 23.0' N 122° 14.3' E	Fl.W. period 5s			Fiberglass structure.	
14008 <i>F 2728</i>	Linao Point.	18° 22.3' N 121° 35.8' E	Fl.W. period 5s	36 11	9	White round metal tower, dwelling; 30.	Visible 104°-287°.
14009 <i>F 2728.5</i>	Aparri.	18° 21.7' N 121° 37.7' E	Fl.W. period 5s			Fiberglass structure.	
14012 <i>F 2729</i>	Port Irene.	18° 23.8' N 122° 07.6' E	Fl.G. period 5s			10 Concrete structure.	
14014 <i>F 2730.5</i>	Palawig.	18° 28.2' N 122° 08.4' E	Fl.W. period 5s			7 White concrete structure.	
14016 <i>F 2730</i>	Port San Vicente.	18° 30.6' N 122° 08.3' E	Fl.R. period 5s	31 9	7	White concrete column; 30.	
14020 <i>F 2732</i>	Cape Engano.	18° 34.9' N 122° 08.1' E	Fl.W. period 5s	327 100	18	Gray granite tower, white lantern, dwelling, red roof; 46.	Visible 061°-272°.
14024 <i>F 2742</i>	Baler, on beach.	15° 45.4' N 121° 34.4' E	Fl.R. period 5s			7 White concrete tower; 30.	
14024.6 <i>F 2743</i>	Maligaya.	14° 57.8' N 121° 34.0' E	Fl.W. period 5s			15	
14025 <i>F 2747.6</i>	Babaon River.	15° 01.7' N 121° 52.1' E	Fl.W. period 5s				
14026 <i>F 2747.5</i>	Polillo Island, Hook Bay.	14° 55.8' N 121° 48.6' E	Fl.(3)W. period 5s			Fiberglass structure.	

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PHILIPPINES							
14028 F 2746	Polillo Harbor Range, front, on beach.	14° 43.0' N 121° 56.2' E	F.R.	30 9	7	Mast, white triangular daymark point up; 26.	
14032 F 2746.1	-Rear, 365 meters 145° from front.	14° 42.8' N 121° 56.2' E	F.R.	57 17	7	Church tower; 52.	Visible 110°-154°.
14036 F 2747	Burdeos, Polillo Island, E. side.	14° 51.1' N 121° 58.7' E	Fl.W. period 5s		7	Concrete structure.	
14036.4 F 2747.65	Bonifacio.	15° 02.7' N 121° 58.4' E	Fl.G. period 5s				
14036.5 F 2747.67	Bongliw.	15° 03.5' N 121° 56.6' E	Fl.W. period 5s	20 6	10	Concrete structure; 20.	
14037 F 2747.7	Buguitay.	14° 57.0' N 122° 03.8' E	Fl.W. period 5s			Concrete structure.	
14038 F 2747.8	Patnanongan Island.	14° 45.1' N 122° 13.8' E	Fl.G. period 5s			Concrete structure.	
14040 F 2748	Jamalig Island, NW side.	14° 42.2' N 122° 19.9' E	F.R.		6		Private.
14040.5 F 2747.9	-SW. point.	14° 41.8' N 122° 18.9' E	Fl.W. period 5s			Concrete structure.	
14040.7 F 2748.5	-S. side.	14° 41.1' N 122° 23.0' E	Fl.W. period 10s			Concrete structure.	
14044 F 2749	Dinahican Point.	14° 41.6' N 121° 43.9' E	Fl.W. period 5s		7	Concrete tower.	
14044.5 F 2749.2	Balobo.	14° 41.7' N 121° 40.3' E	Fl.W. period 7s		7	Concrete tower; 33.	
14045 F 2749.5	Puerto Real.	14° 40.3' N 121° 36.6' E	F.R.			Concrete tower; 33.	
14048 F 2766	Tailon Island.	14° 24.6' N 122° 40.0' E	Fl.(2)W. period 10s	60 18	18	White concrete column; 30.	
14050 F 2767	Panganiban.	14° 18.6' N 122° 39.2' E	Fl.W. period 5s			Fiberglass structure.	
14051 F 2769	Paracale.	14° 17.1' N 122° 48.2' E	Fl.W. period 5s			Fiberglass structure.	
14052 F 2764	Capalonga.	14° 19.8' N 122° 30.8' E	Fl.R. period 5s	32 10	18	White concrete tower; 26.	Visible 113°-152°.
14056 F 2750	Balliscan Island.	14° 14.6' N 121° 54.0' E	Fl.W. period 5s	55 17	12	White concrete column; 30.	
14060 F 2757	Mauban, on Malazor Point.	14° 12.1' N 121° 45.1' E	Fl.R. period 5s		10	Concrete structure.	
ALABAT ISLAND:							
14063 F 2755	-Villa Norte.	14° 08.2' N 122° 02.8' E	Fl.W.			Concrete structure.	
14064 F 2754	-On beach at Alabat.	14° 06.1' N 122° 00.6' E	Fl.R. period 5s	35 11	7	White concrete tower; 30.	Visible 346°-095°.
14068 F 2756	-Perez.	14° 11.5' N 121° 55.5' E	Fl.R. period 5s	33 10	5	White concrete tower; 30.	Visible 331°-057°.
14070 F 2756.5	Sangirin Point. Tawig.	14° 11.3' N 121° 54.6' E	Fl.W. period 5s		12	Concrete structure.	
14072 F 2758	Atimonan, E. side of river entrance.	14° 00.1' N 121° 55.8' E	Fl.W. period 3s	13 4		White metal pipe.	A F.R. light is shown about 19 miles ESE., near Hondagua.

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PHILIPPINES							
14074 F 2759	Gamau Point.	13° 57.4' N 122° 01.5' E	Fl.(2)W. period 5s		7	Concrete structure.	
14076 F 2760	Silangan Pass.	13° 59.9' N 122° 10.9' E	Fl.(2)W. period 5s	31	18	White concrete tower.	Visible 205°-271° and 038°-100°.
14080 F 2762	Hondaqua.	13° 56.8' N 122° 14.4' E	F.R.	148 45		Concrete beacon; 10.	
14084 F 2772	Canimo Island.	14° 07.7' N 123° 03.1' E	Fl.W. period 10s	138 42	12	White concrete tower; 26.	Visible 341°-264°.
14088 F 2774	Cabusao.	13° 44.0' N 123° 06.9' E	Fl.(2)W. period 5s	33 10	7	White metal framework tower; 26.	
14089 F 2775	Tarallo.	13° 43.7' N 123° 12.9' E	Fl.W. period 3s	39 12		Concrete structure.	
14090 F 2775.5	Tinambac.	13° 49.0' N 123° 19.4' E	F.R.			Green concrete tower.	
14092 F 2778	Ocata.	13° 59.0' N 123° 49.5' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	125 38	12	White concrete tower; 33.	Visible 052°-296°.
14092.3 F 2776	Basot Island, N. point.	13° 57.5' N 123° 51.4' E	Fl.W. period 5s			Fiberglass structure.	
14093 F 2778.5	Gata.	13° 54.7' N 123° 48.9' E	Fl.(4)W. period 20s			Fiberglass structure.	
14095 F 2779	Colongcogong.	13° 43.4' N 123° 58.7' E	Fl.W. period 5s			Fiberglass structure.	
14096 F 2784	Sialat Point.	13° 39.8' N 124° 01.6' E	Fl.W. period 4s	355 108	15	White framework tower; 33.	Visible 323°-224°.
14100 F 2786	Calolbon.	13° 35.9' N 124° 05.8' E	Fl.R. period 10s	36 11	7	White concrete tower; 30.	Visible 318°-087°.
14104 F 2788	Virac, about 435 meters W. of Pandamon Point.	13° 35.0' N 124° 14.1' E	Fl.R. period 5s	38 12	10	White concrete tower; 23.	Visible 292°-018°.
14106 F 2789	Bote , Locot Bay.	13° 33.6' N 124° 19.5' E	Fl.(2)W. period 10s	39 12	18		
14108 F 2790	Baras.	13° 39.3' N 124° 22.6' E	Fl.R. period 5s	70 21	7	White concrete tower; 30.	
14112 F 2794	Lolong Point.	13° 56.8' N 124° 21.3' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	184 56	22	Metal tower, concrete platform; 98.	Visible 192°-321°.
14114 F 2782	Tabugoc Cove.	14° 03.2' N 124° 14.1' E	Fl.W. period 5s			Fiberglass structure.	
14116 F 2780	Pandan, on beach.	14° 03.1' N 124° 10.2' E	Fl.R. period 5s	35 11	12	White concrete tower; 30.	Visible 115°-196°.
14120 F 2798	Sabang, Lagonoy Gulf.	13° 43.2' N 123° 34.5' E	Fl.W. period 5s	52 16	10	White concrete tower; 30.	
14122 F 2798.5	Patitinan.	13° 33.5' N 123° 32.4' E	Fl.(2)W. period 5s				
14124 F 2802	Malinao Range, front.	13° 24.2' N 123° 42.9' E	F.R.	36 11	7	White concrete column; 23.	Visible 155°-275°.
14128 F 2802.1	-Rear, 1207 meters 238°55' from front.	13° 23.9' N 123° 42.4' E	Fl.W. period 5s	60 18	7	Wooden framework tower.	
14129 F 2800	San Miguel Island.	13° 24.2' N 123° 45.8' E	Fl.(2)G. period 4s			Fiberglass structure.	

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PHILIPPINES							
14129.4 <i>F 2813</i>	Bacacay.	13° 17.8' N 123° 47.7' E	Fl.W. period 5s	16 5			
14130 <i>F 2809.5</i>	Labcan Point, Batan Island.	13° 17.4' N 123° 58.8' E	Iso.W. period 4s			Fiberglass structure.	
14132 <i>F 2810</i>	Port Sula.	13° 13.4' N 123° 52.3' E	Fl.R. period 5s	53 16	7	White concrete post; 7.	
14133 <i>F 2504.2</i>	Siramag Bay.	13° 19.7' N 123° 13.7' E	Fl.W. period 3s	16 5	6	White metal tower; 16.	
14134 <i>F 2504</i>	Ragay Gulf, Laganac.	13° 20.5' N 123° 12.9' E	Fl.(3)W. period 10s			Fiberglass structure.	
14134.5 <i>F 2504.5</i>	-Salingogon.	13° 27.4' N 123° 09.0' E	Fl.W. period 5s			Fiberglass structure.	
14135 <i>F 2505</i>	-Pasacao.	13° 30.2' N 123° 02.2' E	Fl.W. period 5s			Fiberglass structure.	
14135.3 <i>F 2505.3</i>	-Guinayangan.	13° 53.8' N 122° 27.1' E	Fl.(2)G. period 5s			Fiberglass structure.	
14135.5 <i>F 2503.7</i>	-Bondoc Point.	13° 09.9' N 122° 35.8' E	Fl.(2)W. period 15s			Fiberglass structure.	
14136 <i>F 2808</i>	Ungay Point.	13° 10.7' N 124° 12.9' E	Fl.W. period 5s	307 94	17	White round metal tower; 33.	Visible 175°-047°.
14138 <i>F 2809</i>	Prieto Diaz.	13° 02.4' N 124° 11.8' E	Fl.W. period 15s			Fiberglass structure.	
14140 <i>F 2814</i>	Legaspi, Albay Gulf, N. of town.	13° 09.4' N 123° 45.3' E	Fl.R. period 5s	59 18	13	White fiberglass tower; 52.	Visible 190°-345°.
14144 <i>F 2818</i>	Port Gubat.	12° 55.5' N 124° 07.6' E	Fl.W. period 5s	39 12	10	White metal tower; 33.	Visible 246°-323°.
14145 <i>F 2818.4</i>	Barcelona.	12° 52.0' N 124° 08.7' E	Fl.W. period 10s			Fiberglass structure.	
14146 <i>F 2818.8</i>	Calayan Island, S. point.	19° 14.7' N 121° 30.7' E	Fl.W. period 5s			Fiberglass structure.	
14148 <i>F 2488</i>	San Bernardino Island.	12° 45.1' N 124° 17.1' E	Fl.W. period 10s fl. 0.2s, ec. 9.8s	207 63	17	White concrete tower; 39.	
14150 <i>F 2547</i>	Balusingan Bay.	12° 38.2' N 124° 05.7' E	Fl.(2)W. period 10s			Fiberglass structure.	
14152 <i>F 2492</i>	Capul Island.	12° 28.9' N 124° 08.5' E	Fl.W. period 5s	142 43	17	White concrete tower; 39.	Visible 026°-319°.
14156 <i>F 2494</i>	Calantas Rock.	12° 30.6' N 124° 04.6' E	Fl.R. period 5s	33 10	10	White concrete tower; 26.	Visible 201°-209° and 232°-111°.
14160 <i>F 2546</i>	Bulan.	12° 39.9' N 123° 52.4' E	Fl.R. period 5s	32 10	7	White concrete tower; 26.	Visible 355°-149°.
14164 <i>F 2536</i>	Bagatao Island.	12° 49.9' N 123° 47.5' E	Fl.W. period 5s	135 41	17	White round metal tower, dwelling; 30.	Visible seaward over an arc of 130°.
14168 <i>F 2538</i>	Sorsogon, Bagatao Island, W. head.	12° 50.1' N 123° 47.5' E	Fl.R. period 5s	43 13	10	Concrete tower; 23.	
14169 <i>F 2535.5</i>	Macalaya.	12° 52.8' N 123° 46.3' E	Fl.(2)W. period 10s			Fiberglass structure.	
14170 <i>F 2535</i>	-Pilar.	12° 53.3' N 123° 39.8' E	Fl.(3)G. period 3s			Fiberglass structure; 33.	
14172 <i>F 2544</i>	Casiguran.	12° 52.5' N 124° 00.5' E	Fl.W. period 5s	69 21	10	White metal tower; 33.	Visible 097°-248°.

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14176 <i>F 2540</i>	Castilla, Dolagnan River entrance, N. side.	12° 56.8' N 123° 52.9' E	Fl.W. period 5s	49 15	7	White concrete tower; 33.	Visible 203°-358°.
14180 <i>F 2534</i>	Donsol, on E. bank of river, W. head.	12° 54.3' N 123° 35.5' E	Fl.R. period 5s	37 11	10	White wooden framework tower; 33.	Visible 332°-118°.
14182 <i>F 2503.8</i>	Cabarian Point.	13° 00.5' N 123° 19.2' E	Fl.W. period 10s	151 46	10	White metal tower; 16.	
14184 <i>F 2580</i>	Baltasar Island.	13° 13.1' N 121° 48.3' E	Fl.W. period 6s	417 127	23	White round metal tower; 62.	
14188 <i>F 2584</i>	Gasán, Tiguion River, S. side.	13° 19.6' N 121° 50.7' E	Fl.W. period 10s	37 11	8	White concrete tower; 33.	Visible 347°-130°.
14192 <i>F 2586</i>	Boac, on beach at Laylay River.	13° 26.2' N 121° 49.2' E	Fl.R. period 5s	28 9	8	White concrete tower; 23.	
14196 <i>F 2602</i>	Tayabas River Entrance.	13° 53.8' N 121° 36.1' E	Fl.(2)W. period 5s		10	White concrete tower; 30.	Visible 294°-027°.
14200 <i>F 2588</i>	Balanacan.	13° 32.0' N 121° 51.9' E	Fl.(2)W. period 15s	45 14	12	White concrete tower; 26.	Partially obscured by shore.
14204 <i>F 2590</i>	Santa Cruz Harbor, W. side.	13° 30.0' N 122° 03.1' E	Fl.W. period 5s	24 7	7	White concrete tower; 23.	Visible through both channels from seaward.
14208 <i>F 2594</i>	Catanauan.	13° 35.4' N 122° 19.3' E	Fl.R. period 5s	36 11	18	White concrete tower; 33.	Visible 346°-071°.
14210 <i>F 2596</i>	General Luna.	13° 41.1' N 122° 10.3' E	Fl.W. period 5s	49 15	7	Concrete structure.	
14212 <i>F 2598</i>	Macalelon River, entrance, N. side.	13° 44.8' N 122° 08.0' E	Fl.(2)R. period 5s	48 15	8	White concrete tower; 30.	Visible seaward over an arc of 93°.
14216 <i>F 2600</i>	Pitogo.	13° 46.9' N 122° 05.3' E	Fl.(2)W. period 5s	79 24	15	White concrete tower; 33.	Visible 328°-075°.
14218 <i>F 2603</i>	Locoloco Point.	13° 39.3' N 121° 25.2' E	Fl.W. period 3s			Fiberglass beacon.	
14220 <i>F 2604</i>	Malabrigo Point.	13° 35.9' N 121° 15.7' E	Fl.(3)W. period 15s	184 56	20	White round tower, white dwelling; 56.	Visible 274°-134°.
14221 <i>F 2604.2</i>	Verde Island, NE. point.	13° 34.3' N 121° 05.1' E	Fl.W. period 3s		10	Concrete structure.	
14222 <i>F 2604.6</i>	Arenas Point.	13° 37.3' N 121° 04.9' E	Fl.W. period 5s		10	Concrete beacon.	
14224 <i>F 2607</i>	Malajibomanoc Islet.	13° 37.6' N 120° 57.9' E	Fl.(3)W. period 15s	44 13	10	White concrete tower; 33.	Visible 133°-088°.
14226 <i>F 2604.8</i>	Matoca Point.	13° 38.0' N 121° 02.2' E	Fl.W. period 5s		10	Aluminum structure.	
14227 <i>F 2605</i>	-Shell Refinery Wharf Range, front.	13° 43.4' N 121° 03.4' E	Q.R.			Red tower, yellow bands.	
14227.1 <i>F 2605.1</i>	-Rear, 350 meters 141° from front.	13° 43.2' N 121° 03.5' E	F.R.			Red tower, yellow bands.	
14228 <i>F 2605.4</i>	Batangas, on wide portion of pier.	13° 45.4' N 121° 02.5' E	Fl.(3)W. period 10s	30 9	7	Concrete beacon; 10.	
14229 <i>F 2604.9</i>	-Building.	13° 45.4' N 121° 02.6' E	Fl.W. period 3s	39 12	10	Beacon.	
14232 <i>F 2606.6</i>	Mainaga.	13° 45.7' N 120° 57.3' E	Fl.G. period 5s	83 25	7	Concrete beacon; 10.	
14234 <i>F 2607.5</i>	Mabini.	13° 45.6' N 120° 55.6' E	Fl.W. period 5s				

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14236 <i>F 2608</i>	Lemery (Taal), 27 meters from beach.	13° 52.7' N 120° 54.7' E	Fl.R. period 5s	29 9	7	White concrete column; 23.	
14240 <i>F 2610</i>	Balayan, on beach.	13° 56.3' N 120° 44.3' E	Fl.R.	36 11	7	White frame tower; 33.	
14244 <i>F 2614</i>	Cape Santiago.	13° 46.3' N 120° 39.2' E	Fl.W. period 5s	89 27	11	White round metal tower; 52.	Visible 252°-150°.
14248 <i>F 2616</i>	Golo Island.	13° 37.6' N 120° 25.2' E	Fl.W. period 7s	186 57	18	Concrete tower; 36.	Visible 185°-096°.
14252 <i>F 2618</i>	Tilic.	13° 49.1' N 120° 12.1' E	Fl.R. period 5s		7	Concrete tower; 33.	Visible 164°54'-237°06'.
14256 <i>F 2620</i>	Cabra Island.	13° 53.3' N 120° 01.4' E	Fl.(2)W. period 10s	216 66	22	White square brick tower, white dwelling; 66.	Visible 320°-253°.
14260 <i>F 2624</i>	Fortune Island, summit.	14° 03.3' N 120° 29.5' E	Fl.W. period 10s	415 126	10	White concrete tower; 30.	
14261 <i>F 2615</i>	Balatoc, on reef.	13° 50.4' N 120° 36.3' E	Fl.W. period 5s			Concrete structure.	
14262 <i>F 2626</i>	Nasugbu.	14° 05.0' N 120° 37.3' E	Fl.G. period 5s		7	Concrete structure.	
14264 <i>F 2632</i>	La Monja Island.	14° 22.5' N 120° 31.3' E	Fl.W. period 5s	128 39	9	Concrete-wooden platform.	
MANILA BAY:							
14268 <i>F 2630</i>	-Mariveles, at foot of pier.	14° 25.9' N 120° 29.1' E	Fl.(2)G. period 10s	40 12	7	Concrete tower; 36.	
14270 <i>F 2631</i>	-Sisiman, on Gorda Point.	14° 25.4' N 120° 31.2' E	Fl.W. period 5s		7	White concrete tower.	
14272 <i>F 2634</i>	-Corregidor Island.	14° 22.8' N 120° 34.6' E	Fl.(3)W. period 20s	633 193	23	White round tower, white dwelling; 49.	Visible 192°-110°.
14274 <i>F 2634.5</i>	-Calungpang Point.	14° 16.3' N 120° 37.9' E	Fl.G. period 5s			Concrete structure.	
14276 <i>F 2635</i>	--El Fraile.	14° 18.3' N 120° 37.8' E	Fl.W. period 5s		10	Metal tower, fort.	
14280 <i>F 2635.5</i>	-Puerto Azul.	14° 17.0' N 120° 41.0' E	Fl.G. period 5s			Concrete structure.	
14282 <i>F 2644</i>	-Cavite.	14° 19.1' N 120° 45.0' E	Fl.(2)W. period 5s	49 15	15		
14284 <i>F 2643</i>	San Nicolas Shoals.	14° 26.2' N 120° 45.9' E	Fl.R. period 5s	36 11	7	White round metal tower.	
14286 <i>F 2645</i>	Cavite City.	14° 28.7' N 120° 53.4' E	Fl.G. period 5s			Metal structure.	
14286.2 <i>F 2645.9</i>	-Canacao Bay, Fort San Felipe.	14° 28.8' N 120° 55.4' E	Fl.(2)R. period 5s	16 5	3	Concrete pile beacon.	
14287 <i>F 2645.5</i>	--CBB Wharf.	14° 29.8' N 120° 55.0' E	Fl.R. period 5s			Metal structure.	
14287.3 <i>F 2645.8</i>	--San Antonio.	14° 29.3' N 120° 54.5' E	Fl.(2)R. period 3s	36 11			
14288 <i>F 2647</i>	-- Sangle Point AVIATION LIGHT.	14° 29.8' N 120° 55.0' E	Al.W.G. period 10s	120 37	15	Tower; 108.	Oc.R. 2s 47m on radio mast 0.8 mile SW.
14288.1 <i>F 2647.2</i>	--Heracleo Alano Naval Base.	14° 29.8' N 120° 55.3' E	Fl.(2)R. period 5s	16 5	3	Concrete pile beacon.	

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PHILIPPINES							
14292 <i>F 2648</i>	-AVIATION LIGHT Manila International Airport.	14° 31.3' N 121° 01.2' E	Al.W.G. period 10s	180 55	10	Concrete water tank; 112.	
-Manila Harbor:							
14296 <i>F 2662</i>	--Yacht basin entrance, jetty spur, head.	14° 33.8' N 120° 58.8' E	Fl.R. period 5s	35 11	7	White concrete column; 26.	
14300 <i>F 2663</i>	--Detached jetty, SW. head.	14° 33.8' N 120° 58.9' E	Fl.(3)G. period 10s	23 7	7	Gray concrete pyramid; 13.	
14304 <i>F 2650</i>	--Napindan, outlet of Pasig River from Laguna de Bay.	14° 31.3' N 121° 06.9' E	Fl.R. period 5s	30 9	7	White concrete column; 30.	
14308 <i>F 2660</i>	S. breakwater, S. head.	14° 33.9' N 120° 57.7' E	Fl.G. period 5s	24 7	7	White concrete column, triangular daymark point up; 16.	
14312 <i>F 2660.2</i>	-N. head.	14° 34.3' N 120° 57.4' E	Fl.R. period 5s	36 11	7	White concrete column; 36.	
14316 <i>F 2654</i>	W. breakwater, S. head.	14° 34.4' N 120° 57.3' E	Fl.G. period 3s		7	Metal tower; 26.	
14320 <i>F 2653</i>	--Custom House.	14° 35.2' N 120° 58.1' E	Fl.R. period 5s	198 60	10	Tower, building.	Visible 322°-130°.
14321 <i>F 2653.5</i>	HPCG Wharf.	14° 34.9' N 120° 58.3' E	Fl.W. period 10s	105 32			
14324 <i>F 2669</i>	-- Pasig River.	14° 35.8' N 120° 57.6' E	Fl.W. period 5s	49 15	15	White round tower, dwelling; 46.	
14328 <i>F 2670</i>	--Entrance, N. side of International Port Basin.	14° 36.4' N 120° 56.0' E	Fl.G. period 5s	39 12	7	Beacon, triangular daymark point up.	
14332 <i>F 2670.5</i>	--Entrance, S. side of International Port Basin.	14° 36.2' N 120° 56.0' E	Fl.R. period 5s	36 11	7	Beacon, square daymark.	
14334 <i>F 2670.8</i>	--N. breakwater, head.	14° 37.1' N 120° 56.6' E	Fl.R. period 5s		6	Beacon, square daymark.	
MANILA BAY:							
-Manila Harbor:							
14334.8 <i>F 2642.6</i>	--Bulacan River.	14° 42.0' N 120° 52.1' E	Fl.W. period 5s			White metal tower; 33.	
14335 <i>F 2642.4</i>	--Pamarauan.	14° 45.4' N 120° 48.9' E	Fl.(2)W. period 8s	33 10		Metal structure; 33.	
14336.2	--Hagonoy River.	14° 46.2' N 120° 41.1' E	Fl.W. period 5s				
14340 <i>F 2640</i>	-Luzon Point, pier, head.	14° 32.0' N 120° 36.5' E	FR.				
14344 <i>F 2636</i>	-Lokanin Point, dolphin No 1.	14° 28.1' N 120° 36.4' E	FW.	19 6		Dolphin, black square daymark.	Occasional. Radar reflector.
14352 <i>F 2639</i>	--No 2B Range, front.	14° 28.9' N 120° 36.5' E	F.G.	63 19		Oil tank.	Occasional.
14356 <i>F 2639.1</i>	--Rear, No 2A, about 105 meters 285°12' from front.	14° 28.9' N 120° 36.4' E	F.G.	85 26		Oil tank.	Occasional.
14360 <i>F 2672.8</i>	Cabayoc Point.	14° 37.1' N 120° 22.3' E	Oc.R. period 2s lt. 1.5s, ec. 0.5s			Framework tower.	
FR. (vert.)							

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PHILIPPINES							
SUBIC BAY:							
14364 <i>F 2673</i>	Sueste Point.	14° 45.1' N 120° 11.3' E	Fl.W. period 5s	207 63	20	White round metal tower, dwelling, red roof; 30.	Visible 216°-048°.
14365	-Morong.	14° 41.8' N 120° 15.0' E	Fl.W. period 5s				
14366 <i>F 2675.8</i>	-Grande Island.	14° 46.5' N 120° 13.4' E	Fl.(2)W. period 10s		12	White metal tower.	
14368 <i>F 2673.4</i>	-Ilanin Bay.	14° 45.9' N 120° 15.2' E	Iso.W. period 6s	50 15	8	Pile structure, red and white checkered diamond daymark.	Intensified bearing 141°.
14372 <i>F 2674</i>	-Cubi point AVIATION LIGHT.	14° 47.9' N 120° 16.0' E	Al.FI.W.G.				
14372.5 <i>F 2675.4</i>	-POL Pier.	14° 48.5' N 120° 17.6' E	Fl.R. period 5s				
14372.8 <i>F 2675.3</i>	-Rivera Wharf.	14° 48.8' N 120° 17.3' E	Fl.R. period 5s				
14374 <i>F 2675.45</i>	-Marine Terminal Approach, SE.	14° 49.0' N 120° 17.6' E	Fl.R. period 5s				
14374.1 <i>F 2675.46</i>	--NW.	14° 49.0' N 120° 17.6' E	Fl.R. period 5s				
14374.7 <i>F 2675.5</i>	-Yacht Club, West.	14° 49.2' N 120° 17.4' E	Fl.G. period 4s				
14374.8 <i>F 2675.52</i>	--East.	14° 49.2' N 120° 17.5' E	Fl.R. period 4s				
14376 <i>F 2675</i>	-Kalaklan Point.	14° 49.4' N 120° 16.1' E	F.W.R.G.	77 23	4	White concrete tower; 33. Concrete structure.	R. 042°44'-044°44'. W.- 050°44', G.-052°44'.
14377 <i>F 2676</i>	-Mayagna Island.	14° 49.9' N 120° 14.1' E	Fl.G. period 6s				
14380 <i>F 2680</i>	Caponos.	14° 54.9' N 120° 00.5' E	Fl.(3)W. period 15s	243 74	22	White concrete tower, dwelling; 56.	Visible 303°-243°.
14381 <i>F 2677</i>	Botolan.	15° 14.0' N 120° 00.7' E	Fl.(3)W. period 15s			Fiberglass structure.	
14384 <i>F 2682</i>	Palauig Point.	15° 25.8' N 119° 54.1' E	Fl.(2)W. period 10s	89 27	15	White metal framework tower; 30.	Visible 330°-180°.
14388 <i>F 2684</i>	Hermana Mayor Island.	15° 47.5' N 119° 47.8' E	Fl.W. period 5s	157 48	20	White concrete tower, dwelling; 30.	Visible 340°-165°.
14390 <i>F 2686</i>	Cabaongan.	16° 00.4' N 119° 45.7' E	Fl.(3)W. period 15s			Fiberglass structure.	
14391 <i>F 2686.6</i>	Sabangan Point.	16° 07.9' N 119° 46.6' E	Fl.G. period 5s		10	Concrete structure.	
14392 <i>F 2688</i>	Cape Bolinao.	16° 18.3' N 119° 47.1' E	Fl.(2)W. period 10s	292 89	22	White tower; 89.	Visible 017°-215°.
14396 <i>F 2690</i>	Bolinao Harbor.	16° 22.7' N 119° 54.9' E	Fl.W. period 5s	85 26	15	Concrete column, white square daymark; 43.	
14396.2 <i>F 2690.5</i>	Anda.	16° 18.8' N 120° 00.8' E	Fl.G. period 5s			Fiberglass structure.	
14397 <i>F 2689</i>	Silaqui Island.	16° 26.7' N 119° 55.3' E	Fl.(2)W. period 10s			Fiberglass structure.	
14398 <i>F 2691</i>	Lucap.	16° 11.6' N 120° 00.2' E	Fl.G. period 5s		10	Concrete structure.	

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PHILIPPINES							
14399 <i>F 2692</i>	Portuguese Point.	16° 04.6' N 120° 06.7' E	Fl.R. period 5s		12	Concrete mast; 33.	
14400 <i>F 2694</i>	Dagupan.	16° 04.6' N 120° 20.5' E	Fl.W. period 5s	47 14	15	White concrete house; 16.	
14404	AVIATION LIGHT, about 914 meters E. of Dagupan.	16° 04.5' N 120° 21.0' E	F.R.				
14405 <i>F 2696</i>	Damortis.	16° 14.4' N 120° 24.2' E	Fl.R. period 5s	39 12	7	Concrete tower; 33.	
14406 <i>F 2697</i>	Santa Rita.	16° 21.3' N 120° 20.4' E	Fl.R. period 5s		7	Concrete structure.	
14408 <i>F 2698</i>	San Fernando Point.	16° 36.9' N 120° 16.9' E	Fl.(2)W. period 10s	107 33	20	White round metal tower, dwelling; 26.	
14412 <i>F 2702</i>	San Fernando Range, front.	16° 37.0' N 120° 18.7' E	F.G.	21 6	7	Orange mast, orange triangular daymark point up, black stripe; 10.	Difficult to distinguish when unlit.
14416 <i>F 2702.1</i>	-Rear, about 640 meters 144°36' from front.	16° 36.7' N 120° 18.9' E	F.G.	110 34	7	Orange mast, triangular daymark point down.	Difficult to distinguish when unlit.
14424 <i>F 2705</i>	Darigayos Point.	16° 49.2' N 120° 20.2' E	Fl.G. period 5s	33 10	12	Concrete structure.	
14428 <i>F 2708</i>	Tagudin NW. of town.	16° 57.3' N 120° 26.2' E	Fl.(2)R. period 5s	26 8	7	White concrete column; 23.	
14432 <i>F 2712</i>	Candon, on beach.	17° 11.3' N 120° 25.3' E	Fl.R. period 5s	48 15	7	White concrete tower; 33.	Visible 350°-123°.
14434 <i>F 2713</i>	Apatot.	17° 19.9' N 120° 27.6' E	Iso.R. period 5s			Fiberglass structure.	
14436 <i>F 2714</i>	Pandan, on beach near town.	17° 32.0' N 120° 22.1' E	Fl.G. period 5s	41 12	9	White concrete tower; 26.	Visible 325°-120°.
14438 <i>F 2715</i>	Puropingit.	17° 41.4' N 120° 21.4' E	Fl.W. period 10s			Fiberglass structure.	
14440 <i>F 2716</i>	Salomangue.	17° 46.3' N 120° 25.6' E	Fl.R. period 5s	33 10	15	White framework tower; 30.	Visible 058°-114°.
14442 <i>F 2718</i>	Cabangtalan.	17° 51.3' N 120° 26.7' E	Fl.W. period 5s			Fiberglass structure.	
14448 <i>F 2568</i>	Cape Calavite.	13° 26.8' N 120° 18.0' E	Fl.W. period 5s	137 42	18	White round metal tower; 62.	Visible 349°-203°.
14450 <i>F 2569</i>	Tubili Point.	13° 13.6' N 120° 31.6' E	Fl.(4)W. period 20s			Fiberglass structure.	
14452 <i>F 2560</i>	Escarceo Point.	13° 31.3' N 120° 59.5' E	Fl.W. period 10s	136 41	18	White concrete house; 46.	Visible 112°-020°.
14456 <i>F 2562</i>	Port Galera.	13° 30.8' N 120° 57.7' E	Fl.R. period 3s	60 18	7	White triangular beacon, black stripe; 10.	
14460 <i>F 2564</i>	Varadero Bay.	13° 30.1' N 120° 57.3' E	Fl.G. period 5s	85 26	7	White concrete column; 26.	
14462 <i>F 2555</i>	Herrera.	13° 14.2' N 121° 25.2' E	Fl.W. period 5s	151 46	6	Metal pipe, platform; 26.	
14464 <i>F 2558</i>	Calapan, Government Dock, end.	13° 25.8' N 121° 11.7' E	Fl.W. period 5s	36 11	10	White concrete column; 24.	Visible 071°-198°.
14465 <i>F 2566</i>	Wawa.	13° 27.7' N 120° 44.9' E	Fl.W. period 5s		12	Concrete structure.	
14466 <i>F 2556</i>	Sta Cruz.	13° 18.6' N 121° 20.1' E	Fl.R. period 10s			Fiberglass structure.	

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PHILIPPINES							
14467 <i>F 2554.5</i>	Tuntung Point.	13° 09.2' N 121° 26.4' E	Fl.(2)W. period 5s	10 3		Metal pipe, white platform; 10.	
14468 <i>F 2554</i>	Dumali Point.	13° 07.2' N 121° 33.4' E	Fl.(2)W. period 10s	173 53	20	White round metal tower, dwelling, red roof; 62.	Visible 132°-357°.
14469 <i>F 2553</i>	Bugol Point.	13° 04.0' N 121° 31.2' E	Fl.W. period 5s		3		
14470 <i>F 2551</i>	Dayugan Point.	12° 36.4' N 121° 33.3' E	Fl.W. period 10s			Fiberglass structure.	
14472 <i>F 2550</i>	Bongabong.	12° 44.9' N 121° 29.3' E	Fl.W. period 10s fl. 0.7s, ec. 9.3s	42 13	9	White fiberglass tower; 33.	Visible 182°-309°.
14472.5 <i>F 2549.5</i>	Bansud, on Bonsod Point.	12° 51.5' N 121° 29.4' E	Fl.W. period 5s			Concrete structure.	
MAESTER DE CAMPO ISLAND:							
14473 <i>F 2532</i>	-Tunggo Point.	12° 54.2' N 121° 43.3' E	Fl.W. period 5s			Concrete structure.	
14474 <i>F 2531</i>	-Port Concepcion.	12° 54.1' N 121° 43.5' E	Fl.R. period 5s		12	Concrete structure.	
14475 <i>F 2533</i>	-Mahaba Point.	12° 55.8' N 121° 41.0' E	Fl.W. period 7s	33 10	12	White metal and fiberglass tower; 33.	
14475.4 <i>F 2549.3</i>	Balete.	12° 54.5' N 121° 28.9' E	Fl.R. period 5s			Metal structure.	
14476 <i>F 2552</i>	Pinamalayan, on beach at town.	13° 02.3' N 121° 29.7' E	Fl.R. period 5s		7	White metal and fiberglass tower; 33.	Visible 231°-357°.
14477 <i>F 2287.75</i>	Sibolo Island.	12° 05.8' N 121° 34.6' E	Fl.W. period 10s	184 56	10	White metal tower; 33.	
14478 <i>F 2287.7</i>	Alegria.	12° 00.9' N 121° 24.1' E	Fl.W. period 5s	361 110	10	White metal tower; 33.	
14480 <i>F 2576</i>	Ambulong Island.	12° 12.5' N 121° 00.6' E	Fl.W. period 5s	446 136	21	White metal framework tower; 53.	Visible 292°-160°. Structure obscured by trees.
14484 <i>F 2575</i>	Caminawit Point.	12° 19.8' N 121° 05.3' E	Fl.W. period 5s	33 10	7	White concrete tower.	F.R. 34m light shown from tower about 1.6 miles NW.
14486 <i>F 2574.5</i>	Bantac Island.	12° 13.3' N 120° 23.5' E	Fl.W. period 5s			Fiberglass structure.	
14488 <i>F 2570</i>	Sablayan Point.	12° 49.8' N 120° 46.0' E	Fl.(3)W. period 10s	157 48	9	Concrete tower; 38.	Visible 344°-175°.
14492 <i>F 2574</i>	Apo Island.	12° 39.7' N 120° 24.9' E	Fl.W. period 10s	115 35	17	White tower.	
14494 <i>F 2173</i>	Decabaito Island.	11° 37.8' N 119° 58.2' E	Fl.(2)W. period 5s			Fiberglass tower.	
14496 <i>F 2174</i>	Culion Island, fort at N. point of entrance to Culion.	11° 53.5' N 120° 01.5' E	Fl.R. period 5s	115 35	7	Fort, post; 10.	Visible 154°-293°.
14497 <i>F 2176</i>	Delian Island.	11° 49.7' N 120° 18.7' E	Fl.W. period 6s			Fiberglass structure.	
14497.2 <i>F 2179.2</i>	Coron Harbor, Coron Point.	11° 59.0' N 120° 13.5' E	Fl.W. period 5s			Fiberglass structure.	
14497.4 <i>F 2180</i>	-On reef.	11° 59.5' N 120° 12.7' E	F.R.	30 9			
14498 <i>F 2287.5</i>	Caluya Island.	11° 54.5' N 121° 34.8' E	Fl.(2)W. period 15s			Fiberglass structure.	

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PHILIPPINES							
14498.5 <i>F 2287.4</i>	Dinago Point.	11° 50.3' N 121° 25.0' E	Fl.W. period 5s			Metal and fiberglass structure.	
14499 <i>F 2287.2</i>	Malaqui Island.	11° 51.7' N 121° 17.6' E	Fl.W. period 10s		10	White metal and fiberglass tower; 33.	
14500 <i>F 2288</i>	Maniguin Island.	11° 36.5' N 121° 41.2' E	Fl.(2)W. period 10s	191 58	20	White round masonry tower; 98.	
14504 <i>F 2287</i>	Manamoc Island, W. side.	11° 18.5' N 120° 40.4' E	Fl.(2)W. period 10s	200 61	10	Concrete tower; 39.	
14506 <i>F 2286.5</i>	Agutaya Island.	11° 08.8' N 120° 56.4' E	Fl.W. period 5s		8	Concrete pole.	
14508 <i>F 2286</i>	Cuyo Island, pier on W. side.	10° 51.2' N 121° 00.3' E	Fl.(2)W. period 10s	42 13	7	Concrete tower; 26.	
14512 <i>F 2338</i>	Manucan Islet.	9° 38.5' N 121° 20.0' E	Fl.W. period 5s	70 21	14	Octagonal concrete column.	
14512.1 <i>F 2339</i>	Cagayancillo.	9° 34.7' N 121° 11.4' E	Fl.(2)W. period 5s				
14513 <i>F 2172</i>	Palawan, Tarumpitao.	9° 02.6' N 117° 37.9' E	Fl.(2)W. period 10s			Red mast, white bands; 121.	
14514 <i>F 2171</i>	Malanut Bay, Quezon.	9° 14.4' N 117° 59.7' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	50 15	9	White fiberglass tower; 29.	
14514.7 <i>F 2169</i>	Taytay.	10° 49.7' N 119° 30.7' E	Fl.W. period 5s	30 9	9	Fiberglass structure.	
14515 <i>F 2170</i>	Cagnipa Island.	10° 30.6' N 119° 04.5' E	Fl.(2)W. period 10s			Fiberglass structure.	
14516 <i>F 2168</i>	Langoy Island.	10° 29.6' N 119° 59.8' E	Fl.W. period 5s	364 111	16	White round metal tower; 36.	
14516.8 <i>F 2169.25</i>	Lalutaya.	11° 21.8' N 119° 24.9' E	Fl.W. period 5s			Fiberglass structure.	
14517 <i>F 2169.5</i>	Barbacan Point.	10° 18.9' N 119° 21.8' E	Fl.W. period 5s		9	Fiberglass structure; 30.	
14518 <i>F 2166</i>	Bold Point.	10° 01.6' N 119° 08.5' E	Fl.(2)W. period 10s			Fiberglass structure.	
14518.5 <i>F 2165</i>	Honda Bay.	9° 50.6' N 118° 44.7' E	Fl.W. period 5s		7	Tower; 39.	
14519 <i>F 2167</i>	Camungyan Island.	10° 09.3' N 118° 45.9' E	Fl.(3)W. period 15s	171 52	17	Fiberglass structure; 16.	
14520 <i>F 2164</i>	Puerto Princesa, Tidepole Point.	9° 43.8' N 118° 44.0' E	Fl.R. period 5s	43 13	10	White tower; 25.	Visible 285°-326°. 2 F.R. (vert.) on radio mast 550 meters NE. R. Lts. on water tank 0.8 mile NW.
14524 <i>F 2163</i>	-Bancaobancaon Point.	9° 43.4' N 118° 46.1' E	Fl.(3)W. period 5s	35 11	15	White concrete tower; 35.	Visible 225°-080° except where obscured by vegetation.
14526 <i>F 2162</i>	Calver Point.	9° 21.5' N 118° 32.2' E	Fl.W. period 5s			Metal structure.	
14527 <i>F 2161</i>	Panacan.	9° 14.8' N 118° 24.4' E	Fl.G. period 5s			White fiberglass tower; 30.	
14527.5 <i>F 2160.5</i>	Pescado Point.	8° 57.1' N 118° 02.6' E	Fl.W. period 5s				
14528 <i>F 2340</i>	Tubbataha Reefs.	8° 44.9' N 119° 49.2' E	Fl.W. period 5s		15	White round stone structure, white square building.	

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PHILIPPINES							
14532 <i>F 2160</i>	Sir J. Brooke Point.	8° 46.1' N 117° 50.2' E	Fl.W. period 5s	35	15	Pole on SE. corner of block house; 15.	Visible seaward over arc of 180°.
14534 <i>F 2158</i>	Comiran Island.	7° 55.0' N 117° 13.2' E	Fl.W. period 5s		7	Metal structure.	
14536 <i>F 2156</i>	Espina Point.	7° 59.5' N 117° 04.4' E	Fl.W. period 5s	131	15	White concrete tower, dwelling; 33.	Visible 063°-336°.
14540 <i>F 2152</i>	Cape Melville.	7° 49.0' N 117° 00.1' E	Fl.W. period 5s	296	20	Yellow octagonal masonry tower, dwelling, white lantern; 89.	Visible 245°-150°.
14541.3 <i>F 2159.3</i>	Banggi Outer NE. Reefs, N.	7° 23.9' N 117° 21.4' E	Fl.Y. period 5s	30	5	Concrete tower.	
14541.4 <i>F 2159.4</i>	-E.	7° 23.3' N 117° 21.7' E	Fl.(2)Y. period 10s	30	5	Concrete tower.	
14541.5 <i>F 2159.5</i>	-S.	7° 22.5' N 117° 21.7' E	Fl.Y. period 5s	56	10	Metal tower.	
14542 <i>F 2159</i>	South Mangsee Island.	7° 30.6' N 117° 18.6' E	Fl.W. period 5s			Metal structure.	
14542.1 <i>F 2158.2</i>	Mangsee Great Reef, 1.	7° 29.8' N 117° 13.2' E	Fl.Y. period 5s	30	5	Concrete tower.	
14542.2 <i>F 2158.25</i>	-2.	7° 30.5' N 117° 14.5' E	Fl.(2)Y. period 5s	30	5	Concrete tower.	
14542.3 <i>F 2158.28</i>	-3.	7° 30.6' N 117° 15.2' E	Fl.Y. period 10s	30	5	Concrete tower.	
14542.4 <i>F 2158.3</i>	-4.	7° 30.5' N 117° 15.5' E	Fl.Y. period 3s	30	5	Concrete tower.	
14542.5 <i>F 2158.4</i>	-5.	7° 30.3' N 117° 16.0' E	Fl.(2)Y. period 5s	30	5	Concrete tower.	
14542.6 <i>F 2158.8</i>	-6.	7° 30.0' N 117° 16.4' E	Fl.Y. period 3s	30	5	Concrete tower.	
14544 <i>F 2142</i>	Tandotao Point, on Cagayan Sulu Island.	6° 58.1' N 118° 31.5' E	Fl.W. period 5s	387	12	White concrete tower; 32.	
14548 <i>F 2520</i>	Apunan Point.	12° 28.7' N 122° 17.2' E	Fl.W. period 10s	97	17	Metal framework tower, white dwelling; 62.	Visible 264°-133°.
14550 <i>F 2519</i>	Calabago Point.	12° 33.2' N 122° 19.3' E	Fl.W. period 7s				
ROMBLON HARBOR:							
14552 <i>F 2516</i>	-Binagon Point, reef, head.	12° 34.8' N 122° 15.8' E	Fl.G. period 5s	15	7	Post, square concrete beacon; 16.	
14556 <i>F 2517</i>	-Agbatan Point, reef, head.	12° 34.7' N 122° 16.0' E	Fl.R. period 5s		7		Shown until 2200.
14560 <i>F 2514</i>	-Sabang Point, 274 meters from extremity.	12° 35.6' N 122° 16.0' E	Fl.W. period 5s	116	5	White concrete tower, dwelling; 16.	Visible in approaching Romblon through all three channels. Obscured on E. side of N. channel at 197°.
14564 <i>F 2527.8</i>	Nalumsan Point.	12° 34.1' N 122° 08.2' E	Fl.W. period 5s		7	Concrete tower.	
14566 <i>F 2528.5</i>	Biaringan Island.	12° 37.6' N 122° 09.9' E	Fl.(2)W. period 10s			Fiberglass structure.	
14568 <i>F 2529</i>	Gorda Point.	12° 39.6' N 122° 09.2' E	Fl.(3)W. period 15s	212	22	White metal framework tower; 62.	Visible 110°-333°, except where obscured by Guindauhan Island.

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PHILIPPINES							
14572 <i>F 2530</i>	Simara Island.	12° 47.9' N 122° 01.2' E	Fl.W. period 5s	66 20	16	White concrete tower; 32.	Visible 309°-215°.
14576 <i>F 2528</i>	Carmen Bay.	12° 37.1' N 122° 07.3' E	Fl.W. period 3s	36 11	7	Concrete tower.	Visible 262°-317°.
14578 <i>F 2523</i>	Bantiano Point.	12° 25.2' N 121° 59.4' E	F.R.			Concrete tower; 33.	
14580 <i>F 2524</i>	Tablas Island, on beach at Odiongan.	12° 24.2' N 121° 58.9' E	Fl.R. period 5s	32 10	7	White concrete tower; 30.	Visible 096°-194°.
14582 <i>F 2525</i>	Guinawayan.	12° 17.6' N 121° 55.5' E	Fl.W. period 7s				
14584 <i>F 2526</i>	Looc Reef.	12° 14.8' N 121° 58.8' E	Fl.G. period 5s	46 14	18	White concrete tower; 46.	Visible 062°-127°.
14588 <i>F 2527</i>	Port Malbog.	12° 13.6' N 122° 00.2' E	Fl.R. period 5s		6	Concrete tower; 16.	
14592 <i>F 2527.6</i>	Cabalian Point.	12° 06.1' N 122° 01.0' E	Fl.W. period 5s	122 37	9	Concrete mast; 30.	Visible 238°-144°.
14593 <i>F 2527.7</i>	Calaton Point.	12° 10.8' N 122° 04.1' E	Fl.W. period 10s			Fiberglass structure.	
14594 <i>F 2511</i>	Magdiwang.	12° 29.5' N 122° 29.5' E	Fl.W. period 5s		12	Concrete beacon.	
14596 <i>F 2512</i>	Cautit Point.	12° 16.1' N 122° 38.0' E	Fl.W. period 5s	33 10	16	White concrete tower; 33.	
14596.5 <i>F 2512.5</i>	Cresta de Gallo Island.	12° 11.1' N 122° 41.8' E	Fl.W. period 5s			Metal structure.	
14597 <i>F 2513</i>	Cajidiocan Point.	12° 21.7' N 122° 41.1' E	Fl.(2)W. period 5s			Fiberglass structure.	
14598 <i>F 2292.5</i>	Pagbulungan Point.	12° 13.0' N 123° 13.7' E	Fl.G. period 5s			Fiberglass structure.	
14600 <i>F 2510</i>	Bugui Point.	12° 36.0' N 123° 14.3' E	Fl.W. period 10s	218 66	20	White round masonry tower, gray dwelling; 49.	Visible 008°-277°.
14602 <i>F 2503</i>	Aguja Point.	12° 41.7' N 123° 23.1' E	Fl.(3)W. period 10s			White fiberglass tower.	
14602.5 <i>F 2503.2</i>	Bagasiang Point.	12° 50.6' N 123° 12.1' E	Fl.(3)W. period 10s			Fiberglass structure.	
14603 <i>F 2503.5</i>	San Pascual.	13° 08.7' N 122° 59.2' E	Fl.W. period 10s			Fiberglass structure.	
14604 <i>F 2508</i>	Colorada Point.	12° 32.5' N 123° 22.7' E	Fl.(2)R. period 5s	109 33	16	White concrete tower, dwelling; 16.	Visible 130°-085°.
14607 <i>F 2506</i>	Masbate Harbor, NW. Point.	12° 22.7' N 123° 36.6' E	Fl.R. period 5s	52 16	7	White fiberglass tower; 33.	
14612 <i>F 2502</i>	San Miguel Island.	12° 43.0' N 123° 35.4' E	Fl.(3)W. period 5s	222 68	12	Concrete tower; 36.	Visible 006°-288°.
14616 <i>F 2498</i>	Matabao Island.	12° 18.6' N 123° 48.6' E	Fl.W. period 5s	106 32	10	White metal round tower; 33.	
14620 <i>F 2500</i>	Port San Jacinto.	12° 34.2' N 123° 44.1' E	Fl.R. period 5s	55 17	15	White concrete tower; 26.	Visible 177°-334°.
14622 <i>F 2293</i>	Pulanduta Pt.	11° 54.3' N 123° 09.9' E	Fl.(2)W. period 4s			Fiberglass structure.	
14623 <i>F 2293.5</i>	Milagros.	12° 13.0' N 123° 31.9' E	Fl.(2)R. period 4s			Fiberglass structure.	

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PHILIPPINES							
14623.5 <i>F 2293.8</i>	Cawayan.	11° 55.2' N 123° 45.1' E	Fl.G. period 5s				
14623.55 <i>F 2293.85</i>	Guinauayan Island.	11° 48.7' N 123° 54.5' E	Fl.(2)W. period 10s				
14624 <i>F 2292</i>	Jintotolo Island.	11° 50.4' N 123° 07.3' E	Fl.(3)W. period 10s	187 57	20	Gray square stone tower, dwelling, base; 51.	
14626 <i>F 2301</i>	-Apga Point.	11° 47.7' N 122° 15.4' E	Fl.(2)W. period 5s			Fiberglass structure.	
14628 <i>F 2302</i>	Batan Point.	11° 35.6' N 122° 30.2' E	Fl.(3)W. period 10s	39 12	12	Round metal tower; 36.	
14629 <i>F 2303</i>	Sonculan.	11° 33.3' N 122° 33.5' E	Fl.W. period 5s	33 10	15	White metal and fiberglass tower.	
14632 <i>F 2304</i>	Culasi Point.	11° 36.5' N 122° 42.3' E	Fl.W. period 7s	157 48	18	Concrete structure; 16.	Visible 345°-254°.
14636 <i>F 2305</i>	Capiz Bay, Libas Cove, S. breakwater, W. head.	11° 36.1' N 122° 42.4' E	Fl.R. period 5s	13 4	11	Concrete tower.	
14640 <i>F 2306</i>	--N. breakwater, S. head.	11° 36.2' N 122° 42.4' E	Fl.G. period 3s	20 6	7	White concrete tower; 16.	
14641 <i>F 2306.5</i>	-Olutaya Island.	11° 38.6' N 122° 50.5' E	Fl.W. period 5s				
14642 <i>F 2307</i>	Zapato Menor Island.	11° 42.7' N 122° 59.1' E	Fl.(2)W. period 10s			Fiberglass structure.	
14644 <i>F 2308</i>	Manigonigo Island.	11° 36.2' N 123° 10.7' E	Fl.W. period 7s	68 21	16	White round tower, dwelling; 29.	
14648 <i>F 2294</i>	North Gigante Island.	11° 38.2' N 123° 21.5' E	Fl.W. period 10s	77 23	17	White metal round tower, dwelling; 39.	Visible 076°-343°, obscured by Uaidajun Island 267°- 275°.
14652 <i>F 2296</i>	Tanguingui Island.	11° 29.2' N 123° 43.5' E	Fl.W. period 5s	128 39	17	Black metal tower, dwelling, white lantern; 112.	
14656 <i>F 2310</i>	Estancia.	11° 27.0' N 123° 09.1' E	Fl.R. period 7s fl. 0.7s, ec. 6.3s	49 15	9	White fiberglass tower; 32.	Partly obscured by islands.
BANTAYAN ISLAND:							
14660 <i>F 2298</i>	-Bantayan, on beach off the town.	11° 11.0' N 123° 42.7' E	Fl.(2)W. period 5s	39 12	10	White metal tower; 33.	Visible 355°-150°.
14664 <i>F 2300</i>	-Buntay Point.	11° 18.0' N 123° 43.8' E	Fl.W. period 5s	33 10	10	White concrete tower.	
14665 <i>F 2297</i>	Guintacan Island.	11° 17.9' N 123° 53.5' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	213 65	17	White metal octagonal tower; 66.	Visible 225°-135°.
14668 <i>F 2314</i>	Baliguian Island.	11° 12.2' N 123° 20.3' E	Fl.W. period 7s fl. 0.2s, ec. 6.8s	75 23	14	White metal octagonal tower; 66.	
14672	<i>Carmen Shoals Buoy</i> , S. side of shoal.	11° 02.0' N 123° 20.0' E	Fl.W. period 5s			Red buoy.	
14676 <i>F 2357.4</i>	Cadiz.	10° 57.5' N 123° 19.2' E	Fl.W. period 5s		18	Wooden post.	
14680 <i>F 2357.6</i>	Victorias.	10° 54.8' N 123° 04.4' E	F.G.				
14681 <i>F 2357.7</i>	Tomonton Point.	10° 53.7' N 122° 56.9' E	Fl.(2)W. period 6s	39 12	7		

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PHILIPPINES							
14684 <i>F 2357</i>	Himugann River Entrance.	10° 57.5' N 123° 24.6' E	Fl.W. period 5s				In range with Sagay Water Tower 170°. Private light.
14686 <i>F 2358.2</i>	Bacolod City.	10° 42.2' N 122° 57.0' E	Fl.R. period 5s				
14686.2 <i>F 2358.5</i>	Bredco.	10° 41.1' N 122° 56.3' E	Fl.W. period 5s		7	Tower.	
14686.7 <i>F 2359</i>	Pulupandan.	10° 31.4' N 122° 47.7' E	Fl.(2)W. period 5s			Fiberglass structure.	
14687 <i>F 2318</i>	San Juan Point.	10° 59.9' N 122° 50.0' E	F.W.				
14688 <i>F 2316</i>	Calabazas Island.	11° 04.5' N 123° 01.4' E	Fl.W. period 5s	131 40	17	White metal octagonal tower; 66.	
ILOILO:							
14692 <i>F 2320</i>	-Siete Pecados.	10° 46.0' N 122° 40.7' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	89 27	9	White tower; 32.	
14694 <i>F 2319</i>	-Navalas Point.	10° 43.0' N 122° 42.8' E	Fl.(3)W. period 6.5s			Fiberglass structure.	
14695 <i>F 2319.5</i>	-San Enrique.	10° 36.9' N 122° 43.5' E	Fl.W. period 5s	33 10	15	White metal and fiberglass tower.	
14696 <i>F 2326.2</i>	-River entrance, N. side.	10° 41.6' N 122° 35.1' E	Fl.R. period 4s fl. 0.7s, ec. 3.3s	30 9	6	White fiberglass tower; 20.	
14700 <i>F 2326</i>	--S. side.	10° 41.5' N 122° 35.0' E	Fl.G. period 5s fl. 0.7s, ec. 4.3s	26 8	7	White fiberglass tower; 20.	Visible 047°-038°.
14702 <i>F 2327</i>	Bundolan Point.	10° 39.9' N 122° 34.1' E	Fl.W. period 5s			White metal and fiberglass tower; 33.	
14704	<i>-Morubuan Point Buoy 4.</i>	10° 39.0' N 122° 32.0' E	Fl.W. period 4s			Red buoy.	
14706 <i>F 2329</i>	Sinapsapan Point.	10° 35.3' N 122° 30.8' E	Fl.W. period 5s	33 10		White metal and fiberglass tower.	
14708 <i>F 2328</i>	Lusaran Point.	10° 28.8' N 122° 28.5' E	Fl.(2)W. period 10s	111 34	20	White round metal tower, white dwelling; 39.	Visible 339°-184°.
14716 <i>F 2359.5</i>	S. side of Himamaylan River.	10° 05.6' N 122° 51.1' E	Fl.R. period 5s	23 7	7	Concrete tower; 23.	Visible 070°-175°.
14717 <i>F 2359.7</i>	Sojoton Point.	9° 58.5' N 122° 27.1' E	Fl.(2)W. period 10s			Fiberglass structure.	
14718 <i>F 2359.82</i>	-Cansilan Point.	9° 23.0' N 122° 40.5' E	Fl.W. period 5s				
14720 <i>F 2332</i>	Nogas Island.	10° 25.1' N 121° 55.2' E	Fl.G. period 10s fl. 0.3s, ec. 9.7s	115 35	17	Masonry tower; 98.	Visible 271°-170°, except where obscured by Jurao Jurao Island 278°-285°.
14724 <i>F 2334</i>	Tubigan Point, San Jose de Buenavista.	10° 44.3' N 121° 56.2' E	Fl.W. period 5s	49 15	7	White fiberglass tower, old fort; 39.	
14724.3 <i>F 2335</i>	Amparo.	10° 55.5' N 121° 58.9' E	Fl.W. period 5s		15	White metal and fiberglass tower; 33.	
14725 <i>F 2336</i>	Tibiao Point.	11° 17.7' N 122° 01.7' E	Fl.W. period 10s			Metal tower.	

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PHILIPPINES							
14727 F 2336.5	Libertad.	11° 46.1' N 121° 55.0' E	Fl.W. period 5s	49 15	7	Tower.	
14727.5 F 2336.8	Nasag Point.	11° 54.0' N 121° 53.1' E	Fl.W. period 5s				
14728 F 2337	Pucio Point.	11° 45.7' N 121° 50.7' E	Fl.W. period 7s			Metal tower.	
14729	Cansilan.	9° 23.0' N 122° 40.5' E	Fl.W. period 5s				
14730 F 2345	Antulang.	9° 02.5' N 123° 01.0' E	Fl.(3)W. period 15s	85 26	7	Fiberglass tower; 36.	
14732 F 2346	Dumaguete, middle corner of wharf.	9° 18.8' N 123° 18.7' E	Fl.G. period 5s	38 12	8	White concrete tower; 34.	Visible 198°-359°.
14736 F 2347	-Center of town.	9° 18.7' N 123° 18.5' E	Oc.W. period 5s lt. 3s, ec. 2s	97 30	10	Metal tower; 30.	
14740 F 2356	San Carlos.	10° 28.8' N 123° 25.3' E	Fl.R. period 5s	41 12	10	White round tower; 30.	Visible 008°-035° and 228°-268. F.W. shown from stack of San Carlos Milling Co.
14744 F 2354	Refugio Island.	10° 28.1' N 123° 26.9' E	Fl.W. period 7s	122 37	15	White metal tower; 66.	
14748 F 2356.4	Escalante, on ruins of wharf in Danao River.	10° 49.0' N 123° 33.0' E	Fl.R.	37 11	7	White concrete tower; 33.	Visible 250°-288°.
14750 F 2356.6	Matabas Island, Molocaboc.	10° 58.6' N 123° 32.6' E	Fl.W. period 5s	33 10	10	White metal and fiberglass tower; 33.	
14752 F 2362	Balamban.	10° 30.3' N 123° 42.9' E	Fl.W. period 5s	43 13	10	White metal tower; 28.	
14760 F 2363	Toledo.	10° 22.7' N 123° 38.3' E	Fl.R.		6	White concrete tower; 20.	
14764 F 2352	Guihulngan.	10° 07.2' N 123° 16.2' E	Fl.(3)W. period 10s	36 11	7	Fiberglass tower.	
14768 F 2364	Dumanjug, on beach at Tangil.	10° 04.2' N 123° 26.8' E	Fl.R. period 5s	33 10	12	White metal and fiberglass tower; 31.	
14772 F 2366	Pescador Island.	9° 55.4' N 123° 20.5' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	82 25	9	White concrete tower; 32.	
14774 F 2359.85	Looc Point.	9° 37.3' N 123° 19.2' E	Fl.W. period 7s	33 10		White metal and fiberglass tower; 33.	
14775 F 2350.5	Dacu.	9° 35.5' N 123° 08.9' E	Fl.W. period 5s				
14776 F 2350	South Bais Bay, jetty, E. head.	9° 33.3' N 123° 08.8' E	Fl.R.				
14780 F 2348	Amblan Point, SE. part Negros Island.	9° 27.9' N 123° 13.6' E	Fl.W. period 5s	36 11	10	White metal tower; 29.	Visible 140°-327°.
14781 F 2344.5	Sumilon.	9° 25.8' N 123° 23.4' E	Fl.W. period 5s	105 32		Concrete tower; 49.	
14783 F 2367	Minarcahan Point.	9° 18.0' N 123° 37.3' E	Fl.(3)W. period 10s	26 8	15	Fiberglass structure; 16.	
14784 F 2368	Port Canoan, Siquijor Island, front, near bridge, harbor, head.	9° 15.1' N 123° 35.7' E	Fl.R.		7	White triangular daymark point up, black stripe.	
14788 F 2368.1	-Rear, 777 meters 115° from front.	9° 14.9' N 123° 36.1' E	Fl.R.		7	White triangular daymark point down, black stripe.	

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PHILIPPINES							
14791 F 2371	Cambalaguio.	9° 09.2' N 123° 30.8' E	Fl.(3)W. period 10s	89 27	15	Fiberglass tower; 15.	
14792 F 2370	Lazi, Siguijor Island.	9° 07.4' N 123° 38.2' E	Fl.R.		4	Concrete tower; 33.	
14793 F 2369	Minalulan Point.	9° 07.3' N 123° 40.9' E	Fl.(2)W. period 10s	184 56	17	White metal tower; 66.	
14796 F 2344	Apo Island.	9° 05.0' N 123° 16.2' E	Fl.W. period 5s	428 130	21	Round concrete tower; 36.	
14800 F 2406	Capitancillo Island.	10° 59.4' N 124° 06.2' E	Fl.W. period 10s	98 30	15	Black metal tower, stone dwelling, red roof, white lantern; 85.	
14804 F 2408	Bogo Harbor, on reef at N. side of entrance.	11° 05.1' N 124° 01.7' E	Fl.R. period 5s	13 4	9	White square concrete tower, red diamond daymarks; 23.	
14808 F 2410	Chocolate Island, center.	11° 18.3' N 124° 03.8' E	Fl.R. period 3s	170 52	18	White concrete tower; 32.	Visible 250°-288°.
14810 F 2412.5	Carnasa Island.	11° 30.9' N 124° 06.0' E	Fl.(2)W. period 5s			Fiberglass structure.	
14812 F 2412	Malapascua Island.	11° 20.6' N 124° 06.6' E	Fl.W. period 5s	112 34	18	White metal framework tower; 36.	
	RACON		N(- •)				
14816 F 2360	N. side, entrance to Hagnaya Bay.	11° 07.1' N 123° 56.4' E	Fl.R. period 5s	46 14	7	Beacon.	Visible 036°-160° and 170°-181°.
14819 F 2405	Tabuelan.	10° 49.9' N 123° 52.1' E	Fl.W. period 5s	20 6	10	Metal tower; 20.	
14820 F 2404	Sogod Bay.	10° 45.0' N 124° 00.3' E	F.G.				Private light.
14824 F 2402	Bagacay Point.	10° 23.0' N 124° 01.1' E	Fl.(3)W. period 15s	144 44	20	White masonry tower; 72.	Visible 179°-043°. Reported obscured approaching from NE.
14826 F 2401	Tilhaon.	10° 21.3' N 124° 00.1' E	F.W.	66 20	7	Red, blue and white metal framework tower.	
CEBU HARBOR:							
14828 F 2400	-Bantolinao Point, reef, edge.	10° 20.1' N 123° 59.2' E	Fl.G. period 5s	30 9	11	White concrete tower; 30.	Visible 060°-294°.
14832 F 2399	-AVIATION LIGHT.	10° 18.9' N 123° 58.7' E	Al.Fl.W.G. period 6s	194 59	15	Concrete tower.	
14845 F 2393	-Shell Island.	10° 17.1' N 123° 54.1' E	Fl.(2)W. period 4s	39 12	10	Fiberglass structure; 36.	
14845.4 F 2398	-Lapu Lapu City.	10° 18.8' N 123° 56.9' E	Fl.R. period 5s	33 10	6	White concrete tower.	
14846 F 2390	-Cauit Island.	10° 16.3' N 123° 52.9' E	Fl.W. period 5s		10	Fiberglass structure.	
14848 F 2388	-Lauis Ledge.	10° 14.1' N 123° 53.5' E	Fl.W. period 10s	53 16	13	White metal mast, concrete structure; 26.	Visible 304°-184°.
BOHOL ISLAND:							
14852 F 2376	-Maribojoc.	9° 44.2' N 123° 50.5' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	43 13	9	White fiberglass tower; 32.	

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PHILIPPINES							
14856 <i>F 2386</i>	-Jetafe, on wharf.	10° 09.3' N 124° 09.5' E	Fl.R. period 5s	35 11	3	Fiberglass mast.	Visible 081°-166°06'.
14860 <i>F 2387</i>	-Tubigon, pier, head.	9° 57.4' N 123° 57.5' E	Fl.R. period 5s		10	Concrete structure.	
14861 <i>F 2387.7</i>	-Inabanga.	10° 01.9' N 124° 03.5' E	Fl.(2)R. period 3s			Fiberglass tower.	
14862 <i>F 2387.5</i>	-Catagbacan.	9° 51.6' N 123° 49.1' E	Fl.G. period 5s		12	Concrete structure.	
14863 <i>F 2378</i>	-Tagbilaran, No 1.	9° 39.5' N 123° 49.7' E	Fl.G. period 7s	33 10	6	Green hexagonal metal tower; 16.	
14864.3 <i>F 2378.4</i>	--No 5.	9° 39.4' N 123° 49.9' E	Fl.G. period 5s		7 2	Metal beacon, green square daymark.	
14864.4 <i>F 2378.6</i>	--No 7.	9° 39.1' N 123° 50.4' E	Fl.G. period 5s	30 9	3		
14864.8 <i>F 2378.7</i>	--No 8.	9° 39.0' N 123° 50.4' E	Fl.R. period 5s	7 2	3	Metal beacon, red triangular daymark point up; 7.	
14864.9 <i>F 2378.8</i>	--Pier.	9° 39.0' N 123° 50.7' E	Fl.R. period 5s	49 15	10		
14866 <i>F 2374.5</i>	-Argao.	9° 52.5' N 123° 36.4' E	Fl.(2)W. period 5s			Fiberglass structure.	
14868 <i>F 2380</i>	-Baclayan.	9° 37.2' N 123° 54.8' E	Fl.R. period 5s	40 12	3	White concrete tower; 33.	Visible 288°-098°.
14872 <i>F 2382</i>	-Loay, river entrance, E. side.	9° 36.0' N 124° 00.6' E	Fl.R. period 5s	32 10	7	White concrete tower; 31.	Visible 322°42'-064°42', 069°12'-070°48'.
14875 <i>F 2383.5</i>	-Gorda Point.	9° 36.0' N 124° 15.6' E	Fl.(2)W. period 4s			Fiberglass tower.	
14876 <i>F 2384</i>	-Jagna, inner end of wharf, S. coast of island.	9° 39.0' N 124° 21.9' E	Fl.R. period 5s	35 11	7	White concrete tower; 30.	Visible 268°54'-352°30'.
14876.5 <i>F 2384.3</i>	-Talisay.	9° 45.9' N 124° 35.6' E	Fl.(3)W. period 8s			Fiberglass tower.	
14877 <i>F 2384.6</i>	-Tugas Point.	10° 08.9' N 124° 37.1' E	Fl.W. period 5s			Fiberglass tower.	
14877.3 <i>F 2384.4</i>	-Ubay.	10° 02.9' N 124° 28.0' E	Fl.G. period 3s		10	Concrete structure.	
14877.6 <i>F 2385.7</i>	-Talbon Bohol.	10° 16.3' N 124° 21.9' E	Fl.W. period 3s			Concrete structure.	
14877.7 <i>F 2330</i>	Taklong Island.	10° 24.2' N 122° 30.3' E	Fl.W. period 5s	33 10	10	White metal and fiberglass tower.	
14877.8 <i>F 2385</i>	-Talibon.	10° 09.0' N 124° 19.6' E	Fl.R. period 5s		10	Concrete.	
14878 <i>F 2385.3</i>	-Tambo Island.	10° 11.5' N 124° 17.2' E	Fl.(2)R. period 5s			Fiberglass structure.	
14878.6 <i>F 2387.57</i>	-NW. Bank, No 1.	10° 03.5' N 123° 59.1' E	Fl.G. period 3s		7 2	Metal structure; 7.	
14878.8 <i>F 2387.58</i>	--No 2.	10° 00.5' N 123° 56.9' E	Fl.R. period 3s		7 2	Metal structure; 7.	
14879 <i>F 2387.6</i>	-Bagambanua.	10° 03.4' N 123° 54.0' E	Fl.(3)W. period 15s		7 2	Fiberglass structure.	
14879.6	-Pangangan Island.	9° 54.6' N 123° 48.8' E	Fl.R. period 5s				

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14880 <i>F 2375</i>	-Cabilao Island.	9° 53.4' N 123° 45.5' E	Fl.W. period 5s	33 10	8	Concrete tower; 30.	
14884 <i>F 2374</i>	Balicasag Island.	9° 31.0' N 123° 41.0' E	Fl.W. period 7s fl. 0.2s, ec. 6.8s	121 37	17	White metal octagonal tower; 98.	
14885 <i>F 2383</i>	Pamilican Island.	9° 29.4' N 123° 55.3' E	Fl.W. period 5s			Fiberglass structure.	
14888 <i>F 2416</i>	Biliran Strait.	11° 27.3' N 124° 28.7' E	Fl.W. period 4s	35 11	8	White concrete tower; 30.	Visible 270°-294° and 078°-126°.
14892 <i>F 2418</i>	Carigara.	11° 18.2' N 124° 41.2' E	Fl.G. period 5s	29 9	2	White concrete tower; 25.	Visible 075°-225°.
14896 <i>F 2423.1</i>	San Juanico Bridge, N. head.	11° 18.0' N 124° 58.3' E	Fl.G. period 2.5s		10		Navigable span marked by lights.
14907 <i>F 2421</i>	-Ivantacut.	11° 26.9' N 124° 52.6' E	Fl.R. period 5s		3	Concrete structure.	
14908 <i>F 2420</i>	Canauay Islet.	11° 26.4' N 124° 51.2' E	Fl.(3)W. period 15s	105 32	9	White octagonal metal tower; 66.	Visible 080°-265°. Channel is marked by lights and light buoys.
14912 <i>F 2423.5</i>	-Santa Rita.	11° 25.7' N 124° 57.7' E	Fl.W. period 5s		15		
14916 <i>F 2457</i>	Tacloban.	11° 15.1' N 125° 00.3' E	Fl.R. period 5s	52 16	15	White framework tower, concrete building.	Visible 031°-322°, obscured by Dio Island 309°-311°.
14920 <i>F 2458</i>	Jinamoc Island, W. side.	11° 15.5' N 125° 04.6' E	Fl.W. period 5s	78 24	12	White concrete tower; 30.	Partially obscured by land.
14924 <i>F 2456</i>	Mariquitdaquit Island.	11° 04.4' N 125° 09.3' E	Fl.W. period 4s	60 18	11	Black concrete tower; 32.	
14928 <i>F 2455</i>	Tolosa.	11° 04.1' N 125° 02.3' E	Fl.R. period 5s	416 127	12	Concrete tower.	
14932 <i>F 2454.7</i>	Abuyog.	10° 44.7' N 125° 00.8' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	77 23	24	White metal tower; 66.	
14932.5 <i>F 2425</i>	San Pedro.	10° 28.4' N 125° 13.7' E	Fl.W. period 5s	200 61	10	Fiberglass structure, white metal structure; 33.	
14933 <i>F 2252.7</i>	Kanhandon.	10° 27.6' N 125° 27.9' E	Fl.W. period 10s	46 14	10	White metal and fiberglass tower; 33.	
14935 <i>F 2253</i>	Capintac, on Dingat Island.	10° 26.5' N 125° 36.8' E	Fl.(4)W. period 12s				
14935.5 <i>F 2253.5</i>	-Loreto, Looc Bay.	10° 21.6' N 125° 34.8' E	Fl.R. period 5s				
14935.7 <i>F 2252.5</i>	Kahinaan Island.	10° 10.3' N 125° 27.7' E	Fl.W. period 7s	33 10	10	White metal and fiberglass structure.	
14936 <i>F 2426</i>	Liloan Harbor, on extreme N. point of Panaon Island.	10° 09.6' N 125° 07.1' E	Fl.R. period 5s	32 10	7	Concrete column; 30.	Visible 030°-340°.
14936.5 <i>F 2426.2</i>	Ilijan Island.	10° 04.0' N 125° 08.5' E	Fl.W. period 5s	118 36	10	White metal and fiberglass post; 33.	
14937 <i>F 2426.1</i>	Caligangan.	10° 07.5' N 125° 12.8' E	Fl.W. period 5s	692 211	10	White metal and fiberglass post; 33.	
14938 <i>F 2427</i>	Anahawan.	10° 15.4' N 125° 15.0' E	Fl.W. period 5s			Fiberglass structure.	
14938.5 <i>F 2427.2</i>	San Jose.	10° 15.9' N 125° 10.6' E	Fl.R. period 5s			Fiberglass structure.	

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14938.6 <i>F 2426.6</i>	St. Bernard.	10° 16.7' N 125° 08.3' E	Fl.W. period 5s		7	Concrete structure.	
14939 <i>F 2427.5</i>	Sogod.	10° 22.9' N 124° 58.7' E	Fl.W. period 5s			Fiberglass structure.	
14940 <i>F 2428</i>	Malitbog, Sogod Bay, near root of wharf.	10° 09.5' N 125° 00.1' E	Fl.R. period 3s	35 11	7	White metal and fiberglass tower; 33.	
14944 <i>F 2429</i>	Limasawa Island, N. head.	9° 57.8' N 125° 03.8' E	Fl.W. period 8s	128 39	5	Fiberglass tower.	
14948 <i>F 2430</i>	Maasin, boat landing.	10° 08.0' N 124° 50.4' E	Fl.R. period 5s	35 11	10	White concrete tower; 30.	Visible 279°-061°.
14952 <i>F 2434</i>	Canigao Island.	10° 14.9' N 124° 45.0' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	78 24	10	White metal octagonal tower; 67.	
14953 <i>F 2435</i>	Adam Reef.	10° 14.6' N 124° 42.2' E	Fl.W. period 5s	36 11	17	White hexagonal tower; 16.	
14954 <i>F 2435.5</i>	Tood Islets.	10° 15.6' N 124° 39.3' E	Fl.(3)W. period 15s	16 5	10	Metal structure.	
14956 <i>F 2436</i>	Hindang, fort, NW. corner.	10° 26.1' N 124° 43.7' E	Fl.G. period 5s	37 11	10	White metal and fiberglass tower; 33.	
14957 <i>F 2436.3</i>	Pacijan Island, N.	10° 43.5' N 124° 18.9' E	Fl.(3)W. period 5s				
14958.2 <i>F 2436.7</i>	Pacijan.	10° 36.3' N 124° 16.5' E	Fl.W. period 5s				
14960 <i>F 2438</i>	Baybay.	10° 40.5' N 124° 47.9' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	43 13	9	White fiberglass tower; 32.	Visible over an arc of 109°.
14964 <i>F 2437</i>	Poro Island.	10° 38.1' N 124° 28.4' E	F.R.	159 48	4	Concrete tower; 33.	Visible 265°-066°.
14968 <i>F 2442</i>	Ormoc.	11° 00.3' N 124° 36.5' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	43 13	9	White fiberglass tower; 30.	
14969 <i>F 2436.8</i>	Poro Island.	10° 37.7' N 124° 24.5' E	Fl.W. period 5s			White metal and fiberglass tower; 31.	
14970 <i>F 2442.5</i>	Calunangan.	10° 52.4' N 124° 30.1' E	Fl.(2)W. period 10s			Fiberglass structure.	
14971 <i>F 2442.2</i>	Pilar.	10° 48.2' N 124° 34.1' E	Fl.(2)W. period 10s			White metal and fiberglass tower; 33.	
14972 <i>F 2443</i>	Sacay Point.	10° 54.9' N 124° 24.9' E	Fl.R. period 5s		10	Metal and fiberglass tower.	Visible 008°-054°.
14976 <i>F 2440</i>	Albuera.	10° 54.9' N 124° 41.7' E	Fl.W. period 5s	39 12	10	Metal structure.	
14980 <i>F 2444</i>	Palompon, 229 meters N. of wharf.	11° 03.1' N 124° 23.0' E	Fl.R. period 5s	35 11	11	White concrete tower; 30.	Private light.
14984 <i>F 2484</i>	Catarman, on beach, N. coast of Samar.	12° 31.0' N 124° 39.3' E	F.R.	35 11	5	White concrete tower; 33.	Partially obscured by Hiraspan Island.
14988 <i>F 2474</i>	Allen, N. of entrance to Sabag River.	12° 30.1' N 124° 16.9' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	41 12	9	White fiberglass tower; 32.	Visible 043°-150°.
14992 <i>F 2482</i>	San Jose, Carangian.	12° 31.9' N 124° 29.2' E	Fl.W. period 5s	43 13	9	White fiberglass tower; 33.	
14996 <i>F 2446</i>	-Laoang Bay, Ipil Point.	12° 35.4' N 125° 00.0' E	Fl.W. period 5s				

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14997 F 2447	-Port Laoang.	12° 34.2' N 125° 00.3' E	Fl.R. period 5s		6		
15000 F 2480	-Tinau.	12° 36.6' N 124° 26.5' E	Fl.R. period 5s	32 10	7	Concrete mast; 30.	
15004 F 2448	Batag Island.	12° 39.5' N 125° 03.6' E	Fl.(3)W. period 10s	313 95	20	White round concrete tower, dwelling, red and white lantern; 102.	
15005 F 2448.5	Sila Point.	12° 24.3' N 125° 20.1' E	Fl.W. period 10s			Fiberglass structure.	
15005.5 F 2448.3	Hiunatangan Island.	12° 17.4' N 125° 24.0' E	Fl.R. period 5s			Fiberglass structure.	
15006 F 2449	Linao Island.	12° 00.9' N 125° 33.1' E	Fl.W. period 5s		10		
15008 F 2452	Borongan.	11° 36.8' N 125° 26.3' E	Fl.W. period 5s	36 11	10	White metal tower; 23.	Partially obscured by Andis and Divinubo Islands.
15012 F 2450	Divinubo Island, highest point.	11° 35.8' N 125° 30.2' E	Fl.W. period 10s	136 41	11	White framework tower, house; 46.	Visible 172°-335°.
15014 F 2452.5	Tugnung Point.	11° 20.9' N 125° 37.9' E	Fl.W. period 5s			Fiberglass structure.	
15016 F 2453	Guiuan, on church.	11° 01.9' N 125° 43.4' E	Fl.W. period 5s		7	Spire.	
15017 F 2245.5	Punta Alegria, on Siargao Island.	10° 03.7' N 126° 04.0' E	Fl.(2)W. period 10s				
15020 F 2454	Suluán Island.	10° 45.3' N 125° 57.9' E	Fl.(3)W. period 15s	452 138	28	Metal tower; 52.	Visible 162°-142°.
15022 F 2465	Daram, on Danaodanauan Island.	11° 44.1' N 124° 42.8' E	Fl.W. period 5s			Fiberglass structure.	
15024 F 2462	Uacuac Island, N. point, at entrance to Calbiga River.	11° 39.9' N 124° 58.3' E	Fl.W. period 5s	37 11	10	Concrete tower; 32.	Visible 009°-197°.
15028 F 2464	Catbalogan.	11° 46.7' N 124° 52.8' E	Fl.R. period 5s	100 30	10	White concrete tower; 24.	Visible 347°-104°, obscured by Darajuy and Cagdullon Islands.
15032 F 2470	Gandara River, entrance, S. side.	11° 58.8' N 124° 41.5' E	Fl.W. period 5s	33 10	12	White metal and fiberglass tower; 30.	Visible 103°-162°.
15034 F 2468	Santo Nino.	11° 53.4' N 124° 27.9' E	Fl.W. period 5s			Fiberglass structure.	
15036 F 2466	Cabilison Island.	11° 53.3' N 124° 16.7' E	Fl.R. period 5s	231 70		White hexagonal metal tower; 33.	Partially obscured by Alamargo, Maripipi and Tagapula Islands.
15037 F 2473	Malaga.	12° 14.1' N 124° 22.5' E	Fl.W. period 5s			White metal and fiberglass tower; 33.	
15039 F 2415	Kawayan, N. coast of Biliran Island.	11° 40.9' N 124° 21.3' E	Fl.W. period 5s			Fiberglass structure.	
15040 F 2413	Mabini Light.	11° 34.2' N 124° 15.6' E	Fl.W. period 5s		18	Metal structure.	
15044 F 2472	Calbayog, W. end of town at mouth of river.	12° 04.0' N 124° 35.5' E	Fl.R. period 5s	33 10	7	White concrete tower; 33.	Visible 296°-073°.
15048 F 2284	Pulauan.	8° 38.2' N 123° 22.9' E	Fl.(2)W. period 5s	146 44	4	Concrete tower; 32.	Visible 126°-311°.
15050 F 2281.6	Pinahon Island.	8° 39.4' N 123° 30.6' E	Fl.(2)W. period 10s				

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15051 <i>F 2281.3</i>	Baliangao Point.	8° 39.9' N 123° 37.3' E	Fl.W. period 5s			White metal and fiberglass tower; 33.	
15051.8 <i>F 2281.8</i>	Silino Island.	8° 51.3' N 123° 25.1' E	Fl.W. period 5s				
15052 <i>F 2282</i>	Tagolo Point.	8° 43.6' N 123° 22.8' E	Fl.W. period 10s	109 33	15	White concrete house; 26.	Visible 002°-265°.
15056 <i>F 2281</i>	Plaridel.	8° 36.7' N 123° 43.6' E	Fl.R. period 5s	20 6	7		
15060 <i>F 2280.4</i>	Inamucan Bay, W. side on edge of reef.	8° 36.6' N 123° 43.7' E	F.R.				Private light.
15064 <i>F 2280</i>	Polo Point.	8° 35.9' N 123° 45.4' E	Fl.W. period 3s	60 18	20	White metal tower; 53.	Visible 121°-327°.
15066 <i>F 2278</i>	Oroquieta City.	8° 29.7' N 123° 47.8' E	Fl.W. period 4s				
15068 <i>F 2276</i>	Tabu Point.	8° 19.5' N 123° 51.8' E	Fl.W. period 5s	32 10	15	White concrete tower; 30.	Visible 156°-357°.
15069 <i>F 2275.5</i>	Sinacaban.	8° 18.0' N 123° 51.9' E	Fl.W. period 5s				
15070 <i>F 2275</i>	Panguil Bay.	8° 02.6' N 123° 47.3' E	Fl.G. period 5s			7 White metal and fiberglass tower; 33.	
15080 <i>F 2274</i>	Ozamiz, Misamis Point.	8° 08.4' N 123° 50.8' E	Fl.R. period 10s	55 17	9	Concrete tower, fort; 30.	
15081 <i>F 2269</i>	Labuay.	8° 09.7' N 123° 57.0' E	Fl.W. period 5s				
15082 <i>F 2270</i>	Kolambugan Range, front.	8° 06.8' N 123° 53.2' E	F.R.	65 20	7		
15084 <i>F 2270.1</i>	-Rear, about 180 meters 193° from front.	8° 06.7' N 123° 53.2' E	F.R.	75 23	7	Beacon, triangular daymark point down; 30.	
15088 <i>F 2268</i>	Iligan, bank of river, at root of dock.	8° 13.9' N 124° 13.9' E	Fl.R. period 2s	37 11	7	White metal tower; 33.	
15092 <i>F 2266</i>	Macabalan Point.	8° 30.3' N 124° 39.8' E	Fl.W. period 5s	58 18	9	White metal and fiberglass tower; 53.	Visible 119°-300°.
15093 <i>F 2266.5</i>	Molugan Point.	8° 31.8' N 124° 34.3' E	Fl.G. period 5s	39 12	7	Gray tower; 36.	
15094 <i>F 2267</i>	Sulauan Point.	8° 36.8' N 124° 28.6' E	Fl.W. period 10s			White metal and fiberglass tower; 33.	
15095 <i>F 2267.5</i>	Salimbal.	8° 20.2' N 124° 15.6' E	Fl.W. period 10s				
15096	Bugo.	8° 30.3' N 124° 45.2' E	F.W., F.G.	135 41	W. 11	Metal water tank.	
15097 <i>F 2265.5</i>	Tagoloan.	8° 31.6' N 124° 45.0' E	Fl.W. period 4s	142 43	11	White beacon, control tower.	
15098 <i>F 2265</i>	Villanueva.	8° 34.6' N 124° 45.6' E	F.R.			Red and white tower.	
15098.5 <i>F 2264.8</i>	Alutaya Reef.	8° 40.3' N 124° 41.3' E	Fl.R. period 5s				
15099 <i>F 2264.5</i>	Balingasag.	8° 42.8' N 124° 45.3' E	Fl.W. period 10s			White metal and fiberglass tower; 33.	
15100 <i>F 2264</i>	Balinguan, pier, root.	9° 00.4' N 124° 50.8' E	F.R.	25 8		Gray tower.	Private light.

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15101 <i>F 2264.3</i>	Binuangan.	8° 57.8' N 124° 46.3' E	Fl.W. period 5s	33 10	15	White metal and fiberglass tower.	
15104 <i>F 2262</i>	Mambajao, angle of pier, Camiguin Island.	9° 15.3' N 124° 42.9' E	Fl.(2)W. period 6s	42 13	7	White concrete tower; 38.	
15104.3 <i>F 2261.9</i>	Catarman.	9° 12.0' N 124° 38.2' E	Fl.(3)W. period 10s				
15105 <i>F 2263.5</i>	Farol Point.	9° 04.8' N 124° 46.2' E	Fl.W. period 5s	33 10		White metal and fiberglass tower; 31.	
15106 <i>F 2263</i>	-E. side of island.	9° 08.3' N 124° 47.6' E	Fl.G. period 5s		7		
15108 <i>F 2261.4</i>	Gingoog Bay, on pier.	8° 50.6' N 125° 04.2' E	Fl.R. period 5s	36 11		Structure, red and white diamond daymark.	
15110 <i>F 2261.5</i>	-NW.	8° 51.3' N 125° 04.0' E	Fl.G. period 5s		7		
15112 <i>F 2261.7</i>	Medina.	8° 54.5' N 125° 01.4' E	Fl.G. period 5s		7		
15116 <i>F 2258</i>	Nasipit Harbor.	8° 59.0' N 125° 19.9' E	Fl.W. period 5s	94 29	7	White concrete tower; 30.	
15120 <i>F 2256</i>	Agusan River, entrance.	9° 00.9' N 125° 31.4' E	Fl.R. period 5s	36 11	7	Concrete beacon; 36.	
15121	Magsaysay.	9° 00.7' N 125° 10.3' E	Fl.(2)W. period 10s				
15124 <i>F 2254</i>	Cabadbaran.	9° 07.2' N 125° 31.4' E	Fl.W. period 7s	33 10	16	White metal and fiberglass tower; 66.	
15124.5 <i>F 2253.9</i>	Diuata Point.	9° 05.5' N 125° 12.5' E	Fl.W. period 10s	66 20	10	White metal post, fiberglass tower; 33.	
15125 <i>F 2426.5</i>	Panaon Island, Benit Point.	9° 54.8' N 125° 17.0' E	Fl.W. period 5s			White concrete tower; 66.	
15125.5 <i>F 2253.8</i>	Punta Beach.	9° 34.0' N 125° 25.1' E	Fl.W. period 10s			White metal and fiberglass tower; 33.	
15126 <i>F 2252</i>	Sumilon Island.	9° 54.9' N 125° 26.6' E	Fl.(3)W. period 15s				
15128 <i>F 2250</i>	Surigao.	9° 47.0' N 125° 30.1' E	Fl.(2)R. period 5s	23 7	8	White pyramid tower, black spiral staircase.	Visible 139°-029°.
15130 <i>F 2247.5</i>	Hinatuan Island, E.	9° 46.9' N 125° 44.3' E	Fl.W. period 7s	46 14	10	White metal and fiberglass structure; 33.	
15131 <i>F 2247.6</i>	-North.	9° 48.6' N 125° 43.0' E	Fl.W. period 5s	36 11	10	White metal and fiberglass tower; 31.	
15132 <i>F 2248</i>	Rasa Island, S. end.	9° 47.5' N 125° 35.1' E	Fl.(3)W. period 10s	10 3	7	Square concrete tower; 10.	Visible 235°-146°.
15134 <i>F 2247</i>	-S. side.	9° 44.6' N 126° 01.9' E	Fl.W. period 5s	33 10	6		
15134.4 <i>F 2247.2</i>	Dapa.	9° 44.7' N 126° 02.6' E	Fl.W. period 5s	32 10	6	Concrete tower; 29.	
15135 <i>F 2246.4</i>	-Socorro.	9° 37.2' N 125° 58.0' E	Fl.W. period 5s				
15136 <i>F 2246</i>	Dahakit Point.	9° 33.8' N 125° 56.0' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	141 43	9	White fiberglass tower; 33.	
15138 <i>F 2245</i>	Auqui.	9° 23.4' N 126° 03.0' E	Fl.W. period 10s			Fiberglass structure.	

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PHILIPPINES							
15140 <i>F 2244</i>	Cautit Point.	9° 18.4' N 126° 12.3' E	Fl.(3)W. period 5s	36 11	9	White concrete tower; 32.	Visible 157°-001°.
15142 <i>F 2243.5</i>	Maboa.	9° 05.2' N 126° 11.9' E	Fl.(2)W. period 15s			Fiberglass structure.	
15144 <i>F 2242</i>	Arangasa Island.	8° 52.7' N 126° 20.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	36 11	15	White concrete tower; 36.	Visible 176°-350°.
15145 <i>F 2243</i>	-Bitanogan Bay.	8° 53.6' N 126° 19.6' E	Fl.W. period 10s				
15146 <i>F 2240</i>	Sanco Point.	8° 14.8' N 126° 27.2' E	Fl.W. period 5s		15	Concrete structure.	
15147.5 <i>F 2239.3</i>	Pusan Point.	7° 17.6' N 126° 36.1' E	Fl.W. period 5s			Concrete structure.	
15148 <i>F 2238</i>	Mati, Pujada Bay, E. of pier, on beach.	6° 57.1' N 126° 13.2' E	Fl.R. period 5s	36 11	4	White framework tower; 33.	Visible seaward over an arc of 180°.
15150 <i>F 2237</i>	Pujada Island.	6° 46.8' N 126° 16.6' E	Fl.R. period 5s		12		
15151 <i>F 2239</i>	Lamigan Point.	6° 47.9' N 126° 20.3' E	Fl.W. period 5s	33 10	12	Concrete tower; 32.	
15152 <i>F 2236</i>	Cape San Augustin.	6° 16.3' N 126° 11.7' E	Fl.W. period 5s	112 34	15	Concrete tower; 32.	
15156 <i>F 2138</i>	Palmas Island.	5° 33.8' N 126° 34.8' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 11.5s	426 130	23	White framework structure; 98.	
	RACON		M(- -)				(3 & 10cm).
15160 <i>F 2232</i>	Talikud Island.	6° 54.5' N 125° 41.4' E	Fl.W. period 5s		10	Round concrete tower; 33.	Visible 313°-151°.
15160.1 <i>F 2233</i>	Paet Point.	6° 54.3' N 125° 46.3' E	Fl.W. period 5s				
15161 <i>F 2235.3</i>	Mapanga.	7° 03.0' N 125° 57.0' E	Fl.(2)W. period 10s				
15161.5 <i>F 2226.8</i>	Kiambing.	6° 01.8' N 124° 30.5' E	Fl.W. period 5s	328 100	12	Metal tower; 20.	
15162 <i>F 2226.7</i>	Buca Point.	5° 57.5' N 124° 40.3' E	Fl.(2)W. period 5s			Fiberglass structure.	
15163 <i>F 2235</i>	Panacan.	7° 09.2' N 125° 39.6' E	Fl.G. period 5s		8	Concrete structure.	
15164 <i>F 2234</i>	Davao, on beach, S. of wharf.	7° 04.6' N 125° 37.5' E	Fl.G. period 5s	37 11	10	White metal and fiberglass tower; 33.	Visible 226°-033°.
15165 <i>F 2231.7</i>	Pasig point.	6° 49.4' N 125° 24.6' E	Fl.W. period 5s				
15166 <i>F 2234.5</i>	Lanang Point.	7° 07.3' N 125° 39.7' E	Fl.R. period 5s		11	Concrete structure.	
15167 <i>F 2235.5</i>	-Bitaugan.	6° 46.4' N 126° 04.6' E	Fl.W. period 10s			Fiberglass structure.	
15167.3 <i>F 2235.7</i>	-Sigaboy Island.	6° 37.7' N 126° 04.1' E	Fl.W. period 5s			Fiberglass structure.	
15168 <i>F 2230</i>	Colapsin Point.	6° 37.9' N 125° 25.7' E	Fl.W. period 5s	244 74	15	Concrete structure.	Visible 047°-313°.

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PHILIPPINES							
15172 <i>F 2231</i>	Malalag Bay, NE. side of bay.	6° 36.8' N 125° 25.6' E	Fl.R. period 5s	444 135	15	Concrete structure.	Visible 306°-170°.
15176 <i>F 2231.2</i>	Port Malalag.	6° 35.9' N 125° 24.7' E	Fl.W. period 5s	102 31	15	Concrete structure.	Visible 108°-354°.
15178 <i>F 2231.3</i>	-Malalag River.	6° 36.2' N 125° 24.0' E	Fl.R. period 5s		7	Concrete structure.	
15180 <i>F 2231.4</i>	-Bolton Reef.	6° 37.6' N 125° 24.5' E	Fl.W. period 5s	16 5	11	White concrete beacon.	
15181 <i>F 2229</i>	Tubalan Head.	6° 30.0' N 125° 35.6' E	Fl.(2)G. period 5s			Fiberglass structure.	
15181.3 <i>F 2228.9</i>	Tingulo Point.	6° 21.6' N 125° 38.3' E	Fl.W. period 10s				
15181.5 <i>F 2228.7</i>	Davao del Sur.	6° 14.9' N 125° 41.4' E	Fl.(3)W. period 15s			Fiberglass structure.	
15181.7 <i>F 2228.6</i>	Banos Point.	5° 55.3' N 125° 39.6' E	Fl.W. period 10s				
15181.8 <i>F 2227</i>	Makar.	6° 05.8' N 125° 09.6' E	Fl.G. period 5s				
15182 <i>F 2227.2</i>	Canalasan Cove.	5° 49.6' N 125° 12.2' E	Fl.W. period 5s	36 11	5	Concrete post; 25.	
15184 <i>F 2228</i>	Tinaca Point.	5° 33.3' N 125° 20.0' E	Fl.W. period 5s	140 43	11	White concrete tower; 35.	
15185 <i>F 2228.3</i>	Balut Island, on Manamil Point.	5° 22.2' N 125° 21.1' E	Fl.W. period 5s			Fiberglass structure.	
15185.5 <i>F 2228.5</i>	Olanivan Island.	5° 30.9' N 125° 29.4' E	Fl.W. period 8s			Fiberglass structure.	
15187 <i>F 2226.2</i>	Tapian Point.	7° 08.8' N 124° 03.8' E	Fl.W. period 7s			White concrete tower; 33.	
15188 <i>F 2226</i>	Cotabato, river entrance.	7° 15.3' N 124° 11.7' E	Fl.G. period 5s	34 10	10	Metal tower; 30.	
15189 <i>F 2226.1</i>	Bongo Island.	7° 17.8' N 124° 01.7' E	Fl.W. period 10s				
15190 <i>F 2225.5</i>	Polloc Harbor.	7° 21.1' N 124° 13.2' E	Fl.R. period 5s		15	Concrete structure.	
15191.5 <i>F 2225.3</i>	Sultan Naga Dimaporo.	7° 47.8' N 123° 43.0' E	Fl.G. period 5s		10		
15191.7 <i>F 2225.2</i>	Tukuran.	7° 50.8' N 123° 34.5' E	Fl.W. period 7s				
15192 <i>F 2225</i>	Pagadian Bay.	7° 49.3' N 123° 26.2' E	Fl.R. period 5s		12	Metal mast; 33.	
15194 <i>F 2224.7</i>	Dumagok Island.	7° 47.5' N 123° 26.2' E	Fl.(2)W. period 5s		12	Fiberglass structure.	
15195 <i>F 2224.5</i>	Tambatan Point.	7° 26.0' N 123° 27.0' E	Fl.W. period 10s				
15196 <i>F 2224</i>	Margosatubig, pier, head.	7° 34.5' N 123° 10.0' E	Fl.(2)W. period 5s		6	Fiberglass mast; 13.	
15197 <i>F 2224.2</i>	Malangas.	7° 37.5' N 123° 02.4' E	Fl.(2)W. period 10s			Fiberglass structure.	
15198 <i>F 2222.5</i>	Naga.	7° 47.0' N 122° 41.6' E	Fl.(3)W. period 15s			Fiberglass structure.	

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PHILIPPINES							
15200 <i>F 2218</i>	Little Santa Cruz Island.	6° 53.1' N 122° 02.5' E	Fl.(3)W. period 15s	53 16	20	White framework structure; 53.	Partially obscured by Great Santa Cruz Island.
15204 <i>F 2220</i>	Zamboanga, outer extremity of Government Wharf.	6° 54.1' N 122° 04.4' E	Fl.R. period 5s	36 11	9	Beacon; 30.	
15212 <i>F 2219</i>	-Ruined pier, head.	6° 54.2' N 122° 04.3' E	F.R.			Wooden post, white triangular daymark point up; 10.	
15214 <i>F 2210</i>	Batorampon Point.	7° 06.4' N 121° 53.9' E	Fl.(3)W. period 8s				
15214.3 <i>F 2209</i>	Sirawai.	7° 35.2' N 122° 08.3' E	Fl.(3)W. period 6s	33 10		White steel and fiberglass tower; 33.	
15214.5 <i>F 2208</i>	Santa Maria.	7° 45.6' N 122° 06.2' E	Q.(2)W. period 2s				
15214.7 <i>F 2207.5</i>	Murcielagos.	8° 07.0' N 122° 26.5' E	Fl.W. period 7s	36 11	15	Metal and fiberglass tower; 33.	
15214.8 <i>F 2207.8</i>	Coronado Point.	7° 57.4' N 122° 13.3' E	Fl.(2)W. period 10s				
15215 <i>F 2207</i>	Sindangan.	8° 09.7' N 122° 39.6' E	Fl.(4)W. period 15s				
15216 <i>F 2214</i>	Sibago Island.	6° 44.5' N 122° 24.1' E	Fl.W. period 10s	705 215	32	Galvanized metal tower; 75.	
15220 <i>F 2216</i>	Malamaui Island.	6° 44.6' N 121° 59.5' E	Fl.R. period 5s	36 11	7	Concrete tower; 33.	Visible 190°-265° and in Isabela Channel.
15222 <i>F 2221</i>	Kulibato Point.	6° 40.3' N 122° 09.6' E	Fl.W. period 5s	236 72	7	Metal tower; 36.	
15224 <i>F 2206</i>	Mataja Island, S. point.	6° 33.9' N 121° 41.9' E	Fl.W. period 5s	62 19		Red framework structure; 49.	Visible 172°-090°.
15228 <i>F 2204</i>	Tatalan Islands, S. end.	6° 13.0' N 121° 50.2' E	Fl.W. period 5s	45 14	12	White concrete tower; 29.	Visible 260°-145°.
15232 <i>F 2196</i>	Jolo Harbor.	6° 03.4' N 121° 00.0' E	Fl.W.	58 18	18	White metal framework tower; 52.	
15236 <i>F 2192</i>	Siasi Island, Siasi Wharf.	5° 32.8' N 120° 48.8' E	F.R.			Mast; 16.	
15236.5 <i>F 2192.5</i>	-Busbus Pt.	5° 34.4' N 120° 49.2' E	Fl.W. period 5s	30 9	7	Concrete structure.	
15240 <i>F 2200</i>	N. Ubian Island.	6° 10.4' N 120° 27.5' E	Fl.W. period 5s	35 11	18	White concrete tower; 32.	Visible 086°-289°.
15244 <i>F 2194</i>	Pearl Bank.	5° 50.0' N 119° 44.0' E	Fl.W. period 5s	62 19	15	Red round steel tower; 57.	Partially obscured by trees 018°-020° and 031°-033°.
15246 <i>F 2189</i>	Saluag Island.	4° 35.4' N 119° 28.1' E	Fl.W. period 5s	95 29	20	Metal structure.	
15248 <i>F 2190</i>	Port Bongao, extremity of reef.	5° 02.1' N 119° 46.5' E	Fl.W. period 5s	30 9	12	Concrete tower; 32.	Visible 294°-339°.
15252 <i>F 2191</i>	New Batu Batu, on pier.	5° 04.1' N 119° 53.0' E	Fl.G. period 5s	14 4	1	Wooden tripod.	

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RUSSIA							
BERING STRAIT:							
15260 <i>M 8232</i>	-Pamyatnik Dezhneva.	66° 00.7' N 169° 43.5' W	L.Fl.W. period 6s fl. 2s, ec. 4s	295 90	14	White concrete tower, platform; 33.	Visible 215°-010°. Seasonal. Reserve light Fl.(3)W. 60s 18M 0.1 mile E.
15268 <i>M 8226</i>	-Ostrov Ratmanova (Big Diomed Island), N. shore.	65° 48.5' N 169° 02.3' W	Fl.W. period 5s fl. 0.5s, ec. 4.5s	138 42	11	White four-sided pyramid, platform; 13.	Shown Jul. 25 to Dec. 1.
ZALIV LAVRENTIYA:							
15272 <i>M 8220</i>	-Mys Nunyamo.	65° 37.1' N 170° 38.4' W	L.Fl.W. period 8s fl. 2s, ec. 6s	75 23	10	Four-sided truncated pyramid, orange trapezoidal daymark, white stripe; 16.	Shown Jul.25 to Dec.1.
15280 <i>M 8214</i>	-Mys Krigygun.	65° 28.1' N 171° 03.3' W	Fl.W. period 4s fl. 0.5s, ec. 3.5s	72 22	11	Pyramid structure, platform, white trapezoidal daymark, black stripe; 30.	Visible 250°-080°. Shown Jul. 25 to Dec. 1.
15281 <i>M 8216</i>	-Mys Khargilakh.	65° 35.3' N 170° 58.9' W	Fl.W. period 5s fl. 0.5s, ec. 4.5s	43 13	7	Metal post, platform, orange rectangular daymark, white stripe; 36.	Shown Jul. 25 to Dec.1. Radar reflector.
15281.1 <i>M 8217</i>	-Lavrentiya.	65° 35.6' N 171° 02.0' W	Fl.R. period 1.5s fl. 0.5s, ec. 1s	115 35	3	White four-sided truncated pyramid, black stripe; 23.	Shown Jul. 25 to Dec. 1. Radar reflector.
15282 <i>M 8212</i>	Lorino.	65° 30.5' N 171° 38.9' W	Fl.W. period 5s fl. 0.5s, ec. 4.5s	66 20	13	Orange metal post, platform, green rectangular daymark; 33.	Shown Jul.25 to Dec.1. Radar reflector.
15283 <i>M 8211</i>	Mechigmenskaya Guba.	65° 28.7' N 172° 04.2' W	Fl.W. period 5s fl. 0.5s, ec. 4.5s	26 8	10	White metal post, platform, green rectangular daymark; 20.	Shown Jul.25 to Dec.1. Radar reflector.
15284 <i>M 8208</i>	Mys Nygligan.	65° 04.1' N 172° 05.7' W	Fl.W. period 2.5s fl. 0.5s, ec. 2s	152 46	10	White square pyramid, black band, platform; 36.	Shown Jul. 25 to Dec.1.
15288 <i>G 7110</i>	Saint Lawrence Island, NW. end, AVIATION LIGHT.	63° 46.0' N 171° 44.0' W	Al.Fl.W.G.				
15289 <i>M 8210</i>	Ostrov Arakamchechen.	64° 45.4' N 172° 03.9' W	L.Fl.W. period 10s fl. 2s, ec. 8s	161 49	10	Metal post, platform, white rectangular daymark, black stripe; 36.	Shown Jul.25 to Dec.1.
15289.1 <i>M 8195</i>	Yanrakynnot.	64° 54.6' N 172° 30.3' W	Fl.W. period 10s fl. 1s, ec. 9s	118 36	9	Metal post, platform, white rectangular daymark, black stripe; 36.	Shown Jul.25 to Dec.1.
15289.3 <i>M 8194.2</i>	Ostrov Kynkay.	64° 40.6' N 172° 43.4' W	Fl.W. period 2.5s fl. 0.5s, ec. 2s	144 44	6	White square truncated pyramid, platform; 20.	Shown Jul. 25 to Dec.1.
15289.7 <i>M 8194.8</i>	Ostrov Nuneangan.	64° 36.7' N 172° 20.5' W	Fl.W. period 5s fl. 0.5s, ec. 4.5s	394 120	10	Orange wooden cabin, white stripe; 6.	Shown Jul. 25 to Dec. 1.
15300 <i>M 8196</i>	Mys Chaplina.	64° 24.3' N 172° 14.2' W	L.Fl.W. period 6s fl. 2s, ec. 4s	66 20	14	Brown four-sided metal framework pyramid, white rectangular daymark, black stripe; 49.	Reserve light Fl.W. 12s 11M. Radar reflector.
15302 <i>M 8194</i>	Mys Galechnyy.	64° 25.5' N 172° 47.8' W	Fl.W. period 5s fl. 1s, ec. 4s	16 5	10	Orange four-sided truncated pyramid; 23.	Shown Jul.25 to Dec.1.
15303 <i>M 8193</i>	Novoye Chapalino.	64° 29.8' N 172° 51.3' W	Fl.W. period 5s fl. 0.5s, ec. 4.5s	69 21	10	Mast, platform, orange rectangular daymark, white stripe; 30.	Shown Jul.25 to Dec.1.
15304 <i>M 8192</i>	Mys Ploskiy.	64° 18.6' N 172° 50.9' W	L.Fl.W. period 10s fl. 2s, ec. 8s	210 64	11	Metal post, platform, white rectangular daymark; 30.	Shown Jul.25 to Dec.1.

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RUSSIA							
15308 <i>M 8190</i>	Kivak, about 4.7 kilometers SW. of Mys Ploskiy.	64° 16.1' N 172° 56.8' W	Fl.W. period 4s fl. 0.5s, ec. 3.5s	157 48	11	Metal mast with platform, white rectangular daymark, black stripe; 36.	Shown Jul.25 to Dec.1.
15312 <i>M 8188</i>	Gora Lysaya Golova.	64° 17.9' N 173° 21.9' W	Fl.W. period 6s fl. 0.5s, ec. 5.5s	240 73	14	Four-sided truncated pyramid, white trapezoidal daymark, black stripe; 20.	Shown Jul.25 to Dec.1.
BUKHTA PROVIDENIYA:							
15316 <i>M 8186</i>	-Mys Gaydamak, W. side of entrance to Reyd Plover.	64° 22.6' N 173° 21.8' W	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	8	White square brick tower, red band; 26.	Shown Jul. 25 to Dec. 1. Radar reflector.
15317 <i>M 8183</i>	-Bukhta, Yasnaya Polyana, Range, front.	64° 26.6' N 173° 10.8' W	Fl.G. period 1.5s fl. 0.5s, ec. 1s	43 13	5	Black mast, platform, white rectangular daymark, black stripe; 26.	Visible on range line only. Shown Jul.25 to Dec.1.
15317.5 <i>M 8183.1</i>	--Rear, 366 meters 035°48' from front.	64° 26.7' N 173° 10.3' W	L.Fl.G. period 6s fl. 2s, ec. 4s	46 14	5	Mast, platform, white rectangular daymark, black stripe; 26.	Visible on range line only. Shown Jul.25 to Dec.1.
15320 <i>M 8180</i>	-Komsomol'skiye, Range, front.	64° 25.6' N 173° 11.5' W	Fl.R. period 1.5s fl. 0.5s, ec. 1s	46 14	9	Orange concrete three-sided pyramid, white stripe, platform; 26.	Visible on range line only. Shown Jul.25 to Dec.1.
15324 <i>M 8182</i>	--Rear, 224 meters 070°36' from front.	64° 25.6' N 173° 10.7' W	L.Fl.R. period 6s fl. 2s, ec. 4s	105 32	9	Orange concrete three-sided pyramid, white stripe, platform; 29.	Visible on range line only. Shown Jul. 25 to Dec. 1.
-Bukhta Emma:							
15328 <i>M 8176</i>	--Approach Range, front, SW. extension of Mys Likhacheva.	64° 25.4' N 173° 15.4' W	L.Fl.G. period 6s fl. 2s, ec. 4s	121 37	8	White stone three-sided pyramid, red stripe; 30.	Reserve light Q.W. 8M. Shown Jul.25 to Dec.1.
15332 <i>M 8178</i>	--Rear, 567 meters 051°54' from front.	64° 25.5' N 173° 14.8' W	L.Fl.G. period 6s fl. 2s, ec. 4s	167 51	8	White stone three-sided pyramid, red stripe; 36.	Reserve light Iso.W. 2s 8M. Shown Jul.25 to Dec.1.
15336 <i>M 8173</i>	-Zapadnyy.	64° 22.5' N 173° 25.5' W	Fl.W. period 5s fl. 1s, ec. 4s	30 9	2	White trapezoidal daymark, red stripe; 20.	Shown Jul. 25 to Dec. 1.
15340 <i>M 8172.5</i>	-Mys Severnyy.	64° 20.6' N 173° 31.6' W	Fl.W. period 3s fl. 1s, ec. 2s	108 33	8	Four-sided pyramid, platform, white trapezoidal daymark; 23.	Shown Jul.25 to Dec.1.
15344 <i>M 8172</i>	-Mys Lesovskogo.	64° 20.5' N 173° 34.3' W	L.Fl.W. period 10s fl. 2s, ec. 8s	167 51	18	Red mast, white rectangular daymark; 30.	Shown Jul.25 to Dec.1.
ANADYRSKIY LIMAN:							
15345 <i>M 8169</i>	-Bukhta Melkaya Range, front.	64° 47.6' N 177° 34.1' E	2 V.Q.R.	187 57	11	Four-sided metal framework tower, black stripe, white rectangular daymark; 89.	Visible 069°30'-076°30'.
15345.01 <i>M 8169.1</i>	--Rear, 732 meters 073° from front.	64° 47.7' N 177° 35.0' E	Iso.R. period 3s	335 102	11	Four-sided metal framework tower, white stripe; 82.	Visible 069°30'-076°30'.
15348 <i>M 8150</i>	Mys Navarin.	62° 22.2' N 179° 09.6' E	Fl.W. period 8s fl. 1s, ec. 7s	246 75	18	Red octagonal concrete tower, white bands; 56.	Visible 223°-350°. Radiobeacon.
15352 <i>M 8153</i>	Mys Korobitsina.	62° 49.8' N 179° 34.3' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	180 55	8	White round structure, metal framework tower, red bands; 39.	Shown Jul. 20 to Nov. 1.
15353 <i>M 8157</i>	Beringovskiy Range, front.	63° 03.8' N 179° 20.5' E	Oc.R. period 4s	62 19	7	Black and white four-sided concrete tower; 43.	Shown Jul.20 to Nov.1.
15353.1 <i>M 8157.1</i>	-Rear, 1.2 miles 139° from front.	63° 04.5' N 179° 18.4' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	167 51	7	Black and white four-sided concrete tower; 33.	Visible 137°30'-140°30'.

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RUSSIA							
15353.5 <i>M 8157.5</i>	-Pier.	63° 03.8' N 179° 22.5' E	Oc.R. period 3s	33 10	3	Red metal post; 20.	Shown Jul.20 to Nov.1.
15356 <i>M 8159</i>	Mys Barykova.	63° 05.8' N 179° 26.8' E	Fl.W. period 4s fl. 1s, ec. 3s	338 103	9	Red octagonal concrete tower; 26.	Shown Jul. 20 to Nov. 1.
ZALIV KORFA:							
15408 <i>M 8128</i>	-Skrtyy.	60° 26.6' N 166° 09.5' E	Iso.W. period 3s	203 62	9	White octagonal stone tower, black band; 26.	Visible 240°-070°. Shown May 15 to Dec. 15.
15410 <i>M 8129</i>	-Smirnova.	59° 54.3' N 166° 23.9' E	Fl.W. period 8s fl. 1s, ec. 7s	236 72	18	Octagonal stone tower, white and black bands; 56.	Visible 222°-013°. Shown Jun. 30 to Dec. 15.
15412 <i>M 8130</i>	-Mys Govena.	59° 48.5' N 166° 06.2' E	L.Fl.W. period 6s fl. 2s, ec. 4s	240 73	9	Metal framework pyramid, lantern, near concrete tower; 39.	Visible 302°-184°.
15416 <i>M 8126</i>	-Mys Oria.	59° 59.3' N 165° 11.9' E	Fl.W. period 5s fl. 1s, ec. 4s	305 93	9	Four-sided metal framework tower, platform, yellow daymark, black stripe; 36.	Shown Jun. 30 to Dec. 15.
15420 <i>M 8125</i>	Ostrov Verkhoturova.	59° 37.1' N 164° 39.5' E	Fl.W. period 4s fl. 1s, ec. 3s	246 75	8	Black four-sided concrete tower, white stripe; 39.	Visible 350°-232°. Shown Jun. 30 to Nov. 30.
15424 <i>M 8120</i>	Mys Ozernoi.	57° 43.5' N 163° 19.0' E	Fl.W. period 8s fl. 1s, ec. 7s	194 59	18	Black round concrete tower, black base, white stripes; 82.	
15428 <i>M 8108</i>	Mys Afrika.	56° 11.0' N 163° 21.1' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	125 38	17	Black concrete tower, white bands; 95.	Reserve light range 8M.
15432 <i>M 8102</i>	Mys Kronotskiy.	54° 45.3' N 162° 08.2' E	Fl.(3)W. period 10s fl. 0.2s, ec. 1.9s fl. 0.2s, ec. 1.9s fl. 0.2s, ec. 5.6s	174 53	20	Black octagonal concrete tower, white stripes; 43.	Visible 247°-043°. Reserve light Fl.W. 10s 8M.
15440 <i>M 8096</i>	Mys Shipunskiy.	53° 06.6' N 160° 01.8' E	L.Fl.W. period 6s fl. 2.5s, ec. 3.5s	817 249	22	Red four-sided stone tower, white bands; 26.	Visible 197°-100°. Obscured locally 038°-100°. Reserve light Fl.W. 6s 8M.
15440.5 <i>M 8076</i>	-On shore.	53° 04.5' N 158° 58.5' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	203 62	9	Four-sided metal framework tower, platform, red trapezoidal daymark, white band; 49.	
15441 <i>M 8069</i>	Mys Mayachnyy.	52° 53.9' N 158° 42.4' E	Oc.W. period 7s lt. 5s, ec. 2s	305 93	25	White metal tower, black bands; 45.	Visible 240°-048°. Reserve light range 9M.
15441.3 <i>M 8070.5</i>	-Mys Bezmyannyy.	52° 53.9' N 158° 38.7' E	L.Fl.W. period 12s fl. 4.5s, ec. 7.5s	341 104	22	White octagonal tower, base; 26.	Reserve light range 16M.
15441.6 <i>M 8068</i>	-Ostrov Starichkov.	52° 46.6' N 158° 37.4' E	Fl.W. period 4s fl. 1s, ec. 3s	528 161	9	Metal framework tower, black rectangular daymark; 20.	
15442 <i>M 8067</i>	Mys Opasnyy.	52° 41.6' N 158° 35.5' E	Fl.W. period 6s fl. 1s, ec. 5s	577 176	13	Metal framework tower, red trapezoidal daymark, white bands; 32.	Visible 142°-022°.
15442.5 <i>M 8066</i>	Russkiy.	52° 26.2' N 158° 30.4' E	Fl.W. period 4.5s fl. 1.5s, ec. 3s	200 61	9	White octagonal tower, black bands; 26.	Visible 069°-286°.
15442.7 <i>M 8065</i>	Mys Povorotnyy.	52° 18.0' N 158° 32.5' E	Fl.W. period 4s fl. 1s, ec. 3s	594 181	9	Metal framework tower, white rectangular daymark, red bands; 26.	Visible 195°-015°.
15516 <i>M 8064</i>	Kruglyy.	52° 04.1' N 158° 19.2' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.4s fl. 0.2s, ec. 7.2s	479 146	29	White octagonal tower, black bands; 52.	Visible 212°-015°-30'. Reserve light Fl.W. 10s 10M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
15520 <i>M 8062</i>	Lopatka.	50° 56.2' N 156° 46.5' E	Fl.W. period 5s	190 58	9	Brown round metal tower, platform; 16.	
15522 <i>M 8041.5</i>	Poluostrrov Vladimira.	50° 50.3' N 155° 39.8' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	43 13	9	White octagonal concrete tower, black bands; 26.	
15525 <i>M 8063</i>	Mys Lopatka.	50° 52.3' N 156° 39.9' E	L.Fl.(2)W. period 15s fl. 3s, ec. 4s fl. 3s, ec. 5s	226 69	22	Red round metal tower, white bands; 96.	Reserve light Fl.W. 7.5s 10M.
15526 <i>M 8063.5</i>	Mys Kambalny.	51° 06.2' N 156° 42.3' E	L.Fl.W. period 6s fl. 2s, ec. 4s	295 90	9	Black metal tower, white bands; 16.	
15528 <i>M 8038</i>	Ozernovskiy.	51° 29.1' N 156° 29.5' E	Fl.R. period 6s fl. 1.5s, ec. 4.5s	184 56	9	Four-sided metal tower, platform, lantern; 20.	Reserve light range 3M.
15530 <i>M 8037.5</i>	Vtoraya Yavinskaya.	51° 41.8' N 156° 30.2' E	Fl.W. period 5s	118 36	7	Four-sided metal tower, platform, lantern; 7.	Radar reflector.
15532 <i>M 8036</i>	Oktyabr'skiy.	52° 34.4' N 156° 19.2' E	Fl.W. period 6s	157 48	18	Round metal tower, black and white bands; 82.	Reserve light Fl.W. 6s 8M.
15538 <i>M 8043</i>	Mys Levashova.	50° 30.6' N 156° 09.9' E	Fl.W. period 5s	256 78	9	Octagonal concrete tower, black and white bands; 26.	Visible 180°-025°.
15552 <i>M 8030</i>	Krutogorava.	55° 06.0' N 155° 36.4' E	Fl.(3)W. period 15s fl. 0.4s, ec. 2.8s fl. 0.3s, ec. 2.7s fl. 0.4s, ec. 8.4s	262 80	23	White round metal tower, black top; 112.	Appears as F.W. at short range. Reserve light range 9M.
15553 <i>M 8028</i>	Mys Matugun.	61° 40.9' N 160° 14.0' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	203 62	8	Four-sided metal framework tower, black rectangular daymark; 20.	Visible 290°-236°.
15553.05 <i>M 8026</i>	Mys Nadezhda.	61° 30.2' N 156° 41.5' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	459 140	8	Four-sided metal framework tower, white rectangular daymark, black band; 20.	Visible 259°-013°.
15553.1 <i>M 8024</i>	Mys Viliginskiy.	61° 13.0' N 156° 41.0' E	Fl.W. period 3s fl. 1s, ec. 2s	486 148	4	Black four-sided metal framework tower, white cabin; 10.	Visible 200°-060°.
15553.15 <i>M 8022</i>	Mys Ostrovnoy.	60° 42.6' N 155° 54.3' E	Fl.W. period 4s fl. 1s, ec. 3s	171 52	5	Four-sided metal framework tower, white rectangular daymark, black stripe; 20.	
15560 <i>M 8021</i>	Mys Alevina.	58° 50.0' N 151° 21.3' E	L.Fl.W. period 7.5s fl. 3s, ec. 4.5s	190 58	19	White octagonal concrete tower, red bands; 62.	Visible 270°-152°. Reserve light Fl.W. 7.5s 9M.
15561 <i>M 8015</i>	Mys Taran.	59° 06.4' N 151° 06.2' E	Fl.(3)W. period 15s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s	138 42	18	White octagonal concrete tower, red bands; 46.	Visible 355°-280°. Reserve light Fl.W. 7.5s 8M.
15561.1 <i>M 8010</i>	Mys Yuzhnyy.	59° 00.0' N 150° 28.1' E	Fl.W. period 3s fl. 1s, ec. 2s	712 217	8	White octagonal concrete tower; 20.	Visible 290°-202°.
15561.12 <i>M 8010.5</i>	-Bukhta Zavlova.	59° 05.5' N 150° 37.1' E	Fl.W. period 4s fl. 1s, ec. 3s	115 35	8	White octagonal concrete tower; 20.	Visible 063°-280°.
15561.4 <i>M 8013</i>	Ola.	59° 33.7' N 151° 20.1' E	Fl.R. period 3s fl. 1s, ec. 2s	46 14	4	Four-sided metal framework tower, white rectangular daymark, black bands; 39.	
15562 <i>M 8011</i>	Mys Chirkova.	59° 29.1' N 150° 30.1' E	Fl.W. period 7.5s fl. 1.5s, ec. 6s	243 74	19	White octagonal concrete tower; 46.	Visible 306°-230°. Reserve light range 10M.
15562.2 <i>M 8012</i>	Bukhta Nosayeva Range, front.	59° 33.7' N 150° 46.6' E	F.R.	49 15	12	White octagonal concrete tower, black stripe, neon rectangular daymark; 49.	Visible 011°48'-131°48'. Shown 24 hours. Reserve light range 12M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
15562.21 <i>M 8012.1</i>	-Rear, 400 meters from front.	59° 33.8' N 150° 47.0' E	FR.	141 43	12	White octagonal concrete tower, black stripe, neon rectangular daymark; 46.	Visible 011°48'-131°48'. Shown 24 hours. Reserve light range 12M.
15563 <i>M 8011.5</i>	Ostrov Nedorazumeniy.	59° 34.7' N 150° 22.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	226 69	4	Black metal framework tower; 7.	Visible 305°-180°. Shown Jun. 30 to Jan. 15.
15564 <i>M 8009</i>	Ostrov Spafar'yeva.	59° 10.3' N 149° 05.1' E	L.Fl.W. period 9s fl. 3s, ec. 6s	285 87	23	Red round metal tower, white bands; 65.	Visible 263°-013°, 097°-156°. Reserve light Fl.W. 9s 8M.
15564.1 <i>M 8009.5</i>	-NW. point.	59° 12.3' N 149° 03.1' E	Fl.W. period 3s fl. 1s, ec. 2s	39 12	8	White octagonal concrete tower; 20.	Visible 027°-260°.
15566 <i>M 8008.2</i>	Mys Duga Vostochnaya.	59° 09.0' N 146° 03.3' E	Fl.(2)W. period 15s fl. 0.4s, ec. 3.5s fl. 0.4s, ec. 10.7s	269 82	23	Red round metal tower; 112.	Visible 250°-090°. Reserve light range 10M.
15566.2 <i>M 8008.1</i>	Mys Ushkalova.	59° 15.0' N 145° 49.6' E	Fl.W. period 4s fl. 1s, ec. 3s	161 49	8	Black round concrete tower, white band; 26.	Visible 322°-178°.
15566.55 <i>M 8008</i>	Inya.	59° 22.5' N 144° 43.4' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	69 21	9	Black four-sided metal framework tower; 56.	
15568 <i>M 8007</i>	Mys Marekan.	59° 19.4' N 143° 27.5' E	L.Fl.W. period 12s fl. 4.5s, ec. 7.5s	174 53	20	White round concrete tower, black bands; 112.	Reserve light Fl.W. 12s 10M.
15569 <i>M 8006</i>	Kukhtuy.	59° 21.4' N 143° 10.4' E	Fl.W. period 3s fl. 1s, ec. 2s	74 23	9	Black four-sided metal framework tower; 57.	
15582 <i>M 7986</i>	Mys Litke.	53° 57.3' N 140° 19.3' E	Fl.W. period 7.5s fl. 1.5s, ec. 6s	115 35	17	White stone building, white superstructure; 30.	Visible 125°-356°. Shown Jun. 15 to Dec. 1. Reserve light range 8M.
15584 <i>M 7985</i>	Mys Men'shikova.	53° 17.8' N 141° 24.7' E	L.Fl.W. period 7.5s fl. 3s, ec. 4.5s	331 101	22	White round tower, black bands; 62.	Shown Jun. 5 to Nov. 15. Reserve light range 8M.
15584.45 <i>M 7679.4</i>	Petunbopovskiye Range, front.	53° 21.1' N 141° 46.2' E	Fl.W. period 3s fl. 1s, ec. 2s	66 20	14	White octagonal stone tower, black stripe; 52.	Visible 119°36'-122°36'. Shown Jun. 5 to Nov. 10. Reserve light range 12M.
15584.46 <i>M 7679.41</i>	-Rear, 2,222 meters from front.	53° 20.5' N 141° 48.0' E	F.W.	112 34	14	Four-sided metal framework tower, white rectangular daymark, black stripe; 95.	Visible 119°36'-122°36'. Reserve light range 12M.
15585 <i>M 7910</i>	Mys Moskalvo.	53° 38.9' N 142° 29.6' E	Iso.W. period 3s	135 41	18	White round metal tower, black stripe; 115.	Reserve light range 10M.
15587 <i>M 7679</i>	Mys Marii.	54° 18.6' N 142° 15.8' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	151 46	17	White octagonal stone tower; 59.	Visible 030°-246°. Shown Apr. 15 to Dec. 1. Reserve light range 10M.
15588 <i>M 7902</i>	Mys Yelizavety.	54° 25.1' N 142° 43.5' E	Fl.(2)W. period 15s fl. 0.3s, ec. 3.5s fl. 0.3s, ec. 10.9s	240 73	22	White square stone tower, white dwelling; 39.	Visible 111°-338°. Shown Jun. 1 to Jan. 1. Reserve light Fl.W. 3s 8M.
15589 <i>M 7904</i>	Mys Vnutrenniy.	53° 34.5' N 142° 28.3' E	Iso.W. period 3s	30 9	7	Black round metal tower, platform, white bands; 16.	Shown Jun. 15 to Nov. 25. Radar reflector.
15590 <i>M 7903</i>	Platform.	52° 42.9' N 143° 34.1' E	Mo.(U)W. period 15s Mo.(U)R. period 15s		15 4	Platform.	Horn.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
PORT UGLEGORSK							
15720 <i>M 7714</i>	-Mole, W. head.	49° 04.6' N 142° 01.8' E	Fl.(2)R. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	33 10	2	Red metal post, white band; 23.	
15720.1 <i>M 7714.2</i>	-Mole, E. head.	49° 04.6' N 142° 01.9' E	Fl.(2)G. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	26 8	1	Green four-sided metal framework pyramid, white band; 20.	
15740 <i>M 7703</i>	-Small spur, NW. head.	50° 53.8' N 142° 07.8' E	Fl.(2)G. period 5s	31 9	1	Green metal mast, white band; 30.	Shown Apr. 15 to Dec. 15.
15744 <i>M 7700</i>	Mys Zhonkiyer.	50° 53.3' N 142° 07.1' E	L.Fl.W. period 33s fl. 3s, ec. 30s	259 79	22	White octagonal tower, dwelling; 59.	Visible 029°-171°. Shown Apr. 15 to Dec. 15. Reserve light range 8M.
AMURSIKY LIMAN:							
15744.2 <i>M 7679.5</i>	-Vereshchaginskiy Range, front.	53° 18.2' N 141° 47.7' E	L.Fl.R. period 5s fl. 2s, ec. 3s	49 15	10	White octagonal stone tower, black stripe; 39.	Visible 132°24'-135°24'. Shown Jun. 5 to Nov. 10.
15744.21 <i>M 7679.51</i>	--Rear, 556 meters 133°54' from front.	53° 18.0' N 141° 48.0' E	L.Fl.R. period 5s	108 33	10	Four-sided metal framework tower, white rectangular daymark, black stripe; 98.	Visible 132°24'-135°24'.
15744.26 <i>M 7680</i>	-Mys Rybnovsk Range, front.	53° 14.5' N 141° 48.1' E	Fl.R. period 4s fl. 1s, ec. 3s	66 20	14	White four-sided stone tower, black stripe, building; 49.	Shown Jun. 5 to Nov. 10. Reserve light range 11M.
15744.27 <i>M 7680.1</i>	--Rear, 928 meters 028°54' from front.	53° 15.0' N 141° 48.5' E	Fr.	108 33	14	Four-sided metal framework tower, white rectangular daymark, black stripe; 92.	Visible 027°24'-030°24'. Reserve light range 11M.
15744.36 <i>M 7982.2</i>	-Mys Uarke.	52° 30.9' N 141° 12.5' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	436 133	22	White round stone tower, platform, building; 30.	Reserve light range 17M.
15744.4 <i>M 7982.1</i>	-Mys Tkhadgou Range, front.	52° 15.5' N 141° 20.2' E	Iso.W. period 6s	82 25	13	White octagonal tower, black stripe; 52.	Visible 197°42'-200°42'. Shown May 25 to Nov. 15.
15744.41 <i>M 7982.11</i>	--Rear, 1,113 meters 199°12' from front.	52° 15.0' N 141° 20.0' E	Iso.W. period 6s	157 48	13	Four-sided metal framework tower, white rectangular daymark, black stripe; 69.	Visible 197°42'-200°42'. Reserve light F.W.
15744.45 <i>M 7982</i>	-Mys Lazareva.	52° 12.0' N 141° 30.7' E	Iso.W. period 6s	827 252	22	White square tower, black bands; 43.	Shown 20 May to 20 Nov. Reserve light range 8M. Radiobeacon.
15744.51 <i>M 7685</i>	-Pogibi North Range, front, 1392 meters 114° to common rear.	52° 13.5' N 141° 38.7' E	Iso.R. period 3s	56 17	12	White octagonal stone tower, black stripe; 36.	Visible 112°30'-115°30'. Shown 20 May to 20 Nov. Reserve light range 7M.
15744.52 <i>M 7685.1</i>	--Common rear, 1296 meters 114° from front.	52° 13.2' N 141° 39.8' E	Fr.	128 39	12	Red four-sided metal framework tower, white rectangular daymark, black stripe; 85.	Visible 112°30'-115°30'. Reserve light range 7M. Front 15744.51.
	--Common rear, 778 meters 034°42' from front.		Fl.R. period 3s fl. 1s, ec. 2s	128 39	12		Reserve light Fr. 7M. Front 15744.53.
15744.53 <i>M 7685.2</i>	-South Range.	52° 12.8' N 141° 39.4' E	Fl.R. period 3s fl. 1s, ec. 2s	62 19	12	White octagonal stone tower, black stripe; 36.	Visible 033°12'-036°12'. Shown 20 May to 20 Nov. Reserve light range 7M.
15744.6 <i>M 7686</i>	-Mys Uanga Range, front.	52° 06.5' N 141° 38.9' E	Iso.W. period 4s	49 15	12	White octagonal stone tower, black stripe; 36.	Visible 155°42'-158°42'. Shown 20 May to 20 Nov.
15744.61 <i>M 7686.1</i>	--Rear, 369 meters 157°12' from front.	52° 06.3' N 141° 39.1' E	Iso.W. period 4s	95 29	11	Red metal framework tower, white rectangular daymark, black stripe; 69.	Visible 155°42'-158°42'. Synchronized with front.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
-Amur Reka:							
15745 <i>M 7982.4</i>	--Mys Khuzi Range, front.	52° 41.8' N 141° 14.8' E	Iso.W. period 3s	62 19	14	White octagonal stone tower, black stripe; 52.	Visible 228°48'-231°48'. Shown 25 May to 15 Nov. Reserve light range 9M.
15745.1 <i>M 7982.41</i>	---Rear, 1114 meters 230°18' from front.	52° 41.5' N 141° 14.0' E	Iso.W. period 3s	125 38	17	Four-sided metal framework tower, white trapezoidal daymark, black stripe; 95.	Visible 228°48'-231°48'. Synchronized with front. Reserve light range 9M.
15745.15 <i>M 7982.3</i>	--Mys Dzhaore South Range, front.	52° 39.8' N 141° 16.9' E	L.Fl.W. period 7.5s fl. 3s, ec. 4.5s	69 21	14	Wooden pyramid, white trapezoidal daymark, black stripe; 26.	Visible 319°36'-322°36'. Shown 25 May to 15 Nov. Reserve light range 9M.
15745.16 <i>M 7982.31</i>	--Rear, 334 meters 321°06' from front.	52° 40.0' N 141° 16.7' E	L.Fl.W. period 7.5s fl. 3s, ec. 4.5s	115 35	16	Wooden pyramid, white trapezoidal daymark, black stripe; 56.	Visible 319°36'-322°36'. Reserve light F.W. 9M.
15745.2 <i>M 7982.35</i>	--Mys Dzhaore N. Range, front.	52° 40.0' N 141° 16.7' E	L.Fl.G. period 7.5s fl. 3s, ec. 4.5s	66 20	10	Wooden pyramid, white trapezoidal daymark, black stripe; 26.	Visible 171°-174°. Reserve light range 5M.
15745.21 <i>M 7982.351</i>	---Rear, 373 meters 172°30' from front.	52° 39.8' N 141° 16.8' E	L.Fl.G. period 7.5s fl. 3s, ec. 4.5s	128 39	10	Wooden pyramid, white trapezoidal daymark, black stripe; 36.	Visible 171°-174°. Reserve light F.G. 5M.
15760 <i>M 7678</i>	Mys Orlova.	51° 25.4' N 140° 52.9' E	L.Fl.(3)W. period 20s fl. 2s, ec. 1s fl. 2s, ec. 1s fl. 2s, ec. 12s	277 84	23	White octagonal stone tower, dwelling; 52.	Visible 104°30'-013°30'. Reserve light range 8M. Radiobeacon.
DE KASTRI:							
15761 <i>M 7677</i>	-Mys Klykova Range, front.	51° 28.0' N 140° 45.8' E	Fl.R. period 3s	75 23	14	White octagonal stone tower, black stripe; 33.	Visible 283°36'-289°36'.
15761.1 <i>M 7677.1</i>	--Rear, 0.5 mile 286°36' from front.	51° 28.2' N 140° 45.0' E	Fl.R. period 3s	138 42	14	White octagonal stone tower, black stripe; 33.	Visible 283°36'-289°36'. Synchronized with front.
15761.2 <i>M 7677.5</i>	-Mys Innokentiya Range, front.	51° 27.3' N 140° 46.9' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	95 29	10	White octagonal stone tower, black stripe; 49.	Visible 250°30'-253°30'.
15761.21 <i>M 7677.51</i>	--Rear, 0.4 mile 252° from front.	51° 27.3' N 140° 46.9' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	138 42	10	White octagonal stone tower, black stripe; 30.	Visible 250°30'-253°30'.
15761.3 <i>M 7675</i>	-Mys Nepimentyy.	51° 29.4' N 140° 52.5' E	L.Fl.W. period 5s fl. 2s, ec. 3s	518 158	9	White round concrete tower; 26.	Visible 240°-068°.
15761.35 <i>M 7676.5</i>	-Ostrov Observatorii.	51° 27.9' N 140° 49.0' E	Q.W.	89 27	8	White octagonal stone tower, red bands; 26.	Visible 200°-040°.
15761.4 <i>M 7676</i>	-Jetty, head.	51° 27.9' N 140° 47.0' E	Iso.G. period 4s	30 9	2	White round metal tower, platform, red band; 16.	Visible 190°-120°. Radar reflector.
15768 <i>M 7674</i>	Mys Syurkum.	50° 05.8' N 140° 40.6' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s	246 75	17	White fiberglass tower, red bands; 46.	Visible 110°-350°. Reserve light range 10M.
15776 <i>M 7670</i>	Mys Datta.	49° 17.8' N 140° 25.3' E	L.Fl.W. period 7.5s fl. 3s, ec. 4.5s	279 85	20	White round metal tower, black bands, concrete base, platform; 39.	Visible 197°30'-036°30'. Reserve light range 10M. Radiobeacon.
SOVETSKAYA GAVAN:							
15784 <i>M 7643</i>	-Mys Milyutina.	49° 02.7' N 140° 19.7' E	L.Fl.R. period 7.5s fl. 3s, ec. 4.5s	79 24	15	White octagonal stone tower; 30.	Visible 190°-036°. Reserve light range 5M. Horn: 3 bl. ev. 30s (bl. 4s, si. 2s, bl. 6s, si. 4s, bl. 4s, si. 10s).
15786 <i>M 7650</i>	-Mys Burnyy.	49° 05.6' N 140° 20.3' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	95 29	9	White round metal tower, platform; 26.	Visible 272°-092°. Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
15788 <i>M 7651</i>	-Mys Khoy.	49° 05.5' N 140° 18.8' E	L.F.I.G. period 7.5s fl. 3s, ec. 4.5s	46 14	5	White octagonal stone tower; 16.	Visible 263°-071°.
15790 <i>M 7652</i>	-Mys Yuzhnyy.	49° 04.6' N 140° 18.8' E	Fl.R. period 5s	69 21	3	White octagonal stone tower; 16.	Visible 125°-030°. Radar reflector.
15792 <i>M 7653</i>	-Vanina Range, front.	49° 05.4' N 140° 15.7' E	Oc.R. period 3s	164 50	12	White octagonal stone tower, red stripe, white four-sided base, neon rectangular daymark; 46.	Visible 220°06'-340°06'.
15792.2 <i>M 7653.1</i>	--Middle, 330 meters 280°06' from front.	49° 05.4' N 140° 15.5' E	FR.	223 68	12	White octagonal stone tower, red stripe, neon rectangular daymark; 30.	Visible 220°06'-340°06'. Reserve light visible 276°51'-283°21'.
15792.4 <i>M 7653.2</i>	--Rear, 750 meters 280°06' from front.	49° 05.4' N 140° 15.2' E	FR.	299 91	12	Four story building, lantern, neon rectangular daymark.	Visible 220°06'-340°06'.
15794 <i>M 7654</i>	-Prichal No 3.	49° 05.3' N 140° 18.0' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	72 22	2		Radar reflector.
15796 <i>M 7660</i>	-Muchkye.	49° 06.1' N 140° 20.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	56 17	4	White octagonal stone tower; 16.	Visible 063°30'-316°.
15798 <i>M 7642</i>	-Mys Putyatina.	49° 01.5' N 140° 20.9' E	Oc.W. period 3s	69 21	10	White octagonal stone tower, red band; 23.	Visible 105°-345°. Radar reflector.
15812 <i>M 7640</i>	-Mys Krasnyy Partizan.	48° 58.6' N 140° 23.2' E	Fl.(2)W. period 30s fl. 0.7s, ec. 7.1s fl. 0.7s, ec. 21.5s	278 85	23	White octagonal stone tower, dwelling; 52.	Visible 138°-018°. Reserve light Fl.W. 6s 12M. Horn: Mo.(R) 30s (bl. 2s, si. 6s, bl. 5s, si. 6s, bl. 2s, si. 9s).
15820 <i>M 7636</i>	Mys Peschanyy.	48° 27.1' N 140° 10.5' E	Iso.W. period 3s	102 31	15	White round concrete tower; 95.	Visible 185°-053°. Reserve light range 10M.
15824 <i>M 7634</i>	Mys Krestovozhzhenskiy.	47° 58.3' N 139° 32.2' E	L.Fl.W. period 7.5s fl. 3s, ec. 4.5s	90 27	10	White round metal tower, platform; 26.	Visible 122°-058°. Radar reflector.
15828 <i>M 7630</i>	Bukhta Nel'ma.	47° 39.6' N 139° 11.8' E	L.Fl.W. period 12s fl. 4.5s, ec. 7.5s	262 80	17	White round metal tower; 26.	Visible 198°-020°. Reserve light range 7M.
15832 <i>M 7626</i>	Mys Zolotoy.	47° 19.0' N 138° 59.3' E	Iso.W. period 6s	103 31	16	White octagonal stone tower, red stripes; 66.	Visible 155°-079°. Reserve light range 10M.
15836 <i>M 7622</i>	Mys Sosunova.	46° 32.2' N 138° 20.3' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	217 66	17	White octagonal stone tower, black bands, white building; 49.	Reserve light range 10M.
15840 <i>M 7618</i>	Mys Belkina.	45° 49.3' N 137° 41.4' E	Iso.W. period 20s	324 99	25	White octagonal stone tower; 46.	Visible 204°-000°. Reserve light L.Fl.W. 13.5s 8M.
15844 <i>M 7617</i>	Mys Mayachnyy.	45° 23.3' N 137° 09.1' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	266 81	16	White octagonal stone tower; 20.	Visible 218°-038°. Reserve light range 9M.
15848 <i>M 7616</i>	Mys Strashnyy.	45° 01.8' N 136° 38.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	305 93	8	Red square metal framework tower; 20.	Visible 249°-244°.
15852 <i>M 7614</i>	Mys Yegorova.	44° 46.3' N 136° 27.0' E	L.Fl.W. period 12s fl. 4.5s, ec. 7.5s	302 92	22	White round metal tower black bands, dwelling; 62.	Visible 202°-044°. Reserve light range 9M.
15854 <i>M 7613</i>	Yakubovskogo.	44° 43.6' N 136° 20.4' E	Iso.R. period 4s	318 97	6	White square stone tower, red band; 23.	Visible 060°-340°. Reserve light range 4M.
15856 <i>M 7612</i>	Zaliv Oprichnik.	44° 26.8' N 136° 02.1' E	L.Fl.W. period 7.5s fl. 3s, ec. 4.5s	702 214	23	White octagonal stone tower; 46.	Visible 242°-043°. Reserve light L.Fl.W. 12s 6M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
15860 <i>M 7610</i>	Mys Brinera.	44° 20.5' N 135° 50.2' E	Fl.(2)W. period 7s fl. 0.2s, ec. 1.8s fl. 0.2s, ec. 4.8s	220 67	22	White octagonal masonry tower; 50.	Visible 182°-172°. Reserve light Oc.W. 7.5s 9M.
15864 <i>M 7608</i>	Mys Yuzhnyy.	44° 02.2' N 135° 37.9' E	Fl.W. period 3s fl. 1s, ec. 2s	290 88	7	White round metal tower, red platform; 16.	
ZALIV VLADIMIRA:							
15868 <i>M 7604</i>	-Mys Balyuzek.	43° 55.3' N 135° 31.2' E	Fl.(3)W. period 15s fl. 0.3s, ec. 2.8s fl. 0.3s, ec. 2.8s fl. 0.3s, ec. 8.5s	262 80	23	White square masonry tower, red cupola, white stone building; 46.	Reserve light L.Fl.W. 20s 8M. Horn: 3 bl. ev. 30s (bl. 2s, si. 3s, bl. 4s, si. 5s, bl. 6s, si. 10s).
15880 <i>M 7596</i>	-Mys Sobora.	43° 45.9' N 135° 25.9' E	Fl.R. period 4s fl. 1s, ec. 3s	420 128	4	Red square metal framework pyramid, platform, white four- sided concrete base; 23.	Visible 214°-047°.
15896 <i>M 7588</i>	-Ostrov Chikhacheva.	43° 40.6' N 135° 16.6' E	L.Fl.W. period 7.5s fl. 3s, ec. 4.5s	364 111	23	White square stone tower, hut; 39.	Reserve light range 9M.
15900 <i>M 7584</i>	Mys Nizmennyy.	43° 30.4' N 135° 08.4' E	Fl.(3)W. period 7.5s	206 63	18	White stone tower, hut; 59.	Visible 220°-053°.
15908 <i>M 7581</i>	Mys Dal'niy.	43° 18.7' N 134° 46.5' E	Iso.W. period 6s	608 185	22	Red octagonal stone tower, white house; 46.	Visible 228°-060°. Reserve light range 8M.
15909 <i>M 7579.5</i>	Mys Titova.	43° 05.9' N 134° 18.5' E	Fl.W. period 3s	344 105	10	Red four-sided framework pyramid beside white tower; 10.	
15909.5 <i>M 7579</i>	Ostrov Opasnyy.	43° 01.7' N 134° 11.1' E	Fl.W. period 4s fl. 1s, ec. 3s	180 55	7	Red metal framework tower; 16.	
15920 <i>M 7578</i>	Ostrov Orekhova, SW. part of island.	42° 53.6' N 133° 53.0' E	Iso.R. period 3s	200 61	13	White octagonal stone tower; 26.	Reserve light range 6M.
15924 <i>M 7576</i>	Mys Ostrovnoy.	42° 48.5' N 133° 43.5' E	Iso.W. period 3s	525 160	19	White metal framework tower, white building; 36.	Reserve light Fl.W. 3s 10M.
15926 <i>M 7574</i>	Mys Yakimova.	42° 49.0' N 133° 31.0' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	105 32	4	Red four sided metal framework pyramid, platform; 16.	
15934 <i>M 7573</i>	Bugristyy.	42° 42.5' N 133° 12.1' E	Fl.(3)R. period 10s fl. 0.1s, ec. 1.1s fl. 0.1s, ec. 1.1s fl. 0.1s, ec. 7.5s	387 118	14	Red round metal tower, platform; 26.	Visible 210°-075°. Radar reflector.
ZALIV NAKHODKA:							
15936 <i>M 7572</i>	-Mys Povorotnyy.	42° 40.4' N 133° 02.6' E	Oc.W. period 8s lt. 6s, ec. 2s	219 67	22	White octagonal stone tower, lantern structure; 40.	Visible 262°30'-127°30'. Reserve light range 12M.
15940 <i>M 7569</i>	-Mys Kamenskogo.	42° 45.5' N 133° 03.1' E	Fl.W.R.G. period 3s fl. 1s, ec. 2s	30 9	7	White octagonal stone tower; 16.	W.-230°-048°, G.-063°, R- 079°, W.-133°.
15942 <i>M 7570</i>	-Beregovoy.	42° 46.4' N 133° 02.7' E	Fl.Y. period 4s fl. 0.5s, ec. 3.5s	187 57	4	Red round metal tower; 26.	Radar reflector.
15944 <i>M 7563.2</i>	-Mys Nepristupnyy.	42° 47.8' N 133° 00.4' E	Iso.W. period 6s	100 30	16	White octagonal stone tower, red top, white building; 46.	Reserve light range 8M.
15948 <i>M 7562</i>	-Mys Erzhikovicha, Ostrov Lisiy, S. extremity.	42° 45.3' N 132° 54.1' E	L.Fl.W. period 6s fl. 2s, ec. 4s	286 87	7	White diamond framework tower; 10.	Visible 242°-169°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
15952 <i>M 7563</i>	-Mys Shvedova.	42° 48.3' N 132° 54.7' E	Oc.W. period 7.5s fl. 4.5s, ec. 3s	143 44	18	White octagonal stone tower; 23.	Reserve light range 9M.
15956 <i>M 7567</i>	-Mys Astafyeva.	42° 48.6' N 132° 54.4' E	L.F.I.G. period 7.5s fl. 3s, ec. 4.5s	68 21	8	White octagonal concrete tower, black bands; 62.	Visible 049°-324°. Reserve light range 2M.
15958 <i>M 7567-7</i>	-Bukhta Kozmina, Mys Krylova.	42° 42.8' N 133° 00.1' E	Fl.W.R.G. period 3s fl. 1s, ec. 2s	289 88	7	Red square metal framework tower, red and white panels; 66.	W.-327°-141°, R.-153°, G.- 173°, R.-191°30', W.- 244°30'.
15958.05 <i>M 7567.9</i>	--Approach.	42° 43.2' N 133° 00.4' E	Iso.W. period 6s	43 13	5	White round metal tower on dolphin; 16.	
15958.07 <i>M 7568</i>	--Oil Pier.	42° 43.1' N 133° 00.6' E	Iso.R.Bu. period 3s	46 14	3	Orange metal tower, white stripe; 16.	R. 041°-059°, Bu.-125°.
15958.08 <i>M 7568.05</i>	---S.	42° 43.0' N 133° 00.6' E	Iso.R.Bu. period 3s	30 9	3	Orange metal tower, white stripe; 20.	R. 133°-138°, Bu.-203°, R.- 214°.
15958.1 <i>M 7568.1</i>	--N. Range, front.	42° 42.8' N 133° 01.3' E	Iso.R. period 6s	135 41	5	Red round metal tower, white panels; 49.	Visible 126°06'-141°06', marks NE limit of Fairway 2A. Shown 24 hours.
15958.11 <i>M 7568.11</i>	---Rear, 180 meters 133°36' from front.	42° 42.7' N 133° 01.4' E	Iso.R. period 6s	184 56	5	Red round metal tower, white panels; 23.	Visible 126°06'-141°06', marks NE limit of Fairway 2A.
15958.2 <i>M 7568.2</i>	--S. Range, front.	42° 42.8' N 133° 00.7' E	Iso.G. period 6s	141 43	5	Green round metal tower, white panels; 49.	Visible 126°06'-141°06', marks NE limit of Fairway 2A. Shown 24 hours.
15958.21 <i>M 7568.21</i>	---Rear, 278 meters 133°36' from front.	42° 42.7' N 133° 00.9' E	Iso.G. period 6s	154 47	5	Green round metal tower, white panels; 23.	Visible 126°06'-141°06', marks NE limit of Fairway 2A.
15960 <i>M 7564</i>	-Nakhodka Approach Range, front.	42° 50.4' N 132° 56.3' E	Iso.R. period 6s	36 11	11	White four-sided pyramidal tower, white stone building, black stripe; 43.	Visible 357°-003°. Shown 24 hours.
15964 <i>M 7564.1</i>	--Rear, 1574 meters 000° from front.	42° 51.2' N 132° 56.3' E	F.R.	121 37	10	White square stone tower, black stripe; 52.	Visible 357°-003°..
15965 <i>M 7568.5</i>	Ozero Vtoroye entrance, N. side.	42° 43.0' N 133° 01.4' E	Fl.(2)R. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	20 6	2	Red round metal tower, white band, platform; 13.	
15965.1 <i>M 7568.4</i>	-S. side.	42° 43.0' N 133° 01.4' E	Fl.(2)G. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	23 7	1	Green round metal tower, white stripe, platform; 16.	
15968 <i>M 7566</i>	--Harbor entrance Range, front.	42° 48.7' N 132° 53.1' E	F.R.	118 36	6	White octagonal stone tower, black stripe, neon rectangular daymark; 52.	Visible 257°54'-277°54'. Shown 24 hours.
15972 <i>M 7566.1</i>	---Rear, 130 meters 267°54' from front.	42° 48.7' N 132° 53.1' E	F.R.	154 47	6	White octagonal tower, black stripes, neon rectangular daymark; 23.	Visible 257°54'-277°54'.
15992 <i>M 7563.4</i>	-Bukhta Chadaudzha, entrance Range, front.	42° 46.3' N 132° 53.0' E	Iso.G. period 3s	364 111	6	White square brickwork tower, black stripe; 20.	Visible 251°48'-286°48'.
15996 <i>M 7563.41</i>	--Rear, 347 meters 269°18' from front.	42° 46.3' N 132° 52.7' E	Iso.G. period 3s	489 149	6	White square brickwork tower, black stripe; 20.	Visible 251°48'-286°48'.
16000 <i>M 7563.6</i>	--Pier, head.	42° 46.3' N 132° 53.6' E	Iso.R. period 3s	35 11	2	Red metal framework tower; 23.	
16004 <i>M 7558</i>	-Mys Likhacheva.	42° 44.1' N 132° 51.0' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	201 61	9	White octagonal stone tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
16008 <i>M 7538</i>	Ostrov Trambetskogo.	42° 50.4' N 132° 32.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	66 20	9	White octagonal stone tower; 20.	Radar reflector.
16052 <i>M 7502</i>	Mys Yelagina.	42° 43.8' N 132° 20.4' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	371 113	22	White octagonal stone tower, red lantern, white building; 26.	Visible 264°-126°. Reserve light range 9M.
16053 <i>M 7503</i>	-Mys Stupenchatyy.	42° 46.8' N 132° 20.8' E	Fl.W. period 8s	89 27	7	White four-sided stone tower; 16.	Visible 089°-285°.
16054 <i>M 7504</i>	Mys Ogorodnyy.	42° 48.8' N 132° 21.7' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	144 44	9	Red metal four-sided pyramid, white cabin; 16.	
16056 <i>M 7528</i>	Mys Sysoyeva.	42° 50.6' N 132° 19.1' E	Iso.W. period 3s	164 50	19	Red octagonal stone tower, lantern; 36.	Visible 277°-159°.
16160 <i>M 7498</i>	Ostrova Verkhovskogo, SE. island.	42° 53.0' N 131° 48.6' E	Fl.(3)W. period 10s fl. 0.1s, ec. 1.1s fl. 0.1s, ec. 1.1s fl. 0.1s, ec. 7.5s	124 38	11	White octagonal stone tower; 23.	
VLADIVOSTOK:							
16166 <i>M 7470</i>	-Ostrov Skrypleva.	43° 01.7' N 131° 57.2' E	Fl.R. period 15s fl. 1s, ec. 14s	177 54	20	White octagonal stone tower, structure, lantern; 39.	Visible 128°-030°. Reserve light range 6M.
16167 <i>M 7471</i>	-Mys Basargina.	43° 03.5' N 131° 57.8' E	Oc.G. period 7.5s fl. 4s, ec. 3.5s	92 28	10	White octagonal stone tower, red bands; 26.	Visible 193°-092°. Reserve light range 6M.
16168 <i>M 7473.5</i>	-Bukhta Zhitkova.	43° 01.2' N 131° 55.6' E	Fl.(2)R. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	36 11	5	Red round metal tower, white band; 23.	Obscured 175°-191°.
16168.1 <i>M 7473.3</i>	-Pier.	43° 01.0' N 131° 55.7' E	Fl.(2)G. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	36 11	5	Green round metal tower, white band; 23.	
16168.2 <i>M 7471.35</i>	-Mys Egershel'da, Berth No 12.	43° 05.7' N 131° 52.4' E	Fl.(4)R. period 12s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 5.7s	36 11	2	Round metal tower, red and white bands; 26.	
16168.3 <i>M 7471.3</i>	--Berth No 16.	43° 05.3' N 131° 51.9' E	Fl.(4)G. period 12s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 5.7s	36 11	2	Round metal tower, green and white bands and platform; 26.	
16169 <i>M 7472</i>	-Proliv Bosfor Vostochnyy Range, front.	43° 05.0' N 131° 51.4' E	FR.	105 32	15	Four-sided tower, white building, lantern; 49.	Visible 289°30'-309°30'. Reserve light range 8M.
16169.1 <i>M 7472.01</i>	--Middle, 110 meters 299°30' from front.	43° 05.1' N 131° 51.3' E	Oc.R. period 3s	164 50	15	White octagonal stone tower, black stripe, four-sided base; 49.	Visible 289°30'-309°30'. Reserve light range 12M.
16169.2 <i>M 7472.02</i>	--Rear, 450 meters 299°30' from front.	43° 05.2' N 131° 51.0' E	FR.	226 69	15	White octagonal stone tower, black stripe, four-sided base; 49.	Visible 289°30'-309°30'. Reserve light range 12M.
16169.3 <i>M 7473</i>	-Mys Balka.	43° 01.8' N 131° 54.9' E	L.F.I.R.G. period 5s	69 21	R. 3 G. 2	White four-sided metal framework pyramid; 10.	R. 357°-162°30', G.-357°. Shown Apr. 15 to Dec. 30.
16169.7 <i>M 7474</i>	-Bukhty Ulliss Range, front.	43° 04.8' N 131° 55.5' E	F.G.	59 18	2	Two white trapezoidal daymarks, red stripe; 16.	Visible 048°24'-068°24'.
16169.8 <i>M 7474.01</i>	--Rear, 77 meters 058°24' from front.	43° 04.8' N 131° 55.6' E	Iso.G. period 3s	108 33	2	Two white trapezoidal daymarks, red stripe; 16.	Visible 048°24'-068°24'.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
16169.91 <i>M 7478</i>	-Mys Rosetta.	43° 05.2' N 131° 51.0' E	Oc.G. period 15s	217 66	5	White stone building, lantern; 13.	Visible 045°-207°.
16169.92 <i>M 7479</i>	-Tokarevskogo.	43° 04.4' N 131° 50.6' E	L.F.I.W.R. period 7.5s fl. 3s, ec. 4.5s	39 12	12	White round stone tower, structure, lantern; 39.	W. 237°-126°, R.-165°.
16170 <i>M 7480</i>	-Mys Pospelyovskiy, W. approach Range, front.	43° 03.7' N 131° 53.4' E	Oc.R. period 3s	26 8	10	Metal framework tower, platform, white diamond daymark, black stripe; 33.	Visible 092°-112°. Reserve light F.R. 7M.
16170.1 <i>M 7480.01</i>	--Rear, 192 meters 103°30' from front.	43° 03.7' N 131° 53.5' E	Oc.R. period 3s	52 16	10	Metal framework tower, platform, white diamond daymark, black stripe; 39.	Visible 092°-112°. Reserve light F.R. 7M.
16170.18 <i>M 7482</i>	-Torpedo Boat Canal Entrance, W. side.	43° 03.7' N 131° 50.7' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	20 6	1	Green round metal tower, white band, platform; 16.	Visible 202°-214°. Radar reflector.
16170.25 <i>M 7440</i>	-Prednozhnoye Range, front.	43° 02.8' N 131° 49.3' E	Oc.W. period 3s	16 5	3	Metal framework tower, white trapezoidal daymark, black stripe; 16.	Visible 164°30'-171°.
16170.26 <i>M 7440.1</i>	--Rear, 220 meters 167°48' from front.	43° 02.6' N 131° 49.3' E	F.W.	43 13	3	Metal framework tower, white trapezoidal daymark, black stripe; 20.	Visible 157°-178°.
AMURSUKY ZALIV:							
16170.3 <i>M 7435.5</i>	-Mys Vasileva.	43° 00.2' N 131° 45.5' E	Fl.W. period 3s fl. 1s, ec. 2s	141 43	6	White octagonal stone tower; 16.	Visible 024°-278°. Shown Apr. 15 to Dec. 01.
16170.35 <i>M 7438</i>	-Ostrov Ushi.	43° 03.8' N 131° 48.2' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	43 13	3	Red metal framework pyramid; 10.	Shown Apr. 15 to Dec. 01.
16170.4 <i>M 7436</i>	-Mys Firsova.	43° 10.4' N 131° 53.9' E	Iso.W.R. period 3s	85 26	W. 15 R. 8	White four-sided metal pyramid, white concrete base; 23.	R. 002°-050°, W.-205°.
16172 <i>M 7434</i>	Mys Bryusa.	42° 52.9' N 131° 28.1' E	Iso.W.R.G. period 12s	217 66	W. 21 R. 15 G. 10	White octagonal stone tower, white dwelling; 33.	G. 099°-216°, W.-234°, R.-306°, W.-342°, G.-046°. Reserve light Iso.R. 3s 6M.
16188 <i>M 7430</i>	Mys Klerka.	42° 45.9' N 131° 21.8' E	Fl.R. period 4s fl. 1s, ec. 3s	246 75	4	White octagonal stone tower; 13.	Visible 185°-150°.
16192 <i>M 7428</i>	Ostrova Rimskogo-Korsakova.	42° 39.9' N 131° 28.0' E	Fl.W. period 3s fl. 1s, ec. 2s	636 194	9	Red metal framework tower; 43.	
16196 <i>M 7422</i>	Mys Gamova.	42° 33.2' N 131° 13.1' E	Fl.(2)W. period 15s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 10.8s	223 68	22	White octagonal stone tower, dwelling; 62.	Visible 197°-070°. Reserve light Fl.W. 3s 10M.
16198 <i>M 7420</i>	Russia, N. Korea Maritime Border Range, front.	42° 19.1' N 130° 40.0' E	Oc.W.R.G. period 4s lt. 3s, ec. 1s	128 39	W. 18 R. 15 G. 10	Metal framework tower, red rectangular daymark, white stripe; 125.	W. 230°-300°48', G.-310°48', W.-320°48', R.-330°48', W.-050°. Reserve light Oc.W. 4s 18M.
16198.1 <i>M 7420.01</i>	--Rear, 2778 meters 315° 48' from front.	42° 20.2' N 130° 38.6' E	F.W.	259 79	19	Metal framework tower, red rectangular daymark, white stripe; 115.	

Section 10

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
NORTH KOREA							
16200 <i>M 4570</i>	Nan Do.	42° 13.8' N 130° 31.7' E	Fl.W. period 5s	128 39	17	White square concrete tower; 36.	Visible 237°-193°. Siren: 1 bl. ev. 36s (bl. 7s, si. 29s).
16204 <i>M 4590</i>	Ogaram San, about 914 meters NNE. of Ogaram Dan.	42° 16.5' N 130° 38.2' E	F.G.	180 55	8	White metal tower, concrete base; 20.	Horn.
SOSURA HANG:							
16208 <i>M 4582</i>	-E. breakwater, head.	42° 16.6' N 130° 35.8' E	F.W.	19 6	7	White metal column, concrete base; 16.	
16212 <i>M 4584</i>	-W. breakwater, head.	42° 16.5' N 130° 35.7' E	F.R.	19 6	6	Red metal column, concrete base; 16.	
UNGGI MAN:							
16216 <i>M 4578</i>	-E. breakwater, head.	42° 19.9' N 130° 24.3' E	F.G.	33 10	4	Red metal column, concrete base; 16.	
16220 <i>M 4574</i>	-W. breakwater, head.	42° 20.0' N 130° 24.0' E	F.R.	20 6	6	White metal column, concrete base; 16.	
16224 <i>M 4576</i>	-Detached breakwater, W. head.	42° 19.9' N 130° 24.1' E	F.R.	21 6	8	Red metal column, concrete base; 16.	
16228 <i>M 4568</i>	Kwak Tan.	42° 15.0' N 130° 24.1' E	Fl.W. period 12s	200 61	13	White square concrete tower; 23.	Visible 198°-050°. Horn.
NAJIN MAN:							
16232 <i>M 4558</i>	-Toech'o Do.	42° 09.0' N 130° 16.6' E	Fl.(3)W. period 25s	394 120	27	White square concrete tower; 43.	Visible 228°-142°. Siren: 1 bl. ev. 45s (bl. 5s, si. 40s).
16248 <i>M 4556</i>	-Oryong Am, NE. side of Injin Man.	42° 04.7' N 130° 07.6' E	Fl.(2)W. period 6s	60 18	12	Black round concrete tower; 56.	
16252 <i>M 4540</i>	Komalsan Dan.	41° 45.8' N 129° 50.8' E	L.Fl.W. period 6s	194 59	20	White hexagonal brick tower; 46.	Visible 222°-091°. Siren: 1 bl. ev. 45s (bl. 5s, si. 40s).
CHONGJIN:							
16260 <i>M 4542</i>	-Dong Hang, breakwater, head.	41° 46.6' N 129° 49.3' E	F.G.	45 14	8	Red round concrete tower; 36.	
16262 <i>M 4543</i>	--SW. corner of W. pier.	41° 46.8' N 129° 49.2' E	Oc.R.				
16264 <i>M 4544</i>	--E. pier, head.	41° 46.7' N 129° 49.7' E	F.R.	23 7	2	Red metal column, concrete base; 16.	
16268 <i>M 4546</i>	-So Hang, breakwater, head.	41° 44.9' N 129° 46.1' E	F.G.	39 12	5	Green tower; 30.	
16269 <i>M 4547</i>	--Root.	41° 45.4' N 129° 46.1' E	F.R.		2		
16272 <i>M 4534</i>	Orang Dan.	41° 22.9' N 129° 48.3' E	Iso.W. period 4s	138 42	15	White round brick tower; 26.	Visible 125°-005°. Siren.

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
NORTH KOREA							
16276 <i>M 4536</i>	Odaejin Hang, N. breakwater, head.	41° 23.2' N 129° 46.8' E	F.R.	23 7	8	White round metal tower; 20.	
16276.5 <i>M 4533</i>	Koaedan.	41° 19.1' N 129° 46.7' E	Oc.W. period 13s		10	Beacon.	
16277 <i>M 4531</i>	Unmandae Dan.	40° 56.6' N 129° 45.8' E	Fl.W. period 14s	390 119	10		Horn.
16278 <i>M 4532</i>	Ryanghwa.	41° 12.3' N 129° 43.9' E	Fl.W. period 3s	157 48	18		Horn.
16280 <i>M 4530</i>	Musu Dan.	40° 50.1' N 129° 42.9' E	Fl.(2)W. period 15s	266 81	23	White round concrete tower; 30.	Visible 206°-092°. Siren.
KIMCH'AEK:							
16284 <i>M 4516</i>	-Songjin Peninsula.	40° 39.6' N 129° 12.7' E	Iso.W. period 6s	171 52	20	White octagonal concrete tower; 26.	Visible 161°-023°. Horn.
16288 <i>M 4522</i>	-S. breakwater, head.	40° 39.7' N 129° 12.4' E	F.R.	26 8	5	White metal column, concrete base; 16.	Visible 025°-295°.
16292 <i>M 4524</i>	-N. breakwater, head.	40° 39.7' N 129° 12.4' E	F.G.	16 5	4	Red concrete tower; 16.	
16296 <i>M 4520</i>	-Lumber storage, S. breakwater, head.	40° 40.2' N 129° 12.5' E	F.G.	22 7	5	White metal column; 13.	
16300 <i>M 4526</i>	-Fishing harbor, S. of peninsula, breakwater, head.	40° 39.4' N 129° 12.2' E	F.R.	26 8	5	White concrete tower; 16.	
16301 <i>M 4514</i>	Yongdae Gap.	40° 28.5' N 129° 03.7' E	L.Fl.W. period 9s	200 61	12		Horn.
16302 <i>M 4514.4</i>	-Breakwater.	40° 28.7' N 129° 03.5' E	F.R.	20 6	2		
16303 <i>M 4513</i>	Sabvjin, breakwater, head.	40° 24.5' N 128° 55.3' E	F.R.	43 13	1		
16304 <i>M 4512</i>	Ch'aho Hang, E. side of bay, peninsula, head.	40° 12.1' N 128° 39.6' E	F.W.	77 23	7	White triangular metal tower, metal column; 66.	Fishing light. Horn.
16306 <i>M 4510.4</i>	Song Do Gap.	40° 01.9' N 128° 19.7' E	L.Fl.W. period 7s	194 59	12		
16306.1 <i>M 4511.4</i>	Shinchang Hang.	40° 08.0' N 128° 28.4' E	F.G.	20 6	2		
16307 <i>M 4510.6</i>	Tonghodong.	40° 04.3' N 128° 16.3' E	F.R.	10 3	1		
16308 <i>M 4510</i>	Mayang Do (Bayo To).	39° 59.7' N 128° 13.5' E	Fl.(4)W. period 22s	223 68	16	White octagonal concrete tower; 27.	Visible 196°-058°, obscured by Song Do Gap when bearing less than 236°.
16308.5 <i>M 4506.5</i>	Ansong Gap.	39° 53.4' N 127° 52.6' E	L.Fl.W. period 7s	285 87	13	White hexagonal concrete tower; 26.	Visible 200°-160°.
16309 <i>M 4508</i>	Songnyong Man.	40° 01.5' N 127° 59.5' E	F.R.	49 15	8		Horn.
16310 <i>M 4507</i>	Chuk Do.	39° 59.0' N 127° 56.9' E	F.R.	49 15	8	Metal framework tower.	Horn.
16312 <i>M 4506</i>	Sohojin.	39° 48.4' N 127° 39.8' E	Fl.(2)W. period 30s	154 47	18	White round concrete tower; 23.	Visible 198°-133°. Siren.
16316 <i>M 4492</i>	Hungnam, breakwater.	39° 49.4' N 127° 37.9' E	F.R.	39 12	2		
16322 <i>M 4495</i>	-Breakwater.	39° 49.2' N 127° 39.0' E	F.R.	26 8	2	Metal post; 10.	F.G. 2M marks S. breakwater head 80 meters SE.

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NORTH KOREA

16323 <i>M 4490</i>	Kwangsunggotchi.	39° 31.8' N 127° 31.3' E	L.Fl.W. period 9s	151 46	8		Horn.
YONGHUNG MAN:							
16324 <i>M 4488</i>	-Sokkun Som.	39° 17.2' N 127° 33.9' E	Fl.W. period 7s	82 25	9	Red round concrete tower, black bands; 56.	Horn.
16325 <i>M 4487</i>	-Yubundo.	39° 17.5' N 127° 31.6' E	L.Fl.W. period 6s	121 37	4	Beacon.	
16326 <i>M 4485</i>	Yongjin.	39° 17.9' N 127° 24.2' E	L.Fl.W. period 12s	213 65	8	White square framework tower.	Visible 130°-086°. Horn.
16328 <i>M 4474</i>	Worhyanam.	39° 15.0' N 127° 34.4' E	Fl.W. period 5.5s	56 17	5		
16332 <i>M 4472</i>	Yo Do.	39° 13.7' N 127° 37.9' E	Oc.W. period 20s	220 67	20	White octagonal concrete tower; 26.	
16340 <i>M 4480</i>	Wonsan Hang, Changdok To.	39° 10.5' N 127° 26.5' E	Fl.W. period 5s	82 25	5	16.	Horn.
16344 <i>M 4484.4</i>	-Dolphin.	39° 09.5' N 127° 27.7' E	F.R.				
16348 <i>M 4484</i>	-Gensanri fishing harbor, breakwater, head.	39° 09.5' N 127° 26.9' E	F.G.	25 8	2	Red metal column, concrete base; 20.	
16350	Apryongdan.	39° 07.9' N 127° 44.3' E	Fl.W. period 10s		8		
16352 <i>M 4468</i>	Ch'ongsok Tan.	38° 57.9' N 127° 54.6' E	Fl.(2)W. period 30s	128 39	18	White metal tower; 20.	Visible 158°-010°.
16356 <i>M 4466</i>	Kojo P'o, breakwater, head.	38° 57.8' N 127° 53.3' E	F.R.	36 11	3	White square metal tower; 26.	
16358 <i>M 4465</i>	Sol Som.	38° 51.4' N 128° 03.2' E	L.Fl.W. period 25s	216 66	16	Beacon.	Horn.
16359 <i>M 4462</i>	Changadaedan.	38° 45.2' N 128° 15.9' E	Fl.(2)W. period 18s	246 75	18	White octagonal concrete tower; 46.	Visible 158°-203°.
16360 <i>M 4464</i>	Changjon Man.	38° 44.7' N 128° 12.2' E	Iso.W. period 7s	269 82	18	White square metal tower, concrete base; 13.	
16362 <i>M 4464.5</i>	Changjon Hang, breakwater.	38° 44.1' N 128° 11.8' E	F.G.	16 5	3	White round concrete tower; 10.	
16364 <i>M 4461</i>	Suwon Dan.	38° 41.2' N 128° 21.4' E	Fl.(2)W. period 15s 2 fl. 3s, ec. 12s	134 41	17	White octagonal concrete tower; 56.	Siren: 1 bl. ev. 60s (bl. 5s, si. 55s).

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SOUTH KOREA

16365 <i>M 4460</i>	Chojin Dan Range, front.	38° 33.2' N 128° 24.5' E	F.W.	203 62	24	White square concrete tower; 115.	Horn: 4 bl. ev. 60s.
16365.1 <i>M 4460.1</i>	-Rear, 270° from front.	38° 33.2' N 128° 23.8' E	F.W.	377 115	24	White square concrete tower; 66.	
16366	Chojin Dan, RACON.	38° 33.0' N 128° 24.5' E	Q(- - • -) period 60s		10		Azimuth coverage 270°-315°. (3cm).
16369 <i>M 4459.9</i>	Taejin.	38° 30.2' N 128° 25.7' E	Fl.W. period 12s	201 61	20	White octagonal concrete tower; 102.	AIS (MMSI No 994403802). Horn: 1 bl. ev. 20s (bl. 5s, si. 15s). Occasional.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16374 <i>M 4459.75</i>	-N. breakwater, head.	38° 29.8' N 128° 25.9' E	Fl.R. period 5s	39 12	7	Red round concrete tower; 23.	
16376 <i>M 4459.7</i>	-S. breakwater, head.	38° 29.9' N 128° 25.8' E	Fl.G. period 5s	46 14	5	White round concrete tower; 36.	
16376.5 <i>M 4459.45</i>	Kajin Hang, breakwater.	38° 22.0' N 128° 30.8' E	Fl.R. period 5s	52 16	8	Red round concrete tower; 33.	
16376.7 <i>M 4458.7</i>	Pongpo Hang, breakwater.	38° 15.0' N 128° 34.2' E	Fl.R. period 5s	49 15	8	Red round concrete tower; 33.	
16377 <i>M 4459.43</i>	Gonghyeonjin.	38° 21.3' N 128° 30.8' E	Fl.R. period 4s	49 15	6	Red round concrete tower; 33.	
16378 <i>M 4459.3</i>	Oho Ri.	38° 19.6' N 128° 31.8' E	Fl.W. period 5s	89 27	21	White round concrete tower; 33.	
16379 <i>M 4459.4</i>	Oho Hang, breakwater.	38° 19.3' N 128° 32.0' E	Fl.R. period 5s	59 18	9	Red round concrete tower; 33.	
16380 <i>M 4459</i>	Ayajin-ni.	38° 16.5' N 128° 33.3' E	Fl.W. period 6s	98 30	7	White round concrete tower; 49.	Visible 175°-327°.
16384 <i>M 4459.16</i>	-N. breakwater.	38° 16.2' N 128° 33.7' E	Fl.R. period 5s	56 17	9	Red round concrete tower; 33.	
16385 <i>M 4459.15</i>	-S. breakwater.	38° 16.2' N 128° 33.6' E	Fl.G. period 5s	49 15	9	White round concrete tower; 33.	
16386 <i>M 4459.2</i>	Munam Hang, N. breakwater.	38° 18.1' N 128° 33.0' E	Fl.R. period 4s	36 11	5	Red metal tower; 20.	
16386.1 <i>M 4459.25</i>	-S. breakwater.	38° 17.7' N 128° 33.1' E	Fl.R. period 6s	33 10	5	Red metal tower; 20.	
16387 <i>M 4459.65</i>	Chodo Hang, breakwater.	38° 29.1' N 128° 26.3' E	Fl.R. period 4s	33 10	5	Red metal tower; 20.	
16388 <i>M 4459.5</i>	Kojin-ni.	38° 27.0' N 128° 27.9' E	Al.FI.W.R. period 32s	295 90	W. 25 R. 22	White round concrete tower; 43.	Visible 160°-333°. AIS (MMSI No 994403806). Horn: 1 bl. ev. 30s (bl. 5s, si. 25s).
16392 <i>M 4459.6</i>	-E. breakwater, S. head.	38° 26.6' N 128° 27.6' E	Fl.R. period 4s	52 16	6	Red octagonal concrete tower; 39.	
16396 <i>M 4459.54</i>	-W. breakwater, head.	38° 26.6' N 128° 27.5' E	Fl.G. period 5s	36 11	8	White round concrete structure; 30.	
16396.5 <i>M 4458.63</i>	Sajin Hang, breakwater.	38° 13.5' N 128° 35.3' E	Fl.R. period 5s	33 10	5	Red four-sided metal tower; 20.	
16397 <i>M 4458.64</i>	-SW.	38° 13.5' N 128° 35.4' E	Fl.G. period 5s	39 12	7	White round concrete tower; 33.	
16404 <i>M 4458</i>	Sokch'o.	38° 12.8' N 128° 36.0' E	Fl.(4)W. period 45s	217 66	19	White round concrete tower; 92.	Visible 160°-005°. AIS (MMSI No 994403801). Siren: 1 bl. ev. 45s (bl. 5s, si. 40s).
16406 <i>M 4458.1</i>	-E.	38° 12.3' N 128° 36.7' E	Q.W.	52 16	7	N. CARDINAL BY, beacon, topmark; 66.	AIS (MMSI No 994403817).
16408 <i>M 4458.3</i>	Sokch'o Hang, N. breakwater.	38° 12.2' N 128° 36.2' E	Fl.R. period 4s	59 18	12	Red metal pipe; 36.	
16409.5 <i>M 4458.4</i>	-S. breakwater.	38° 12.1' N 128° 35.9' E	Fl.(2)G. period 6s	33 10	8	White round metal tower.	
16410 <i>M 4458.45</i>	-W. breakwater.	38° 12.1' N 128° 35.8' E	Fl.(2)R. period 6s	30 9	8	Red round steel tower.	
16412 <i>M 4458.6</i>	-NW. breakwater.	38° 12.4' N 128° 36.0' E	Fl.G. period 4s	36 11	10	White round concrete tower; 26.	F.W. 12m spotlight, visible 093°-099°.
16414 <i>M 4458.2</i>	Jodo (Cho-do).	38° 11.9' N 128° 36.8' E	Fl.W. period 6s	118 36	12	White round concrete tower; 49.	

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SOUTH KOREA							
16416 <i>M 4458.15</i>	-E.	38° 12.0' N 128° 37.4' E	Q.(6)+L.FI.W. period 15s	52 16	8	S. CARDINAL YB, beacon, topmark; 72.	AIS (MMSI No 994403812).
	-RACON		X(- • • -)		10		(3 & 10cm).
16418 <i>M 4458.18</i>	-SW.	38° 11.6' N 128° 36.5' E	Fl.(2)G. period 6s	46 14	8	Green round concrete tower, green square daymark; 82.	AIS (MMSI No 994403815).
16420 <i>M 4457</i>	Taep'o Hang.	38° 10.3' N 128° 36.6' E	Fl.R. period 4s	56 17	8	Red octagonal concrete tower; 33.	
16421 <i>M 4456.9</i>	Mulchi Hang, E. breakwater.	38° 09.2' N 128° 36.7' E	Fl.R. period 5s	46 14	7	Red round concrete tower; 36.	
16422 <i>M 4456.93</i>	-W. breakwater.	38° 09.2' N 128° 36.7' E	Fl.G. period 5s	49 15	7	White round concrete tower; 36.	
16423 <i>M 4456.85</i>	Hujin Hang.	38° 07.9' N 128° 37.5' E	Fl.R. period 4s	33 10	5	Red square metal tower; 20.	
16423.1 <i>M 4456.8</i>	Jeonjin Hang.	38° 07.4' N 128° 38.1' E	Fl.R. period 5s	52 16	9	Red octagonal concrete tower; 36.	
16424 <i>M 4456.5</i>	Susan Dan.	38° 04.9' N 128° 40.5' E	Fl.W. period 5s	240 73	8	White round concrete tower; 52.	AIS (MMSI No 994403811).
16428 <i>M 4456</i>	Kisamun Dan.	38° 01.3' N 128° 44.1' E	Fl.W. period 6s	106 32	8	White round concrete tower; 33.	
16429 <i>M 4456.2</i>	Gisamun Hang.	38° 00.4' N 128° 44.0' E	Fl.R. period 6s	52 16	5	Red round concrete tower; 36.	
16430 <i>M 4455.6</i>	Dongsan Hang.	37° 58.7' N 128° 45.8' E	Fl.R. period 4s	36 11	5	Red four-sided metal tower; 23.	
16431 <i>M 4455.5</i>	Ingu Hang, breakwater.	37° 58.2' N 128° 45.9' E	Fl.R. period 5s	33 10	7	Red four-sided metal tower; 20.	
16432 <i>M 4455</i>	Namae Hang.	37° 56.5' N 128° 47.4' E	Fl.R. period 4s	62 19	7	Red round concrete tower; 39.	
16433 <i>M 4455.4</i>	-Namae Hang, S. breakwater.	37° 56.6' N 128° 47.3' E	Fl.G. period 4s	36 11	6	White round concrete tower; 26.	
16435.1 <i>M 4449.9</i>	Uamjin Hang, breakwater.	37° 54.2' N 128° 49.9' E	Fl.R. period 5s	49 15	9	Red round concrete tower; 33.	
CHUMUNJIN HANG:							
16436 <i>M 4450</i>	-Chumunjin Dan.	37° 53.9' N 128° 50.0' E	Fl.W. period 15s	131 40	20	White round brick tower; 33.	Visible 148°-025°. AIS (MMSI No 994403803). Horn: 1 bl. ev. 60s (bl. 5s, si. 55s). DGPS Station.
16440 <i>M 4452</i>	-E. breakwater, head.	37° 53.2' N 128° 50.1' E	Fl.R. period 4s	59 18	8	Red round concrete tower; 36.	AIS (MMSI No 994403810).
16444 <i>M 4452.5</i>	--W. breakwater, head.	37° 53.2' N 128° 49.9' E	Fl.G. period 4s	46 14	9	White round concrete tower; 33.	
16448 <i>M 4453</i>	-No 2 jetty, head.	37° 53.1' N 128° 50.0' E	Fl.G. period 6s	40 12	6	White round concrete tower; 33.	
16449 <i>M 4449.3</i>	-Breakwater, head.	37° 38.7' N 129° 03.2' E	Fl.R. period 5s	52 16	6	Red round concrete tower; 33.	
16450 <i>M 4449.35</i>	-Groin, head.	37° 38.8' N 129° 03.1' E	Fl.G. period 5s	39 12	6	White round concrete tower; 33.	
16451 <i>M 4449.8</i>	Sach'onjin Hang, N. breakwater.	37° 50.1' N 128° 52.8' E	Fl.R. period 5s	49 15	8	Red round concrete tower; 33.	
16451.5 <i>M 4449.85</i>	-S. breakwater.	37° 49.9' N 128° 52.7' E	Fl.G. period 5s	39 12	6	White round concrete tower; 33.	

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SOUTH KOREA							
16451.6 M 4449.7	Anmok Hang, N. breakwater.	37° 46.3' N 128° 57.4' E	Fl.R. period 5s	59 18	8	Red round concrete tower; 33.	
16451.65 M 4449.75	-S. breakwater, head.	37° 46.3' N 128° 57.3' E	Fl.G. period 5s	59 18	6	White round concrete tower; 33.	
16451.7 M 4449.6	Anin-dan.	37° 44.2' N 128° 59.5' E	Fl.R. period 4s	49 15	9	Red round concrete tower; 33.	
16451.8 M 4449.65	-Groin.	37° 44.1' N 128° 59.4' E	Fl.G. period 4s	49 15	9	White round concrete tower; 33.	
16452 M 4449.5	Chongdongjin Dan.	37° 40.5' N 129° 03.3' E	Fl.W. period 8s	292 89	22	White round concrete tower; 33.	AIS (MMSI No 994403804).
16453 M 4449.4	-Simgok Hang, breakwater.	37° 39.9' N 129° 03.3' E	Fl.R. period 4s	36 11	8	Red four-sided metal tower; 20.	
16454 M 4449.1	Okgye Hang, N. breakwater.	37° 37.4' N 129° 03.8' E	Fl.R. period 4s	49 15	7	Red round concrete tower; 33.	Horn: 1 bl. ev. 55s (bl. 5s, si. 50s).
16454.1 M 4449.2	-S. breakwater.	37° 37.4' N 129° 03.6' E	Fl.G. period 4s	49 15	7	White round concrete tower; 33.	
16454.2 M 4449.25	-Sea berth.	37° 37.2' N 129° 03.7' E	Fl.(4)Y. period 8s	21 6	6	Yellow round fiberglass tower; 13.	
16455 M 4449.05	Hanjindan, Daejindeungdae, N. breakwater.	37° 34.9' N 129° 06.9' E	Fl.(2)R. period 6s	30 9	8	Red round concrete tower; 20.	
16455.1 M 4449.06	--S. breakwater.	37° 34.9' N 129° 06.8' E	Fl.(2)G. period 6s	26 8	8	White round concrete tower; 20.	
16456 M 4449	-Kanshin Tan.	37° 34.5' N 129° 07.0' E	Fl.W. period 5s	59 18	10	White round concrete tower; 33.	Visible 154°-344°.
16460 M 4447.6	Eodal-dong.	37° 34.0' N 129° 07.4' E	Fl.R. period 5s	46 14	8	Red concrete tower; 66.	AIS (MMSI No 994403816).
16463 M 4447.5	Eodal, N. breakwater.	37° 33.6' N 129° 07.3' E	Fl.R. period 6s	30 9	8	Red round concrete tower; 20.	
16463.5 M 4447.51	-S. breakwater.	37° 33.6' N 129° 07.3' E	Fl.G. period 6s	30 9	8	White round concrete tower; 20.	
16464 M 4447	Mukho Hang.	37° 33.3' N 129° 07.1' E	Fl.W. period 10s	299 91	26	White round concrete tower; 69.	Visible 174°-328°. AIS (MMSI No 994403800). Horn: 1 bl. ev. 55s (bl. 5s, si. 50s).
16466 M 4448	-W. breakwater, head.	37° 32.6' N 129° 06.9' E	Fl.G. period 6s	49 15	8	White round concrete tower; 36.	
16467 M 4448.4	-E. breakwater, head.	37° 32.4' N 129° 07.2' E	Fl.R. period 4s	59 18	18	Red square concrete tower; 36.	AIS (MMSI No 994403809).
16469 M 4448.5	-S. groin.	37° 32.4' N 129° 07.0' E	Fl.G. period 4s	46 14	9	White round concrete tower; 33.	F.W. 14m spotlight, visible 045°-051°.
16478 M 4446.8	Tonghae Hang, wharf.	37° 30.0' N 129° 08.2' E	Fl.(2)G. period 5s	30 9	8	White fiberglass pillar; 20.	
16480 M 4446.6	Bugpyeong Hang, N. breakwater, head.	37° 29.8' N 129° 09.0' E	Fl.(2)R. period 5s	56 17	9	Red round concrete tower; 49.	F.W. 17m spotlight, visible 010°-050°.
	RACON		B(- • • •)		10		(3 & 10cm).
16484 M 4446.5	-S. breakwater, head.	37° 29.8' N 129° 08.7' E	Fl.G. period 4s	52 16	9	White round concrete tower; 36.	AIS (MMSI No 994403808). F.W. Visible 203°-225°. 65m S. of main light.
16485 M 4446.7	Yugong Seaberth.	37° 29.8' N 129° 08.6' E	Fl.(4)Y. period 8s	23 7	7	Yellow fiberglass pillar; 13.	Private light.
16486 M 4446.63	Donghae Hang.	37° 29.6' N 129° 08.8' E	Fl.(4)Y. period 8s	39 12	6	Yellow fiberglass pillar; 20.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16487 M 4437.2	Samchok Hang.	37° 26.3' N 129° 11.4' E	Dir.W.R.G.	105 32	W. 21 R. 17 G. 17	White metal tower, 102.	F.R. 318°48'-320°24', F.W.-322°, F.G.-323°36'.
16488 M 4436	-S. breakwater, head.	37° 25.9' N 129° 11.6' E	Fl.G. period 4s	46 14	8	White round concrete tower; 33.	F.W. 14m spotlight, visible 122°-162°.
16492 M 4437	-N. breakwater, head.	37° 25.9' N 129° 11.8' E	Fl.R. period 4s	52 16	9	Red round concrete tower; 33.	
16496 M 4435	Pi Mal.	37° 22.8' N 129° 15.4' E	Fl.W. period 5s	249 76	10	White round concrete tower; 49.	AIS (MMSI No 994403805).
16502 M 4434.3	-Groin.	37° 17.3' N 129° 18.9' E	Fl.R. period 5s	36 11	6	Red round concrete tower; 33.	
16504 M 4434.2	-Breakwater, head.	37° 17.4' N 129° 18.9' E	Fl.G. period 5s	56 17	6	White round steel tower; 33.	
16504.5 M 4434.5	Chogok Hang.	37° 18.7' N 129° 17.5' E	Fl.G. period 5s	39 12	8	White quadrangular metal tower; 20.	
16505 M 4434.75	Toksan Hang, N. breakwater.	37° 22.5' N 129° 15.3' E	Fl.R. period 5s	52 16	6	Red round concrete tower; 33.	
16506 M 4434.7	-S. breakwater.	37° 22.5' N 129° 15.2' E	Fl.G. period 5s	46 14	6	White round concrete tower; 36.	
16508 M 4433.7	Imunae Hang.	37° 14.1' N 129° 21.3' E	Fl.W. period 8s	197 60	22	White round concrete tower; 33.	
16516 M 4433.8	-N. breakwater, head.	37° 13.5' N 129° 20.6' E	Fl.G. period 6s	43 13	8	White round concrete tower; 33.	
16518 M 4433.9	--Breakwater, head.	37° 13.5' N 129° 20.7' E	Fl.R. period 4s	52 16	6	Red round concrete tower; 33.	AIS (MMSI No 994403807).
	--RACON		G(- - •)		10		(3 & 10cm).
	ULLUNG DO:						
16520 M 4446.2	-Hyongnangap.	37° 29.2' N 130° 55.2' E	Fl.W. period 14s	381 116	26	White round concrete tower; 43.	Visible 183°-040°. AIS (MMSI No 994403582). Horn: 1 bl. ev. 60s (bl. 5s, si. 55s).
16524 M 4445.7	--Jeodong Hang, N. breakwater, head.	37° 29.9' N 130° 54.9' E	Fl.R. period 5s	52 16	6	Red round concrete tower; 26.	
16528 M 4445.8	--S. breakwater, head.	37° 29.8' N 130° 54.8' E	Fl.G. period 5s	52 16	5	White round concrete tower; 26.	
16536 M 4443	-Ch'onbu Hang, breakwater, head.	37° 32.5' N 130° 52.3' E	Fl.G. period 4s	29 9	5	White round concrete column; 26.	
16541 M 4446.4	-Ssangjongocho.	37° 33.4' N 130° 56.4' E	Fl.(2)W. period 5s	56 17	8	ISOLATED DANGER BRB, beacon, topmark; 75.	AIS (MMSI No 994403583).
	--RACON		C(- • • •)		10		(3 & 10cm).
16542 M 4443.5	-N. breakwater.	37° 31.8' N 130° 49.7' E	Fl.R. period 5s	56 17	5	Red round concrete column; 33.	
16544 M 4445	-Kanryong Mal.	37° 27.2' N 130° 52.5' E	Fl.W. period 5s	69 21	19	White octagonal concrete tower; 49.	Visible 270°-110°. AIS (MMSI No 994403581).
16548 M 4440	Dokto.	37° 14.4' N 131° 52.2' E	Fl.W. period 10s	341 104	25	White round concrete tower; 49.	Visible 140°-117°. Radar reflector.
	RACON		K(- • -)		10		(3 & 10cm).
16551 M 4433.5	Hosan Hang.	37° 10.5' N 129° 21.1' E	Fl.R. period 5s	46 14	8	Red round tower; 33.	
16551.1 M 4433.6	-Hosan groin.	37° 10.5' N 129° 21.0' E	Fl.G. period 5s	46 14	8	White round tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16552 <i>M 4432</i>	Chukpyon Dong.	37° 03.5' N 129° 25.7' E	Fl.W. period 20s	161 49	20	White octagonal concrete tower; 52.	Visible 162°-352°. Horn: 1 bl. ev. 50s. (bl. 5s, si. 45s).
16556 <i>M 4432.6</i>	-E. breakwater, head.	37° 03.0' N 129° 25.4' E	Fl.R. period 4s	33 10	5	Red round concrete tower; 27.	
16560 <i>M 4433</i>	-W. breakwater.	37° 03.1' N 129° 25.3' E	Fl.G. period 4s	36 11	5	White round concrete tower; 26.	
16564 <i>M 4431.5</i>	Jinmimal.	36° 53.6' N 129° 25.1' E	Fl.W. period 6s	190 58	19	White round concrete tower; 39.	Visible 184°-340°. AIS (MMSI No 994403571).
16565 <i>M 4431.45</i>	Osan Hang, N. breakwater, head.	36° 53.3' N 129° 25.3' E	Fl.R. period 4s	49 15	6	Red round metal tower; 26.	
16566 <i>M 4431.2</i>	Sadong, N. breakwater.	36° 49.4' N 129° 27.1' E	Fl.R. period 5s	56 17	5	Red round concrete column; 33.	
16566.2 <i>M 4431.4</i>	-S. breakwater.	36° 49.4' N 129° 27.1' E	Fl.G. period 5s	49 15	5	White round concrete column; 33.	
16568 <i>M 4431</i>	Hwamo Mal.	36° 46.0' N 129° 28.6' E	Fl.W. period 7s	157 48	19	White round concrete tower; 33.	
16569 <i>M 4430.5</i>	Gusan Hang, N. breakwater.	36° 45.4' N 129° 28.5' E	Fl.R. period 5s	49 15	5	Red round concrete tower; 26.	
16569.1 <i>M 4430.8</i>	-S. breakwater.	36° 45.4' N 129° 28.4' E	Fl.G. period 5s	52 16	6	White round concrete tower; 33.	
16569.5 <i>M 4430.85</i>	-SW.	36° 45.3' N 129° 28.3' E	Q.(6)+L.Fl.W. period 15s	30 9	8	S. CARDINAL YB, tower, topmark; 20.	
16569.7 <i>M 4430.3</i>	Jiksan Hang, S. breakwater.	36° 43.4' N 129° 28.5' E	Fl.G. period 4s	46 14	5	White round metal tower; 33.	
16569.9 <i>M 4430.31</i>	-E. breakwater.	36° 43.4' N 129° 28.5' E	Fl.R. period 4s	46 14	5	Red round metal tower; 33.	
16571 <i>M 4430.2</i>	Wangdolcho.	36° 43.1' N 129° 43.9' E	Fl.(2)W. period 5s	52 16	10	ISOLATED DANGER BRB, tower, topmark; 98.	
	RACON		Y(- • - -)		10		(3 & 10cm).
	HUPO HANG:						
16572 <i>M 4426</i>	-Hup'o.	36° 40.7' N 129° 27.7' E	Fl.W. period 10s	210 64	26	White octagonal concrete tower; 36.	Visible 210°-014°. AIS (MMSI No 994404432). Horn: 1 bl. ev. 50s (bl. 5s, si. 45s).
16574 <i>M 4427</i>	-Hup'o Chedong.	36° 41.2' N 129° 28.2' E	Fl.R. period 5s	49 15	5	Red round concrete tower; 33.	
16576 <i>M 4430.04</i>	-E. breakwater, head.	36° 40.3' N 129° 27.3' E	Fl.R. period 4s	52 16	8	Red round metal tower; 33.	
16580 <i>M 4430</i>	-W. breakwater, head.	36° 40.5' N 129° 27.3' E	Fl.G. period 4s	43 13	5	White round concrete tower; 33.	
16581 <i>M 4428.1</i>	Baekseok Hang, S. breakwater.	36° 37.4' N 129° 24.8' E	Fl.G. period 5s	43 13	6	White round concrete tower; 33.	
16584 <i>M 4424</i>	Ch'uksan Hang.	36° 30.4' N 129° 27.1' E	Fl.W. period 5s	335 102	19	White octagonal concrete tower; 75.	AIS (MMSI No 994403570).
16588 <i>M 4420</i>	-S. breakwater, head.	36° 30.6' N 129° 27.0' E	Fl.G. period 4s	33 10	5	White round concrete tower; 26.	
16592 <i>M 4421</i>	-N. breakwater, head.	36° 30.6' N 129° 27.2' E	Fl.R. period 5s	26 8	8	Red round metal tower; 26.	
16594 <i>M 4420.3</i>	-E. breakwater, head.	36° 30.6' N 129° 27.1' E	Fl.G. period 5s	49 15	6	White octagonal concrete tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16595 M 4419	Gyeonjeon Hang, E. breakwater.	36° 28.9' N 129° 26.1' E	Fl.R. period 4s	49 15	6	Red round concrete tower; 33.	
16596 M 4418	Changp'o Mal.	36° 25.5' N 129° 26.0' E	Fl.W. period 6s	200 61	23	White round concrete tower; 39.	Visible 197°-010°.
16596.5 M 4417	Changp'o Mal, breakwater.	36° 24.3' N 129° 25.6' E	Fl.R. period 5s	43 13	6	Red round metal tower; 23.	
16597 M 4424.5	Taejin Hang, N. breakwater.	36° 33.5' N 129° 26.2' E	Fl.R. period 5s	49 15	6	Red round concrete tower; 26.	
16598 M 4424.6	-S. breakwater.	36° 33.5' N 129° 26.1' E	Fl.G. period 5s	43 13	6	White round concrete tower; 33.	
GANGGU HANG:							
16600 M 4415	-E. breakwater.	36° 21.4' N 129° 23.6' E	Fl.R. period 5s	56 17	8	Red metal pipe; 36.	
16604 M 4414	-W. breakwater.	36° 21.4' N 129° 23.4' E	Fl.G. period 5s	30 9	11	White round concrete tower; 23.	
KUKYE HANG:							
16609 M 4413.7	-Kukye Hang, breakwater.	36° 18.9' N 129° 23.0' E	Fl.R. period 5s	56 17	8	Red round concrete tower; 33.	
16610 M 4413.75	-E. breakwater.	36° 19.1' N 129° 22.9' E	Fl.R. period 5s	43 13	5	Red round concrete tower; 33.	
16611 M 4413.8	-S. breakwater.	36° 19.0' N 129° 22.8' E	Fl.G. period 5s	42 13	5	White round concrete tower; 33.	
16611.5 M 4413.65	Jigyeong Hang, breakwater.	36° 15.6' N 129° 22.6' E	Fl.R. period 5s	49 15	5	Red round concrete tower; 33.	
16611.6 M 4413.638	Hwanjin Hang, N. breakwater.	36° 14.6' N 129° 23.0' E	Fl.G. period 4s	46 14	6	White round concrete tower; 33.	
16611.65 M 4413.636	-S. breakwater.	36° 14.4' N 129° 23.2' E	Fl.G. period 5s	39 12	6	White round concrete tower; 36.	
16611.7 M 4413.632	Bangseok.	36° 13.9' N 129° 23.0' E	Fl.R. period 5s	46 14	8	Red round concrete tower; 33.	
16611.8 M 4413.63	Josa Hang, breakwater.	36° 13.3' N 129° 23.3' E	Fl.R. period 4s	46 14	8	Red round concrete tower; 33.	
16611.9 M 4413.625	Igari Hang, N. breakwater.	36° 11.1' N 129° 23.2' E	Fl.R. period 5s	43 13	5	Red round concrete tower; 33.	
POHANG HANG:							
16612 M 4413.6	-Wol'po Man.	36° 11.0' N 129° 23.5' E	Fl.W. period 7s	79 24	19	White round concrete tower; 33.	
16612.2 M 4413.58	-Cheongjin Hang, N. breakwater.	36° 10.4' N 129° 23.8' E	Fl.R. period 4s	62 19	5	Red round concrete tower; 33.	
16612.3 M 4413.57	-Odo.	36° 09.3' N 129° 24.2' E	Q.(3)W. period 10s	49 15	8	E. CARDINAL BYB, tower, topmark; 36.	
16612.5 M 4413.55	-Chilpo Hang, breakwater.	36° 08.6' N 129° 23.8' E	Fl.R. period 5s	46 14	5	Red round concrete tower; 33.	
16613 M 4410.8	-Singhang, breakwater, NW. head.	36° 07.1' N 129° 26.4' E	Fl.G. period 4s	66 20	8	White round concrete tower; 72.	AIS (MMSI No 994403573).
16613.5 M 4410.9	---SE. head.	36° 05.4' N 129° 27.8' E	Fl.(2)R. period 6s	102 31	9	Red four-sided concrete tower; 82.	AIS (MMSI No 994403568).
16614 M 4410.6	-Yongil Man, N. breakwater, head.	36° 06.8' N 129° 26.4' E	Fl.R. period 4s	46 14	7	Red octagonal concrete tower; 46.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16614.5 <i>M 4410.52</i>	--Inner breakwater, N. head.	36° 06.7' N 129° 25.9' E	Fl.R. period 5s	23 7	5	Red round metal tower; 17.	
16615 <i>M 4410.54</i>	--S. head.	36° 06.7' N 129° 25.9' E	Fl.G. period 5s	23 7	6	White round metal tower; 17.	
16615.5 <i>M 4410.65</i>	--S. breakwater, head.	36° 06.7' N 129° 26.5' E	Fl.G. period 4s	31 10	8	White round metal tower; 27.	
16615.6 <i>M 4410.96</i>	-Yeongilman Hang, S. dock, E. head.	36° 05.6' N 129° 26.2' E	Fl.(3)Y. period 7s	24 7	6	Yellow round steel pipe; 14.	
16615.7 <i>M 4410.97</i>	---W. head.	36° 05.6' N 129° 25.7' E	Fl.(3)Y. period 7s	24 7	6	Yellow round steel pipe; 14.	
16615.8 <i>M 4410.94</i>	--Detached breakwater, N. head.	36° 05.5' N 129° 27.2' E	Fl.(2)G. period 6s	102 31	10	White four-sided tower; 92.	AIS (MMSI No 994403592).
16615.9 <i>M 4410.95</i>	--S. head.	36° 04.9' N 129° 26.8' E	Fl.(4)W. period 8s	52 16	8	Yellow round steel pipe; 28.	
16616 <i>M 4410.5</i>	-Yonam-gap.	36° 04.6' N 129° 25.2' E	Fl.W. period 5s	108 33	20	White octagonal concrete tower; 46.	
16617 <i>M 4413.45</i>	-Duho Hang.	36° 03.7' N 129° 23.2' E	Fl.(2)R. period 6s	33 10	8	Red round metal post; 30.	
16620 <i>M 4413.2</i>	-Old Harbor, N. breakwater, head.	36° 02.8' N 129° 23.1' E	Fl.R. period 5s	49 15	15	Red round concrete tower; 36.	
16620.5 <i>M 4413</i>	--S. breakwater, head.	36° 02.8' N 129° 22.9' E	Fl.G. period 5s	43 13	10	White round concrete structure; 33.	
16621 <i>M 4413.4</i>	-Dongbin Bridge.	36° 02.4' N 129° 22.3' E	Iso.W. period 4s	30 9	7	White round daymark, red stripes.	Iso.R. 4s 9m 7M and Iso.G. 4s 9m 7M mark width of navigable span. Iso.Y. 4s 3m 7M, Iso.Y. 4s 6m 7M and Iso.Y. 4s 4m 7M mark piers.
16621.1 <i>M 4413.21</i>	-Pohanggu Hang, N.	36° 02.7' N 129° 22.9' E	Fl.(4)Y. period 8s	20 6	7	SPECIAL Y, beacon, "X" topmark; 21.	
16621.2 <i>M 4413.22</i>	--Middle.	36° 02.4' N 129° 23.1' E	Fl.(4)Y. period 8s	20 6	7	SPECIAL Y, beacon, "X" topmark; 21.	
16621.3 <i>M 4413.23</i>	--S.	36° 02.1' N 129° 23.2' E	Fl.(4)Y. period 8s	20 6	7	SPECIAL Y, beacon, "X" topmark; 21.	
16624 <i>M 4412</i>	-Pohang Shin Hang.	36° 01.4' N 129° 24.0' E	Dir.W.R.G.	236 72	W. 18 R. 15 G. 14	White square framework tower; 226.	F.R. 258°42'-262°, F.W.-265°18', F.G.-268°36'.
16626 <i>M 4411.4</i>	--Range, front.	36° 01.2' N 129° 25.4' E	F.G.	115 35	14	Framework tower; 98.	Visible 237°30'-245°24'. AIS (MMSI No 994403567).
16627 <i>M 4411.41</i>	---Rear, 241°30' from front.	36° 00.9' N 129° 24.7' E	F.G.	240 73	14	Framework tower; 230.	Visible 237°30'-245°24'. AIS (MMSI No 994403566).
16628 <i>M 4412.6</i>	--Inner Harbor, inner detached breakwater, W. head.	36° 01.2' N 129° 24.3' E	Fl.G. period 5s	39 12	7	Red octagonal concrete tower; 33.	
16632 <i>M 4412.5</i>	----E. head.	36° 01.1' N 129° 24.5' E	Fl.R. period 5s	39 12	7	Red octagonal concrete tower; 33.	
16633 <i>M 4412.72</i>	---Outer detached breakwater, W. head.	36° 01.3' N 129° 24.9' E	Fl.G. period 4s	33 10	7	White round fiberglass structure; 23.	
16634 <i>M 4412.7</i>	----E. head.	36° 01.1' N 129° 25.1' E	Fl.R. period 4s	33 10	7	Red round fiberglass structure; 23.	
16636 <i>M 4411</i>	--Entrance, N. breakwater, head.	36° 01.6' N 129° 25.9' E	Fl.R. period 6s	66 20	12	Red octagonal column; 49.	
16640 <i>M 4411.2</i>	--S. breakwater, head.	36° 01.3' N 129° 25.4' E	Fl.G. period 6s	56 17	15	White round concrete structure; 43.	
16642 <i>M 4412.8</i>	-Seawater Sampling Tower.	36° 00.3' N 129° 25.3' E	Fl.Y. period 5s	23 7	8	SPECIAL Y, tower, topmark; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16642.3 <i>M 4408.6</i>	-Masan Hang.	36° 01.1' N 129° 29.2' E	Fl.G. period 5s	39 12	8	White tower; 33.	
16642.4 <i>M 4408.58</i>	-Heunghwan Hang, N. breakwater.	36° 01.6' N 129° 30.1' E	Fl.(2)G. period 6s	36 11	8	White round metal column; 30.	
16642.5 <i>M 4408.5</i>	-Palsan-dong, S. breakwater, head.	36° 01.9' N 129° 30.2' E	Fl.R. period 4s	39 12	6	Red round concrete tower; 33.	
16642.6 <i>M 4408.55</i>	--N. breakwater, head.	36° 01.9' N 129° 30.1' E	Fl.G. period 4s	46 14	5	White round concrete tower; 33.	
16643 <i>M 4408</i>	-Taedongbae-dong, breakwater.	36° 03.6' N 129° 31.9' E	Fl.G. period 5s	31 10	5	White round metal tower; 23.	
16644 <i>M 4409</i>	-Gyoseokcho.	36° 05.5' N 129° 33.5' E	Fl.G. period 5s	49 15	13	PORT (B) G, tower, topmark; 66.	
	-RACON		Z(- - • •) period 60s		10		(3cm).
16645 <i>M 4408.8</i>	Guman Hang.	36° 05.1' N 129° 33.1' E	Fl.R. period 5s	36 11	8	Red round steel tower; 30.	
16648 <i>M 4410</i>	Daebo Hang, N. breakwater, head.	36° 04.8' N 129° 33.8' E	Fl.R. period 4s	49 15	5	Red round concrete tower; 26.	
16648.5 <i>M 4410.2</i>	-S. breakwater, head.	36° 04.8' N 129° 33.8' E	Fl.G. period 4s	42 13	6	White round concrete tower; 26.	
16648.6 <i>M 4410.1</i>	-Detached breakwater, N. head.	36° 04.9' N 129° 33.8' E	Fl.(2)G. period 6s	39 12	8	White round concrete tower; 23.	
16652 <i>M 4406</i>	Homigot.	36° 04.6' N 129° 34.2' E	Fl.W. period 12s	102 31	26	White octagonal brick tower; 85.	Visible 106°-347°. AIS (MMSI No 994403591). Siren: 1 bl. ev. 60s (bl. 4s, si. 56s). DGPS Station.
16652.1 <i>M 4405.6</i>	Kangsa.	36° 02.3' N 129° 34.8' E	Fl.G. period 5s	39 12	8	White round concrete tower; 33.	
16653	Seokbyeong.	36° 01.5' N 129° 34.7' E	Fl.R. period 4s	39 12	8	Red round concrete tower; 33.	
16654 <i>M 4404.6</i>	Seokbyeong, breakwater.	36° 00.7' N 129° 34.7' E	Fl.R. period 5s	43 13	5	Red round concrete tower; 33.	
16655 <i>M 4404.4</i>	Samjeong.	36° 00.4' N 129° 34.7' E	Fl.R. period 4s	39 12	8	Red round steel pipe; 33.	
16655.1 <i>M 4404.3</i>	Samjung Hang.	36° 00.1' N 129° 34.4' E	Fl.R. period 6s	49 15	8	Red round concrete tower; 33.	
GURYONGPO HANG:							
16656 <i>M 4404</i>	-Saramal.	35° 59.5' N 129° 34.0' E	Fl.W. period 9s	59 18	19	White round concrete tower; 33.	Visible 208°-011°.
16656.1 <i>M 4404.1</i>	--E.	35° 59.5' N 129° 34.4' E	Q.(3)W. period 10s	43 13	8	E. CARDINAL BYB, beacon, topmark; 69.	AIS (MMSI No 994403593).
16660 <i>M 4405</i>	-Breakwater, head.	35° 59.1' N 129° 33.5' E	Fl.R. period 4s	46 14	5	Red round concrete tower; 33.	
16661 <i>M 4405.5</i>	-S. breakwater.	35° 59.1' N 129° 33.6' E	Fl.G. period 5s	46 14	10	White round concrete tower; 33.	
16661.3 <i>M 4403.9</i>	Janggireo Hang.	35° 57.1' N 129° 32.7' E	Fl.R. period 6s	46 14	11	Red pillar; 33.	
16661.4 <i>M 4403.88</i>	Gupyeongni Hang.	35° 56.6' N 129° 32.2' E	Fl.G. period 5s	39 12	6	White round concrete tower; 33.	
16661.5 <i>M 4403.8</i>	Mopo Hang, breakwater.	35° 55.9' N 129° 31.5' E	Fl.R. period 5s	49 15	8	Red round concrete tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16661.6 <i>M 4403.85</i>	Seongmaam.	35° 55.7' N 129° 32.4' E	Fl.(2)W. period 5s	66 20	8	ISOLATED DANGER BRB, beacon, topmark; 43.	AIS (MMSI No 994403594).
16661.61 <i>M 4403.6</i>	Yeongam.	35° 54.8' N 129° 31.5' E	Fl.R. period 5s	43 13	8	Red round concrete tower; 33.	
16661.7 <i>M 4403.5</i>	Koejon-mal, Yeongam Hang, breakwater.	35° 54.3' N 129° 31.8' E	Fl.R. period 4s	33 10	6	Red round metal tower; 20.	
16661.9 <i>M 4403.3</i>	Inner breakwater.	35° 52.7' N 129° 31.3' E	Fl.G. period 4s	33 10	6	White round metal tower; 20.	
16662 <i>M 4403</i>	Yangp'o Hang.	35° 52.5' N 129° 31.7' E	Fl.R. period 4s	46 14	5	Red round concrete tower; 33.	
16664 <i>M 4402</i>	Yangp'o.	35° 52.2' N 129° 32.0' E	Fl.W. period 7s	79 24	19	White round concrete tower; 31.	Visible 110°-021°.
16665 <i>M 4401</i>	Cheoksa Hang, breakwater.	35° 48.8' N 129° 30.8' E	Fl.R. period 5s	26 8	5	Red metal tower; 20.	
KAMP'O HANG:							
16668 <i>M 4400</i>	-Songdae Khut.	35° 48.4' N 129° 30.7' E	Fl.W. period 20s	112 34	26	White four-sided concrete tower; 69.	Visible 197°-014°. AIS (MMSI No 994403569). Siren: 1 bl. ev. 50s (bl. 5s, si. 45s).
16669 <i>M 4399.5</i>	-Gwanam.	35° 48.3' N 129° 30.9' E	Q.(6)+L.Fl.W. period 15s	59 18	8	S. CARDINAL YB, beacon, topmark; 56.	
16672.1 <i>M 4398.2</i>	-N. breakwater, head.	35° 48.3' N 129° 30.5' E	Fl.R. period 4s	49 15	6	Red round concrete tower; 26.	
16672.2 <i>M 4399.2</i>	N. Kamp'o Hang.	35° 48.2' N 129° 30.5' E	Fl.(2)G. period 6s	43 13	5	White round concrete tower; 23.	
16672.3 <i>M 4397.85</i>	Jeonchon Hang.	35° 47.3' N 129° 29.7' E	Fl.R. period 5s	49 15	6	Red round concrete tower; 33.	
16672.5 <i>M 4397.86</i>	-S. breakwater.	35° 47.4' N 129° 29.7' E	Fl.G. period 5s	46 14	6	White round concrete tower; 33.	
16672.6 <i>M 4397.77</i>	Jukjeon, breakwater.	35° 42.0' N 129° 28.5' E	Fl.(2)Y. period 6s	49 15	7	Yellow round beacon; 30.	
16672.7 <i>M 4397.7</i>	Upchon Hang, N. breakwater.	35° 47.3' N 129° 29.7' E	Fl.R. period 5s	49 15	7	STARBOARD (B) R, tower; 33.	
16673 <i>M 4397.4</i>	Chongja Hang, N. breakwater.	35° 37.0' N 129° 27.2' E	Fl.(2)R. period 6s	52 16	8	Black metal tower; 33.	
16673.1 <i>M 4397.5</i>	-S. breakwater.	35° 37.0' N 129° 27.2' E	Fl.G. period 6s	52 16	9	White metal tower; 33.	
16673.5 <i>M 4397.3</i>	Wisuga Hang.	35° 35.8' N 129° 27.8' E	Fl.(2)G. period 6s	36 11	8	White round steel pipe; 26.	
16673.6 <i>M 4397.1</i>	Uga Hang.	35° 35.6' N 129° 27.8' E	Fl.R. period 5s	36 11	5	Red round steel pipe; 26.	
16674 <i>M 4397</i>	Idokso.	35° 34.0' N 129° 28.4' E	Fl.(2)W. period 5s	46 14	8	ISOLATED DANGER BRB, tower, topmark; 59.	AIS (MMSI No 994401551).
16675 <i>M 4396.8</i>	Jujeon Hang, E. breakwater.	35° 33.7' N 129° 27.5' E	Fl.R. period 5s	43 13	5	Red concrete tower; 25.	
16675.5 <i>M 4396.7</i>	-W. breakwater.	35° 33.7' N 129° 27.5' E	Fl.G. period 5s	43 13	6	White round metal tower; 30.	
16680 <i>M 4394</i>	Ulgi.	35° 29.6' N 129° 26.6' E	Fl.W. period 10s	174 53	26	White octagonal concrete tower; 79.	Visible 184°-014°. AIS (MMSI No 994401546). Horn.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
MIPO HANG:							
16680.9 <i>M 4396.5</i>	-N. breakwater.	35° 31.6' N 129° 27.2' E	Fl.R. period 5s	56 17	9	Red round concrete tower; 33.	
16681.2 <i>M 4396.6</i>	-S. breakwater.	35° 31.5' N 129° 27.0' E	Fl.G. period 5s	59 18	8	White round concrete tower; 49.	
16682 <i>M 4395</i>	-Jeonhaman.	35° 30.5' N 129° 26.9' E	Fl.(2)R. period 6s	52 16	7	Red round tower; 30.	
16683 <i>M 4394.5</i>	-Ilsan Hang.	35° 29.9' N 129° 26.4' E	Q.(6)+L.Fl.W. period 15s	56 17	9	S. CARDINAL YB, tower, topmark; 62.	
BANGEOJIN HANG:							
16684 <i>M 4390</i>	-Breakwater, head.	35° 28.8' N 129° 25.7' E	Fl.G. period 5s	49 15	9	White square metal framework tower; 36.	
16686 <i>M 4389</i>	-Seul Do, breakwater, head.	35° 28.7' N 129° 25.7' E	Fl.R. period 5s	62 19	9	Red round concrete tower; 43.	
16687 <i>M 4388</i>	---Elbow.	35° 28.7' N 129° 25.9' E	Fl.W. period 6s	75 23	19	White octagonal concrete tower; 52.	Visible 225°-075°.
ULSAN MAN:							
16688 <i>M 4385</i>	-Hwaam Chu.	35° 28.4' N 129° 24.4' E	Fl.W. period 12s	85 26	23	White round concrete tower.	AIS (MMSI No 994401545). Horn: 1 bl. ev. 60s (bl. 5s, si. 55s).
16690 <i>M 4381.3</i>	-Detached E. breakwater, E. head.	35° 28.1' N 129° 24.4' E	Fl.Y. period 4s	30 9	11	Yellow round concrete tower; 33.	
16690.1 <i>M 4381.301</i>	--A.	35° 28.0' N 129° 24.0' E	Fl.Y. period 4s	39 12	6	Yellow metal post; 20.	
16690.2 <i>M 4381.302</i>	--B.	35° 28.0' N 129° 24.1' E	Fl.Y. period 4s	39 12	6	Yellow metal post; 20.	
16690.3 <i>M 4381.303</i>	--C.	35° 28.0' N 129° 24.1' E	Fl.Y. period 4s	39 12	6	Yellow metal post; 20.	
16690.4 <i>M 4381.304</i>	--D.	35° 28.0' N 129° 24.2' E	Fl.Y. period 4s	39 12	6	Yellow metal post; 20.	
16690.5 <i>M 4381.305</i>	--E.	35° 28.1' N 129° 24.2' E	Fl.Y. period 4s	39 12	6	Yellow metal post; 20.	
16690.6 <i>M 4381.306</i>	--F.	35° 28.1' N 129° 24.3' E	Fl.Y. period 4s	39 12	6	Yellow metal post; 20.	
16690.7 <i>M 4381.307</i>	--G.	35° 28.1' N 129° 24.3' E	Fl.Y. period 4s	39 12	6	Yellow metal post; 20.	
16690.8 <i>M 4381.308</i>	--H.	35° 28.1' N 129° 24.3' E	Fl.Y. period 4s	39 12	6	Yellow metal post; 20.	
16691 <i>M 4381.36</i>	--W. head.	35° 28.0' N 129° 24.0' E	Fl.R. period 4s	85 26	19	Red round concrete tower; 66.	AIS (MMSI No 994401550).
	--RACON		O(---) period 60s		10		(3cm).
16691.5 <i>M 4381.38</i>	-Hwaam Budu.	35° 28.3' N 129° 24.3' E	Fl.(2)Y. period 6s	56 17	10	Yellow round metal tower; 23.	
16692 <i>M 4381.4</i>	-Yugong Seaberth, A.	35° 28.6' N 129° 23.4' E	Fl.(2)Y. period 6s	36 11	7	Yellow round fiberglass tower; 15.	
16696 <i>M 4381.5</i>	--B.	35° 29.2' N 129° 23.4' E	Fl.Y. period 4s	30 9	11	SPECIAL Y, tower, "X" topmark; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16696.1 M 4381.6	--Inner pier, head.	35° 29.0' N 129° 23.2' E	Fl.(3)Y. period 7s	36 11	7	Yellow round tower; 26.	
16698 M 4382.5	-Jangsaengpo Hang, S. wharf.	35° 29.9' N 129° 22.2' E	Fl.Y. period 4s	28 8	8	Yellow round fiberglass tower; 23.	
16699 M 4382.7	--Pier, No 1.	35° 30.1' N 129° 21.9' E	Fl.(2)Y. period 6s	24 7	10	Yellow round fiberglass tower; 16.	
16699.5 M 4381.8	-Maeam Wharf.	35° 30.1' N 129° 23.4' E	Fl.G. period 4s	56 17	7	White round concrete tower; 49.	
16700 M 4382	-Ulsan Hang, breakwater, head.	35° 30.3' N 129° 23.4' E	Fl.G. period 6s	62 19	10	White concrete tower; 52.	AIS (MMSI No 994401547).
16702 M 4383	-Exports and Imports Wharf, A.	35° 31.1' N 129° 23.6' E	Fl.(4)Y. period 8s	20 6	7	SPECIAL Y, tower, "X" topmark; 13.	Private light.
16702.5 M 4383.2	--B.	35° 31.5' N 129° 23.4' E	Fl.Y. period 4s	20 6	7	SPECIAL Y, tower, "X" topmark; 13.	Private light.
16705 M 4381.19	--Detached breakwater, S. head.	35° 27.0' N 129° 22.7' E	Fl.R. period 4s	102 31	10	Red round concrete tower.	
16705.1 M 4381.2	---Elbow.	35° 27.3' N 129° 22.8' E	Fl.(2)Y. period 6s	36 11	7	Yellow round metal pipe.	
16706 M 4381.12	--S. breakwater, E. head.	35° 26.7' N 129° 22.7' E	Fl.Y. period 4s	56 17	12	Yellow round concrete tower; 43.	
16708 M 4379.2	---Elbow.	35° 26.9' N 129° 22.2' E	Fl.G. period 6s	72 22	13	White round structure; 56.	
16709 M 4379.7	--Jeongil Wharf.	35° 27.0' N 129° 22.0' E	Fl.Y. period 4s		7	Yellow round fiberglass tower; 13.	
16710 M 4379.4	--Ssangyang Oil Refining Wharf.	35° 27.1' N 129° 21.6' E	Fl.(4)Y. period 8s	30 9	7	Yellow square metal tower; 16.	
16710.5 M 4379.45	--Pier, No 1.	35° 27.1' N 129° 21.4' E	Fl.(3)Y. period 7s	30 9	7	Yellow square metal tower; 20.	
16710.6 M 4379.48	---No 3.	35° 27.1' N 129° 21.2' E	Fl.Y. period 4s	46 14	10	Yellow round metal tower; 33.	
16711 M 4379.5	--Yuhwa Wharf, No 1, A.	35° 27.2' N 129° 21.2' E	Fl.(2)Y. period 6s	32 10	7	SPECIAL Y, tower, "X" topmark; 16.	
16711.3 M 4379.6	--OTK Wharf, No 1, B.	35° 27.4' N 129° 21.1' E	Fl.(2)Y. period 6s	30 9	8	Yellow round fiberglass column; 13.	Horn: 1 bl. ev. 20s.
16711.35 M 4379.65	---No 2.	35° 27.5' N 129° 21.0' E	Fl.(4)Y. period 8s	26 8	8	Yellow round fiberglass column; 14.	
16711.6 M 4381.14	-W. breakwater, N. head.	35° 26.7' N 129° 22.9' E	Fl.G. period 4s	98 30	19	White round concrete tower.	AIS (MMSI No 994401549).
16711.65 M 4381.16	-S. head.	35° 25.6' N 129° 22.6' E	Fl.(2)R. period 6s	102 31	10	Red round concrete tower.	AIS (MMSI No 994401548).
16711.66 M 4381.15	-Detached S. breakwater, N. head.	35° 25.6' N 129° 22.8' E	Fl.(4)Y. period 8s	66 20	8	Yellow round steel structure; 27.	
16711.67 M 4381.151	--Elbow.	35° 25.2' N 129° 22.9' E	Fl.(4)Y. period 8s	56 17	8	Yellow round steel structure; 20.	
16711.8 M 4381.18	-S. breakwater, E. head.	35° 25.9' N 129° 22.4' E	Fl.(2)G. period 6s	102 31	10	White round concrete tower.	
16711.84 M 4381.21	Ulsan Sin Hang, detached breakwater, N. head.	35° 28.1' N 129° 23.5' E	Fl.G. period 4s	95 29	9	White round concrete tower; 98.	
16711.85 M 4381	Donghae-1.	35° 25.8' N 130° 00.0' E	Mo.(U)W. period 15s	154 47	14	Platform; 581.	Horn: Mo.(U) 30s (bl. 1s, si. 29s).
	RACON		D(- • •)		20		(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16711.88 <i>M 4378.3</i>	-Ubang wang.	35° 23.8' N 129° 21.5' E	Fl.(2)R. period 6s			8 Red round metal post; 10.	
16711.89 <i>M 4378.1</i>	Gangyang Hang Bridge.	35° 23.4' N 129° 20.8' E	Fl.(2)W. period 6s			6 Red circular daymark, white stripes.	Fl.(2)G. 6s 7M and Fl.(2)R. 6s 7M mark width of navigable span. Fl.(2)Y. 6s 7M mark piers and bridge span.
16711.9 <i>M 4378.2</i>	Gangyang.	35° 23.4' N 129° 20.8' E	Fl.G. period 5s	33 10		7 Green concrete tower; 36.	
16711.94 <i>M 4378.05</i>	Songjeong Hang.	35° 22.1' N 129° 21.4' E	Fl.R. period 6s	39 12		8 Red round concrete tower; 30.	
16711.95 <i>M 4378.03</i>	Daesong Hang.	35° 21.8' N 129° 21.7' E	Fl.(2)R. period 6s	39 12		7 Red round concrete tower; 30.	
16712 <i>M 4378</i>	Kanjol Gap.	35° 21.6' N 129° 21.6' E	Fl.W. period 15s	115 35		26 White octagonal concrete tower; 56.	AIS (MMSI 994401544). Visible 165°-045°. Horn: 1 bl. ev. 55s (bl. 5s, si. 50s).
16713 <i>M 4377.9</i>	Nasa.	35° 21.1' N 129° 20.7' E	Fl.W. period 6s	59 18		19 White round concrete tower; 39.	
16714 <i>M 4377.6</i>	Wolnae Hang, S. breakwater.	35° 19.5' N 129° 16.8' E	Fl.G. period 5s	39 12		5 White round concrete tower; 32.	
16716.1 <i>M 4377.53</i>	Sinpyeong Hang, S. breakwater, head.	35° 17.8' N 129° 15.7' E	Fl.R. period 5s	49 15		8 Red round concrete tower; 36.	
16716.2 <i>M 4377.7</i>	Dongbaegeo Hang, N. breakwater, head.	35° 17.3' N 129° 15.5' E	Fl.R. period 5s	39 12		5 Red round concrete tower; 33.	
16718 <i>M 4377.1</i>	Hakri Hang, breakwater.	35° 15.7' N 129° 14.8' E	Fl.(2)G. period 5s	49 15		5 White round concrete tower; 46.	
16718.5 <i>M 4376.6</i>	Duho Hang.	35° 14.5' N 129° 15.1' E	Fl.G. period 4s	62 19		8 STARBOARD (A) G, tower, topmark; 39.	
16718.6 <i>M 4376.4</i>	Woljeon Hang, breakwater.	35° 14.2' N 129° 14.7' E	Fl.R. period 4s	43 13		8 Red four-sided concrete tower; 36.	
16719 <i>M 4376.3</i>	Gwanggyemal.	35° 13.8' N 129° 14.7' E	Fl.W. period 6s	75 23		8 White octagonal concrete tower; 43.	
16720 <i>M 4376</i>	Taebyon Hang, inner breakwater, head.	35° 13.3' N 129° 13.8' E	Fl.R. period 5s	59 18		8 Red round concrete tower; 43.	
16721 <i>M 4375.9</i>	-E. breakwater, head.	35° 12.9' N 129° 14.0' E	Fl.(2)R. period 6s	75 23		12 Red round concrete tower; 56.	
16722.5 <i>M 4375.95</i>	-S. breakwater, E. head.	35° 12.8' N 129° 14.0' E	Fl.G. period 5s	79 24		8 White round concrete tower; 56.	
16723 <i>M 4375.98</i>	-S. breakwater, W. head.	35° 12.8' N 129° 13.9' E	Fl.Y. period 5s	66 20		8 Yellow round concrete tower; 46.	
16723.5 <i>M 4375.7</i>	Songjeong Hang, E. breakwater.	35° 10.9' N 129° 12.4' E	Fl.R. period 5s	36 11		8 Red round concrete tower; 33.	
16723.51 <i>M 4375.71</i>	-W. breakwater.	35° 10.8' N 129° 12.5' E	Fl.G. period 5s	36 11		8 White round concrete tower; 33.	
16724 <i>M 4375.6</i>	Songjungri.	35° 10.2' N 129° 13.0' E	Q.(3)W. period 10s	49 15		8 E. CARDINAL BYB, tower, topmark; 49.	AIS (MMSI No 994401589).
16724.2	Kyosokchu.	35° 09.5' N 129° 12.2' E	Q.(3)W. period 5s	65 20		7 E. CARDINAL BYB, tower, topmark; 62.	
16724.21 <i>M 4375.53</i>	Chongsapo, W. breakwater.	35° 09.5' N 129° 11.5' E	Fl.G. period 5s	62 19		8 White round concrete tower; 56.	
16724.22 <i>M 4375.52</i>	-E. breakwater.	35° 09.6' N 129° 11.5' E	Fl.R. period 5s	62 19		8 Red round concrete tower; 56.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
PUSAN HANG:							
16724.3	-Suyeong Man.	35° 09.1' N 129° 10.3' E	Fl.(2)W. period 5s	92 28	7	R/YR round steel tower; 65.	
16724.4 M 4374.4	-Yacht Port, breakwater, E. head.	35° 09.4' N 129° 08.4' E	Fl.R. period 4s	33 10	6	Red conical fiberglass structure, concrete base; 23.	
16724.8 M 4374.7	--W. breakwater, head.	35° 09.5' N 129° 08.3' E	Fl.(2)G. period 6s	33 10	6	White conical fiberglass structure, concrete base; 23.	
16725.2 M 4374.5	-Center, breakwater, E. head.	35° 09.5' N 129° 08.4' E	Fl.G. period 4s	33 10	6	White conical fiberglass structure, concrete base; 23.	
16725.6 M 4374.6	--W. head.	35° 09.5' N 129° 08.3' E	Fl.(2)R. period 6s	33 10	6	Red conical fiberglass structure, concrete base; 23.	
16725.8 M 4374.8	--Suyong Man fishing harbor, E. breakwater.	35° 09.7' N 129° 08.1' E	Fl.R. period 6s	30 9	8	Red round fiberglass tower; 23.	
16725.9 M 4374.81	--W. breakwater.	35° 09.7' N 129° 08.1' E	Fl.G. period 6s	30 9	8	Green round fiberglass tower; 23.	
16726.4 M 4374.35	Dongbaekseom.	35° 09.0' N 129° 09.0' E	Q.(6)+L.Fl.W. period 10s	56 17	8	S. CARDINAL YB, beacon, topmark; 72.	
16726.5 M 4374.123	Gwangandaero Bridge.	35° 09.4' N 129° 08.2' E	Fl.(4)G. period 8s	62 19	5	Green square daymark.	Visible 218°-038°.
16726.6 M 4375.56	Haeundaemipo.	35° 09.4' N 129° 10.0' E	Fl.R. period 4s	59 18	8	Red steel bar; 75.	
16726.7 M 4375.57	Haeundaedongbaekseom.	35° 09.3' N 129° 09.4' E	Fl.G. period 4s	62 19	8	Green steel bar; 92.	
16727 M 4374.2	Millaktong, E. breakwater.	35° 09.2' N 129° 07.8' E	Fl.(2)R. period 6s	49 15	5	Red round concrete tower; 33.	
16727.1 M 4374.3	-W. breakwater.	35° 09.2' N 129° 07.9' E	Fl.(2)G. period 6s	49 15	5	White round concrete tower; 33.	
16727.4 M 4374.055	Suyeong Man, breakwater, head.	35° 08.1' N 129° 07.3' E	Fl.G. period 4s	33 10	8	White round steel pipe; 10.	
16727.5 M 4374.1	Kwangalli Meteorological Observation Station.	35° 08.1' N 129° 08.0' E	Fl.(4)Y. period 8s	33 10	7	Yellow round metal tower; 69.	
16727.6 M 4374.05	Yonghoman, wharf, N. corner.	35° 07.9' N 129° 07.1' E	Fl.(2)R. period 6s	16 5	7	Red metal pipe; 16.	
16727.7 M 4374.051	-E. corner.	35° 07.9' N 129° 07.1' E	Fl.(2)R. period 6s	16 5	7	Red metal pipe; 16.	
16727.8 M 4355.9	-Sangdo.	35° 02.2' N 129° 05.6' E	Fl.(2)W. period 5s	187 57	11	ISOLATED DANGER BRB, beacon, topmark; 79.	AIS (MMSI No 994401596).
16728 M 4356	-Yong Do.	35° 03.1' N 129° 05.5' E	Fl.(3)W. period 18s	285 87	24	White round metal tower; 112.	Visible 205°-045°. Horn: 1 bl. ev. 45s (bl. 5s, si. 40s). Radiobeacon. DGPS Station.
16732 M 4374	Oryuk To.	35° 05.5' N 129° 07.6' E	Fl.W. period 10s	174 53	22	White round concrete tower; 89.	Visible 203°-099°. AIS (MMSI No 994401578). Horn: 1 bl. ev. 40s (bl. 5s, si. 35s).
16732.8 M 4356.8	Inner breakwater, SE. head.	35° 05.5' N 129° 06.4' E	Fl.(3)G. period 7s	30 9	8	Green round concrete tower; 20.	
16732.9 M 4356.9	Outer breakwater, SW. head.	35° 05.5' N 129° 06.6' E	Fl.(3)R. period 7s	31 9	8	Red round concrete tower; 20.	
16733 M 4356.7	Oryukto Breakwater, NE. head.	35° 05.5' N 129° 06.8' E	Fl.Y. period 5s	59 18	8	Yellow round concrete tower; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16733.1 <i>M 4356.6</i>	-SW. head.	35° 05.1' N 129° 06.3' E	Iso.R. period 4s	66 20	10	Red round concrete tower; 49.	
16734 <i>M 4356.4</i>	Chodo Breakwater, E. head.	35° 04.8' N 129° 06.3' E	Iso.G. period 4s	66 20	12	White round concrete tower; 46.	AIS (MMSI No 994401577).
	RACON		K(- • -)		10		(3 & 10cm).
16735 <i>M 4356.5</i>	-W. head.	35° 04.7' N 129° 05.9' E	Fl.Y. period 5s	52 16	7	Yellow round concrete tower; 33.	
16736 <i>M 4356.2</i>	Busan Hang, N. outer harbor.	35° 04.3' N 129° 05.0' E	Fl.G. period 5s	46 14	9	White round concrete tower; 30.	
16738 <i>M 4356.55</i>	Haegyeong, wharf.	35° 05.1' N 129° 05.0' E	Fl.(2)G. period 8s	66 20	6	White round concrete tower; 59.	
16739 <i>M 4356.58</i>	Bukbin, wharf.	35° 05.4' N 129° 04.7' E	Fl.G. period 4s	36 11	7	White round metal tower; 33.	
16740.2 <i>M 4361</i>	-Inner harbor, S. breakwater, head.	35° 06.2' N 129° 03.8' E	Iso.Y. period 4s	59 18	11	Green round tower; 49.	Radar reflector.
16741 <i>M 4359.5</i>	-Busan Harbor Bridge.	35° 06.3' N 129° 03.9' E	Iso.W. period 4s	223 68	7		Iso.R. 66m 7M and Iso.G. 65m 7M mark width of navigable span. Iso.Y. 5m 7M mark bridge piers. AIS (MMSI No 994401576).
16748 <i>M 4360</i>	-Deungmudari.	35° 06.2' N 129° 03.5' E	Q.W.	43 13	12	N. CARDINAL BY, tower, topmark; 56.	
16748.5 <i>M 4359</i>	Gamman Wharf.	35° 06.7' N 129° 04.0' E	Fl.(2)R. period 6s	39 12	8	White round concrete tower; 33.	
16749 <i>M 4357.6</i>	Uam Viaduct, No 1.	35° 07.6' N 129° 04.0' E	Fl.(4)Y. period 8s	13 4	5	SPECIAL Y, beacon, "X" topmark; 36.	
16749.5 <i>M 4357.8</i>	-No 2.	35° 07.7' N 129° 04.0' E	Fl.(4)Y. period 8s	13 4	5	SPECIAL Y, beacon, "X" topmark; 36.	
16750 <i>M 4363</i>	Busan Shipyard, pier, N. head.	35° 06.1' N 129° 03.3' E	Fl.(4)Y. period 8s	19 6	8	Yellow four-sided metal tower; 16.	
16751 <i>M 4365</i>	Taehan Shipyard, pier, head.	35° 06.0' N 129° 02.9' E	Fl.(4)Y. period 8s	39 12	8	Yellow round metal tower; 33.	
16752 <i>M 4366</i>	Nam Hang, W. breakwater, head.	35° 05.2' N 129° 01.9' E	Fl.G. period 5s	72 22	9	White round concrete tower; 46.	
16756 <i>M 4368</i>	-E. breakwater, head.	35° 05.1' N 129° 02.0' E	Fl.R. period 5s	72 22	9	Red round concrete tower; 56.	AIS (MMSI No 994401592).
16756.5 <i>M 4369</i>	Namhang Bridge.	35° 04.7' N 129° 01.6' E	Fl.(3)W. period 7s	128 39	7	White circular daymark, red stripes. Secondary structure: Red triangular daymark point up. Tertiary structure: Green square daymark.	Fl.(3)Y. 7s 6M and Fl.Y. 4s 6M mark bridge and piers.
			Fl.(3)R. period 7s	128 39	7		36m E. of center light.
			Fl.(3)G. period 7s	128 39	7		31m W. of center light.
	RACON		C(- • - •)		3		(3 & 10cm).
16757 <i>M 4369.45</i>	South Harbour. Songdo.	35° 04.5' N 129° 01.5' E	Q.(3)W. period 10s	43 13	7	E. CARDINAL BYB, tower, topmark; 49.	
16759	-Fairway Buoy.	35° 01.7' N 129° 01.5' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	
	-RACON		N(- •)		3		(3 & 10cm).
16759.1 <i>M 4369.491</i>	Busang Hang, S.	35° 04.1' N 129° 01.3' E	Mo.(U)W. period 8s	56 17	9	White round steel tower; 5.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16759.2 <i>M 4369.461</i>	-N.	35° 04.4' N 129° 01.4' E	Mo.(U)W. period 8s	56 17	9	White round steel tower; 5.	
16759.3 <i>M 4369.5</i>	Chonjong-san, breakwater.	35° 04.3' N 129° 01.2' E	Fl.(2)G. period 6s	52 16	5	White beacon; 23.	
16759.4 <i>M 4369.55</i>	-Chonjong-san, wharf.	35° 04.3' N 129° 01.1' E	Fl.(2)R. period 6s	52 16	4	Red beacon; 23.	
16759.5 <i>M 4355.56</i>	Gamcheon, S.	35° 03.1' N 129° 00.1' E	Fl.Y. period 4s	59 18	7	Yellow round steel pipe; 7.	
16759.51 <i>M 4355.55</i>	-N.	35° 03.2' N 129° 00.1' E	Fl.Y. period 4s	59 18	7	Yellow round steel pipe; 7.	
16760 <i>M 4355.4</i>	Kamch'on Hang, E. breakwater.	35° 03.1' N 129° 00.5' E	Fl.(2)R. period 6s	105 32	8	Red round concrete tower; 98.	
16760.5 <i>M 4355.5</i>	-W. breakwater.	35° 02.9' N 129° 00.4' E	Fl.(2)G. period 6s	105 32	9	White round concrete tower; 98.	AIS (MMSI No 994401585).
	-RACON		Y(- • - -)		10		(3 & 10cm).
16763 <i>M 4354.92</i>	-Entrance Range, front.	35° 03.7' N 128° 59.6' E	F.G.	348 106	23	Four-sided steel tower; 331.	
16763.5 <i>M 4354.921</i>	--Rear, 746 meters 314°18' from front.	35° 04.0' N 128° 59.3' E	F.G.	535 163	23	Four-sided steel tower; 128.	
16764 <i>M 4355</i>	Tudo.	35° 02.9' N 129° 00.9' E	Fl.(3)W. period 7s	177 54	8	White round concrete tower; 26.	Visible 204°-163°.
16765 <i>M 4355.1</i>	-SW.	35° 02.8' N 129° 00.9' E	Fl.(2)R. period 6s	59 18	8	STARBOARD (B) R, beacon, topmark; 59.	
16768 <i>M 4354</i>	So Do.	35° 01.7' N 128° 58.4' E	Fl.W. period 6s	390 119	8	White hexagonal concrete tower; 118.	AIS (MMSI No 994401586).
	RACON		M(- -)		10		(3 & 10cm).
16768.1 <i>M 4355.7</i>	Gamcheon Hang, outer breakwater, E. head.	35° 02.7' N 129° 00.6' E	Fl.(2)G. period 6s	79 24	10	White four-sided concrete tower; 59.	
16768.2 <i>M 4355.6</i>	--W. Head.	35° 02.7' N 129° 00.4' E	Fl.(2)Y. period 6s	79 24	10	Yellow four-sided concrete tower; 43.	
16768.3 <i>M 4354.951</i>	-Training Wall, S.	35° 03.1' N 129° 00.9' E	Fl.(4)Y. period 8s	43 13	8	Yellow round metal tower; 39.	
16768.4 <i>M 4354.95</i>	--N.	35° 03.1' N 129° 00.9' E	Fl.(4)Y. period 8s	43 13	8	Yellow round metal tower; 39.	
16768.5 <i>M 4354.6</i>	Songdo.	35° 02.6' N 128° 59.5' E	Fl.R. period 4s	66 20	5	Red round concrete tower, triangular daymark point up; 49.	
16769 <i>M 4354.7</i>	-Jadam Mal.	35° 02.6' N 129° 00.0' E	Q.(6)+L.Fl.W. period 15s	63 19	8	S. CARDINAL YB, tower, topmark; 46.	
16770 <i>M 4354.5</i>	Kyungdo.	35° 02.2' N 128° 58.9' E	Fl.W. period 5s	135 41	11	White octagonal concrete tower; 33.	
16771 <i>M 4354.8</i>	Tadaepo.	35° 03.2' N 128° 59.0' E	Fl.G. period 10s	36 11	6	White round concrete tower; 30.	
16771.5 <i>M 4354.9</i>	-Fishing harbor.	35° 03.4' N 128° 58.8' E	Fl.(3)R. period 8s	36 11	9	Red round concrete tower; 33.	
16771.6 <i>M 4354.53</i>	Dadeapo Hang, detached breakwater, E. head.	35° 02.5' N 128° 59.4' E	Fl.G. period 4s	59 18	9	White round concrete tower; 34.	
16771.7 <i>M 4354.54</i>	--W. head.	35° 02.6' N 128° 59.0' E	Fl.Y. period 4s	56 17	9	Yellow round concrete tower; 35.	
16771.8 <i>M 4354.55</i>	-Outer breakwater, head.	35° 02.8' N 128° 59.3' E	Fl.R. period 4s	59 18	8	Red concrete tower; 40.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16772 M 4353.5	Mokto.	34° 58.8' N 128° 59.4' E	Fl.(2)W. period 6s	226 69	11	White round concrete tower; 30.	AIS (MMSI No 994401587).
	RACON		B(- • • •)		10		(3 & 10cm).
16772.1 M 4353.2	Namuseom.	34° 58.8' N 128° 59.8' E	Q.(3)W. period 10s	49 15	8	E. CARDINAL BYB, beacon, topmark.	
16773 M 4353.965	Nagdong Gang, breakwater, head.	35° 05.8' N 128° 55.7' E	Fl.G. period 5s	26 8	8	White round concrete tower; 36.	
16774.1 M 4351.26	Busan New Port Range , front.	35° 05.0' N 128° 49.7' E	F.G.	341 104	24	Square metal tower; 331.	
16774.11 M 4351.261	-Rear, 593 meters 061°06' from front.	35° 05.1' N 128° 50.0' E	F.G.	479 146	24	Square metal tower; 331.	
16774.5	Naktongpo Bridge Navigation channel, center.	35° 06.4' N 128° 55.8' E	Fl.W. period 4s	23 7	7	White round daymark, red stripes.	
16775 M 4353	Pukyoungjedo.	34° 56.0' N 128° 58.4' E	Fl.W. period 4s	171 52	11	White round concrete tower; 69.	AIS (MMSI No 994401595).
	RACON		C(- • - •)		10		(3 & 10cm).
16775.5 M 4353.7	Namhyongjedo.	34° 53.1' N 128° 57.0' E	Fl.(2)W. period 5s	98 30	12	ISOLATED DANGER BRB, tower, topmark; 79.	AIS (MMSI No 994401594).
16775.7 M 4352.5	Taehang-ni, E.	35° 00.9' N 128° 50.1' E	Fl.G. period 5s	36 11	8	White octagonal tower; 30.	
16776 M 4352	Tongdu-mal.	34° 59.4' N 128° 49.7' E	Fl.W. period 12s	341 104	21	White octagonal concrete tower; 131.	Visible 223°-137°. AIS (MMSI No 994401588). Siren: 1 bl. ev. 55s (bl. 5s, si. 50s).
16778 M 4351.8	Daejug Do.	35° 00.5' N 128° 46.9' E	Fl.W. period 6s	66 20	7	White round concrete tower; 46.	AIS (MMSI No 994401590).
	RACON		O(- - -)		10		(3 & 10cm).
16779 M 4352.3	Taehang-ni.	35° 00.7' N 128° 49.5' E	Fl.G. period 5s	49 15	7	White round concrete tower; 33.	
16779.1 M 4352.31	-N. Head.	35° 00.8' N 128° 49.5' E	Fl.R. period 5s	52 16	7	Red round concrete tower; 39.	
16779.5 M 4350.8	Geoga Bridge.	35° 00.9' N 128° 45.2' E	Iso.W. period 4s	125 38	7	White circular daymark, red stripes.	Iso.R. 4s 38m 8M and Iso.G. 4s 38m 7M mark width of navigable span.
16779.7 M 4350.5	Jeo Do Bridge, N. span.	35° 01.1' N 128° 43.6' E	Iso.W. period 6s	125 38	7	White circular daymark, red stripes.	Iso.R. 6s 38m 7M and Iso.G. 6s 38m 7M mark width of navigable span. Visible 089°-269°.
16779.71 M 4350.6	-S. span.	35° 01.0' N 128° 43.7' E	Iso.W. period 6s	125 38	7	White circular daymark, red stripes.	Iso.R. 6s 38m 7M and Iso.G. 6s 38m 7M mark width of navigable span. Visible 269°-089°.
	-RACON		G(- - •)		10		(3 & 10cm).
16780 M 4351	Saegeun Seo.	35° 01.9' N 128° 43.9' E	Fl.(2)W. period 5s	38 12	8	ISOLATED DANGER BRB, tower, topmark; 39.	
16780.4 M 4350.1	Uho Hang, E. breakwater.	35° 01.7' N 128° 43.0' E	Fl.G. period 4s	30 9	5	White round steel tower; 15.	
16780.5 M 4350.2	-N. breakwater.	35° 01.7' N 128° 42.9' E	Fl.R. period 4s	26 8	5	Red round steel tower; 16.	
16780.9 M 4353.87	Dongseon Hang.	35° 03.3' N 128° 50.9' E	Fl.G. period 6s	31 9	7	White eight-sided tower; 26.	
16781 M 4351.2	Chang-mal, breakwater, W. head.	35° 04.7' N 128° 46.9' E	Fl.R. period 6s	36 11	8	Red round concrete tower; 43.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16781.5 <i>M 4351.15</i>	Angolpo.	35° 05.6' N 128° 47.4' E	Fl.R. period 5s	46 14	8	Red octagonal concrete tower; 36.	
16782 <i>M 4351.4</i>	Kojin-mal, breakwater, W. head.	35° 02.9' N 128° 47.2' E	Fl.R. period 4s	128 39	11	Red square concrete tower; 89.	
16782.1 <i>M 4351.5</i>	--E. head.	35° 02.9' N 128° 47.6' E	Fl.Y. period 6s	75 23	10	Yellow octagonal concrete tower; 69.	
16783 <i>M 4351.3</i>	Yondo, breakwater.	35° 03.5' N 128° 46.7' E	Fl.G. period 4s	112 34	12	White square concrete tower; 62.	
16784	<i>Kadok Sudo Center Buoy No C.</i>	35° 01.4' N 128° 47.3' E	Mo.(A)W. period 8s			SAFE WATER RW, pillar, topmark.	
	RACON		Q(- - •)		10		(3 & 10cm).
16788	-No 2.	35° 02.5' N 128° 40.5' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	
	-RACON		K(- • -) period 60s		3		(3cm).
16789 <i>M 4351.1</i>	Busan New Port , front.	35° 04.7' N 128° 46.1' E	F.G.	348 106	39	White four-sided steel tower; 328.	
16789.1 <i>M 4351.11</i>	-Rear, 2225 meters 338°36' from front.	35° 05.8' N 128° 45.6' E	F.G.	640 195	39	White four-sided steel tower; 138.	
16792 <i>M 4345</i>	Toggi Seom.	35° 04.6' N 128° 42.9' E	Fl.W. period 4s	226 69	8	White round concrete tower; 49.	
16793 <i>M 4345.35</i>	Jedeongman.	35° 05.5' N 128° 44.0' E	Q.(6)+L.Fl.W. period 15s	59 18	9	S. CARDINAL YB, beacon, topmark; 62.	
16794 <i>M 4345.5</i>	Udobodo Bridge.	35° 05.4' N 128° 43.2' E	Iso.W. period 4s	23 7	7	Center light.	Iso.R. 4s 7m 7M and Iso.G. 4s 7m 7M mark width of navigable span. Iso.Y. 4s 3m 6M mark bridge pillings.
16796 <i>M 4344</i>	Ch'ori Do.	35° 04.6' N 128° 41.3' E	Fl.W. period 6s	164 50	8	White round concrete tower; 39.	
16800 <i>M 4347</i>	Madang So.	35° 06.4' N 128° 40.8' E	Fl.(2)W. period 5s	46 14	8	ISOLATED DANGER BRB, beacon, topmark; 43.	Storm signal.
16802 <i>M 4347.5</i>	Chungjuk To.	35° 08.1' N 128° 40.9' E	Fl.(2)W. period 5s	46 14	8	ISOLATED DANGER BRB, tower, topmark; 46.	
16803 <i>M 4347.7</i>	Jinhae-hang, breakwater.	35° 08.5' N 128° 40.5' E	Fl.G. period 4s	43 13	5	White round concrete tower; 33.	
16804 <i>M 4346</i>	Dotumari Am.	35° 05.8' N 128° 40.7' E	Fl.(2)W. period 5s	46 14	12	ISOLATED DANGER BRB, beacon, topmark; 46.	
16805 <i>M 4345.3</i>	Umji-do.	35° 05.4' N 128° 43.0' E	Fl.(2)W. period 5s	36 11	8	ISOLATED DANGER BRB, beacon, topmark; 43.	
16806 <i>M 4345.38</i>	Myeongdong Marina.	35° 05.3' N 128° 43.7' E	Fl.(2)G. period 6s	66 20	8	White round concrete tower; 49.	
16808 <i>M 4343</i>	Dochinyeo.	35° 04.5' N 128° 40.3' E	Fl.(2)W. period 5s	33 10	8	ISOLATED DANGER BRB, tower, topmark; 39.	
	RACON		C(- • - •)		10		(3 & 10cm).
16810	-Bridge.	35° 12.8' N 128° 37.1' E	F.W.	36 11	5	White round daymark, red stripes.	Marks center of navigable span.
MASAN HANG:							
16811	-E. breakwater, E. head.	35° 12.2' N 128° 35.1' E	Fl.G. period 4s	26 8	8	White round fiberglass tower; 20.	
16812	--W. head.	35° 12.2' N 128° 35.0' E	Fl.R. period 4s	26 8	8	Red round fiberglass tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16813 <i>M 4349.2</i>	-Detached breakwater, E. head.	35° 12.1' N 128° 34.9' E	Fl.G. period 6s	36 11	8	White round concrete tower; 33.	
16814 <i>M 4349.3</i>	--W. head.	35° 12.0' N 128° 34.8' E	Fl.R. period 6s	36 11	8	Red round concrete tower; 33.	
16815 <i>M 4348.8</i>	--W. detached breakwater, E. head.	35° 12.0' N 128° 34.7' E	Fl.G. period 4s	28 9	8	White round fiberglass tower; 23.	
16815.5 <i>M 4348.9</i>	---W. head.	35° 12.0' N 128° 34.6' E	Fl.R. period 4s	30 9	8	White round fiberglass tower; 23.	
16815.9 <i>M 4348.7</i>	Masan Hang.	35° 11.9' N 128° 34.6' E	Fl.G. period 4s	39 12	8	White round tower; 33.	
16816 <i>M 4348</i>	Makkae Do.	35° 08.3' N 128° 36.0' E	Fl.W. period 6s	82 25	15	White round concrete tower; 33.	
16817	Breakwater, head.	35° 08.0' N 128° 37.7' E	Fl.G.	7 2		White concrete cone; 10.	
16817.1 <i>M 4342.54</i>	Paengnaegi-san, E. breakwater, N. head.	35° 04.2' N 128° 38.2' E	Fl.G. period 5s	16 5	6	White round steel tower; 13.	
16817.2 <i>M 4342.53</i>	--S. head.	35° 04.1' N 128° 38.3' E	Fl.R. period 5s	16 5	6	Red round steel tower; 13.	
16817.3 <i>M 4342.5</i>	-W. breakwater, head.	35° 04.0' N 128° 37.8' E	Fl.G. period 4s	46 14	6	White round concrete tower; 30.	
16817.4 <i>M 4342.51</i>	-S. breakwater, E. head.	35° 04.0' N 128° 37.9' E	Fl.G. period 4s	46 14	6	White round concrete tower; 30.	
16817.5 <i>M 4342.52</i>	--W. head.	35° 03.9' N 128° 37.8' E	Fl.R. period 4s	46 14	5	Red round concrete tower; 30.	
16818 <i>M 4342.4</i>	Paegam (Baeg Am).	35° 02.5' N 128° 37.7' E	Fl.G. period 5s	46 14	5	Green hexagonal concrete tower; 43.	
	RACON		B (- • • •)		10		(3 & 10cm).
16819 <i>M 4342</i>	Hugam.	35° 02.4' N 128° 36.6' E	Fl.(2)W. period 5s	39 12	8	ISOLATED DANGER BRB, tower, topmark; 43.	
16820.5	Bokjingaeyeo.	35° 03.8' N 128° 33.9' E	Fl.G. period 4s	23 7	5	STARBOARD (A) G, tower, topmark; 26.	
16820.9 <i>M 4340.978</i>	Jindong Hang, E. breakwater.	35° 05.9' N 128° 28.8' E	Fl.R. period 6s	33 10	6	Red round concrete tower; 26.	
16820.93 <i>M 4340.979</i>	-W. breakwater.	35° 05.9' N 128° 28.8' E	Fl.G. period 4s	33 10	5	White round concrete tower; 26.	
16821 <i>M 4340.98</i>	Kwangam Hang, breakwater.	35° 06.1' N 128° 29.7' E	Fl.R. period 4s	39 12	5	Red round concrete tower; 23.	
16821.03 <i>M 4340.983</i>	-Pier.	35° 06.2' N 128° 29.7' E	Fl.G. period 4s	23 7	5	White round metal tower; 16.	
16821.1 <i>M 4340.99</i>	Changgun-san Bridge.	35° 04.5' N 128° 28.0' E	Iso.W. period 4s	95 29	7	White circular daymark, red stripes.	Iso.R. 4s 29m 7M and Iso.G. 4s 29m 7M mark width of navigable span. Iso.Y. 4s 24m 6M marks bridge pilings.
16821.2 <i>M 4340.984</i>	Suu-do.	35° 05.3' N 128° 30.6' E	Fl.(2)W. period 5s	36 11	8	ISOLATED DANGER BRB, tower, topmark; 52.	
16821.5 <i>M 4340.974</i>	Dangdong Hang.	34° 59.3' N 128° 24.6' E	Fl.R. period 4s	36 11	5	Red round concrete tower; 26.	
16822 <i>M 4342.7</i>	Sobombuk To.	35° 00.1' N 128° 39.7' E	Q.W.	43 13	8	N. CARDINAL BY, beacon, topmark; 46.	
16823 <i>M 4340.85</i>	Chilcheon Bridge.	35° 04.5' N 128° 28.0' E	Iso.W. period 4s	62 19	7	White round daymark, red stripes.	Iso.R. 4s 19m 4M and Iso.G. 4s 19m 4M mark width of navigable span. Iso.Y. 4s 14m 6M mark bridge pilings.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16824 <i>M 4340.8</i>	Mae Am.	34° 58.3' N 128° 38.9' E	Fl.G. period 4s	31 9	5	PORT (B) G, beacon, topmark; 33.	
16826	Buoy 1.	35° 00.3' N 128° 34.8' E	Fl.G. period 4s			PORT (B) G, pillar, topmark.	
	RACON		M(- -)		3		(3 & 10cm).
16828 <i>M 4341</i>	Hwangdok To.	35° 00.7' N 128° 37.2' E	Fl.W. period 6s	299 91	15	White round concrete tower; 52.	
16829 <i>M 4351.9</i>	Kyok-to.	34° 58.8' N 128° 42.6' E	Q.(3)W. period 10s	56 17	8	E. CARDINAL BYB, beacon, topmark; 52.	
16830 <i>M 4340.9</i>	Samsong, seaberth.	34° 54.9' N 128° 35.7' E	Fl.(4)Y. period 8s	23 7	7	Yellow round fiberglass tower; 13.	
16830.1 <i>M 4340.92</i>	Gohyeon Hang.	34° 54.9' N 128° 35.9' E	Fl.(4)Y. period 8s	26 8	7	Yellow round fiberglass structure; 15.	
16831 <i>M 4351.98</i>	Huinyeo.	34° 58.6' N 128° 45.0' E	Fl.(2)W. period 5s	59 18	8	ISOLATED DANGER BRB, beacon, topmark; 49.	
16832 <i>M 4341.4</i>	Yech'im Do.	34° 56.8' N 128° 35.0' E	Fl.W. period 6s	138 42	8	White round concrete tower; 36.	
16836 <i>M 4340.7</i>	Ogapo Hang, N. harbor.	34° 56.3' N 128° 43.2' E	Fl.G. period 4s	33 10	6	White hexagonal concrete structure; 23.	
16838 <i>M 4340.75</i>	-E. breakwater.	34° 56.2' N 128° 43.3' E	Fl.R. period 6s	46 14	5	Red octagonal concrete tower; 26.	
16840 <i>M 4340.5</i>	Okp'o Hang, S. breakwater, head.	34° 53.7' N 128° 43.2' E	Fl.G. period 7s	49 15	18	White round concrete tower; 43.	
16844 <i>M 4340.6</i>	-N. breakwater, head.	34° 53.8' N 128° 43.0' E	Fl.R. period 7s	49 15	20	Red round concrete tower; 36.	
16846 <i>M 4340.4</i>	Nungpo Hang, E. breakwater, head.	34° 53.3' N 128° 44.3' E	Fl.G. period 6s	42 13	5	White round concrete tower; 33.	
16847 <i>M 4340.45</i>	-W. breakwater, head.	34° 53.3' N 128° 44.2' E	Fl.R. period 6s	42 13	5	Red round concrete tower; 33.	
16848 <i>M 4340.3</i>	Yangjiam Chwi.	34° 53.7' N 128° 45.1' E	Fl.W. period 6s	197 60	19	White hexagonal concrete tower; 59.	
CHANGSUNGPO MAN:							
16852 <i>M 4338</i>	-E. breakwater, head.	34° 51.8' N 128° 43.7' E	Fl.R. period 5s	36 11	5	Red round concrete tower; 26.	
16856 <i>M 4340</i>	-W. breakwater, head.	34° 51.8' N 128° 43.7' E	Fl.G. period 5s	39 12	5	White round concrete tower; 20.	
16857 <i>M 4337.3</i>	Chisepo Hang, detatched breakwater, E. head.	34° 49.9' N 128° 42.6' E	Fl.R. period 5s	39 12	5	Red octagonal concrete tower; 29.	
16857.5 <i>M 4337.4</i>	-W. head.	34° 50.1' N 128° 42.3' E	Fl.G. period 5s	39 12	5	White octagonal concrete tower; 29.	
16858 <i>M 4337.2</i>	Jisepo Hang, breakwater.	34° 50.4' N 128° 43.3' E	Fl.G. period 4s	39 12	5	White round concrete tower; 23.	
16860 <i>M 4336</i>	Soi Mal.	34° 47.3' N 128° 44.3' E	Fl.W. period 20s	394 120	27	White round tower; 33.	Visible 207°-038°. Siren: 2 bl. ev. 60s. (bl. 0.4s, si. 5s, bl. 0.4s, si. 47s).
16861 <i>M 4335.4</i>	Tadaetap'o Hang, E. breakwater, head.	34° 43.8' N 128° 37.7' E	Fl.R. period 5s	42 13	5		
16861.5 <i>M 4335.6</i>	-W. breakwater, head.	34° 43.8' N 128° 37.8' E	Fl.G. period 5s	46 14	5		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16862 M 4335	Bugyeo Do.	34° 41.0' N 128° 46.5' E	Fl.(2)W. period 5s	79 24	8	ISOLATED DANGER BRB, tower, topmark; 75.	
	RACON		B(-•••) period 60s		10		(3m).
16864 M 4334	Hong Do.	34° 32.2' N 128° 44.0' E	Fl.W. period 10s	384 117	25	White round concrete tower; 25.	
	RACON		Y(-•- -) period 60s		10		(3cm).
16868 M 4322.7	Chwasari Do.	34° 33.4' N 128° 20.5' E	Fl.W. period 4s	187 57	8	White octagonal concrete tower; 43.	
16872 M 4332	Somaemul To.	34° 37.2' N 128° 32.9' E	Fl.W. period 13s	298 91	26	White round concrete tower; 43.	Visible 235°-285°, 295°-305°, 320°-170°. Siren: 1 bl. ev. 50s (bl. 5s, si. 45s).
16873 M 4334.2	Maemuldo Hang, N. breakwater.	34° 39.0' N 128° 34.4' E	Fl.R. period 5s	46 14	5	Red round concrete tower; 26.	
16873.1 M 4334.21	-E. breakwater.	34° 38.9' N 128° 34.5' E	Fl.G. period 5s	33 10	6	White round tower; 26.	
16874 M 4333	Goam Island.	34° 29.8' N 128° 28.5' E	Fl.W. period 6s	98 30	8	White round concrete tower; 23.	
	RACON		M(- -)		10		(3 & 10cm).
16875 M 4332.5	Sojido.	34° 38.5' N 128° 28.3' E	Fl.W. period 6s	141 43	8	White round concrete tower; 23.	
16875.5 M 4331.75	Taebyongdaedo.	34° 40.9' N 128° 37.6' E	Fl.G. period 5s	85 26	5	PORT (B) G, tower, topmark; 75.	Visible 225°-089°. Horn: 1 bl. ev. 60s (bl. 7s, si. 53s).
16876 M 4331.7	Sokmun-do.	34° 41.6' N 128° 36.0' E	Fl.W. period 5s	56 17	8	White round concrete tower; 25.	
16876.5 M 4331.85	Kaodo.	34° 40.9' N 128° 34.8' E	Fl.W. period 6s	56 17	8	White round concrete tower; 36.	
16876.7	Oyudo.	34° 39.5' N 128° 34.4' E	Fl.W. period 6s	49 15	8	White round concrete tower; 39.	
16876.9 M 4331.55	Daepo Hang, breakwater.	34° 43.0' N 128° 35.1' E	Fl.R. period 4s	36 11	5	Red round concrete tower; 27.	
16877 M 4331.6	Mangsangak.	34° 42.2' N 128° 34.6' E	Fl.W. period 5s	49 15	8	White round concrete tower; 25.	
16879 M 4330.2	Kajo-do, breakwater.	34° 57.5' N 128° 30.0' E	Fl.W. period 5s	26 8	8	White round metal tower; 15.	
16879.3 M 4330.3	Dolkkeuchyeo.	34° 57.6' N 128° 30.0' E	Fl.(2)W. period 10s	33 10	8	ISOLATED DANGER BRB, tower, topmark; 33.	
16879.5 M 4330.15	Gajo Do Bridge.	34° 55.6' N 128° 31.6' E	F.W.	89 27	7	White round daymark, red stripes.	F.R. 26m 8M and F.G. 26m 7M mark width of navigable span. F.Y. 26m 7M mark bridge pilings.
16880 M 4330	Songp'o Hang, E. breakwater.	34° 55.4' N 128° 31.5' E	Fl.G. period 6s	33 10	5	White round concrete tower; 27.	
16880.5 M 4330.1	-W. breakwater.	34° 55.3' N 128° 31.4' E	Fl.R. period 6s	33 10	5	Red round concrete tower; 26.	
16881 M 4329.5	Norusom.	34° 55.3' N 128° 31.2' E	Fl.G. period 5s	30 9	5	PORT (B) G, beacon, topmark; 43.	
16882 M 4325.1	Iun Hang, breakwater.	34° 48.1' N 128° 26.1' E	Fl.G. period 4s	39 12	5	White round concrete tower; 26.	
16884 M 4322.9	Pu-do.	34° 46.2' N 128° 22.0' E	Fl.W. period 5s	151 46	8	White round concrete tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16886 <i>M 4322.85</i>	Ch'u Do.	34° 45.3' N 128° 18.3' E	Fl.W. period 6s	463 141	8	White round concrete tower; 39.	
16886.5 <i>M 4322.82</i>	Hangnim Hang, breakwater.	34° 45.0' N 128° 24.5' E	Fl.G. period 4s	39 12	5	White round concrete tower; 26.	
16886.7 <i>M 4331.15</i>	Hapo Hang, breakwater.	34° 45.6' N 128° 28.7' E	Fl.G. period 4s	39 12	5	White round concrete tower; 26.	
16887 <i>M 4322.87</i>	Tongyeong, breakwater No A.	34° 45.9' N 128° 23.2' E	Fl.G. period 4s	16 5	6	White round metal tower; 13.	
16887.1 <i>M 4322.875</i>	-No B.	34° 45.9' N 128° 23.1' E	Fl.R. period 4s	20 6	5	Red round metal tower; 13.	
16887.5 <i>M 4331.515</i>	Naehang Hang, breakwater.	34° 44.0' N 128° 27.6' E	Fl.R. period 4s	39 12	5	Red round concrete tower; 26.	
16888 <i>M 4322.8</i>	Jeo Do, on islet close W. of Jo Do.	34° 44.9' N 128° 23.5' E	Fl.(2)W. period 5s	36 11	8	ISOLATED DANGER BRB, tower, topmark; 52.	
16892 <i>M 4324</i>	Jo Do, N. end of island.	34° 45.3' N 128° 25.5' E	Fl.W. period 4s	180 55	8	White round concrete tower; 52.	Visible 066°-331°.
16893 <i>M 4322.75</i>	Ogokdo.	34° 43.2' N 128° 25.6' E	Fl.W. period 6s	200 61	8	White hexagonal concrete tower; 37.	
16894 <i>M 4322.72</i>	P'yongso.	34° 41.6' N 128° 24.1' E	Fl.G. period 4s	59 18	5	PORT (B) G, tower, topmark; 46.	
16896 <i>M 4331.5</i>	Kaksu-so.	34° 45.0' N 128° 27.6' E	Fl.(2)W. period 5s	49 15	8	ISOLATED DANGER BRB, tower, topmark; 43.	
	RACON		C(- • - •)		10		(3 & 10cm).
16898 <i>M 4330.7</i>	Pongam Do.	34° 45.0' N 128° 33.6' E	Fl.W. period 6s	72 22	8	White round concrete tower; 43.	
16899 <i>M 4330.8</i>	Pisando.	34° 48.8' N 128° 29.4' E	Fl.G. period 6s	33 10	5	Green round concrete tower; 36.	
16900 <i>M 4331</i>	Cheolcho, on islet close W. of Pongram Do.	34° 45.5' N 128° 30.3' E	Fl.R. period 4s	36 11	6	Red round concrete tower; 33.	
16902 <i>M 4331.25</i>	Changjakji Hang, breakwater.	34° 46.3' N 128° 28.3' E	Fl.R. period 4s	39 12	5	Red round concrete tower; 26.	
16908 <i>M 4325</i>	Hansan Hang.	34° 48.1' N 128° 28.2' E	Fl.W. period 4s	42 13	8	White round concrete tower, round concrete base; 39.	
16911 <i>M 4325.4</i>	Taech'o.	34° 49.6' N 128° 27.7' E	Fl.R. period 5s	33 10	5	STARBOARD (B) R, tower, topmark; 36.	
16912 <i>M 4326</i>	Panghwa Do.	34° 50.2' N 128° 27.4' E	Fl.W. period 4s	112 34	8	White round concrete tower; 49.	
16914 <i>M 4325.7</i>	Tonam Hang, breakwater, E. head.	34° 49.8' N 128° 26.2' E	Fl.R. period 4s	40 12	5	White octagonal concrete tower; 28.	
16915 <i>M 4325.8</i>	-W. head.	34° 49.8' N 128° 26.1' E	Fl.(2)G. period 6s	40 12	5	White octagonal concrete tower; 28.	
16915.5 <i>M 4325.55</i>	--Breakwater, W. head.	34° 49.8' N 128° 26.1' E	Iso.Y. period 4s	36 11	7	Red octagonal concrete tower; 26.	
16915.7 <i>M 4325.5</i>	---E. head.	34° 49.8' N 128° 26.2' E	Fl.G. period 4s	62 19	11	White concrete tower; 56.	
16916 <i>M 4326.5</i>	Tongyeong Hang, Changso.	34° 50.3' N 128° 26.1' E	Q.(6)+L.Fl.W. period 15s	39 12	8	S. CARDINAL YB, beacon, topmark; 43.	
16918 <i>M 4325.9</i>	-N. breakwater.	34° 50.5' N 128° 26.5' E	Fl.R. period 4s	42 13	5	Red round concrete tower; 34.	
16918.5 <i>M 4325.85</i>	-S. breakwater.	34° 50.4' N 128° 26.5' E	Fl.G. period 4s	42 13	5	White round concrete tower; 34.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16919 <i>M 4326.55</i>	Dongho-dong, breakwater, head.	34° 50.2' N 128° 25.8' E	Fl.R. period 5s	39 12	8	Red round concrete tower; 23.	
16920 <i>M 4323.6</i>	Tongyeong Hang, No 7.	34° 50.2' N 128° 25.0' E	Fl.G. period 5s	31 9	8	PORT (B) G, tower, topmark; 52.	
16924 <i>M 4323.8</i>	-No 8.	34° 50.2' N 128° 25.0' E	Fl.R. period 5s	26 8	8	STARBOARD (B) R, tower, topmark; 46.	
16928 <i>M 4327</i>	Saso.	34° 51.1' N 128° 27.7' E	Fl.W. period 6s	56 17	8	White octagonal concrete tower; 33.	
16928.5 <i>M 4326.6</i>	Daeseokseo.	34° 50.9' N 128° 27.3' E	Q.(3)W. period 10s	33 10	8	E. CARDINAL BYB, beacon, topmark; 30.	
16929 <i>M 4326.3</i>	-Ch'ungmu Hang Approach.	34° 50.7' N 128° 27.2' E	Fl.G. period 5s	46 14	5	Green round concrete tower; 33.	
16929.9 <i>M 4340.973</i>	Yepo Hang, breakwater.	34° 56.4' N 128° 25.6' E	Fl.G. period 4s	36 11	5	White round concrete tower; 26.	
16930 <i>M 4340.97</i>	Kojedo.	34° 56.3' N 128° 26.4' E	Fl.(2)W. period 5s	33 10	8	ISOLATED DANGER BRB, tower, topmark; 33.	
16931 <i>M 4340.975</i>	Anjeong Hang, breakwater.	34° 57.0' N 128° 26.0' E	Fl.R. period 6s	49 15	7	Red round concrete tower; 36.	
16931.1 <i>M 4340.977</i>	-Dolphin.	34° 57.0' N 128° 26.4' E	Fl.(4)Y. period 8s	40 12	7	Yellow round fiberglass tower; 13.	Horn: 1 bl. ev. 20s (bl. 5s, si. 15s).
16932 <i>M 4329</i>	Myeongdeungdo.	34° 53.9' N 128° 28.9' E	Fl.(2)W. period 6s fl. 1s, ec. 5s	82 25	8	White round concrete tower; 43.	Visible 016°-302°.
16933 <i>M 4329.2</i>	Gamuyeo.	34° 54.1' N 128° 28.0' E	Q.(6)+L.Fl.W. period 15s	31 9	8	S. CARDINAL YB, beacon, topmark; 36.	
16936 <i>M 4328</i>	Kyonnaeryang Haehyop (Hyonnaeryang Haehyop).	34° 53.0' N 128° 28.5' E	Fl.G. period 4s	39 12	6	PORT (B) G, tower, topmark; 43.	
16940	Tongyong bridge.	34° 49.9' N 126° 24.4' E	Iso.W. period 4s	66 20	7		
16942 <i>M 4323.1</i>	Shrirammal.	34° 49.8' N 128° 23.1' E	Fl.W. period 6s	56 17	8	White square concrete tower; 36.	
16952 <i>M 4323</i>	Pil To.	34° 51.2' N 128° 20.5' E	Fl.W. period 4s	43 13	8	White round concrete tower; 30.	
16953 <i>M 4323.055</i>	Tongyeong, breakwater.	34° 51.4' N 128° 23.0' E	Fl.R. period 6s	46 14	5	Red round concrete tower; 33.	
16953.5	Kyobon-cho.	34° 42.3' N 128° 18.4' E	Fl.(2)W. period 5s	46 14	10	ISOLATED DANGER BRB, beacon, topmark; 46.	
	RACON		K(- • -)		10		(3 & 10cm).
16954 <i>M 4322.5</i>	Bong Do.	34° 39.9' N 128° 18.3' E	Fl.W. period 6s	351 107	8	White round concrete tower; 36.	
16956 <i>M 4322.6</i>	Yogji Do, W. breakwater.	34° 38.0' N 128° 16.5' E	Fl.R. period 4s	46 14	5	Red octagonal concrete tower; 27.	
16956.3 <i>M 4322.62</i>	-E. breakwater.	34° 37.9' N 128° 16.5' E	Fl.G. period 4s	36 11	5	White octagonal concrete tower; 27.	
16956.5 <i>M 4322.65</i>	-S. breakwater.	34° 37.9' N 128° 16.4' E	Fl.(2)Y. period 6s	33 10	7	White octagonal concrete tower; 26.	
16958 <i>M 4322.55</i>	Napjakyeo.	34° 39.3' N 128° 20.5' E	Fl.(2)W. period 5s	43 13	8	Black beacon, red band; 46.	
16960 <i>M 4322.4</i>	Yokjido , SW point.	34° 36.9' N 128° 14.5' E	Fl.W. period 6s	636 194	19	White round concrete tower; 43.	Visible 269°-146°.
16961 <i>M 4322.42</i>	Heukcho.	34° 36.4' N 128° 15.6' E	Fl.(2)W. period 5s	46 14	8	Black round concrete tower, red band; 46.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16962 <i>M 4321.55</i>	Hadaeho Do.	34° 52.6' N 128° 14.6' E	Fl.W. period 6s	154 47	8	White round concrete tower; 39.	
16963 <i>M 4321.8</i>	Maekjomp'o Hang, W. breakwater.	34° 53.8' N 128° 10.0' E	Fl.G. period 6s	33 10	5	White round concrete tower; 23.	
16963.5 <i>M 4321.83</i>	-Inner breakwater, head.	34° 54.0' N 128° 10.0' E	Fl.R. period 6s	36 11	5	Red square metal framework tower, triangular daymark point up; 26.	
16964 <i>M 4321</i>	Yulpo Mal.	34° 53.3' N 128° 08.0' E	Fl.W. period 6s	105 32	20	White round concrete tower; 16.	Visible 270°-132°.
16965 <i>M 4321.08</i>	Shinsu Hana, N. breakwater.	34° 54.2' N 128° 04.2' E	Fl.G. period 4s	36 11	5	White round concrete tower; 33.	
16966 <i>M 4321.12</i>	-S. breakwater.	34° 54.2' N 128° 04.3' E	Fl.R. period 4s	36 11	5	Red round concrete tower; 33.	
16968 <i>M 4320.45</i>	Chu Do.	34° 54.5' N 128° 05.1' E	Q.(3)W. period 10s	39 12	8	E. CARDINAL BYB, beacon, topmark; 29.	
16972 <i>M 4317</i>	Jeo Do.	34° 56.6' N 128° 01.8' E	Fl.W. period 6s	59 18	8	White round concrete structure; 33.	
16974 <i>M 4317.5</i>	Changso.	34° 56.1' N 128° 02.5' E	Fl.G. period 6s	43 13	5	PORT (B) G, beacon, topmark; 56.	
16974.2 <i>M 4318.2</i>	Taebang-Mogaesom bridge.	34° 55.7' N 128° 03.0' E	Iso.W. period 4s	115 35	7	Center light, red round daymark.	Iso.R. 4s 35m 5M and Iso.G. 4s 35m 4M mark width of navigable span. Iso.Y. 4s 33m 6M mark bridge pilings.
16974.4 <i>M 4318.4</i>	Mogaesom-Choyangsom bridge.	34° 55.6' N 128° 02.8' E	Iso.W. period 4s	85 26	7	Center light, red round daymark.	Iso.R. 4s 26m 5M and Iso.G. 4s 26m 4M mark width of navigable span. Iso.Y. 4s 25m 6M mark bridge pilings.
16974.6 <i>M 4317.9</i>	Choyangsom-Nukto bridge.	34° 55.4' N 128° 02.5' E	Iso.W. period 4s	75 23	7	Center light, white round daymark, red stripes.	Iso.R. 4s 23m 5M and Iso.G. 4s 23m 4M mark width of navigable span. Iso.Y. 4s 13m 6M mark piers.
16975 <i>M 4317.7</i>	Nuk-to, E. breakwater.	34° 55.5' N 128° 02.4' E	Fl.G. period 4s	36 11	6	White round steel tower; 26.	
16976 <i>M 4318</i>	-On rock, E. entrance to Chinju Man.	34° 55.5' N 128° 03.2' E	Fl.R. period 5s	42 13	10	Red round concrete tower; 43.	
16977 <i>M 4318.5</i>	Gwangseo.	34° 55.1' N 128° 03.3' E	Q.W.	39 12	8	N. CARDINAL BY, beacon, topmark; 39.	
16978 <i>M 4319.5</i>	Paman.	34° 54.7' N 128° 04.0' E	Fl.(2)W. period 5s	43 13	8	ISOLATED DANGER BRB, tower, topmark; 59.	
SAMCHEONPO:							
16981 <i>M 4320.3</i>	-Daebang Hang, E. breakwater.	34° 55.7' N 128° 03.5' E	Fl.R. period 4s	39 12	5	Red round concrete tower; 30.	
16981.5 <i>M 4320.35</i>	--W. breakwater, head.	34° 55.6' N 128° 03.5' E	Fl.G. period 4s	39 12	6	White round concrete tower; 30.	
16983 <i>M 4320.42</i>	--S.	34° 55.5' N 128° 03.9' E	Fl.(2)G. period 6s	36 11	7	White round concrete tower; 33.	
16983.3 <i>M 4320.4</i>	-E. breakwater, head.	34° 55.4' N 128° 04.0' E	Fl.(2)R. period 6s	39 12	7	Red round concrete tower; 33.	
16984 <i>M 4319.2</i>	-Hang Nae, breakwater, head.	34° 55.2' N 128° 04.2' E	Fl.R. period 6s	39 12	9	Red round concrete tower; 30.	
16986 <i>M 4320.2</i>	-Shin Hang.	34° 55.0' N 128° 05.0' E	Fl.R. period 5s	49 15	8	Red round concrete tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16988 <i>M 4320.6</i>	--Range, front.	34° 54.7' N 128° 06.3' E	FR.	98 30	7	Black square metal framework tower; 82.	Visible 018°-033°.
16992 <i>M 4320.61</i>	--Rear, 370 meters 025°24' from front.	34° 54.9' N 128° 06.4' E	FR.	128 39	7	Black square metal framework tower; 108.	Visible 018°-033°.
16995 <i>M 4320.8</i>	-Breakwater, head.	34° 54.0' N 128° 06.2' E	Fl.(2)R. period 6s	33 10	5	Red round fiberglass tower; 23.	
16999 <i>M 4319.2</i>	-W. breakwater, head.	34° 55.3' N 128° 04.5' E	Fl.R. period 6s	43 13	9	Red round concrete tower; 30.	
17000 <i>M 4319</i>	-Hang Do.	34° 55.4' N 128° 04.7' E	Fl.W. period 4s	49 15	8	White round concrete tower; 26.	
17001 <i>M 4321.13</i>	Chongnyang Hang.	34° 51.4' N 128° 03.6' E	Fl.R. period 6s	49 15	5	Red octagonal concrete tower; 36.	
17004 <i>M 4321.2</i>	Jang Got, on SE point of Ch'angson Do.	34° 49.8' N 128° 05.2' E	Fl.W. period 5s	118 36	8	White round fiberglass tower; 23.	
17008 <i>M 4321.5</i>	Saryang-do.	34° 51.5' N 128° 12.2' E	Fl.W. period 5s	52 16	8	White round concrete tower; 33.	
17008.1 <i>M 4321.495</i>	Donji Hang.	34° 50.2' N 128° 10.9' E	Fl.G. period 6s	33 10	5	White round concrete tower; 26.	
17008.5 <i>M 4321.52</i>	Tonggang.	34° 50.5' N 128° 14.2' E	Fl.W. period 4s	197 60	8	White round concrete tower; 24.	
17010 <i>M 4321.58</i>	Neunryang Po, W. breakwater.	34° 48.5' N 128° 14.6' E	Fl.G. period 6s	33 10	5	White round concrete tower; 24.	
17010.5 <i>M 4321.59</i>	-E. breakwater.	34° 48.6' N 128° 14.7' E	Fl.R. period 6s	39 12	5	Red round concrete tower; 31.	
17012 <i>M 4321.45</i>	-Moksokto, entrance to bay.	34° 49.1' N 128° 11.9' E	Fl.R. period 4s	62 19	6	STARBOARD (B) R, tower, topmark; 33.	
17013 <i>M 4321.47</i>	Nammudo.	34° 46.7' N 128° 12.9' E	Q.W.	62 19	7	N. CARDINAL BY, tower, topmark; 56.	
17016 <i>M 4322.95</i>	Paek So.	34° 47.9' N 128° 16.8' E	Fl.(2)W. period 5s	52 16	8	Red octagonal concrete tower, black bands; 36.	
17018	Mulgon Hang, N. breakwater.	34° 47.8' N 128° 03.5' E	Fl.R. period 5s	46 14	5	Red round concrete tower; 31.	
17018.5	-S. breakwater.	34° 47.7' N 128° 03.6' E	Fl.G. period 5s	43 13	5	White octagonal concrete tower; 27.	
17020 <i>M 4321.4</i>	Suu Do, island, W. side.	34° 49.9' N 128° 07.5' E	Fl.W. period 7s	56 17	8	White round concrete tower; 32.	Visible 328°-192°.
17024 <i>M 4322.2</i>	Mijo Nam Hang, W. breakwater.	34° 42.3' N 128° 02.9' E	Fl.G. period 4s	33 10	5	White round concrete tower; 25.	
17028 <i>M 4322.3</i>	-S. breakwater.	34° 42.3' N 128° 02.9' E	Fl.R. period 4s	36 11	6	Red octagonal concrete tower; 29.	
17032 <i>M 4322</i>	Mijo Man, breakwater.	34° 42.9' N 128° 02.8' E	Fl.G. period 5s	29 9	5	White round concrete tower; 20.	
17036 <i>M 4321.6</i>	Jijog.	34° 50.0' N 128° 00.0' E	Fl.R. period 5s	30 9	5	STARBOARD (B) R, tower, topmark; 23.	
17040 <i>M 4315</i>	Koki To.	34° 56.8' N 127° 58.0' E	Fl.W. period 5s	89 27	8	White round concrete tower; 33.	
17044 <i>M 4314</i>	Namhae Do, N. end of island.	34° 56.8' N 127° 53.5' E	Fl.(2)W. period 6s	33 10	8	White round concrete tower; 23.	Visible 075°-282°.
17046 <i>M 4311.8</i>	Wado Island.	34° 56.4' N 127° 51.4' E	Fl.W. period 5s	62 19	8	White round concrete tower; 33.	Visible 326°-261°.
17047 <i>M 4311.78</i>	Noryang.	34° 56.1' N 127° 51.3' E	Fl.R. period 5s	30 9	5	STARBOARD (B) R, beacon, topmark; 43.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17048 M 4311.6	Wa Gi.	34° 55.4' N 127° 50.4' E	Fl.(2)G. period 6s	23 7	4	PORT (B) G, tower, topmark.	
17050 M 4311.65	Hadong Hukki.	34° 56.7' N 127° 50.0' E	Q.(9)W. period 15s	26 8	8	W. CARDINAL YBY, tower, topmark; 23.	
17051 M 4311.7	-Seaberth A.	34° 56.6' N 127° 49.5' E	Fl.Y. period 4s	33 10	6	Yellow metal post; 16.	Horn: 1 bl. ev. 50s (bl. 5s, si. 45s).
17051.5 M 4311.75	--B.	34° 56.8' N 127° 49.6' E	Fl.Y. period 4s	33 10	6	Yellow metal post; 16.	
17053	Noryang sudo Bridge, N. span.	34° 56.6' N 127° 52.3' E	F.W.	77 23	7	White round daymark, red stripes.	F.R., F.G. and F.Y. mark bridge pilings.
17053.5	-S. span.	34° 56.4' N 127° 52.5' E	F.W.	77 23	7	White round daymark, red stripe.	F.R., F.G and F.Y. mark bridge pilings.
17056 M 4311	Umo So.	34° 53.2' N 127° 48.8' E	Fl.R. period 6s	33 10	8	Red round concrete tower; 46.	AIS (MMSI No 994403109).
17058.1 M 4311.73	Korea Electric Pier, seaberth.	34° 56.5' N 127° 49.3' E	Fl.(4)Y. period 8s	39 12	6	Yellow metal post; 13.	
17060 M 4311.4	Umsu Do.	34° 54.6' N 127° 49.5' E	Fl.R. period 5s	32 10	6	Red round concrete tower, triangular daymark point up; 30.	
17063 M 4308.15	Jakdo.	34° 25.0' N 127° 54.2' E	Fl.W. period 10s	390 119	8	White four-sided metal tower; 66.	AIS (MMSI No 994402946).
17064 M 4308	Sorido.	34° 24.7' N 127° 48.0' E	Fl.W. period 12s	269 82	26	White four-sided concrete tower; 30.	Visible 231°-110°. Siren: 1 bl. ev. 54s (bl. 5s, si. 49s).
17066 M 4308.05	-W. side.	34° 25.8' N 127° 47.0' E	Fl.G. period 6s	36 11	3	Green round concrete tower; 36.	
17067 M 4308.03	Jeungbong, S. breakwater.	34° 25.6' N 127° 47.4' E	Fl.Y. period 5s	49 15	8	Yellow round concrete tower; 31.	
17067.1 M 4308.04	-N. breakwater.	34° 25.8' N 127° 47.4' E	Fl.R. period 5s	49 15	6	Red round concrete tower; 31.	
17068 M 4307.3	Kumong-am.	34° 28.4' N 127° 46.0' E	Fl.W. period 5s	69 21	8	White octagonal concrete tower; 33.	AIS (MMSI No 994402911).
17069 M 4307.4	Ando Hang, E. breakwater.	34° 28.6' N 127° 47.7' E	Fl.R. period 5s	43 13	9	Red octagonal concrete tower; 26.	
17069.1 M 4307.45	-W. breakwater.	34° 28.6' N 127° 47.6' E	Fl.G. period 5s	43 13	9	White octagonal concrete tower; 26.	
17069.5	Suri Do.	34° 27.8' N 127° 48.3' E	Q.W.	39 12	8	N. CARDINAL BY, beacon, topmark; 26.	
17072 M 4307.5	An Do, (Paekum).	34° 29.8' N 127° 49.6' E	Fl.W. period 6s	71 22	8	White round concrete tower; 30.	AIS (MMSI No 994402913).
17073 M 4307.28	Yeosu, Geumodo.	34° 29.5' N 127° 45.8' E	Q.(9)W. period 15s	39 12	8	W. CARDINAL YBY, tower, topmark; 36.	
17073.1 M 4307.27	-Wolpo.	34° 30.0' N 127° 45.1' E	Q.(9)W. period 15s	43 13	8	W. CARDINAL YBY, tower, topmark; 46.	
17074 M 4307.7	Soyu.	34° 31.6' N 127° 46.5' E	Q.(3)W. period 10s	39 12	8	E. CARDINAL BYB, tower, topmark; 43.	
17074.5 M 4307.75	Huso.	34° 31.9' N 127° 47.0' E	Fl.(2)W. period 5s	49 15	8	ISOLATED DANGER BRB, beacon, topmark; 43.	
17075 M 4307.8	Sohoenggando.	34° 33.8' N 127° 46.0' E	Fl.W. period 6s	237 72	8	White octagonal concrete tower; 33.	AIS (MMSI No 994402945).
17080 M 4308.2	Ganyeo Am.	34° 17.3' N 127° 51.3' E	Fl.W. period 6s	98 30	8	White octagonal concrete tower; 59.	AIS (MMSI No 994402942).
	RACON		Y(- • - -)		10		(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17084 <i>M 4308.3</i>	Sejondo.	34° 29.9' N 128° 05.0' E	Fl.W. period 12s	73 22	8	White round concrete tower; 39.	
	RACON		G(- - •)		10		(3 & 10cm).
17088 <i>M 4308.35</i>	Gudoj Seo.	34° 37.3' N 128° 07.1' E	Fl.W. period 6s	105 32	8	White round concrete tower; 46.	
17090 <i>M 4322.35</i>	Mijo-gundo.	34° 40.8' N 128° 03.7' E	Fl.R. period 5s	66 20	5	Red round concrete tower; 49.	Visible 096°-30'-248°.
17092 <i>M 4308.9</i>	Baekseo.	34° 37.9' N 127° 59.6' E	Fl.W. period 6s	105 32	8	White octagonal concrete tower; 49.	AIS (MMSI No 994403108).
	RACON		Q(- - • -)		10		(3 & 10cm).
17096 <i>M 4308.94</i>	Kumsan.	34° 42.6' N 127° 58.9' E	Fl.(2)W. period 6s	203 62	8	White round concrete tower; 30.	Visible 298°-089°.
17100 <i>M 4308.8</i>	Dae Do.	34° 40.6' N 127° 56.9' E	Fl.W. period 10s	207 63	16	White octagonal concrete tower; 49.	Visible 251°-168°. AIS (MMSI No 994403107).
17100.5 <i>M 4308.97</i>	Pam-som.	34° 36.5' N 127° 48.0' E	Q.(3)W. period 10s	49 15	8	E. CARDINAL BYB, tower, topmark; 56.	
17101 <i>M 4308.98</i>	Taedan.	34° 39.6' N 127° 48.4' E	Fl.W. period 4s	108 33	8	White octagonal concrete tower; 43.	AIS (MMSI No 994402944).
17102	<i>Oechi-do.</i>	34° 41.7' N 127° 53.1' E	Fl.(2)W. period 5s			ISOLATED DANGER BRB, pillar, topmark.	
	RACON		N(- •)		10		(3 & 10cm).
17104 <i>M 4309</i>	Yosu Hang.	34° 42.2' N 127° 47.3' E	Fl.W. period 5s	377 115	8	White octagonal concrete tower; 29.	Visible 176°-352°. AIS (MMSI No 994402912).
17108 <i>M 4309.4</i>	U Am.	34° 43.0' N 127° 47.9' E	Fl.(2)W. period 5s	43 13	8	ISOLATED DANGER BRB, tower, topmark; 23.	AIS (MMSI No 994402920).
17112 <i>M 4310.2</i>	P'yongsan.	34° 45.0' N 127° 50.3' E	Fl.W. period 5s	194 59	11	White round concrete tower; 27.	Visible 320°-166°.
17116 <i>M 4310</i>	Odong Do.	34° 44.7' N 127° 46.1' E	Fl.W. period 10s	200 61	25	White octagonal concrete tower; 89.	AIS (MMSI No 994403321). Horn: 1 bl. ev. 30s (bl. 5s, si. 25s).
17120 <i>M 4309.8</i>	Yang Am.	34° 44.6' N 127° 46.7' E	Fl.(2)W. period 10s	39 12	10	ISOLATED DANGER BRB, tower, topmark; 56.	
17123 <i>M 4310.63</i>	Tunpyongtan.	34° 47.3' N 127° 46.0' E	Fl.(2)W. period 5s	49 15	8	ISOLATED DANGER BRB, tower, topmark; 33.	AIS (MMSI No 994402918).
17124 <i>M 4310.6</i>	Sam Gi.	34° 47.9' N 127° 49.0' E	Fl.(2)W. period 5s	33 10	8	ISOLATED DANGER BRB, tower, topmark.	
	RACON		K(- • -)		11		(3 & 10cm).
17126 <i>M 4310.3</i>	Yosu Hang, N. breakwater.	34° 45.1' N 127° 45.7' E	Fl.R. period 4s	59 18	9	Red metal pipe; 59.	
17134 <i>M 4310.58</i>	-Bridge, center span.	34° 43.8' N 127° 44.1' E	Fl.W. period 4s	66 20	7		Fl.R. 21m 7M, Fl.G. 21m 7M mark navigable span and Fl.Y. 21m 7M mark bridge pilings.
17135 <i>M 4310.52</i>	Chongpo, breakwater, head.	34° 44.2' N 127° 44.8' E	Fl.R. period 5s	46 14	9	Red round metal tower; 33.	AIS (MMSI No 994402914).
17136 <i>M 4310.57</i>	Changgundo.	34° 44.0' N 127° 44.1' E	Fl.(2)W. period 6s	36 11	8	White octagonal concrete tower; 33.	
17140 <i>M 4310.54</i>	Yosu Gu Hang.	34° 44.3' N 127° 44.0' E	Fl.G. period 4s	33 10	5	White round fiberglass tower; 23.	AIS (MMSI No 994402947).
17144 <i>M 4310.7</i>	Sangtan.	34° 51.4' N 127° 48.4' E	Fl.(2)W. period 6s	36 11	8	White round concrete tower; 23.	Visible 346°-204°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17148 <i>M 4308.72</i>	-Ya Do.	34° 43.3' N 127° 42.7' E	Fl.R. period 4s	36 11	6	Red octagonal concrete tower; 33.	
17152 <i>M 4308.74</i>	-Ammog Do.	34° 42.6' N 127° 41.7' E	Fl.W. period 5s	79 24	8	White round concrete tower; 23.	
17153 <i>M 4307.25</i>	Tolsan-do Approaches.	34° 29.5' N 127° 45.8' E	Q.(9)W. period 15s	30 9	8	W. CARDINAL YBY, beacon, topmark; 46.	
17154 <i>M 4307.1</i>	Hwataedo.	34° 34.6' N 127° 44.5' E	Fl.G. period 6s	36 11	5	PORT (B) G, beacon, topmark; 39.	
17156 <i>M 4308.4</i>	Taehoenggan Do.	34° 34.9' N 127° 45.1' E	Q.(9)W. period 15s	33 10	8	W. CARDINAL YBY, tower, topmark; 30.	
17160 <i>M 4308.5</i>	Kumsong.	34° 35.5' N 127° 45.3' E	Fl.R. period 6s	33 10	5	Green round concrete tower; 36.	
17161 <i>M 4308.45</i>	Jakgeum Hang.	34° 35.5' N 127° 45.9' E	Fl.R. period 5s	49 15	5	Red round concrete tower; 33.	AIS (MMSI No 994402915).
POHANG HANG:							
17164 <i>M 4308.53</i>	Hwatae Bridge.	34° 36.0' N 127° 44.1' E	F.W.	79 24	9		F.R. 24m 9M and F.G. 24m 8M mark width of navigable span. F.Y. 24m 8M mark piers.
17165 <i>M 4308.55</i>	Hajungdo.	34° 36.8' N 127° 42.7' E	Fl.R. period 4s	33 10	5	Red beacon; 33.	
17166 <i>M 4308.58</i>	Dolsan Hang, E. breakwater.	34° 36.8' N 127° 43.3' E	Fl.R. period 5s	33 10	5	Red round metal tower; 23.	AIS (MMSI No 994402948).
17170 <i>M 4310.72</i>	-Tanker terminal No 1.	34° 51.5' N 127° 46.5' E	Fl.Y. period 4s	23 7	7	SPECIAL Y, tower, "X" topmark; 13.	Horn: 1 bl. ev. 30s (bl. 5s, si. 25s).
17171 <i>M 4310.74</i>	--No 2.	34° 51.7' N 127° 46.4' E	Fl.Y. period 4s	23 7	7	SPECIAL Y, tower, "X" topmark; 13.	
17173 <i>M 4310.65</i>	Seaberth, S.	34° 50.5' N 127° 46.9' E	Fl.Y. period 4s	46 14	6	Yellow metal tower; 23.	
17173.2 <i>M 4310.64</i>	U-1 Pier, B.	34° 50.8' N 127° 46.9' E	Fl.Y. period 4s	46 14	6	Yellow metal tower; 23.	
17173.5 <i>M 4310.66</i>	-N.	34° 50.9' N 127° 46.9' E	Fl.(4)Y. period 8s		8	Red metal pipe; 23.	Horn: 1 bl. ev. 25s (bl. 5s, si. 20s).
17174 <i>M 4310.86</i>	Myodo Sudo, fog signal.	34° 51.8' N 127° 44.1' E				Dolphin.	Horn: 1 bl. ev. 20s (bl. 5s, si. 15s).
17174.5 <i>M 4310.88</i>	-Honamjongyu, fog signal.	34° 51.8' N 127° 43.6' E					Horn: 1 bl. ev. 20s (bl. 5s, si. 15s).
17188 <i>M 4310.9</i>	-Myodo Sudo (Honam Hwaryok) Range, front.	34° 51.2' N 127° 44.2' E	F.R.	79 24	10	White metal framework tower; 66.	Visible 176°-184°.
17192 <i>M 4310.91</i>	--Rear, 160 meters 180° from front.	34° 51.1' N 127° 44.2' E	F.R.	98 30	10	White metal framework tower; 85.	Visible 176°-184°.
17196 <i>M 4310.94</i>	-Honam Hwaryok Range, front.	34° 51.2' N 127° 44.0' E	F.R.	92 28	10	White round metal tower; 79.	Visible 197°-205°.
17200 <i>M 4310.95</i>	--Rear, 115 meters 201° from front.	34° 51.2' N 127° 44.0' E	F.R.	102 31	10	White metal framework tower; 89.	Visible 197°-205°.
17200.2 <i>M 4310.96</i>	Kwangyang, A.	34° 51.7' N 127° 42.4' E	Fl.Y. period 4s	26 8	7	Yellow metal post; 13.	Horn: 1 bl. ev. 30s (bl. 5s, si. 25s).
	RACON		K(- • -) period 60s		10		(3cm).
17200.5 <i>M 4310.97</i>	-B.	34° 51.7' N 127° 42.3' E	Fl.Y. period 4s	20 6	7	Yellow metal post; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17200.8 <i>M 4310.82</i>	Kwangyang Passage III.	34° 52.9' N 127° 45.6' E	Fl.(2)W. period 5s	59 18	10	ISOLATED DANGER BRB, tower, topmark; 79.	
	RACON		Z(- - • •)		10		(3 & 10cm).
17205	Kwangyang Hang Bridge.	34° 57.6' N 127° 45.2' E	F.W.	56 17	7	Red round daymark, white stripes.	F.R. 17m 5M and F.G. 17m 4M mark width of navigable span. F.Y. 17m 6M mark bridge pilings.
17205.1	Somjindaegyo Bridge.	34° 57.2' N 127° 46.3' E	F.W.	33 10	7	Red round daymark, white stripes.	F.R. 10m 7M and F.G. 10m 4M mark width of navigable span. F.Y. 10m 6M mark bridge pilings.
17211 <i>M 4308.75</i>	Mamuram.	34° 43.0' N 127° 41.0' E	Fl.(2)W. period 5s	43 13	8	ISOLATED DANGER BRB, beacon, topmark; 43.	
17212 <i>M 4308.6</i>	Yo Ch'o.	34° 41.3' N 127° 41.9' E	Fl.(2)W. period 5s	43 13	8	ISOLATED DANGER BRB, tower, topmark; 43.	AIS (MMSI No 994402955).
	RACON		N(- •)		10		(3 & 10cm).
17215	Horido.	34° 35.2' N 127° 40.6' E	Q.W.	40 12	8	N. CARDINAL BY, pillar, topmark; 26.	
17216 <i>M 4306</i>	Paegya Do , E. end of island.	34° 36.5' N 127° 39.3' E	Fl.W. period 20s	184 56	21	White round concrete tower; 78.	Visible 157°-070°. Horn: 1 bl. ev. 40s.
17218 <i>M 4305.5</i>	Yoja Man.	34° 47.2' N 127° 31.5' E	Fl.(2)W. period 5s	46 14	8	ISOLATED DANGER BRB, tower, topmark; 43.	
17218.1 <i>M 4305.45</i>	Soyoja-do.	34° 45.0' N 127° 30.9' E	Fl.W. period 6s	49 15	8	White round concrete tower; 26.	
17218.2 <i>M 4305.43</i>	Chuk-to.	34° 45.0' N 127° 26.8' E	Fl.(2)W. period 5s	36 11	8	ISOLATED DANGER BRB, beacon, topmark; 36.	
SAMCHEONPO:							
17218.3 <i>M 4305.44</i>	Yeojaman Jangdo.	34° 46.5' N 127° 26.6' E	Q.(6)+L.Fl.W. period 15s	31 10	8	S. CARDINAL YB, beacon, topmark; 31.	
17219 <i>M 4305.4</i>	Chokkum-do.	34° 37.6' N 127° 31.5' E	Fl.W. period 6s	62 19	8	White octagonal concrete tower; 36.	
17219.1 <i>M 4305.36</i>	Jobal Sudo.	34° 37.2' N 127° 31.6' E	Q.(6)+L.Fl.W. period 15s	26 8	8	S. CARDINAL YB, beacon, topmark; 46.	
17219.2 <i>M 4305.38</i>	Hagwado S.	34° 37.4' N 127° 32.0' E	Q.(6)+L.Fl.W. period 15s	36 11	8	S. CARDINAL YB, beacon, topmark; 33.	
17220 <i>M 4305</i>	Nang Do.	34° 35.7' N 127° 33.0' E	Fl.W. period 5s	69 21	8	White square concrete tower; 30.	Visible 233°-097°. AIS (MMSI No 994402943).
17221 <i>M 4305.2</i>	Nangdo Hang, entrance.	34° 36.0' N 127° 31.9' E	Fl.R. period 4s	59 18	5	Red octagonal concrete tower; 43.	
17221.1 <i>M 4305.3</i>	-Inner breakwater, N. end.	34° 36.2' N 127° 32.1' E	Fl.Y. period 6s	39 12	7	Yellow round metal tower; 26.	
17221.2 <i>M 4305.25</i>	--S. end.	34° 36.1' N 127° 32.1' E	Fl.G. period 4s	36 11	5	White round concrete tower; 23.	
17222 <i>M 4305.6</i>	Changgu Do.	34° 35.6' N 127° 36.5' E	Fl.R. period 4s	43 13	5	STARBOARD (B) R, tower, topmark; 49.	
17224 <i>M 4307</i>	Koso.	34° 32.6' N 127° 38.9' E	Fl.W. period 6s	112 34	8	White octagonal concrete tower; 30.	AIS (MMSI No 994402956).
17225 <i>M 4297.7</i>	Cheongseok.	34° 26.7' N 127° 13.3' E	Fl.G. period 4s	49 15	8	White octagonal concrete tower; 33.	
17226 <i>M 4307.05</i>	Yongdu-san.	34° 32.3' N 127° 41.8' E	Fl.W. period 6s	49 15	8	White round concrete tower; 36.	Visible 325°-247°. AIS (MMSI No 994402916).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17227 M 4299.72	Chijuk-to.	34° 26.5' N 127° 19.0' E	Q.(6)W.+L.FI.W. period 15s	30 9	8	S. CARDINAL YB, beacon, topmark; 69.	
17228 M 4297	Sisan Do.	34° 22.6' N 127° 16.4' E	FI.W. period 12s	121 37	8	White round concrete tower; 20.	AIS (MMSI No 994402934).
17229.2 M 4297.2	Shisando, W. breakwater.	34° 24.0' N 127° 15.6' E	FI.(3)G. period 7s	36 11	5	White octagonal concrete tower; 27.	
17229.4 M 4297.3	-S. breakwater.	34° 23.8' N 127° 16.0' E	FI.G. period 4s	52 16	5	White octagonal concrete tower; 33.	
17229.5 M 4297.25	-E. breakwater.	34° 23.8' N 127° 15.9' E	FI.R. period 5s	36 11	5	Red octagonal concrete tower; 27.	
17230 M 4297.4	-N. end of island.	34° 24.9' N 127° 14.6' E	FI.W. period 6s	177 54	8	White round concrete tower; 25.	Visible 351°-286°.
17230.2 M 4298.55	Gamdeungseo.	34° 30.3' N 127° 14.3' E	FI.(2)W. period 5s	46 14	8	ISOLATED DANGER BRB, beacon, topmark; 33.	
17230.5 M 4298.6	Pungnam, W. breakwater.	34° 30.9' N 127° 15.0' E	FI.G. period 5s	56 17	5	White octagonal concrete tower; 52.	AIS (MMSI No 994402939).
17230.51 M 4298.65	-W. breakwater.	34° 31.0' N 127° 15.0' E	FI.R. period 5s	36 11	5	Red round steel tower; 23.	
17230.52 M 4298.66	-N. breakwater.	34° 31.2' N 127° 15.0' E	FI.Y. period 4s	36 11	7	Yellow metal framework tower; 23.	
17230.6 M 4299.69	Geomdungyeo.	34° 27.9' N 127° 17.0' E	Q.(9)W. period 15s	46 14	8	W. CARDINAL YBY, tower, topmark; 46.	
17231 M 4303	-Chuinyo.	34° 27.2' N 127° 33.8' E	FI.(2)W. period 5s	56 17	8	ISOLATED DANGER BRB, tower, topmark; 30.	AIS (MMSI No 994402954).
	-RACON		M(- -)		10		(3 & 10cm).
17231.1 M 4302.5	Taengmunam.	34° 26.3' N 127° 35.0' E	FI.(2)W. period 10s	62 19	8	ISOLATED DANGER BRB, tower, topmark; 69.	AIS (MMSI No 994402952).
17232 M 4300.4	Sonjukdo.	34° 17.7' N 127° 21.1' E	FI.W. period 15s	49 15	8	White round concrete tower; 33.	AIS (MMSI No 994402923).
17233 M 4296.8	Podunaji.	34° 18.8' N 127° 14.4' E	FI.(2)W. period 6s	262 80	8	White round concrete tower; 33.	AIS (MMSI No 994402925).
17234 M 4295.3	Cho Do, N. breakwater.	34° 14.4' N 127° 14.4' E	FI.(2)G. period 6s	59 18	9	White octagonal concrete tower; 43.	
17234.1 M 4295.4	-S. breakwater.	34° 14.5' N 127° 14.5' E	FI.R. period 5s	36 11	5	Red round metal tower; 33.	
17236 M 4295	Cho Do.	34° 12.7' N 127° 15.8' E	FI.W. period 6s	184 56	8	White round concrete tower; 24.	AIS (MMSI No 994402926).
17236.1 M 4295.2	-E.	34° 13.8' N 127° 16.3' E	Q.(3)W. period 10s	43 13	8	E. CARDINAL BYB, tower, topmark; 36.	
17240 M 4294.5	Yokman-do.	34° 10.8' N 127° 21.2' E	FI.W. period 9s	69 21	8	White round concrete tower; 19.	AIS (MMSI No 994402933).
17243 M 4293.5	Sosambudo.	34° 02.6' N 127° 21.7' E	FI.W. period 6s	131 40	8	White octagonal concrete tower; 43.	
17244 M 4286	Geomun Do.	34° 00.4' N 127° 19.3' E	FI.W. period 15s	302 92	23	White hexagonal concrete tower; 108.	Visible 197°-109°. Every other flash intensified. AIS (MMSI No 004415510). Horn: 1 bl. ev. 50s (bl. 5s, si. 45s). DGPS Station.
17245 M 4292.51	Seodo, N. breakwater.	34° 03.4' N 127° 18.0' E	FI.R. period 5s	52 16	8	Red six-sided concrete tower; 39.	
17245.5 M 4292.5	Dongdo, N. breakwater.	34° 03.5' N 127° 18.2' E	FI.G. period 5s	52 16	9	White six-sided concrete tower; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17246 <i>M 4293</i>	Pan-yo.	34° 04.4' N 127° 18.7' E	Fl.(2)W. period 5s	49 15	8	ISOLATED DANGER BRB, beacon, topmark; 49.	AIS (MMSI No 994402951).
17247 <i>M 4292.6</i>	Geomum Bridge.	34° 03.4' N 127° 18.1' E	Iso.W. period 4s	89 27	9		Iso.R. 4s 27m 9M and Iso.G. 4s 27m 9M mark width of navigable span.
17248 <i>M 4292</i>	Nogsan Got.	34° 03.8' N 127° 17.6' E	Fl.W. period 6s	312 95	11	White octagonal concrete tower; 49.	Visible 075°-266°. AIS (MMSI No 994402929).
17249 <i>M 4286.25</i>	Komundo Hang Bridge, center span.	34° 01.4' N 127° 18.5' E	F.W.	36 11	7	White round daymark, red stripe.	F.R. 6m 8M and F.G. 6m 8M mark limits of navigable span.
17249.5 <i>M 4290.25</i>	Geomundo Hang, W. breakwater.	34° 01.7' N 127° 18.4' E	Fl.R. period 5s	39 12	6	Red metal column; 29.	
17250 <i>M 4290.2</i>	-E. breakwater.	34° 01.7' N 127° 18.5' E	Fl.G. period 5s	46 14	6	White concrete column; 23.	
17251 <i>M 4286.5</i>	-E. breakwater.	34° 01.8' N 127° 18.6' E	Fl.G. period 4s	72 22	9	White octagonal concrete tower; 30.	
17252 <i>M 4287</i>	-S. breakwater.	34° 01.9' N 127° 18.6' E	Fl.R. period 4s	43 13	8	Red octagonal concrete tower; 29.	
17260 <i>M 4294</i>	Habaeg Do.	34° 03.3' N 127° 35.0' E	Fl.W. period 6s	525 160	10	White four-sided concrete tower; 25.	AIS (MMSI No 994402932).
	RACON		G(- - •)		10		(3 & 10cm).
17260.5 <i>M 4294.3</i>	Munseo.	34° 08.5' N 127° 33.7' E	Fl.W. period 4s	108 33	8	White octagonal concrete tower; 59.	AIS (MMSI No 994402931).
17261 <i>M 4300.55</i>	Muhakto.	34° 19.4' N 127° 19.1' E	Fl.W. period 6s	36 11	8	White round concrete tower; 23.	Visible 304°-048°. AIS (MMSI No 994402922).
17262 <i>M 4300.5</i>	Chimudo.	34° 20.0' N 127° 22.5' E	Fl.(2)W. period 6s	78 24	8	White round tower; 56.	Visible 279°-076°. AIS (MMSI No 994402924).
17264 <i>M 4300.6</i>	Daeduyeog Seo.	34° 14.6' N 127° 32.1' E	Fl.W. period 5s	112 34	11	White round concrete tower; 20.	AIS (MMSI No 994402930).
17268 <i>M 4302</i>	Tanggeon Yeo.	34° 22.0' N 127° 30.6' E	Fl.W. period 10s	171 52	11	White octagonal concrete tower; 33.	
	RACON		T(-)		10		(3 & 10cm).
17272 <i>M 4304</i>	Naenaro Do.	34° 29.5' N 127° 30.4' E	Fl.W. period 5s	328 100	10	White round concrete tower; 16.	Visible 157°-333°. AIS (MMSI No 994402921).
17272.5 <i>M 4298.5</i>	Gyedo.	34° 29.5' N 127° 14.1' E	Fl.W. period 4s	46 14	8	White hexagonal concrete tower; 39.	
17273 <i>M 4299.75</i>	Naebal Hang.	34° 28.9' N 127° 20.6' E	Fl.G. period 5s	36 11	5	White octagonal concrete tower; 26.	AIS (MMSI No 994402937).
17274 <i>M 4299.8</i>	Balpo, breakwater.	34° 28.7' N 127° 20.7' E	Fl.R. period 5s	39 12	5	Red round metal tower; 33.	
17280 <i>M 4300</i>	Sayang Do.	34° 27.9' N 127° 26.6' E	Fl.W. period 5s	69 21	8	White octagonal concrete tower; 43.	AIS (MMSI No 994402935).
17280.4 <i>M 4300.2</i>	Naro Yolto Bridge, S. span.	34° 28.7' N 127° 27.5' E	F.W.	85 26	7	White circular daymark, red stripes.	F.G. 20m 5M and F.R. 20m 5M mark width of navigable span. F.Y. 6M mark piers. Passing prohibited. Horn: 1 bl. ev. 20s (bl. 5s, si. 15s).
17280.5 <i>M 4300.35</i>	-W. span.	34° 28.7' N 127° 27.5' E	F.W.	75 23	7	White circular daymark, red stripes.	F.R. 21m 5M and F.G. 21m 5M mark width of navigable span. F.Y. 6M mark piers. Passing prohibited.
17282 <i>M 4300.3</i>	Samam.	34° 29.5' N 127° 26.3' E	Q.(9)W. period 15s	43 13	8	W. CARDINAL YBY, tower, topmark; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17283	Naroyolto, bridge.	34° 31.2' N 127° 26.0' E	F.G.	39 12	4		
17284 M 4301	Oenaro Do, NW. side, W. breakwater.	34° 27.3' N 127° 27.1' E	Fl.G. period 6s	62 19	5	White octagonal metal tower; 43.	
17290 M 4295.5	Hwangjedo.	34° 11.6' N 127° 04.8' E	Fl.W. period 5s	171 52	18	White round concrete tower; 33.	Visible 152°-002°.
17291 M 4295.7	-W. end of island.	34° 11.4' N 127° 04.3' E	Fl.(2)W. period 6s	92 28	8	White hexagonal metal tower; 28.	Visible 334°-208°.
17291.3 M 4295.5	Satong Hang, S. breakwater.	34° 19.8' N 127° 04.9' E	Fl.(2)R. period 6s	39 12	5	Red octagonal concrete tower; 26.	
17291.35 M 4295.82	-N. breakwater.	34° 19.9' N 127° 04.9' E	Fl.G. period 5s	39 12	5	White octagonal concrete tower; 26.	
17291.4 M 4295.75	Sorang bridge.	34° 19.8' N 127° 04.6' E	F.W.	36 11	7	White round daymark, red stripe.	F.G. 11m 5M and F.R. 11m 5M mark width of navigable span. F.Y. 6m 6M mark bridge piers.
17292 M 4296	Sopto.	34° 18.0' N 127° 07.9' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	187 57	11	White octagonal concrete tower; 30.	Visible 197°-097°.
	RACON		C(- • - •)		10		(3 & 10cm).
17292.5 M 4296.7	Taebyeong Pungdo.	34° 17.0' N 127° 09.5' E	Fl.W. period 6s	49 15	8	White round concrete tower; 33.	
17293 M 4296.5	Sadong Hang, W. breakwater.	34° 19.9' N 127° 04.9' E	Fl.R. period 4s	46 14	5	Red round concrete tower; 30.	
17294 M 4297.8	Sorokdo.	34° 30.4' N 127° 05.7' E	Q.(9)W. period 15s	43 13	8	W. CARDINAL YBY, beacon, topmark; 49.	AIS (MMSI No 994402953).
17295 M 4298.9	Sapyogido.	34° 31.5' N 127° 06.7' E	Q.W.	39 12	12	N. CARDINAL BY, tower, topmark; 36.	
17297 M 4298	Geogeum bridge, N.	34° 30.1' N 127° 07.7' E	F.W.	128 39	6		F.G. 39m 6M and F.R. 39m 6M mark width of navigable span.
17297.5 M 4298.1	-S.	34° 29.7' N 127° 07.6' E	F.W.	85 26	6		F.G. 26m 6M and F.R. 26m 6M mark width of navigable span. F.Y. 25m 6M mark bridge piers.
	-RACON		T(-)				(3 & 10cm).
17298 M 4299.2	Nokdong Hang, N. breakwater.	34° 31.6' N 127° 07.4' E	Fl.(2)G. period 6s	39 12	9	White octagonal concrete tower; 27.	AIS (MMSI No 994402941).
17298.1 M 4299.3	-Nokdong Sorokdo Bridge.	34° 31.6' N 127° 07.4' E	F.W.	75 23	7	White circular daymark, red stripe.	F.R. 21m 4M and F.G. 21m 5M mark width of navigable span.
17298.5 M 4299.6	-S. breakwater.	34° 31.2' N 127° 08.4' E	Fl.G. period 5s	36 11	5	White octagonal concrete tower; 27.	AIS (MMSI No 994402940).
17299 M 4299.4	-N. detached breakwater, head.	34° 31.6' N 127° 07.3' E	Fl.(2)R. period 6s	36 11	8	Red octagonal concrete tower; 26.	
17299.1 M 4299.61	-SE. breakwater, head.	34° 31.0' N 127° 09.1' E	Fl.R. period 4s	56 17	6	Red round concrete tower; 39.	
17300.5 M 4299.68	Tungnyang Man, Sinhung.	34° 35.8' N 127° 08.4' E	Fl.(2)W. period 10s	43 13	7	ISOLATED DANGER BRB, beacon, topmark; 49.	
17300.8 M 4297.65	Yeonheungdo.	34° 28.1' N 127° 05.2' E	Q.W.	39 12	11	N. CARDINAL BY, tower, topmark; 33.	
17301 M 4281.7	Kumdang Do.	34° 27.3' N 127° 01.4' E	Fl.W. period 6s	164 50	8	White round concrete tower; 32.	Visible 035°-252°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17301.5 <i>M 4279.6</i>	Odongdo.	34° 26.5' N 127° 05.6' E	Fl.R. period 5s	33 10	6	STARBOARD (B) R, tower, topmark; 36.	
17301.55 <i>M 4297.55</i>	Geumdangdo.	34° 25.6' N 127° 04.6' E	Fl.G. period 4s	36 11	8	PORT (B) G, beacon, topmark; 52.	
17301.6 <i>M 4297.5</i>	Geogeumdo, Monyeodo.	34° 25.8' N 127° 13.1' E	Fl.(2)W. period 5s	59 18	8	ISOLATED DANGER BRB, tower, topmark; 62.	
17302 <i>M 4281.6</i>	Kongdaejisan.	34° 22.1' N 126° 56.9' E	Fl.W. period 6s	92 28	8	White round concrete tower; 33.	Visible 230°-066°.
17302.1 <i>M 4281.58</i>	Hyeoldo.	34° 20.4' N 126° 54.8' E	Fl.W. period 4s	46 14	8	White round concrete tower; 30.	Visible 090°-010°.
17302.5 <i>M 4281.55</i>	Saengildo, E.	34° 20.4' N 126° 54.8' E	Fl.W. period 6s	141 43	8	White round concrete tower; 30.	
17303 <i>M 4281.65</i>	Tooduji.	34° 24.9' N 126° 57.2' E	Fl.W. period 4s	115 35	8	White round concrete tower; 32.	Visible 073°-350°.
17303.1 <i>M 4281.75</i>	Noryeokdo bridge, center span.	34° 28.0' N 126° 57.8' E	F.W.	66 20	8	White round daymark, red stripe.	F.G. 20m 8M and F.R. 20m 8M mark width of navigable span. F.Y. 3m 8M mark bridge piers.
17303.2 <i>M 4281.78</i>	Hoejin Hang, E.	34° 28.7' N 126° 56.7' E	Fl.(4)Y. period 8s	43 13	7	Yellow round concrete tower; 33.	
17303.3 <i>M 4281.79</i>	-W.	34° 28.6' N 126° 56.5' E	Fl.R. period 4s	43 13	5	Red round concrete tower; 33.	
17303.5 <i>M 4281.74</i>	Noryeok Hang.	34° 26.7' N 126° 57.9' E	Fl.R. period 4s	39 12	7	Red round steel tower; 27.	
17304 <i>M 4281</i>	Shinchi Do.	34° 18.9' N 126° 47.6' E	Fl.W. period 4s	72 22	9	White round concrete tower; 36.	
17304.5 <i>M 4280.9</i>	Molseo.	34° 19.2' N 126° 46.3' E	Fl.(2)G. period 6s	59 18	5	White round tower; 33.	
17305 <i>M 4280.8</i>	Wando Hang, breakwater.	34° 19.5' N 126° 45.2' E	Fl.(2)R. period 6s	62 19	5	Red square concrete tower; 49.	
17305.1 <i>M 4280.75</i>	Wandosinjido Bridge.	34° 20.1' N 126° 44.9' E	F.W.	135 41	7	White circular daymark, red stripes.	F.R. 39m 5M and F.G. 39m 5M mark width of navigable span. F.Y. 30m 6M mark piers.
17305.5 <i>M 4280.726</i>	Sahudo.	34° 23.7' N 126° 44.7' E	Q.(6)+L.Fl.W. period 15s	33 10	8	S. CARDINAL YB, tower, topmark; 33.	
17306 <i>M 4281.8</i>	Kkamaksom.	34° 26.8' N 126° 48.7' E	Q.(6)+L.Fl.W. period 15s	33 10	8	S. CARDINAL YB, tower, topmark; 36.	
17307 <i>M 4281.9</i>	Maryang Hang, E. breakwater.	34° 26.8' N 126° 49.4' E	Fl.R. period 4s	36 11	5	Red round concrete tower; 30.	
17307.5 <i>M 4281.93</i>	-Center breakwater.	34° 26.8' N 126° 49.1' E	Fl.G. period 4s	36 11	5	White round concrete tower; 30.	
17308 <i>M 4281.4</i>	Sodogu Do.	34° 17.0' N 127° 00.3' E	Fl.W. period 6s	105 32	8	White round concrete tower; 16.	
17308.1 <i>M 4281.85</i>	Kogum bridge, center span.	34° 26.7' N 126° 49.8' E	F.W.	89 27	7	White round daymark, red stripe.	F.G. 27m 7M and F.R. 27m 8M mark width of navigable span F.Y. 7m 7M mark bridge piers.
17309 <i>M 4283.7</i>	Togudo.	34° 15.3' N 127° 00.6' E	Fl.W. period 5s	75 23	8	White octagonal concrete tower; 26.	
17310 <i>M 4281.5</i>	Toryongnangdo.	34° 18.4' N 127° 00.0' E	Fl.W. period 4s	66 20	8	White octagonal concrete tower; 27.	Visible 235°-080°.
17312 <i>M 4281.2</i>	Mohwang Do.	34° 17.1' N 126° 53.9' E	Fl.(2)W. period 6s	164 50	8	White round concrete tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17316 <i>M 4284</i>	Yoso Do.	33° 59.3' N 126° 55.1' E	Fl.W. period 10s	292 89	18	White round concrete tower; 26.	Visible 046°-267°. AIS (MMSI No 994403002).
17316.5 <i>M 4285.1</i>	1W. breakwater.	33° 59.3' N 126° 55.3' E	Fl.R. period 5s	43 13	5	Red octagonal concrete tower; 26.	
17320 <i>M 4279.4</i>	Hoenggan Do.	34° 15.0' N 126° 36.8' E	Fl.W. period 4s	121 37	8	White round concrete tower; 16.	AIS (MMSI No 994403001).
17320.5 <i>M 4278.16</i>	Yongjon Hang, E. breakwater.	34° 20.1' N 126° 36.2' E	Fl.R. period 6s	30 9	5	Red hexagonal metal tower; 20.	
17321 <i>M 4278.17</i>	Haeman Pando.	34° 20.5' N 126° 36.1' E	Fl.Y. period 6s	26 8	7	Yellow post; 20.	
17321.5 <i>M 4280.7</i>	Tal to bridge, center span.	34° 24.1' N 126° 37.6' E	F.W.	16 5	7	White round daymark, red stripes.	F.R. 3m 5M F.G. 3m 4M mark limits of navigable span.
17324 <i>M 4279.5</i>	Kaksi So.	34° 13.0' N 126° 38.8' E	Fl.(2)W. period 5s	30 9	8	ISOLATED DANGER BRB, tower, topmark; 27.	
17325 <i>M 4279.6</i>	Daeseo.	34° 12.1' N 126° 38.7' E	Fl.R. period 5s	39 12	6	STARBOARD (B) R, tower, topmark; 36.	
17326 <i>M 4279.7</i>	Sokto.	34° 10.5' N 126° 37.5' E	Q.(3)W. period 10s	33 10	8	E. CARDINAL BYB, tower, topmark; 36.	
17327 <i>M 4219.8</i>	Soan Hang, W. breakwater.	34° 09.2' N 126° 37.9' E	Fl.R. period 5s	46 14	5	Red octagonal concrete tower; 30.	
17327.1	-N. breakwater.	34° 09.2' N 126° 37.9' E	Fl.G. period 5s	43 13	5	Green octagonal concrete tower; 30.	
17327.4 <i>M 4279.88</i>	Ttanyeo.	34° 08.1' N 126° 37.8' E	Fl.(2)R. period 6s	52 16	6	STARBOARD (B) R, round concrete tower, topmark; 66.	
17328 <i>M 4280.5</i>	Meeruam.	34° 16.4' N 126° 45.3' E	Fl.(2)W. period 5s	39 12	8	ISOLATED DANGER BRB, tower, topmark; 43.	AIS (MMSI No 994403012).
17332 <i>M 4280</i>	Somo Do, NW. extremity of island.	34° 13.6' N 126° 46.3' E	Fl.W. period 4s	217 66	8	White round concrete structure; 26.	Visible 031°-276°.
17336 <i>M 4283.4</i>	Ch'ongsando, S. breakwater.	34° 10.9' N 126° 51.1' E	Fl.R. period 6s	36 11	5	Red round concrete tower; 26.	
17338 <i>M 4283.6</i>	-N. breakwater.	34° 10.9' N 126° 51.1' E	Fl.G. period 6s	49 15	5	White round concrete tower; 30.	Visible 039°-141°.
17340 <i>M 4282</i>	Jagae Do.	34° 05.9' N 126° 36.1' E	Fl.W. period 20s	358 109	23	White octagonal concrete tower; 69.	Visible 173°-109°. AIS (MMSI No 994402994). Horn: 1 bl. ev. 48s (bl. 8s, si. 40s). Sounds in answer to vessel's signals. Storm signal.
17341 <i>M 4283</i>	Churuncho.	34° 04.4' N 126° 31.1' E	Fl.(2)W. period 10s	66 20	8	Black four-sided metal tower, red bands; 79.	AIS (MMSI No 994403006).
	RACON		C(- • - •)		10		(3 & 10 cm).
17344 <i>M 4277.8</i>	Heonggan Do.	34° 00.7' N 126° 19.7' E	Fl.W. period 10s	82 25	8	White round concrete tower; 33.	
	RACON		N(- •)		10		(3 & 10cm).
17348 <i>M 4276</i>	Chuja Kundo, on Sangchua Do.	33° 57.6' N 126° 18.2' E	Fl.G. period 5s	46 14	8	PORT (B) G, round metal pipe, topmark; 39.	
17352 <i>M 4277</i>	-Chuja Hang, breakwater, head.	33° 57.7' N 126° 18.0' E	Fl.R. period 4s	52 16	8	Red round concrete tower; 36.	
17356 <i>M 4277.5</i>	Sangchujado.	33° 57.3' N 126° 17.8' E	Fl.W. period 20s	479 146	26	White round concrete tower; 66.	Visible 135°-277°, 292°-113°. AIS (MMSI No 994403892). Horn: 1 bl. ev. 40s (bl. 5s, si. 35s).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17357 M 4277.6	Goryeoyeo.	33° 56.8' N 126° 17.8' E	Fl.(2)W. period 10s	46 14	9	ISOLATED DANGER BRB, metal pipe, topmark; 56.	
17360 M 4275	Chuja Do Kamegyeo.	33° 57.7' N 126° 19.9' E	Fl.(2)W. period 5s	49 15	8	ISOLATED DANGER BRB, tower, topmark; 36.	
17364 M 4277.9	Mang Do.	33° 59.7' N 126° 23.6' E	Fl.(2)W. period 8s	246 75	9	White round concrete tower; 28.	
17366 M 4274.8	-Breakwater, head.	33° 56.3' N 126° 19.8' E	Fl.R. period 4s	49 15	8	Red round steel post; 20.	
17366.5 M 4274.85	-S. breakwater.	33° 56.4' N 126° 19.7' E	Fl.G. period 4s	49 15	8	White round metal post; 20.	
17368 M 4274.7	Bang Seo.	33° 55.3' N 126° 24.0' E	Fl.W. period 6s	82 25	8	White round concrete tower; 36.	AIS (MMSI No 994403895).
17372 M 4274.65	Hwa Do.	33° 43.8' N 126° 21.5' E	Fl.W. period 5s	302 92	8	White four-sided concrete tower; 23.	
	RACON		K(- • -)		10		(3 & 10cm).
17374 M 4265.65	Sebaeyeo.	33° 30.4' N 126° 27.1' E	Q.W.	46 14	8	N. CARDINAL BY, tower, topmark; 52.	
17376 M 4266	Sanchi.	33° 31.3' N 126° 32.8' E	Fl.W. period 15s	236 72	26	White round concrete tower; 59.	Visible 070°-252°. Storm signals. Horn: 1 bl. ev. 50s (bl. 5s, si. 45s). Radiobeacon 755 meters SSW.
17380 M 4266.5	-Jeju Hang, breakwater, head.	33° 32.0' N 126° 32.5' E	Fl.R. period 5s	89 27	9	Red round concrete tower; 52.	AIS (MMSI No 994403893).
	-RACON		C(- • - •)		10		(3 & 10cm).
17381 M 4267	--Inner W. breakwater, head.	33° 31.4' N 126° 32.1' E	Fl.(2)R. period 6s	36 11	8	Red round metal column; 26.	
17382 M 4267.5	--Outer port, E. breakwater, head.	33° 31.8' N 126° 32.5' E	Fl.G. period 5s	66 20	9	White round concrete tower; 59.	
17391 M 4265.9	Daegot, E.	33° 31.1' N 126° 30.1' E	Fl.R. period 4s	36 11	5	Red round metal tower; 26.	
17392	-AVIATION LIGHT.	33° 30.8' N 126° 29.1' E	Al.Fl.W.G. period 5s	148 45			
17392.9 M 4265.6	Iho Hang.	33° 30.3' N 126° 27.6' E	Fl.R. period 4s	43 13	9	Red round metal tower; 30.	
			F.W.	30 9			Illuminates Iho Hang beacon in direction 157°. Floodlit.
17393.5 M 4265.8	-S. breakwater.	33° 30.6' N 126° 27.9' E	Fl.R. period 6s	62 19	8	Red octagonal concrete tower; 39.	
17396 M 4269	-Hwabuk Hong, W. breakwater, head.	33° 31.5' N 126° 33.9' E	Fl.R. period 5s	39 12	6	Red round concrete tower; 27.	
17396.3 M 4269.25	Samyang, No 1 breakwater.	33° 32.0' N 126° 35.4' E	Fl.R. period 4s	46 14	5	Red round structure; 26.	
17396.4 M 4269.26	-No 3.	33° 31.6' N 126° 34.7' E	Fl.R. period 6s	43 13	5	Red round metal post; 30.	
17396.8 M 4269.28	Sinchon Hang, E. breakwater.	33° 32.4' N 126° 37.0' E	Fl.R. period 5s	49 15	8	Red round metal tower; 30.	
17396.9 M 4269.29	-Chochon Hang, breakwater.	33° 32.5' N 126° 38.0' E	Fl.(2)G. period 6s	33 10	5	White round metal tower; 26.	
17396.91 M 4269.35	Hamdeok Hang, E. breakwater.	33° 32.9' N 126° 39.7' E	Fl.G. period 4s	43 13	8	White round metal tower; 26.	Reserve light F.W. Floodlit.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17397 M 4269.3	Shinhungkwaggoch.	33° 33.3' N 126° 38.7' E	Fl.W. period 6s	43 13	7	White octagonal concrete tower; 33.	
17398 M 4283.8	Sasudo.	33° 55.3' N 126° 38.4' E	Fl.W. period 6s	276 84	9	White octagonal concrete tower; 36.	Visible 332°-208°.
	RACON		G(- - •)		10		(3 & 10cm).
17400 M 4269.5	-Talso.	33° 33.5' N 126° 41.8' E	Fl.(2)W. period 6s	46 14	7	White octagonal concrete tower; 33.	
17401 M 4269.4	-W. breakwater.	33° 33.1' N 126° 41.6' E	Fl.R. period 5s	33 10	9		
17401.5 M 4269.6	Dongbok Hang, breakwater.	33° 33.3' N 126° 42.9' E	Fl.(2)R. period 6s	43 13	9	Red round metal tower; 30.	
17402 M 4269.8	-Kimnyong Hang, W. breakwater.	33° 33.6' N 126° 44.4' E	Fl.R. period 6s	59 18	9	Red concrete tower; 36.	AIS (MMSI No 994403894).
17402.1 M 4269.9	--E. breakwater.	33° 33.7' N 126° 44.4' E	Fl.G. period 6s	52 16	9	White round concrete tower; 36.	
17404 M 4270	-Haengwon-Ri, W. breakwater, head.	33° 33.5' N 126° 48.3' E	Fl.R. period 4s	39 12	8	Red round metal post; 26.	
17407 M 4270.1	-Pyeongdae Hang, E. breakwater.	33° 32.2' N 126° 50.5' E	Fl.R. period 5s	46 14	8	Red round metal tower; 26.	
17407.5 M 4270.15	Sehwa Hang.	33° 31.8' N 126° 51.5' E	Fl.R. period 4s	43 13	8	Red round metal tower; 28.	
17408 M 4270.2	-E. breakwater, head.	33° 31.8' N 126° 51.5' E	Fl.G. period 4s	56 17	8	White round concrete tower; 39.	
17412 M 4271	Pandatan.	33° 31.2' N 126° 54.5' E	Fl.R. period 6s	43 13	5	STARBOARD (B) R, tower, topmark; 33.	
17414 M 4271.5	U do, Tuksaenggot.	33° 31.5' N 126° 57.2' E	Fl.(2)W. period 6s	52 16	9	Metal post; 43.	
17416 M 4272.2	-U Do.	33° 30.9' N 126° 58.3' E	Q.(3)W. period 10s	46 14	8	E. CARDINAL BYB, tower, topmark; 43.	AIS (MMSI No 994403897).
17420 M 4272	-U Do.	33° 29.6' N 126° 58.0' E	Fl.W. period 20s	459 140	27	White round brick tower; 52.	Visible 042°-019°. AIS (MMSI No 994403890). Horn: 1 bl. ev. 45s (bl. 5s, si. 40s).
17424 M 4272.3	-E. breakwater.	33° 28.7' N 126° 56.2' E	Fl.G. period 4s	56 17	11	White round concrete tower; 49.	
17425	-S. breakwater.	33° 29.3' N 126° 57.1' E	Fl.R. period 6s	52 16	8	Red metal post; 33.	
17429 M 4272.25	Songsanpo.	33° 29.3' N 126° 55.5' E	Fl.(2)R. period 6s	49 15	8	STARBOARD (B) R, tower, topmark; 66.	
17432 M 4272.42	---W. breakwater.	33° 28.5' N 126° 55.7' E	Fl.(2)Y. period 8s	39 12	8	Yellow round concrete tower; 36.	
17434 M 4272.35	---N. breakwater, E. head.	33° 28.6' N 126° 56.0' E	Fl.R. period 4s	56 17	11	Red round concrete tower; 43.	
17435 M 4272.36	---W. head.	33° 28.6' N 126° 55.6' E	Fl.(2)Y. period 6s	52 16	6	Yellow round concrete tower; 49.	
17436 M 4272.5	-Pangdupo.	33° 25.6' N 126° 56.0' E	Fl.W. period 4s	131 40	8	White octagonal concrete tower; 23.	
17437 M 4272.46	Sinyang hang.	33° 25.7' N 126° 55.2' E	Fl.G. period 6s	39 12	8	White round metal tower; 26.	
17438 M 4272.52	Onpyeong.	33° 24.2' N 126° 54.3' E	Fl.G. period 4s	36 11	8	White round structure; 30.	
17440 M 4272.54	-On Pyeong.	33° 23.7' N 126° 54.7' E	Q.(3)W. period 10s	46 14	8	E. CARDINAL BYB, tower, topmark; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17441 M 4272.55	Sincheon Hang, breakwater.	33° 20.5' N 126° 51.5' E	Fl.G. period 6s	46 14	5	White round metal tower; 33.	
F.W.							
17441.1 M 4272.552	Sincheon Hang, breakwater.	33° 20.4' N 126° 51.5' E	Fl.(3)G. period 7s	46 14	8	PORT (B) G, beacon, topmark; 75.	
17444 M 4272.6	-Kaeminpo.	33° 19.2' N 126° 50.9' E	Fl.W. period 5s	46 14	8	White round concrete tower; 39.	AIS (MMSI No 994403896).
17448 M 4272.57	-Pyoseon Hang.	33° 19.6' N 126° 50.8' E	Fl.G. period 4s	39 12	5	White round concrete tower; 30.	
17452 M 4272.7	-Kaeminpo, Got (Kama).	33° 18.1' N 126° 48.5' E	Fl.W. period 9s	52 16	8	White octagonal concrete tower; 39.	
17452.5 M 4272.71	Sinheung Hang.	33° 17.9' N 126° 46.1' E	Fl.(2)G. period 6s	39 12	5	White round structure; 30.	
17453 M 4272.73	Taeheung Hang.	33° 17.1' N 126° 45.1' E	Fl.G. period 6s	43 13	6	Red round metal tower; 26.	
17454 M 4272.75	-Taebonggot.	33° 16.7' N 126° 44.6' E	Fl.W. period 6s	43 13	8	White octagonal concrete tower; 39.	
17454.5 M 4272.78	Bang-iyeo.	33° 16.4' N 126° 43.2' E	Q.(6)+L.Fl.W. period 15s	56 17	6	S. CARDINAL YB, beacon, topmark; 72.	
17455.5 M 4272.95	--W. breakwater.	33° 16.1' N 126° 39.7' E	Fl.G. period 6s	56 17	8	White round concrete tower; 33.	
17456 M 4272.8	-Chigwi Do.	33° 13.6' N 126° 39.4' E	Fl.W. period 5s	56 17	9	Metal post; 39.	
	-RACON		Y(- • -)		10		(3 & 10cm).
17456.1 M 4272.958	Hahyo Hang, S. breakwater.	33° 14.8' N 126° 37.4' E	Fl.(2)G. period 6s	62 19	8	White round concrete tower; 41.	
17456.2 M 4272.955	-N. breakwater.	33° 14.8' N 126° 37.3' E	Fl.(2)R. period 6s	62 19	9	Red round concrete tower; 49.	
17457 M 4272.97	Pomongtong Hang, E. breakwater.	33° 14.3' N 126° 36.5' E	Fl.R. period 5s	39 12	5	Red round metal tower; 26.	
17467 M 4274.505	Seogwipo Oehang, breakwater.	33° 14.0' N 126° 34.0' E	Fl.R. period 4s	56 17	16	Red round concrete tower; 49. Floodlit.	
17468 M 4273	Nok Do.	33° 13.6' N 126° 34.0' E	Fl.W. period 6s	315 96	10	White round concrete tower; 31.	
17472 M 4274.52	Beophwan Hang, S. breakwater.	33° 14.2' N 126° 31.0' E	Fl.G. period 6s	39 12	5	White round metal structure; 26.	
17476.1 M 4274.55	Sebyeolgot.	33° 13.4' N 126° 28.7' E	Q.(3)W. period 10s	62 19	8	E. CARDINAL BYB, tower, topmark; 72.	AIS (MMSI No 994403898).
17477 M 4274.58	Hayejinhwang.	33° 13.9' N 126° 22.7' E	Fl.W. period 6s	72 22	8	White round concrete tower; 33.	
17478 M 4274.6	Daepyeong Hang.	33° 14.1' N 126° 21.7' E	Fl.(2)R. period 6s	39 12	8	Red round steel structure; 26.	
17480 M 4254	-Mara Do.	33° 07.0' N 126° 16.1' E	Fl.W. period 10s	167 51	26	White octagonal concrete tower; 36.	AIS (MMSI No 994403891). Siren: 1 bl. ev. 30s (bl. 5s, si. 25s).
	-RACON		M(- -)		10		(3 & 10cm).
17481 M 4252	Socotra Rock.	32° 07.4' N 125° 10.9' E	Mo.(U)W. period 15s	121 37	14	Helicopter platform.	100 miles SW. of Cheju Do.
	RACON		D(- • •)		35		(3 & 10cm).
17482 M 4254.2	Kap'a Hang, S. breakwater.	33° 09.9' N 126° 16.6' E	Fl.G. period 6s	36 11	8	White round tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17483 M 4254.3	Kwangpotan.	33° 10.4' N 126° 17.5' E	Fl.(2)W. period 5s	49 15	8	ISOLATED DANGER BRB, tower, topmark; 36.	
17483.5 M 4254.35	Gwabutan.	33° 10.5' N 126° 14.2' E	Fl.(2)W. period 10s	59 18	8	ISOLATED DANGER BRB, post, topmark; 62.	
17484 M 4254.6	-Mosulpo Hang, E. breakwater, head.	33° 12.8' N 126° 15.0' E	Fl.R. period 6s	49 15	11	Red round concrete tower; 33.	
17484.1 M 4254.355	Mosulpo Hang.	33° 12.4' N 126° 15.5' E	Fl.(2)G. period 6s	52 16	7	White round structure; 36.	
17488 M 4254.4	-W. breakwater, head.	33° 12.8' N 126° 15.0' E	Fl.G. period 5s	56 17	11	White round concrete tower; 33.	
17489 M 4254.9	Hwasun Hang, outer breakwater.	33° 13.9' N 126° 19.6' E	Fl.R. period 5s	79 24	11	Red round concrete tower; 49.	
17490 M 4254.8	Sagye Hang, breakwater.	33° 13.6' N 126° 18.4' E	Fl.R. period 6s	52 16	8	Red round concrete tower; 43.	
17496 M 4255	-Ch'agwi Do.	33° 18.7' N 126° 08.8' E	Fl.W. period 6s	220 67	8	White round concrete tower; 16.	Visible 332°-208°.
	-RACON		O(- - -)		10		(3 & 10cm).
17496.5 M 4255.15	Sindo.	33° 16.6' N 126° 10.1' E	Fl.R. period 6s	36 11	9	Red round metal post; 30.	
17497 M 4255.25	-Jejudo.	33° 18.8' N 126° 09.4' E	V.Q.(9)W. period 10s	52 16	7	W. CARDINAL YBY, beacon, topmark; 75.	
17498 M 4255.35	Yongsu.	33° 19.4' N 126° 09.8' E	Fl.G. period 6s	39 12	5	White round structure; 30.	
17500 M 4256	-Shingchang.	33° 20.7' N 126° 10.2' E	Fl.W. period 4s	62 19	8	White octagonal concrete tower; 36.	
17500.5 M 4256.2	Sinchang-ni, NE.	33° 21.0' N 126° 10.7' E	Fl.R. period 6s	43 13	5	Red round metal tower; 26.	
17500.6 M 4256.3	Dumo Hang, breakwater.	33° 21.4' N 126° 10.7' E	Fl.G. period 5s	43 13	8	White round metal tower; 30.	
17500.7 M 4256.15	Hangyeong, H.	33° 21.9' N 126° 10.1' E	Mo.(U)Y. period 8s	52 16	8	Yellow round steel pipe.	
17501 M 4256.5	Suyonggot.	33° 23.4' N 126° 13.4' E	Fl.W. period 6s	49 15	8		
17501.1 M 4256.4	Wollyeong Hang.	33° 22.8' N 126° 12.9' E	Fl.R. period 5s	36 11	8	Red round steel post; 28.	
17501.2 M 4259.5	-Hyeopjae Hang, breakwater.	33° 23.9' N 126° 14.5' E	Fl.G. period 4s	36 11	9	White round metal structure; 26.	
17502 M 4255.5	-Yongdang Sanggot.	33° 20.3' N 126° 09.6' E	Q.(9)W. period 15s	49 15	9	W. CARDINAL YBY, tower, topmark; 46.	AIS (MMSI No 994403900).
17503 M 4255.4	Yongsu.	33° 19.8' N 126° 09.0' E	Fl.(2)W. period 10s	52 16	8	ISOLATED DANGER BRB, tower, topmark; 30.	
17504 M 4258	Piyang-do.	33° 24.6' N 126° 13.6' E	Fl.W. period 6s	390 119	8	White round concrete tower; 16.	
	RACON		B(- • • •)		10		(3 & 10cm).
17505 M 4259	--S. end.	33° 24.2' N 126° 13.7' E	Q.(6)+L.Fl.W. period 15s	42 13	8	S. CARDINAL YB, tower, topmark; 39.	
17508 M 4257	-Sobiyo.	33° 25.2' N 126° 13.4' E	Q.W.	39 12	8	N. CARDINAL BY, tower, topmark; 33.	
17512 M 4263	-Hallim, N. breakwater, head.	33° 25.0' N 126° 15.1' E	Fl.G. period 5s	59 18	11	White round concrete tower; 49.	
17516 M 4262	--W. breakwater, head.	33° 24.9' N 126° 15.2' E	Fl.R. period 5s	43 13	11	Red round concrete tower; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17518 <i>M 4263.5</i>	-Unyongot.	33° 26.1' N 126° 15.8' E	Fl.W. period 5s	43 13	8	White round concrete tower; 33.	
17519 <i>M 4263.7</i>	Younguntong Hang, W. breakwater.	33° 26.3' N 126° 16.3' E	Fl.R. period 5s	36 11	8	Red round tower; 26.	
17519.5 <i>M 4263.9</i>	-Kwidok, 2-ri.	33° 26.8' N 126° 16.6' E	V.Q.W.	49 15	7	N. CARDINAL BY, tower, topmark; 52.	
17519.6 <i>M 4263.92</i>	-1-ri.	33° 26.9' N 126° 17.6' E	Fl.R. period 6s	46 14	5	Red round concrete tower; 56.	
17520 <i>M 4264</i>	-Kwideok.	33° 26.8' N 126° 17.5' E	Fl.W. period 6s	59 18	8	White round concrete tower; 42.	
17528 <i>M 4265.2</i>	Aewol Hang, N. breakwater.	33° 28.3' N 126° 19.8' E	Fl.R. period 5s	75 23	11	Red round concrete tower; 52.	
17528.5 <i>M 4265.3</i>	-E. breakwater.	33° 28.1' N 126° 19.7' E	Fl.G. period 5s	75 23	11	White round concrete tower; 61.	
17528.6 <i>M 4265.4</i>	Gonae Hang, breakwater.	33° 28.1' N 126° 20.3' E	Fl.(2)R. period 6s	30 9	5	Red round metal tower; 16.	
17528.62 <i>M 4265.43</i>	Sineom.	33° 28.4' N 126° 21.1' E	Fl.R. period 6s	36 11	6	Red round pillar; 30.	
17528.65 <i>M 4265.45</i>	Gueom Hang, breakwater.	33° 29.1' N 126° 22.5' E	Fl.G. period 6s	33 10	8	White round metal tower; 30.	
17528.7 <i>M 4265.5</i>	Gamundong Hang.	33° 29.2' N 126° 23.6' E	Fl.R. period 5s	36 11	9	Red round metal tower; 26.	
17528.8 <i>M 4265.55</i>	Ihohyeonsa.	33° 29.9' N 126° 27.0' E	Fl.(2)R. period 6s	36 11	5	Red round pillar; 30.	
17529 <i>M 4278.3</i>	Milmae Do.	34° 15.0' N 126° 19.8' E	Fl.W. period 4s	177 54	8	White round concrete tower; 36.	AIS (MMSI No 994402996).
17530 <i>M 4278.2</i>	Juggul Do (Chukkul do).	34° 14.0' N 126° 25.2' E	Fl.W. period 6s	167 51	8	White round concrete tower; 37.	Visible 351°-345°.
17531 <i>M 4278.15</i>	Seoneob Do.	34° 11.4' N 126° 28.4' E	Fl.W. period 4s	167 51	8	White round concrete tower; 36.	Visible 351°-237°.
17531.5 <i>M 4279.37</i>	Hugil-to.	34° 16.5' N 126° 32.4' E	Fl.W. period 5s	46 14	8	White round concrete tower; 30.	
17532 <i>M 4278</i>	Oryong Do.	34° 17.2' N 126° 28.4' E	Fl.W. period 15s	305 93	21	White octagonal concrete tower; 20.	AIS (MMSI No 994403003). Horn: 1 bl. ev. 40s (bl. 5s, si. 35s).
	RACON		O(---)		10		(3 & 10cm).
17533.5 <i>M 4279.36</i>	Galdu Hang.	34° 18.0' N 126° 31.9' E	Fl.G. period 5s	46 14	5	White four-sided concrete tower; 36.	
17534 <i>M 4279.35</i>	Yangdo.	34° 17.9' N 126° 30.5' E	Fl.W. period 4s	75 23	8		Visible 310°-150°.
17535 <i>M 4278.8</i>	Eobuldo.	34° 19.9' N 126° 28.4' E	Fl.(3)W. period 7s	52 16	8	White octagonal metal tower; 30.	
17536 <i>M 4279</i>	Oran-ni.	34° 20.9' N 126° 28.4' E	Fl.G. period 6s	36 11	5	White round concrete tower; 30.	
17540 <i>M 4279.3</i>	Sang ma Do.	34° 27.3' N 126° 25.0' E	Fl.(2)W. period 6s	157 48	8	White round concrete structure; 16.	
17544 <i>M 4278.4</i>	Guja Do (Ku-do).	34° 19.3' N 126° 18.1' E	Fl.(2)W. period 6s	138 42	8	White round concrete tower; 26.	
17546 <i>M 4246.505</i>	Marohaе.	34° 21.6' N 126° 12.8' E	Fl.W. period 5s	69 21	8	White hexagonal metal tower; 26.	
17548 <i>M 4243</i>	Tokko-do.	34° 15.7' N 126° 11.0' E	Fl.W. period 6s	223 68	8	White round concrete tower; 10.	AIS (MMSI No 994402997).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17549 <i>M 4242.6</i>	Poksacho.	34° 05.8' N 126° 10.0' E	Fl.(2)W. period 10s	59 18	10	ISOLATED DANGER BRB, beacon, topmark; 95.	AIS (MMSI No 994403005).
	RACON		K(- • -)		10		(3 & 10cm).
17551.8 <i>M 4247.6</i>	Turyang-do.	34° 21.1' N 125° 53.9' E	Fl.(2)W. period 10s	39 12	8	ISOLATED DANGER BRB, tower, topmark; 39.	
17552 <i>M 4247.5</i>	Nulog Do (Nurok-to), SE. end.	34° 20.7' N 125° 57.5' E	Fl.W. period 4s	43 13	8	White round concrete tower; 30.	
17553 <i>M 4231.2</i>	Oemyeondo.	34° 43.9' N 126° 02.8' E	Fl.(2)W. period 6s	56 17	8	White round concrete tower; 36.	
17554 <i>M 4247.7</i>	Oebyeong Do.	34° 22.7' N 125° 56.4' E	Fl.W. period 10s	267 81	18	White octagonal concrete tower; 34.	Visible 068°-264°.
17556 <i>M 4246</i>	Hajo Do.	34° 18.7' N 126° 05.3' E	Fl.W. period 10s	157 48	26	White round concrete tower; 46.	Visible 130°-336°. AIS (MMSI No 994402992). Siren: 1 bl. ev. 55s (bl. 5s, si. 50s).
17557 <i>M 4246.8</i>	Dang Dan.	34° 19.1' N 126° 02.9' E	Fl.(2)W. period 5s	36 11	8	ISOLATED DANGER BRB, tower, topmark; 36.	
17558 <i>M 4246.5</i>	Pulmu Do.	34° 19.5' N 126° 10.1' E	Fl.W. period 4s	148 45	8	White round concrete tower; 33.	
17559 <i>M 4246.51</i>	Hangando.	34° 19.2' N 126° 07.8' E	Fl.(2)W. period 6s	105 32	8	White octagonal concrete tower; 26.	
	RACON		N(- •)		10		(3 & 10cm).
17559.5 <i>M 4246.52</i>	Changjukto.	34° 21.0' N 126° 06.5' E	Fl.W. period 6s	59 18	8	White octagonal concrete tower; 26.	
17560 <i>M 4247</i>	Semog.	34° 18.6' N 126° 01.4' E	Fl.W. period 4s	56 17	8	White round concrete tower; 26.	Visible 018°-073° and 146°-215°. Radar reflector.
17561 <i>M 4249.6</i>	Taema-Do.	34° 17.3' N 125° 59.3' E	Q.(6)+L.Fl.W. period 15s	33 10	8	S. CARDINAL YB, tower, topmark; 25.	
17562 <i>M 4249.8</i>	Haesu So.	34° 16.0' N 126° 01.5' E	Fl.(2)W. period 10s	36 11	8	ISOLATED DANGER BRB, tower, topmark; 36.	
17563 <i>M 4249.7</i>	Koma-do.	34° 13.7' N 125° 59.5' E	Fl.W. period 4s	164 50	9	White round concrete tower; 33.	Visible 090°-045°.
17564 <i>M 4249</i>	Seogeocho Do.	34° 15.4' N 125° 55.5' E	Fl.W. period 6s	98 30	8	White round concrete tower; 19.	
17568 <i>M 4249.2</i>	-Seogeocho. Do Hang, E. breakwater.	34° 14.9' N 125° 55.0' E	Fl.R. period 4s	46 14	5	Red round concrete tower; 28.	
17572 <i>M 4249.4</i>	--W. breakwater.	34° 14.8' N 125° 54.9' E	Fl.G. period 4s	46 14	5	White round concrete tower; 28.	
17576 <i>M 4248</i>	Chuk-to.	34° 13.5' N 125° 50.8' E	Fl.W. period 10s	279 85	26	White round concrete tower; 28.	Visible 350°-323°. AIS (MMSI No 994402998). Horn: 1 bl. ev. 30s (bl. 5s, si. 25s).
	RACON		Z(- - • •) period 65s		10		(3 & 10cm).
17577 <i>M 4248.5</i>	Pyonso.	34° 11.7' N 125° 49.5' E	Fl.(2)W. period 5s	49 15	8	ISOLATED DANGER BRB, tower, topmark; 62.	
17580 <i>M 4250</i>	Pyongp'ung - do.	34° 08.6' N 125° 56.7' E	Fl.W. period 6s	154 47	8	White round concrete tower; 30.	AIS (MMSI No 994402995).
17581 <i>M 4246.6</i>	Somang Hang, S. breakwater.	34° 21.9' N 126° 07.9' E	Fl.(2)R. period 6s	49 15	5	Red round concrete tower; 33.	
17581.5 <i>M 4246.65</i>	-N. breakwater.	34° 21.9' N 126° 07.8' E	Fl.G. period 6s	49 15	5	White round concrete tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17581.7 <i>M 4247.8</i>	Songnamdo.	34° 23.6' N 126° 03.2' E	Fl.W. period 4s	43 13	8	White round concrete tower; 26.	
17581.8 <i>M 4246.55</i>	Chindo.	34° 24.3' N 126° 05.8' E	Fl.(2)W. period 6s	36 11	8	White round concrete tower; 23.	
17582 <i>M 4232.6</i>	Pulto.	34° 26.4' N 126° 03.8' E	Fl.W. period 6s	171 52	8	White round concrete tower; 33.	Visible 202°-086°.
	RACON		B(- • • •)		10		(3 & 10cm).
17583 <i>M 4233</i>	Kalduri.	34° 28.7' N 126° 07.4' E	Fl.(2)W. period 10s	46 14	8	Black concrete tower, red band; 43.	
17584 <i>M 4232</i>	Kasa Do.	34° 27.6' N 126° 02.6' E	Fl.W. period 15s	249 76	27	White octagonal concrete tower; 56.	AIS (MMSI No 994402993). Horn: 1 bl. ev. 45s (bl. 5s, si. 40s).
17585 <i>M 4247.81</i>	Kadokdo.	34° 27.1' N 126° 00.1' E	Fl.(2)W. period 6s	36 11	8	White round concrete tower; 26.	
17586 <i>M 4235</i>	Chisi Do.	34° 31.8' N 126° 00.9' E	Fl.W. period 6s	165 50	8	White round concrete tower; 33.	Visible 269°-143°.
17586.5 <i>M 4228.4</i>	Neolbeunyeo.	34° 33.7' N 126° 01.8' E	Fl.R. period 6s	62 19	8	STARBOARD (B) R, tower, topmark; 59.	
17587 <i>M 4228.6</i>	Shindo.	34° 35.7' N 125° 57.5' E	Fl.W. period 5s	59 18	8	White round concrete tower; 26.	
17587.5 <i>M 4234.5</i>	Gwangdaedo.	34° 31.9' N 126° 06.3' E	Fl.W. period 5s	108 33	8	White round concrete tower; 43.	Visible 040°-310°.
17588 <i>M 4228.5</i>	Bi Do (Pi-do).	34° 34.1' N 125° 54.7' E	Fl.(2)W. period 6s	95 29	8	White round concrete tower; 30.	
17589 <i>M 4231.6</i>	Jangbyeongdo.	34° 40.1' N 126° 02.8' E	Fl.W. period 6s	52 16	8	White round concrete tower; 36.	
17592 <i>M 4234</i>	Cho Do, NW. Point.	34° 30.6' N 126° 09.7' E	Fl.(2)W. period 6s	36 11	8	White round concrete tower; 26.	Visible 036°-248°.
17593 <i>M 4234.6</i>	To-so.	34° 31.5' N 126° 04.5' E	Fl.(2)W. period 5s	46 14	9	ISOLATED DANGER BRB, tower, topmark; 36.	AIS (MMSI No 994402984).
17594 <i>M 4234.8</i>	Man-so.	34° 30.4' N 126° 02.2' E	Fl.(2)W. period 10s	52 16	9	ISOLATED DANGER BRB, tower, topmark; 46.	
17595 <i>M 4236.5</i>	Majindo.	34° 36.1' N 126° 12.7' E	Fl.(2)W. period 5s	43 13	8	ISOLATED DANGER BRB, tower, topmark; 56.	AIS (MMSI No 994403009).
17596 <i>M 4236</i>	Ku Do, on small islet S. of Yul To.	34° 34.1' N 126° 11.9' E	Fl.W. period 4s	95 29	8	White round stone tower; 23.	AIS (MMSI No 994402972).
17598 <i>M 4240</i>	Chindo Bridge.	34° 34.3' N 126° 18.3' E	F.W.	65 20	7	White round daymark, red stripes.	F.G. 18m 4M and F.R. 18m 4M mark width of nvgable span.
17600 <i>M 4241</i>	Nog Do, SW. end of island.	34° 33.6' N 126° 19.3' E	Fl.W. period 4s	89 27	8	White round concrete tower; 26.	AIS (MMSI No 994402999).
17604 <i>M 4242</i>	Pangt'an Rock.	34° 33.5' N 126° 20.6' E	Fl.R. period 4s	43 13	5	STARBOARD (B) R, tower, topmark; 43.	
17608 <i>M 4238</i>	Imha Do.	34° 36.8' N 126° 15.6' E	Fl.(2)W. period 6s	69 21	8	White round concrete tower; 20.	Visible 323°-180°.
17612 <i>M 4237</i>	Changdo.	34° 37.4' N 126° 13.2' E	Fl.W. period 6s	102 31	8	White round concrete tower; 30.	AIS (MMSI No 994402973).
	RACON		M(- -)		10		(3 & 10cm).
17614 <i>M 4235</i>	Chi Do.	34° 40.2' N 126° 12.6' E	Fl.W. period 6s	157 48	8	White round concrete tower; 33.	Visible 269°-143°.
17615 <i>M 4219.5</i>	Bokhocho.	34° 41.9' N 126° 10.4' E	Fl.G. period 5s	46 14	7	PORT (B) G, tower, topmark; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17616 M 4220	Siha Do.	34° 42.0' N 126° 14.5' E	Fl.W. period 12s	128 39	22	White round concrete tower; 26.	Visible 350°-213°. AIS (MMSI No 994402968). Horn: 1 bl. ev. 35s (bl. 5s, si. 30s).
17616.5 M 4220.5	Daepotan.	34° 41.6' N 126° 12.8' E	Q.(3)W. period 10s	43 13	8	E. CARDINAL BYB, beacon, topmark; 33.	
17617 M 4219	Chungsando.	34° 42.6' N 126° 11.5' E	Fl.W. period 6s	43 13	8	White octagonal concrete tower; 26.	
17620 M 4215	Pyon Do.	34° 45.2' N 126° 10.4' E	Fl.R. period 4s	52 16	8	STARBOARD (B) R, tower, topmark; 39.	Visible 110°-330°. AIS (MMSI No 994402971).
	RACON		G(- - •) period 30s		10		(3cm).
17621 M 4216.9	Pulmugi-do.	34° 45.6' N 126° 13.4' E	Fl.W. period 5s	105 32	10	White four-sided concrete tower; 36.	
	RACON		Z(- - • •)		10		(3 & 10cm).
17622 M 4217.2	Oedalto Island.	34° 46.6' N 126° 17.4' E	Q.(9)W. period 15s	49 15	8	W. CARDINAL YBY, tower, topmark; 59.	
17623 M 4217.38	Maek-to, SW.	34° 47.3' N 126° 19.0' E	Fl.(2)W. period 6s	49 15	8	White octagonal concrete tower; 43.	AIS (MMSI No 994402981).
17624 M 4217	Hwawon Bando.	34° 45.7' N 126° 17.8' E	Fl.W. period 5s	121 37	20	White round concrete structure; 118.	Visible 092°-296°. AIS (MMSI No 994402960). Horn: 1 bl. ev. 30s (bl. 5s, si. 25s).
17625 M 4217.7	-E.	34° 45.0' N 126° 19.0' E	Fl.W. period 6s	46 14	10	White round concrete tower; 26.	Visible 127°-304°.
17626 M 4217.6	Tallido.	34° 45.6' N 126° 19.1' E	Fl.(2)W. period 6s	49 15	8	White octagonal concrete tower; 23.	Visible 104°-245°.
17626.1 M 4217.462	Fishing wharf, E. end.	34° 48.4' N 126° 21.8' E	Fl.(2)G. period 6s	26 8	6	White round metal tower; 33.	
17626.2 M 4217.46	-W. end.	34° 48.4' N 126° 21.8' E	Fl.(2)R. period 6s	26 8	5	Red round metal tower; 33.	
17626.8 M 4217.451	Buk Hang, breakwater, W. end.	34° 48.4' N 126° 21.5' E	Fl.(2)G. period 6s	36 11	7	White metal post; 33.	
17626.9 M 4217.452	--E. end.	34° 48.4' N 126° 21.6' E	Fl.(4)Y. period 8s	36 11	7	Yellow metal post; 33.	
17627 M 4217.5	Changjiwa-do.	34° 46.9' N 126° 20.3' E	Fl.W. period 5s	46 14	10	White octagonal concrete tower; 46.	Visible 207°-135°.
17627.1 M 4217.41	Udo.	34° 47.4' N 126° 20.0' E	Fl.G. period 6s	46 14	9	Green round concrete tower, green square daymark; 43.	
17627.3 M 4217.455	Buk Hang, breakwater, N. end.	34° 48.3' N 126° 21.6' E	Fl.G. period 6s	59 18	8	White steel windmill; 39.	
17627.4 M 4217.45	--S. end.	34° 48.2' N 126° 21.5' E	Fl.R. period 6s	59 18	9	Red steel windmill; 39.	
17627.5 M 4217.47	Mokpobuk Hang, W. pier.	34° 47.8' N 126° 21.0' E	Fl.(4)Y. period 8s	43 13	8	Yellow concrete tower; 33.	
17627.51 M 4217.471	-E. pier.	34° 47.8' N 126° 21.0' E	Fl.(4)Y. period 8s	43 13	8	Yellow concrete tower; 33.	
17627.6 M 4217.48	Mokpo Bridge.	34° 47.3' N 126° 21.3' E	F.W.	174 53	7		F.G. 53m 8M and F.R. 53m 8M mark width of navigable span.
17627.7 M 4217.8	Mokpo Hang Bridge.	34° 45.1' N 126° 21.9' E	F.W.	33 10	7	White round daymark, white stripes.	F.G. 8m 4M and F.R. 8m 5M mark width of navigable span.
17627.8 M 4217.79	Yeong Am.	34° 45.0' N 126° 21.9' E	Fl.G. period 4s	45 14	9	White round metal pipe.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17628 <i>M 4218</i>	Monghado.	34° 46.1' N 126° 22.7' E	Fl.W. period 4s	98 30	8	White fiberglass structure, concrete base; 49.	
17628.5 <i>M 4218.1</i>	-No 2 Wharf, Pontoon.	34° 46.9' N 126° 23.3' E	Fl.(2)R. period 6s	20 6	6	Red metal pipe; 13.	
17628.7 <i>M 4218.13</i>	Mokponam Hang.	34° 47.0' N 126° 24.6' E	Fl.G. period 4s	33 10	8	White round metal column; 26.	
17628.8 <i>M 4218.15</i>	Madangyeo.	34° 47.0' N 126° 24.9' E	Fl.G. period 4s	72 22	8	Green round concrete tower; 79.	
17629 <i>M 4218.2</i>	Tabul Hang A.	34° 46.8' N 126° 25.9' E	Fl.(4)Y. period 8s	30 9	7	Yellow round fiberglass tower; 16.	
17629.5 <i>M 4218.25</i>	-B.	34° 46.8' N 126° 25.8' E	Fl.Y. period 6s	30 9	7	Yellow round fiberglass tower; 16.	
17630 <i>M 4218.3</i>	Tongyang dolphin A.	34° 46.7' N 126° 25.6' E	Fl.(2)Y. period 6s	30 9	7	Yellow round pipe; 16.	Horn: 1 bl. ev. 20s (bl. 5s, si. 15s).
17630.5 <i>M 4218.35</i>	-B.	34° 46.7' N 126° 25.7' E	Fl.Y. period 4s	30 9	7	Yellow round pipe; 16.	
17632 <i>M 4215.5</i>	Hanaptokto.	34° 48.4' N 126° 12.8' E	Fl.W. period 6s	85 26	8	White round concrete tower; 30.	AIS (MMSI No 994402978).
17633 <i>M 4215.7</i>	Amchido.	34° 49.9' N 126° 09.8' E	Fl.(2)W. period 5s	40 12	8	ISOLATED DANGER BRB, beacon, topmark; 39.	
17634 <i>M 4215.8</i>	Songgong Hang, breakwater.	34° 50.9' N 126° 13.5' E	Fl.(4)Y. period 8s	43 13	8	White round metal tower; 26	
17636 <i>M 4216</i>	Amtae Do, E. extremity of island.	34° 52.0' N 126° 09.4' E	Fl.W. period 4s	125 38	8	White round brick tower; 23.	Visible 144°-339°.
17638 <i>M 4216.1</i>	Jaewondo.	34° 53.7' N 126° 09.1' E	Fl.(2)W. period 5s	56 17	9	ISOLATED DANGER BRB, beacon, topmark; 33.	
17639 <i>M 4216.6</i>	Soakdo.	34° 55.7' N 126° 11.2' E	Q.(9)W. period 15s	46 14	7	W. CARDINAL YBY, beacon, topmark; 36.	
17640 <i>M 4216.5</i>	Chaun-do.	34° 55.3' N 126° 05.4' E	Fl.(2)W. period 6s	112 34	8	White round concrete tower; 30.	
17641 <i>M 4216.2</i>	Haeso.	34° 53.8' N 126° 07.0' E	Q.W.	26 8	8	N. CARDINAL BY, tower, topmark; 25.	
17642 <i>M 4217.5</i>	Hwangdo.	34° 55.6' N 126° 09.2' E	Fl.W. period 5s	39 12	8	White octagonal concrete tower; 46.	Visible 207°-135°.
17642.5 <i>M 4230.2</i>	Pigum-Toch'odo Bridge.	34° 43.1' N 125° 56.3' E	F.W.	79 24	8	White round daymark, red stripe.	F.G. 22m 8M, F.R. 22m 7M and F.Y. 3m 7M mark width of navigable span.
17643 <i>M 4230</i>	Daegog Do.	34° 42.5' N 125° 54.4' E	Fl.(2)W. period 6s	115 35	8	White round concrete tower; 26.	AIS (MMSI No 994402974).
	RACON		X(- • • -)		10		(3 & 10cm).
17643.1 <i>M 4210.8</i>	Oegalto.	34° 59.8' N 126° 05.3' E	Fl.W. period 5s	108 33	8	White round concrete tower; 26.	Visible 328°-208°. AIS (MMSI No 994402979).
17643.2 <i>M 4215.75</i>	Seondo.	34° 57.9' N 126° 15.1' E	Q(6)+L.Fl.W. period 15s	46 14	8	S. CARDINAL YB, beacon, topmark; 46.	
17643.5 <i>M 4216.8</i>	Pyongpungdo.	34° 59.1' N 126° 11.8' E	Fl.(2)W. period 5s	36 11	8	ISOLATED DANGER BRB, beacon, topmark; 36.	
17644 <i>M 4211</i>	Odo.	34° 56.7' N 125° 57.4' E	Fl.W. period 4s	236 72	8	White round concrete tower; 36.	
17644.2 <i>M 4211.2</i>	Jasonyeo.	35° 01.4' N 125° 51.7' E	Q.W.	69 21	8	N. CARDINAL BY, tower, topmark; 36.	
17644.5 <i>M 4229.8</i>	Changgu-so.	34° 43.7' N 125° 52.6' E	Fl.W. period 6s	62 19	8	White round concrete tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17645 <i>M 4229.5</i>	Pokto.	34° 42.2' N 125° 50.2' E	Fl.(2)W. period 10s	52 16	8	Black round concrete tower, red band; 33.	AIS (MMSI No 994402986).
	RACON		O(---) period 30s		10		(3 & 10cm).
17646 <i>M 4228.8</i>	Uido.	34° 37.3' N 125° 48.2' E	Fl.W. period 5s	272 83	15	White round concrete tower; 26.	Visible 345°-156°. AIS (MMSI No 994402980).
17648 <i>M 4229</i>	Kyongchi Do.	34° 39.1' N 125° 53.7' E	Fl.W. period 4s	154 47	8	White round concrete tower; 30.	Visible 120°-061°.
17649 <i>M 4229.1</i>	Chongdar-am.	34° 39.1' N 125° 55.5' E	Fl.(2)W. period 5s	26 8	8	ISOLATED DANGER BRB, tower, topmark; 59.	AIS (MMSI No 994402987).
17650 <i>M 4230.8</i>	-Touch'ado.	34° 44.2' N 125° 57.7' E	Fl.W. period 6s	45 14	8	White octagonal concrete tower; 26.	
17652 <i>M 4213</i>	Sangsuchi Do.	34° 46.0' N 126° 01.1' E	Fl.(2)W. period 6s	121 37	8	White round concrete tower; 26.	Visible 018°-299°. AIS (MMSI No 994402975).
17656 <i>M 4231</i>	Jeung Do.	34° 44.4' N 125° 59.2' E	Fl.W. period 4s	49 15	8	White round concrete tower; 26.	Visible 085°-307°.
	RACON		K(- • -) period 30s		10		(3cm).
17657 <i>M 4231.4</i>	Suchido.	34° 43.4' N 126° 01.1' E	Fl.W. period 6s	55 17	8	White round concrete tower; 36.	Visible 280°-156°.
17657.1 <i>M 4231.3</i>	Mado.	34° 43.3' N 126° 00.6' E	Fl.W. period 5s	52 16	8	White round concrete tower; 39.	
17658 <i>M 4231.5</i>	Migido.	34° 41.0' N 126° 00.9' E	Fl.W. period 4s	66 20	8	White concrete tower; 49.	
17660 <i>M 4213.5</i>	Samdo.	34° 46.3' N 126° 03.0' E	Fl.W. period 4s	49 15	8	White round concrete tower; 30.	AIS (MMSI No 994402982).
17661 <i>M 4213.8</i>	Sangsachi Do.	34° 46.2' N 126° 03.8' E	Q.(9)W. period 15s	43 13	10	W. CARDINAL YBY, tower, topmark; 43.	
17664 <i>M 4214</i>	P'algun Do.	34° 47.3' N 126° 05.0' E	Fl.W. period 6s	59 18	8	White round concrete tower; 20.	Visible 296°-206°. AIS (MMSI No 994402965).
17664.1 <i>M 4214.3</i>	P'algun Do/Amt'ae Do, bridge.	34° 48.0' N 126° 07.2' E	F.W.	62 19	7		One each side.
17664.5 <i>M 4214.4</i>	Wonsan Hang.	34° 46.8' N 126° 07.2' E	Fl.W. period 4s	33 10	10	White round steel pipe; 25.	
17665 <i>M 4214.5</i>	Somajindo.	34° 46.6' N 126° 07.1' E	Fl.W. period 4s	45 14	8	White octagonal concrete tower; 30.	
17665.5 <i>M 4214.7</i>	Sinan bridge, center span.	34° 46.1' N 126° 07.8' E	F.W.	82 25	7	White round daymark, red stripe.	F.G. 23m 4M, F.R. 23m 4M and F.Y. 4m 6M mark width of navigable span.
17666 <i>M 4211.5</i>	Chinso Mal.	34° 52.5' N 125° 58.1' E	Fl.W. period 5s	197 60	18	White round concrete tower; 33.	Visible 335°-216°. AIS (MMSI No 994402967).
17668 <i>M 4212.5</i>	Use Do.	34° 47.5' N 125° 54.5' E	Fl.W. period 4s	222 68	8	White round concrete tower; 30.	
17668.1 <i>M 4212.55</i>	Usedo, SE.	34° 47.2' N 125° 54.7' E	Q.(6)+L.Fl.W. period 15s	43 13	8	S. CARDINAL YB, beacon, topmark; 33.	
17669 <i>M 4212.7</i>	Wonpy'ong Hang, W. breakwater.	34° 46.9' N 125° 54.6' E	Fl.(2)R. period 6s	45 14	5	Red round concrete tower; 30.	Visible 125°-235°.
17670 <i>M 4212.8</i>	-E. breakwater.	34° 46.9' N 125° 54.7' E	Fl.(2)G. period 6s	31 9	5	White round concrete tower; 30.	
17672 <i>M 4212</i>	Ch'ilbal Do.	34° 47.3' N 125° 47.3' E	Fl.W. period 15s	345 105	18	White round concrete tower; 33.	AIS (MMSI No 994402963).
	RACON		B(- • •) period 60s		10		(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17676 M 4225	Hajuk To.	34° 45.8' N 125° 26.5' E	Fl.W. period 5s	328 100	18	White round concrete tower; 20.	
17678 M 4222.5	Hojangdo.	34° 43.0' N 125° 24.4' E	Fl.W. period 10s	256 78	18	White round concrete tower; 26.	Visible 011°-280°.
17679 M 4222.1	Pulgun-yo.	34° 42.4' N 125° 28.1' E	Q.W.	39 12	8	N. CARDINAL BY, beacon, topmark; 36.	
17680 M 4224	Ka Do.	34° 42.2' N 125° 27.8' E	Fl.(2)W. period 6s	213 65	8	White round concrete tower; 20.	Visible 347°-311°. AIS (MMSI No 994402970).
	RACON		C(- • - •) period 30s		10		(3cm).
17682 M 4223.3	Taehuksan Do, S. breakwater.	34° 41.7' N 125° 26.7' E	Fl.(2)G. period 6s	43 13	5	White octagonal concrete tower; 26.	
17683 M 4223.4	-N. breakwater.	34° 41.8' N 125° 26.5' E	Fl.(2)R. period 6s	43 13	5	Red square metal framework tower; 27.	
17684 M 4223	Taehuksan Do, inner breakwater.	34° 41.3' N 125° 26.5' E	Fl.G. period 4s	39 12	10	White round metal column; 43.	
17688 M 4223.5	Yongsan Do (Taehand-do).	34° 39.3' N 125° 28.7' E	Fl.W. period 4s	167 51	18	White round concrete tower; 36.	Visible 106°-020°.
17692 M 4225.5	Kyomaek To (Maemulda).	34° 31.4' N 125° 41.2' E	Fl.W. period 10s	420 128	16	White fiberglass tower; 19.	Visible 225°-175°. AIS (MMSI No 994402969).
	RACON		M(- -)		10		(3 & 10cm).
17694 M 4223.8	Taehuksan Do.	34° 38.6' N 125° 23.1' E	Fl.W. period 6s	154 47	8	White hexagonal metal tower; 20.	
17695 M 4223.9	Taejangdo, Songammal.	34° 40.0' N 125° 22.2' E	Fl.W. period 4s	75 23	8	White metal pipe; 26.	
17696 M 4222	Hong-do.	34° 42.6' N 125° 12.1' E	Fl.(3)W. period 20s	291 89	24	White square concrete tower; 33.	Visible 035°-039° and 044°- 237°. AIS (MMSI No 994402962). Siren: 1 bl. ev. 50s (bl. 5s, si. 45s).
17697 M 4222.2	-Chuk Hang.	34° 40.8' N 125° 12.1' E	Fl.(2)W. period 6s	98 30	8	White round concrete tower; 26.	Visible 220°-040°.
	-RACON		Y(- • - -) period 30s		10		(3cm).
17700 M 4226	Hat'ae Do.	34° 23.7' N 125° 17.9' E	Fl.W. period 6s	105 32	21	White round concrete tower; 13.	Visible 116°-308°.
17704 M 4228	Manjae Do.	34° 12.8' N 125° 28.2' E	Fl.W. period 5s	640 195	16	White round concrete tower; 16.	
17708 M 4227	Gageodo.	34° 05.7' N 125° 05.9' E	Fl.W. period 15s	276 84	27	White round stone tower; 25.	Visible 032°-149° and 153°- 268°. AIS (MMSI No 994402961). Horn: 1 bl. ev. 60s (bl. 5s, si. 55s).
17709 M 4227.2	Kagodo-ri.	34° 02.9' N 125° 07.4' E	Fl.R. period 5s	49 15	5	Red round concrete tower; 23.	
17710 M 4227.4	-Mulsogmal.	34° 03.2' N 125° 08.6' E	Fl.W. period 10s	512 156	18	White octagonal fiberglass tower; 20.	
17712 M 4210	Taerorok To.	35° 06.2' N 125° 59.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	236 72	18	White round concrete tower; 23.	Visible 159°-035° and 046°- 077°. AIS (MMSI No 994402976).
17713 M 4210.5	Naedo.	35° 01.2' N 126° 12.5' E	Q.(9)W. period 15s	16 5	8	W. CARDINAL YBY, beacon, topmark; 16.	
17713.5 M 4209.6	Mok-som.	35° 10.5' N 126° 20.5' E	Fl.W. period 6s	79 24	8	White octagonal concrete tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17714 M 4210.3	Sambongdan.	35° 08.7' N 126° 09.8' E	Fl.W. period 4s	59 18	7	White octagonal concrete tower; 49.	Visible 202°-035°.
17715 M 4210.25	Jeonjangpo.	35° 08.2' N 126° 09.0' E	Fl.(2)W. period 5s	43 13	8	ISOLATED DANGER BRB, beacon, topmark; 52.	
17716 M 4209	Anma Do.	35° 20.2' N 125° 59.3' E	Fl.W. period 10s	279 85	18	White concrete column; 16.	Visible 333°-338° and 350°- 199°. AIS (MMSI No 994402964).
17718 M 4208.2	Kyema Hang, groin.	35° 23.3' N 126° 24.3' E	Fl.R. period 5s	39 12	9	Red octagonal concrete tower; 26.	
17718.5 M 4208.21	-Breakwater.	35° 23.4' N 126° 24.2' E	Fl.G. period 5s	46 14	8	White octagonal concrete tower; 26.	AIS (MMSI No 994402983).
17720 M 4208	Popsong , N. side of entrance.	35° 22.6' N 126° 24.7' E	Fl.W. period 4s	230 70	21	White concrete column; 16.	Visible 049°-159°.
17721 M 4209.2	Anma Hang, S. breakwater.	35° 20.7' N 126° 00.6' E	Fl.R. period 5s	49 15	5	Red round concrete tower; 33.	
17722 M 4209.4	-N. breakwater.	35° 20.7' N 126° 00.5' E	Fl.G. period 5s	52 16	5	Red round concrete tower; 33.	
17726 M 4207	Koryundo.	35° 34.4' N 126° 14.4' E	Fl.W. period 6s	115 35	8	White square concrete tower; 36.	
17726.5 M 4207.2	Pejam-yo.	35° 35.8' N 126° 13.7' E	Fl.(2)W. period 5s	49 15	8	Black round concrete tower, red band; 52.	
17727 M 4206.7	Kalmaeyo.	35° 37.1' N 126° 14.6' E	Fl.(2)W. period 10s	46 14	8	ISOLATED DANGER BRB, tower, topmark; 56.	
17727.5 M 4206.95	Taeri Hang, breakwater, head.	35° 34.2' N 126° 16.1' E	Fl.G. period 6s	43 13	9	White round concrete tower; 26.	
17727.6 M 4206.955	Wido.	35° 34.0' N 126° 16.0' E	Fl.W. period 4s	72 22	8	White round concrete tower; 33.	
17728 M 4206.89	Wi Do, on Pajanggeum Hang, breakwater.	35° 37.2' N 126° 18.1' E	Fl.(2)G. period 6s	43 13	9	White round tower; 28.	AIS (MMSI No 994403657).
	RACON		B(- • • •) period 20s		10		(3 & 10cm).
17729 M 4206.9	-Pajanggeum Hang, groin.	35° 37.2' N 126° 18.0' E	Fl.(2)R. period 6s	39 12	9	Red round concrete tower; 27.	
17731 M 4207.3	Heukseo.	35° 37.1' N 126° 21.8' E	Fl.(2)W. period 5s	66 20	8	ISOLATED DANGER BRB, beacon, topmark; 39.	Visible 223°-213°. AIS (MMSI No 994403658).
17732 M 4207.4	-Changun So.	35° 35.0' N 126° 23.8' E	Fl.(2)W. period 10s	49 15	8	ISOLATED DANGER BRB, beacon, topmark; 46.	
17733 M 4206.83	-Kokunsan Kundo.	35° 39.2' N 126° 24.5' E	Fl.(2)W. period 5s	56 17	8	ISOLATED DANGER BRB, beacon, topmark; 46.	
17736 M 4207.5	-Kaesom.	35° 36.0' N 126° 28.0' E	Fl.W. period 5s	56 17	8	White round fiberglass structure; 20.	
17736.5 M 4207.55	Mohang Hang.	35° 34.8' N 126° 30.7' E	Fl.G. period 6s	36 11	9	Green round concrete tower; 29.	
17737 M 4207.65	Kyongpo Hang, N. breakwater.	35° 37.3' N 126° 27.7' E	Fl.G. period 6s	56 17	8	White round concrete tower; 33.	
17738 M 4207.6	-S. breakwater, head.	35° 37.3' N 126° 27.8' E	Fl.R. period 6s	59 18	8	Red round concrete tower; 33.	AIS (MMSI No 994403656).
17744 M 4206.6	Sangwangdung Do.	35° 39.7' N 126° 06.4' E	Fl.W. period 5s	584 178	12	White round concrete tower; 13.	AIS (MMSI No 994403654).
17746.5 M 4206.85	Pian-do.	35° 43.6' N 126° 27.6' E	Fl.W. period 6s	56 17	8	White round concrete tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17748 <i>M 4206</i>	Maldo.	35° 51.5' N 126° 18.9' E	Fl.W. period 10s	197 60	26	White octagonal concrete tower; 85.	Visible 324°-276°. AIS (MMSI No 994403664). Siren: 1 bl. ev. 55s (bl. 5s, si. 50s). Storm signal.
	RACON		C(- • - •)		10		(3 & 10cm).
17749 <i>M 4206.1</i>	-W. breakwater.	35° 51.2' N 126° 19.0' E	Fl.G. period 5s	59 18	9	White round concrete tower; 33.	
17749.5 <i>M 4206.15</i>	-E. breakwater.	35° 51.3' N 126° 19.0' E	Fl.R. period 5s	59 18	8	Red round concrete tower; 33.	
17751 <i>M 4205.5</i>	Solp'un-so.	35° 51.8' N 126° 21.0' E	Fl.(2)W. period 10s	49 15	8	ISOLATED DANGER BRB, tower, topmark; 49.	
17752 <i>M 4206.3</i>	Sohoenggyong Do.	35° 51.3' N 126° 23.7' E	Fl.W. period 4s	98 30	8	White hexagonal concrete tower; 33.	Visible 270°-244°. AIS (MMSI No 994403655).
17753 <i>M 4206.32</i>	Golseo.	35° 49.5' N 126° 22.8' E	Fl.(2)W. period 5s	62 19	8	ISOLATED DANGER BRB, tower, topmark; 72.	AIS (MMSI No 994403662).
17753.1 <i>M 4206.33</i>	Heukdo.	35° 49.6' N 126° 22.3' E	Fl.(2)W. period 10s	62 19	8	ISOLATED DANGER BRB, tower, topmark; 49.	AIS (MMSI No 994403661).
17754 <i>M 4206.35</i>	-Hoenggan Do.	35° 51.3' N 126° 25.9' E	Fl.W. period 6s	177 54	8	White round concrete tower; 26.	
17756 <i>M 4192</i>	-AVIATION LIGHT.	35° 55.3' N 126° 36.9' E	Al.Oc.W.G. period 10s	125 38		39.	
17756.5 <i>M 4190.715</i>	Gaeyado Hang.	36° 02.0' N 126° 33.5' E	Fl.G. period 6s	39 12	9	White round steel tower; 30.	
17756.6 <i>M 4192.52</i>	Bieung Hong, E. breakwater.	35° 56.0' N 126° 31.8' E	Fl.R. period 5s	56 17	8	Red round concrete tower; 39.	AIS (MMSI No 004406102).
17756.7 <i>M 4192.51</i>	-W. breakwater.	35° 56.0' N 126° 31.6' E	Fl.G. period 5s	56 17	8	White round concrete tower; 39.	AIS (MMSI No 004406103).
GUNSAN HANG:							
17757 <i>M 4193.3</i>	-Detached breakwater, S. head.	35° 58.7' N 126° 29.5' E	Fl.(2)G. period 6s	79 24	9	White round concrete tower; 66.	AIS (MMSI No 004406104).
	-RACON		G(- - •) period 30s		10		(3 & 10cm).
17757.1 <i>M 4193.35</i>	--N. head.	35° 59.8' N 126° 30.9' E	Fl.Y. period 5s	79 24	9	Yellow round concrete tower; 66.	AIS (MMSI No 004406105).
17758.1 <i>M 4193.2</i>	-Gunjang Sinhng Man, S. breakwater, head.	35° 58.5' N 126° 30.8' E	Fl.R. period 6s	75 23	15	Red round concrete tower; 62.	AIS (MMSI No 004406109).
17758.5 <i>M 4193.38</i>	-Myeongam.	35° 59.3' N 126° 30.8' E	Fl.(2)W. period 10s	62 19	7	ISOLATED DANGER BRB, tower, topmark; 82.	AIS (MMSI No 004406100).
17760 <i>M 4191</i>	-Yok'yong.	36° 02.2' N 126° 30.8' E	Fl.W. period 6s	66 20	8	White round concrete tower; 39.	
17760.4 <i>M 4190.78</i>	-Jukdo.	36° 02.5' N 126° 31.7' E	Q.W.	49 15	8	N. CARDINAL BY, tower, topmark; 49.	AIS (MMSI No 004406108).
17760.6 <i>M 4190.75</i>	-Cheonggangyeo.	36° 03.2' N 126° 32.5' E	Q.(9)W. period 15s	56 17	8	W. CARDINAL YBY, tower, topmark; 69.	AIS (MMSI No 004406107).
17760.8 <i>M 4190.73</i>	-Bakgeunyeo.	36° 03.0' N 126° 33.8' E	Q.W.	52 16	8	N. CARDINAL BY, tower, topmark.	AIS (MMSI No 004406106).
17761 <i>M 4193.6</i>	-No 6 wharf, A.	35° 58.5' N 126° 32.8' E	Fl.(4)Y. period 8s	43 13	8	Yellow pillar; 26.	Horn: 1 bl. ev. 20s (bl. 5s, si. 15s).
17762 <i>M 4193.63</i>	--B.	35° 58.5' N 126° 33.8' E	Fl.(4)Y. period 8s	39 12	8	Yellow round fiberglass tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17772 M 4196	-Kunsan Hang Ulho, B.	35° 58.8' N 126° 36.5' E	Fl.R. period 4s	46 14	9	Red round stone tower; 13.	AIS (MMSI No 994403659).
17774 M 4195	-Sea-berth No A.	35° 58.7' N 126° 36.3' E	Fl.(3)Y. period 7s	30 9	7	SPECIAL Y, tower, "X" topmark; 16.	Horn: 1 bl. ev. 20s (bl. 5s, si. 15s). Private light.
17774.5 M 4194	-Jetty.	35° 58.7' N 126° 36.0' E	Fl.(4)Y. period 8s	30 9	7	Yellow beacon; 20.	
17775 M 4193.8	-Hyundai Oil, seaberth.	35° 58.7' N 126° 36.0' E	Fl.Y. period 4s	33 10	7	Yellow round fiberglass tower; 16.	Horn: 1 bl. ev. 15s (bl. 5s, si. 10s).
17776 M 4196.5	-Gunsan, E. end.	35° 58.8' N 126° 36.8' E	Fl.(4)Y. period 8s	49 15	10	Yellow four-sided metal tower, dolphin; 33.	
17780 M 4197	-Changsan Do.	35° 58.6' N 126° 37.0' E	Fl.(3)R. period 7s	56 17	9	Red hexagonal concrete tower; 39.	
17788 M 4198	-On drying rock, N. of Ip lee Do (Pari Do).	35° 59.0' N 126° 38.5' E	Fl.R. period 4s	36 11	8	STARBOARD (B) R, tower, topmark; 36.	AIS (MMSI No 994403660).
17789 M 4198.5	-Training wall, head.	35° 59.2' N 126° 39.5' E	Fl.(4)Y. period 8s	33 10	7	Yellow round metal tower; 13.	
17789.5 M 4198.7	--Tidal wall.	35° 59.4' N 126° 39.4' E	Fl.(4)Y. period 8s	33 10	7	Yellow round metal tower; 13.	
17789.6 M 4198.92	Janghang Hang, N.	36° 00.5' N 126° 39.6' E	Fl.G. period 5s	56 17	9	White round concrete tower; 39.	
17789.7 M 4198.91	-S.	36° 00.5' N 126° 39.6' E	Fl.R. period 5s	56 17	8	White round concrete tower; 39.	
17790 M 4198.8	Gusan Hang, A.	35° 59.0' N 126° 39.9' E	Fl.(4)Y. period 8s	24 7	3	SPECIAL Y, beacon, "X" topmark; 52.	
17791 M 4198.9	-B.	35° 59.0' N 126° 40.1' E	Fl.(4)Y. period 8s	36 11	3	SPECIAL Y, beacon, "X" topmark; 62.	
17792 M 4199	-Chonmang San.	36° 00.3' N 126° 40.3' E	Fl.G. period 4s	49 15	8	PORT (B) G, tower, topmark; 43.	
17794	-Changhang Hang No A.	36° 00.5' N 126° 40.9' E	Fl.(4)Y. period 8s	11 3	7	Post.	Private light.
17795 M 4201	-Pier, head.	35° 59.3' N 126° 41.7' E	Fl.(2)G. period 6s	33 10	5	White round concrete tower; 13.	AIS (MMSI No 004406101).
17796 M 4202	-Breakwater, N. head.	35° 59.7' N 126° 42.1' E	Fl.R. period 4s	102 31	8	Red four-sided concrete tower; 66.	AIS (MMSI No 994403653).
17800 M 4204	-Minya Am.	35° 59.4' N 126° 43.3' E	Fl.(2)W. period 10s	30 9	8	ISOLATED DANGER BRB, tower, topmark; 36.	
17803 M 4189.9	Gwangam.	36° 09.9' N 126° 29.5' E	Fl.R. period 5s	52 16	6	STARBOARD (B) R, tower, topmark; 49.	AIS (MMSI No 994402682).
17804 M 4190	Yeon Do.	36° 04.9' N 126° 26.2' E	Fl.W. period 5s	653 199	8	White round concrete tower; 19.	AIS (MMSI No 994403652).
17806 M 4190.6	-N. breakwater.	36° 04.9' N 126° 26.8' E	Fl.R. period 6s	39 12	8	Red round concrete tower; 33.	
17808 M 4190.5	-S. breakwater.	36° 04.8' N 126° 26.8' E	Fl.G. period 6s	36 11	9	White four-sided concrete tower; 33.	
17809 M 4187.52	Piin Hang, E. head.	36° 07.8' N 126° 30.5' E	Fl.R. period 5s	52 16	5	Red round concrete tower; 33.	
17810 M 4187.53	Piin Hang, W. head.	36° 07.8' N 126° 30.5' E	Fl.G. period 5s	56 17	6	White round concrete tower; 33.	
17812 M 4206.4	Shibidonga Do.	35° 59.3' N 126° 13.3' E	Fl.W. period 7s	299 91	11	White round concrete tower; 26.	AIS (MMSI No 994403651).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17816 <i>M 4188</i>	Och'ong Do.	36° 07.5' N 125° 58.1' E	Fl.W. period 12s	200 61	26	White round concrete tower; 39.	Visible 341°-224°. Storm signals. AIS (MMSI No 994403663). Horn: 1 bl. ev. 45s (bl. 5s, si. 40s).
17817 <i>M 4188.3</i>	-W. breakwater.	36° 06.8' N 125° 59.2' E	Fl.G. period 5s	59 18	9	White round concrete tower; 33.	
17817.2 <i>M 4188.7</i>	-E. breakwater.	36° 06.7' N 125° 59.2' E	Fl.R. period 4s	95 29	8	Red round concrete tower; 69.	
17818 <i>M 4188.5</i>	-Kajin So.	36° 06.3' N 125° 59.9' E	Fl.W. period 4s	95 29	8	White round concrete tower; 20.	AIS (MMSI No 994403650).
	-RACON		T(-)		10		(3 & 10cm).
17820 <i>M 4189.5</i>	Oeyon Do Hang, E. breakwater.	36° 13.4' N 126° 04.8' E	Fl.R. period 4s	36 11	5	Red round concrete tower; 33.	
17821 <i>M 4189.55</i>	-W. breakwater.	36° 13.4' N 126° 04.8' E	Fl.(2)G. period 6s	43 13	5	White round concrete tower; 33.	
17824 <i>M 4189</i>	-Breakwater, head.	36° 06.9' N 125° 59.2' E	Fl.(2)G. period 6s	46 14	9	White four-sided concrete tower; 39.	
17825 <i>M 4189.6</i>	Pulan Do.	36° 13.4' N 126° 06.3' E	Fl.W. period 6s	200 61	8	White round concrete tower; 26.	AIS (MMSI No 994402890).
17825.5 <i>M 4189.3</i>	Hangwon Hang, elbow.	36° 09.5' N 126° 30.4' E	Fl.(2)G. period 6s	52 16	5	White round concrete tower; 36.	
17825.6 <i>M 4189.32</i>	-E. breakwater.	36° 09.7' N 126° 30.4' E	Fl.R. period 6s	66 20	7	Red round concrete tower; 49.	
17825.7 <i>M 4189.31</i>	-Breakwater.	36° 09.5' N 126° 30.3' E	Fl.(2)R. period 6s	59 18	5	Red round concrete tower; 36.	
17825.9 <i>M 4187.4</i>	Muchangpo.	36° 15.0' N 126° 31.8' E	Q.W.	52 16	8	N. CARDINAL BY, beacon, topmark; 66.	
17826 <i>M 4187.3</i>	Muchangpo Hang, breakwater.	36° 15.0' N 126° 32.1' E	Fl.R. period 6s	52 16	5	Red round concrete tower; 36.	
17827 <i>M 4185.08</i>	Kodaedo Hang, breakwater.	36° 23.6' N 126° 22.2' E	Fl.R. period 6s	52 16	5	Red round concrete tower; 36.	
17827.1 <i>M 4185.105</i>	Oejanggodo, E.	36° 24.3' N 126° 21.9' E	Fl.(2)W. period 10s	43 13	8	ISOLATED DANGER BRB, beacon, topmark; 49.	
17827.15 <i>M 4184.45</i>	Oedo.	36° 27.2' N 126° 18.5' E	Fl.W. period 6s	171 52	8	White round concrete tower; 39.	
17827.5 <i>M 4185.1</i>	Oejanggodo.	36° 23.4' N 126° 20.6' E	Fl.G. period 4s	36 11	5	White round tower; 20.	
17827.7 <i>M 4185.6</i>	Sapsido, NW.	36° 22.0' N 126° 21.6' E	Fl.R. period 5s	46 14	5	STARBOARD (B) R, beacon, topmark; 59.	
17827.8 <i>M 4185.8</i>	Bapjakdo.	36° 20.6' N 126° 23.6' E	Fl.(2)W. period 5s	39 12	8	ISOLATED DANGER BRB, beacon, topmark; 52.	
17828 <i>M 4189.7</i>	-Nok To.	36° 16.1' N 126° 16.2' E	Fl.G. period 6s	56 17	7	Round concrete tower; 36.	
17829 <i>M 4189.74</i>	Chudo.	36° 17.3' N 126° 17.9' E	Fl.G. period 4s	43 13	5	PORT (B) G, tower, topmark; 56.	
17830 <i>M 4189.8</i>	Taehwasa Do.	36° 14.9' N 126° 16.8' E	Fl.W. period 10s	331 101	17	White four-sided concrete tower; 36.	
	RACON		O(- - -)		10		(3 & 10cm).
17831 <i>M 4189.63</i>	Sanghongseo.	36° 16.4' N 126° 20.7' E	Fl.(2)W. period 5s	49 15	8	ISOLATED DANGER BRB, tower, topmark; 72.	AIS (MMSI No 994402689).
17831.5 <i>M 4189.735</i>	Otakseo.	36° 21.4' N 126° 14.5' E	Fl.(2)W. period 5s	46 14	8	ISOLATED DANGER BRB, tower, topmark; 69.	AIS (MMSI No 994402688).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17832 <i>M 4187</i>	Sonyeoam.	36° 19.2' N 126° 28.4' E	Fl.R. period 4s	46 14	5	STARBOARD (B) R, tower, topmark; 56.	
	RACON		Q(- - • -)		10		(3 & 10cm).
17836 <i>M 4186</i>	T'aech'on Hang, breakwater.	36° 19.9' N 126° 30.4' E	Fl.R. period 6s	56 17	6	Red square metal tower; 43.	
17838 <i>M 4186.2</i>	-N. breakwater.	36° 19.9' N 126° 30.3' E	Fl.G. period 5s	39 12	5	White octagonal concrete tower; 26.	
17839 <i>M 4185.12</i>	-Oejukto.	36° 23.5' N 126° 25.8' E	Fl.R. period 4s	33 10	8	STARBOARD (B) R, tower, topmark; 39.	
17839.2 <i>M 4185.15</i>	-Ganseo.	36° 23.8' N 126° 26.6' E	Fl.(2)W. period 10s	49 15	8	ISOLATED DANGER BRB, tower, topmark; 49.	
17839.5 <i>M 4185.4</i>	-Range, front.	36° 25.0' N 126° 29.5' E	F.R.	82 25	4	White square framework tower, concrete base; 75.	Visible 019°-035°. Private light. Radar reflector.
17839.6 <i>M 4185.41</i>	--Rear, 750 meters 027° from front.	36° 25.4' N 126° 29.6' E	F.R.	105 32	4	White square framework tower, concrete base; 16.	Visible 019°-035°. Private light. Radar reflector.
17839.8 <i>M 4184.5</i>	Taeon Bando, SW.	36° 37.4' N 126° 17.0' E	Fl.W. period 6s	56 17	8	White round concrete tower; 56.	
17840 <i>M 4154</i>	Ong Do.	36° 38.8' N 126° 00.5' E	Fl.W. period 15s	328 100	26	White round concrete tower; 82.	AIS (MMSI No 994402651). Horn: 1 bl. ev. 43s (bl. 3s, si. 40s).
	RACON		Z(- - • •) period 60s		10		(3 & 10cm).
17840.8 <i>M 4154.25</i>	Geomeunyo.	36° 39.1' N 126° 07.2' E	Fl.(2)W. period 5s	62 19	8	ISOLATED DANGER BRB, topmark; 52.	
17841 <i>M 4154.2</i>	Haengyo.	36° 39.2' N 126° 09.8' E	Fl.(2)W. period 10s	49 15	8	ISOLATED DANGER BRB, tower, topmark; 56.	
17844 <i>M 4184</i>	Kyongnyolbi.	36° 37.5' N 125° 33.6' E	Fl.W. period 10s	351 107	27	White round concrete tower; 46.	Visible 308°-299°. AIS (MMSI No 994402895).
	RACON		K(- • -)		10		(3 & 10cm).
17848 <i>M 4185</i>	Amma Do.	36° 34.0' N 126° 17.4' E	Fl.G. period 6s	43 13	8	PORT (B) G, tower, topmark; 46.	AIS (MMSI No 994402696).
17849 <i>M 4154.22</i>	Gauido.	36° 41.0' N 126° 04.5' E	Fl.G. period 5s	49 15	5	PORT (B) G, tower, topmark; 69.	AIS (MMSI No 994402672).
17850 <i>M 4154.3</i>	Anhung Shin Hang, N. breakwater.	36° 40.6' N 126° 07.6' E	Fl.G. period 6s	56 17	5	White round concrete tower; 36.	
17851 <i>M 4154.4</i>	-S. breakwater.	36° 40.6' N 126° 07.7' E	Fl.R. period 6s	52 16	5	Red round concrete tower; 33.	
17852 <i>M 4154.5</i>	Anheung Hang, breakwater.	36° 40.8' N 126° 09.3' E	Fl.(2)R. period 6s	52 16	6	Red round concrete structure; 26.	
17853 <i>M 4154.69</i>	Yeoeundol Hang, breakwater.	36° 44.8' N 126° 07.6' E	Fl.G. period 4s	56 17	6	White octagonal concrete tower; 33.	
17853.5 <i>M 4153.3</i>	Heukdo.	36° 43.3' N 125° 56.8' E	Fl.(2)W. period 6s	328 100	8	White metal tower; 66.	
17854 <i>M 4153</i>	Kadae Am.	36° 46.4' N 125° 58.7' E	Q.(3)W. period 10s	49 15	8	E. CARDINAL BYB, tower, topmark; 56.	AIS (MMSI No 994402690).
	RACON		X(- • • -) period 60s		10		(3cm).
17856 <i>M 4152</i>	Moktok To.	36° 55.7' N 125° 47.3' E	Fl.W. period 20s	217 66	28	White round concrete tower; 20.	
	RACON		Q(- - • -)		10		(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17856.5 <i>M 4151</i>	Pan-so.	36° 58.1' N 125° 51.2' E	Fl.(2)W. period 10s	66 20	9	ISOLATED DANGER BRB, tower, topmark; 75.	AIS (MMSI No 994401036).
	RACON		G(- - •)		10		(3 & 10cm).
17858 <i>M 4155.1</i>	Chi-do.	37° 02.9' N 125° 58.8' E	Fl.(2)W. period 5s	49 15	8	ISOLATED DANGER BRB, pile, topmark; 79.	
17860 <i>M 4154.7</i>	-Manripo.	36° 47.0' N 126° 08.0' E	Fl.R. period 6s	42 13	5	Red round concrete tower; 26.	
17862 <i>M 4156.33</i>	-Taeang Hang.	36° 55.4' N 126° 11.0' E	Fl.G. period 5s	36 11	5	Green round concrete tower; 52.	
17863 <i>M 4156.35</i>	Sindo Taseo.	36° 53.7' N 126° 09.0' E	Fl.G. period 6s	52 16	12	PORT (B) G, tower, topmark; 49.	
	RACON		G(- - •)		12		(3 & 10cm).
17863.2 <i>M 4330.4</i>	Jungnim Hang, breakwater.	34° 50.5' N 128° 34.7' E	Fl.R. period 4s	36 11	5	Red octagonal concrete tower; 26.	
17863.5 <i>M 4156.38</i>	Kudo.	36° 55.4' N 126° 10.9' E	Fl.G. period 5s	52 16	5	STARBOARD (B) G, tower, topmark; 46.	AIS (MMSI No 004406436).
17864 <i>M 4156</i>	-An Do.	36° 57.6' N 126° 10.1' E	Fl.W. period 10s	141 43	21	White round concrete tower; 59.	Storm signal.
	-RACON		M(- -) period 60s		10		(3cm).
17864.5 <i>M 4156.45</i>	Taesang Hang, T'aeang Hwaryok No 1.	36° 54.8' N 126° 14.3' E	Fl.(4)Y. period 8s	39 12	7	Yellow round metal tower; 13.	
17864.6 <i>M 4156.4</i>	-No 2.	36° 54.7' N 126° 14.1' E	Fl.(4)Y. period 8s	39 12	7	Red round metal tower; 13.	
17865 <i>M 4156.6</i>	-Samsung Seaberth A.	37° 00.5' N 126° 20.7' E	Fl.(4)Y. period 8s	49 15	6	Yellow metal mast; 16.	
17865.1 <i>M 4156.65</i>	--B.	37° 00.4' N 126° 20.3' E	Fl.(4)Y. period 8s	46 14	6	Yellow metal mast; 16.	Horn: 1 bl. ev. 20s (bl. 5s, si. 15s).
17865.8 <i>M 4156.66</i>	-Samsung Quay A.	37° 00.4' N 126° 21.1' E	Fl.Y. period 6s	20 6	7	Yellow round post; 20.	
17865.9 <i>M 4156.661</i>	-B.	37° 00.5' N 126° 21.2' E	Fl.Y. period 6s	20 6	7	Yellow round post; 20.	
17866 <i>M 4156.7</i>	-Taesang Seaberth A.	37° 01.4' N 126° 21.6' E	Fl.Y. period 4s	49 15	7	Yellow four-sided metal tower; 30.	Horn: 1 bl. ev. 30s (bl. 5s, si. 25s).
17866.1 <i>M 4156.75</i>	--B.	37° 01.0' N 126° 21.1' E	Fl.Y. period 4s	46 14	7	Yellow metal tower, dolphin; 23.	Horn: 1 bl. ev. 30s. (bl. 5s, si. 25s).
17866.2 <i>M 4156.912</i>	-Hyundai oil B.	37° 01.4' N 126° 24.2' E	Fl.(2)Y. period 5s	49 15	8	Yellow structure; 10.	
17867 <i>M 4156.9</i>	--A.	37° 01.1' N 126° 24.9' E	Fl.(2)Y. period 5s	36 11	8	Yellow structure; 10.	Horn: 1 bl. ev. 15s. (bl. 5s, si. 10s).
17867.1 <i>M 4156.97</i>	-Samgilpo Hang, breakwater.	37° 00.4' N 126° 27.1' E	Fl.R. period 6s	59 18	9	Red round concrete tower; 43.	
17868 <i>M 4156.3</i>	-Chongkoktu.	36° 53.1' N 126° 10.7' E	Fl.W. period 6s	79 24	15	White round concrete tower; 23.	AIS.
17892 <i>M 4155</i>	Ul To.	37° 01.2' N 126° 00.0' E	Fl.W. period 6s	758 231	8	White round concrete tower; 30.	
17893.5 <i>M 4156.48</i>	Daesan Hang.	36° 59.0' N 126° 18.1' E	Fl.R. period 5s	52 16	5	STARBOARD (B) R, tower, topmark; 52.	
17894 <i>M 4156.5</i>	Gain Seo.	37° 00.2' N 126° 19.0' E	Fl.W. period 5s	79 24	8	White round tower; 30.	Radar reflector.
	RACON		C(- • - •)		10		(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17895 <i>M 4149.3</i>	Udu-am.	37° 03.6' N 126° 04.4' E	Fl.(2)W. period 10s	52 16	6	ISOLATED DANGER BRB, beacon, topmark; 56.	AIS (MMSI No 994401034).
	RACON		Y(- • - -)		10		(3 & 10cm).
17896 <i>M 4157</i>	Changan So.	37° 04.6' N 126° 17.6' E	Fl.(2)W. period 5s	59 18	12	ISOLATED DANGER BRB, beacon, topmark; 69.	AIS (MMSI No 994402691).
	RACON		G(- - •)		10		Azimuth coverage 310°-317°. (3 & 10cm).
PYONGTAEK HANG:							
17897 <i>M 4158.598</i>	-Seonggumi Hang.	37° 00.1' N 126° 41.7' E	Fl.R. period 4s	52 16	7	Red round concrete tower; 33.	
17897.5 <i>M 4158.57</i>	-Maehyangni.	37° 01.7' N 126° 44.5' E	Fl.G. period 6s	39 12	8	Green four-sided metal framework tower; 52.	
17898 <i>M 4158.59</i>	-Pang-do.	37° 00.6' N 126° 43.5' E	Q.(6)+L.Fl.W. period 15s	49 15	8	S. CARDINAL YB, tower, topmark; 62.	
	-RACON		X(- • • -) period 60s		10		(3 & 10cm).
17899 <i>M 4158.601</i>	-Dangjing Hang A.	37° 00.0' N 126° 42.3' E	Fl.(4)Y. period 8s	52 16	7	Yellow four-sided metal tower; 52.	
17900.5 <i>M 4158.602</i>	--B.	36° 59.6' N 126° 43.1' E	Fl.(4)Y. period 8s	52 16	7	Yellow octagonal metal tower; 33.	
17901 <i>M 4158.641</i>	--C.	36° 59.3' N 126° 44.1' E	Fl.(4)Y. period 8s	52 16	8	Yellow round metal pipe; 33.	
17903 <i>M 4158.645</i>	-Godaeri.	36° 59.3' N 126° 44.4' E	Fl.R. period 4s	46 14	8	Red round concrete tower; 25.	
17904 <i>M 4158.648</i>	--Hang, breakwater, head.	36° 59.3' N 126° 44.8' E	Fl.(2)R. period 6s	62 19	8	Red round concrete tower; 39.	
17905 <i>M 4158.65</i>	-Dongbu Steel, A.	36° 59.2' N 126° 44.9' E	Fl.(4)Y. period 8s	43 13	9	Yellow round fiberglass tower; 23.	Horn: 1 bl. ev. 30s.
17906 <i>M 4158.662</i>	--B.	36° 59.2' N 126° 45.0' E	Fl.(4)Y. period 8s	52 16	7	Yellow metal tower; 33.	
17906.1 <i>M 4158.664</i>	--C.	36° 58.9' N 126° 45.8' E	Fl.(4)Y. period 8s	52 16	7	Yellow round metal tower; 33.	
17910.6 <i>M 4158.7</i>	-Haenjon, A.	37° 00.1' N 126° 46.7' E	Fl.Y. period 4s	39 12	9	Yellow metal tower, dolphin; 13.	
17910.7 <i>M 4158.71</i>	--B.	37° 00.0' N 126° 46.8' E	Fl.Y. period 6s	39 12	9	Yellow metal tower, dolphin; 13.	
17911 <i>M 4158.73</i>	-Korea Gas Seaberth, A.	37° 00.0' N 126° 46.8' E	Fl.(2)Y. period 6s	39 12	7	Yellow fiberglass tower; 13.	Horn: 1 bl. ev. 20s. (bl. 5s, si. 15s).
17911.1 <i>M 4158.74</i>	--B.	36° 59.9' N 126° 47.0' E	Fl.(2)Y. period 6s	39 12	7	Yellow fiberglass tower; 13.	
17911.4 <i>M 4158.77</i>	-Petroleum Development Corp., A.	36° 59.9' N 126° 47.1' E	Fl.(4)Y. period 8s	49 15	7	Yellow metal tower, dolphin; 16.	Horn: 1 bl. ev. 20s. (bl. 5s, si. 15s).
17911.45 <i>M 4158.78</i>	--B.	36° 59.8' N 126° 47.2' E	Fl.(4)Y. period 8s	49 15	7	Yellow metal tower, dolphin; 16.	
17911.5 <i>M 4158.79</i>	--C.	36° 59.7' N 126° 47.2' E	Fl.Y. period 4s	49 15	7	Yellow metal tower, dolphin; 23.	
17911.6 <i>M 4158.795</i>	-Seaberth, A.	36° 59.7' N 126° 47.3' E	Fl.Y. period 4s	49 15	9	Yellow metal tower, dolphin; 20.	Horn: 1 bl. ev. 50s. (bl. 5s, si. 45s).
17911.7 <i>M 4158.83</i>	--B.	36° 59.6' N 126° 47.5' E	Fl.Y. period 4s	49 15	6	Yellow metal tower, dolphin; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17911.9 <i>M 4158.81</i>	-SK Gas Berth.	36° 59.6' N 126° 47.7' E	Fl.(4)Y. period 8s	39 12	7	Yellow fiberglass tower; 15.	
17912 <i>M 4158.8</i>	-Asan Myoji.	36° 59.7' N 126° 47.7' E	Fl.Y. period 4s	46 14	7	Yellow round concrete tower; 28.	
17912.1 <i>M 4158.92</i>	-W. Docks, W. breakwater.	36° 59.5' N 126° 47.9' E	Fl.(2)G. period 6s	39 12	7	White round concrete tower; 23.	Horn: 1 bl. ev. 20s. (bl. 2s, si. 18s).
17912.2 <i>M 4158.93</i>	--E. breakwater.	36° 59.5' N 126° 48.1' E	Fl.(2)R. period 6s	39 12	8	Red round concrete tower; 23.	
17912.3 <i>M 4158.9</i>	-E. Docks, W. breakwater.	36° 59.3' N 126° 48.6' E	Fl.(4)G. period 8s	39 12	7	White round concrete tower; 23.	
17912.4 <i>M 4158.91</i>	--E. breakwater.	36° 59.2' N 126° 48.8' E	Fl.(4)R. period 8s	39 12	8	Red round concrete tower; 23.	
17912.5 <i>M 4158.86</i>	-Hanjin-gak.	36° 58.9' N 126° 46.8' E	Q.W.	49 15	9	N. CARDINAL BY, tower, topmark; 56.	
17912.6 <i>M 4158.87</i>	-Hanjin.	36° 58.7' N 126° 48.1' E	Q.W.	46 14	9	N. CARDINAL BY, tower, topmark; 59.	
17912.65 <i>M 4158.865</i>	--Jetty, head.	36° 58.2' N 126° 47.0' E	Fl.Y. period 4s	36 11	7	Yellow metal post; 39.	
17912.7 <i>M 4158.963</i>	-Hanjin-ri.	36° 57.8' N 126° 48.3' E	Q.(3)W. period 10s	43 13	8	E. CARDINAL BYB, tower, topmark; 52.	
17912.8 <i>M 4158.96</i>	-Yong-am.	36° 58.0' N 126° 49.0' E	Q.(9)W. period 15s	52 16	8	W. CARDINAL YBY, tower, topmark; 46.	
17913 <i>M 4158.95</i>	-N. breakwater.	36° 58.1' N 126° 49.3' E	Fl.R. period 4s	56 17	5	Red round concrete tower; 36.	
17913.1 <i>M 4158.965</i>	-Haengdam-do.	36° 56.9' N 126° 47.9' E	Fl.R. period 6s	39 12	8	Red four-sided metal framework tower, triangular daymark point up; 56.	
17913.5 <i>M 4158.97</i>	-Seohae Bridge, W. span.	36° 56.7' N 126° 49.5' E	F.W.	141 43	8	White circular daymark, red stripes.	F.R. 43m 8M and F.G. 43m 8M mark width of navigable span. Fl.Y. 4s 6M mark bridge piers.
17914 <i>M 4158.975</i>	--E. span.	36° 57.1' N 126° 50.4' E	Iso.W. period 4s	213 65	6	White circular daymark, red stripes.	Iso.R., Iso.G., Iso.Y. 4s 58m 6M mark bridge span.
17920 <i>M 4150</i>	Minotan.	37° 07.4' N 125° 55.6' E	Fl.(2)W. period 10s	43 13	8	ISOLATED DANGER BRB, tower, topmark; 26.	
17924 <i>M 4155.4</i>	Kakhul To.	37° 06.9' N 126° 01.3' E	Fl.W. period 6s	112 34	8	White round concrete tower; 23.	
17926 <i>M 4160</i>	Haksanso.	37° 07.3' N 126° 31.8' E	Q.W.	49 15	9	N. CARDINAL BY, tower, topmark; 62.	
	RACON		Y(- • - -)		10		(3 & 10cm).
17927 <i>M 4159.5</i>	Ippado Hang.	37° 06.3' N 126° 32.6' E	Fl.G. period 5s	46 14	6	White round metal pipe; 27.	
17928 <i>M 4159</i>	Tori Do.	37° 07.1' N 126° 36.8' E	Fl.W. period 6s	230 70	10	White octagonal concrete tower; 52.	
17929 <i>M 4162.82</i>	Jebudo Hang.	37° 10.8' N 126° 37.3' E	Fl.R. period 4s	52 16	8	Red round concrete tower; 31.	AIS (MMSI No 994401043).
17929.5 <i>M 4159.8</i>	Ippado.	37° 06.5' N 126° 32.4' E	Fl.W. period 10s	390 119	20	White round concrete tower; 85.	AIS (MMSI No 994401042).
17930 <i>M 4162.79</i>	Tando Hang.	37° 11.4' N 126° 38.7' E	Fl.(2)G. period 6s	69 21	6	White round metal pipe; 38.	
17931 <i>M 4162.77</i>	Jeongok.	37° 11.2' N 126° 38.9' E	Fl.(2)R. period 6s	59 18	8	Red round metal pipe; 39.	
17931.5 <i>M 4162.78</i>	-Hang.	37° 11.3' N 126° 39.0' E	Fl.(4)Y. period 8s	33 10	7	Yellow round metal pipe; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17932 <i>M 4158</i>	Bu Do.	37° 09.0' N 126° 20.9' E	Fl.W. period 15s	125 38	27	White round stone tower; 52.	AIS (MMSI No 004405001). Storm signals. Horn: 1 bl. ev. 40s (bl. 5s, si. 35s).
	RACON		B(- • • •) period 40s		10		(3cm).
17934 <i>M 4163</i>	Tongso.	37° 11.2' N 126° 22.0' E	Fl.G. period 5s	39 12	6	PORT (B) G, tower, topmark; 52.	
17936 <i>M 4158.3</i>	Pungdo.	37° 07.0' N 126° 23.1' E	Fl.W. period 6s	125 38	8	White octagonal concrete tower; 32.	AIS (MMSI No 994401002).
17936.3 <i>M 4158.4</i>	-Breakwater.	37° 06.8' N 126° 23.7' E	Fl.(2)R. period 6s	49 15	8	Red round concrete tower; 30.	
17936.5 <i>M 4158.47</i>	-S.breakwater.	37° 06.7' N 126° 23.7' E	Fl.(2)G. period 6s	49 15	8	White round concrete tower; 33.	
17937 <i>M 4161</i>	Mallyukdo.	37° 07.0' N 126° 27.2' E	Fl.W. period 5s	138 42	8	White round tower; 33.	
	RACON		O(- - -)		3		(3 & 10cm).
17938 <i>M 4162.62</i>	Tangjin, 143°12'.	37° 03.7' N 126° 30.5' E	Dir.W.R.G.	105 32	W. 21 R. 18 G. 18	White four-sided metal tower; 85.	F.R. 140°24'-141°24', F.W.-144°54', F.G.-145°54'.
	Range, front.		F.W.		23		
17938.05 <i>M 4162.621</i>	-Rear, 143° from front.	37° 03.4' N 126° 30.8' E	F.W.	125 38	23	Green four-sided metal tower; 98.	
17938.2 <i>M 4162</i>	-B.	37° 03.9' N 126° 30.8' E	Fl.(4)Y. period 8s	59 18	7	Yellow round structure; 23.	
17938.3 <i>M 4162.72</i>	Gukhwado.	37° 03.1' N 126° 32.9' E	Q.(6)+L.Fl.W. period 15s	49 15	9	S. CARDINAL YB, beacon, topmark; 62.	
17938.35 <i>M 4162.75</i>	-Breakwater.	37° 03.7' N 126° 33.6' E	Fl.Y. period 6s	43 13	8	Yellow round concrete tower; 39.	
17938.4 <i>M 4162.76</i>	Janggo Hang.	37° 02.2' N 126° 33.8' E	Fl.R. period 4s	46 14	5	Red round metal pipe; 27.	
17938.5 <i>M 4164.4</i>	Tagubongdo.	37° 17.3' N 126° 32.0' E	Fl.R. period 5s	49 15	8	STARBOARD (B) R, tower, topmark; 55.	
17939.1 <i>M 4164.19</i>	Yeangheung, E.	37° 15.0' N 126° 25.7' E	Fl.(4)Y. period 8s	56 17	8	Yellow round steel pipe; 20.	
17939.2 <i>M 4164.05</i>	-C.	37° 14.3' N 126° 25.8' E	Fl.(4)Y. period 8s	46 14	7	Yellow steel pipe; 21.	
17939.3 <i>M 4164.185</i>	-D.	37° 14.7' N 126° 25.7' E	Fl.(4)Y. period 8s	56 17	8	Yellow steel pipe; 20.	
17939.4 <i>M 4164.18</i>	-B.	37° 14.7' N 126° 25.7' E	Fl.(4)Y. period 8s	59 18	6	Yellow steel pipe; 22.	Horn: 1 bl. ev. 35s (bl. 5s, si. 30s).
17940 <i>M 4158.2</i>	Mudang Seo.	37° 09.4' N 126° 25.0' E	Fl.(2)W. period 5s	59 18	8	ISOLATED DANGER BRB, tower, topmark; 62.	AIS (MMSI No 994401037).
	RACON		C(- • - •)		10		(3 & 10cm).
17944 <i>M 4164</i>	-Paek Am, N. edge of reef.	37° 13.8' N 126° 24.5' E	Fl.(2)G. period 6s	59 18	7	PORT (B) G, beacon, topmark; 46.	
	-RACON		Z(- - • •)		10		(3cm).
17949 <i>M 4164.25</i>	-Yonghung-Do bridge, center span.	37° 15.3' N 126° 30.4' E	F.W.	92 28	5	White round daymark, red stripes.	F.R. 20m 5M and F.G. 20m 4M mark width of navigable span. Fl.Y. 4s 20m 6M mark piers close E. and W.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17953 <i>M 4164.3</i>	-Chi-do bridge, center span.	37° 14.0' N 126° 32.4' E	F.W.	39 12	5	White round daymark, red stripes.	F.R. 8m 5M and F.G. 8m 4M mark width of navigable span. F.Y. 8m 6M mark piers.
INCH'ON HANG APPROACH:							
17954 <i>M 4165</i>	-Seo Sudo.	37° 19.7' N 126° 23.5' E	Fl.R. period 6s	56 17	8	STARBOARD (B) R, beacon, topmark; 36.	AIS (MMSI No 994401038).
	-RACON		K(- • -) period 60s		10		(3cm).
17956 <i>M 4166</i>	Pukchangja Yo.	37° 19.8' N 126° 28.7' E	Fl.(2)W. period 5s	59 18	11	ISOLATED DANGER BRB, beacon, topmark; 46.	
	RACON		X(- • • -) period 30s		10		(3cm).
17956.5 <i>M 4164.5</i>	Namjangjaso.	37° 18.9' N 126° 28.8' E	Oc.R. period 4s	59 18	7	Red round concrete tower; 49.	
17957 <i>M 4170.43</i>	-Sorae Pogu, Korea Gas, A.	37° 20.3' N 126° 34.9' E	Fl.(4)Y. period 8s	39 12	7	Yellow round fiberglass tower; 13.	Horn: 1 bl. ev. 50s (bl. 5s, si. 45s).
17957.1 <i>M 4170.44</i>	---B.	37° 20.3' N 126° 35.2' E	Fl.(4)Y. period 8s	39 12	7	Yellow round fiberglass tower; 13.	
17957.2 <i>M 4170.6</i>	---Jetty.	37° 20.7' N 126° 36.1' E	Fl.G. period 4s	33 10	6		
17957.4 <i>M 4170.5</i>	--Hanguk Gas, C.	37° 20.3' N 126° 35.3' E	Fl.Y. period 6s	39 12	7	Yellow round fiberglass tower; 13.	Horn: 1bl. ev. 30s (bl. 5s, si. 25s).
17957.5 <i>M 4170.45</i>	---D.	37° 20.3' N 126° 35.6' E	Fl.Y. period 6s	39 12	7	Yellow round fiberglass tower; 13.	
17957.6 <i>M 4170.53</i>	Korean Gas Wharf A.	37° 20.3' N 126° 36.4' E	Fl.(4)Y. period 8s	52 16	7	Metal tower; 23.	
17957.7 <i>M 4170.56</i>	-B.	37° 20.3' N 126° 36.6' E	Fl.(4)Y. period 8s	52 16	9	Metal tower; 25.	Horn: 1 bl. ev. 20s (bl. 5s, si. 15s).
17960 <i>M 4167</i>	-P'almi Do.	37° 21.5' N 126° 30.7' E	Fl.W. period 10s	279 85	27	White round concrete tower; 85.	Horn: 1 bl. ev. 30s (bl. 5s, si. 25s). Storm signal.
17960.1 <i>M 4167.4</i>	-Haerido.	37° 21.6' N 126° 26.5' E	Fl.G. period 6s	69 21	8	White round concrete tower; 59.	Visible 227°-126°.
17961 <i>M 4167.3</i>	-Paedangcha.	37° 22.9' N 126° 27.1' E	Fl.(2)W. period 5s	43 13	8	ISOLATED DANGER BRB, beacon, topmark; 39.	
INCH'ON HANG:							
17961.1 <i>M 4170.64</i>	-Inchon Grand Bridge, W. span.	37° 25.0' N 126° 33.7' E	Q.W.	220 67	5	Red circular daymark, white stripes. Secondary structure: Red triangular daymark point up. Tertiary structure: Green square daymark.	Iso.Y. 4s 6m 6M mark piers and span. Iso.Y. 4s 3m 6M collision prevention lights.
			Q.R.	226 69	5		
			Q.G.	210 64	5		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17961.15 <i>M 4170.65</i>	--Center span.	37° 24.8' N 126° 34.0' E	Q.W.	256 78	5	Red circular daymark, white stripes. Secondary structure: Red triangular daymark point up. Tertiary structure: Green square daymark.	
			Q.R.	240 73	5		
			Q.G.	240 73	5		
17961.2 <i>M 4170.66</i>	--E. span.	37° 24.7' N 126° 34.3' E	Q.W.	220 67	5	Red circular daymark, white stripes. Secondary structure: Red triangular daymark point up. Tertiary structure: Green square daymark.	Iso.Y. 4s 6M mark piers and span. Collision prevention lights.
			Q.R.	210 64	5		
			Q.G.	226 69	5		
17962 <i>M 4170.92</i>	-Seaberth, A.	37° 26.0' N 126° 36.5' E	Fl.(2)Y. period 6s	39 12	7	Yellow metal tower; 13.	Horn: 1 bl. ev. 50s (bl. 5s, si. 45s).
17962.5 <i>M 4170.94</i>	--B.	37° 26.0' N 126° 36.7' E	Fl.(2)Y. period 6s	49 15	7	Yellow metal tower; 23.	
17962.7 <i>M 4170.9</i>	-Tongyang Cement Berth.	37° 26.1' N 126° 36.8' E	Fl.Y. period 5s	36 11	7	Yellow round fiberglass tower; 13.	Horn: 1 bl. ev. 30s (bl. 5s, si. 25s).
17962.8 <i>M 4172.16</i>	-Ssangyong Cement Berth, A.	37° 26.3' N 126° 36.7' E	Fl.(4)Y. period 8s	52 16	7	SPECIAL Y, tower, "X" topmark; 13.	Horn: 1 bl. ev. 20s (bl. 5s, si. 15s).
17962.9 <i>M 4172.18</i>	--B.	37° 26.3' N 126° 36.8' E	Fl.(4)Y. period 8s	52 16	7	SPECIAL Y, tower, "X" topmark; 13.	
17962.95 <i>M 4172.153</i>	-Inchon Namhang, A.	37° 26.3' N 126° 35.7' E	Fl.(4)Y. period 8s	36 11	7	Yellow round fiberglass tower; 13.	
17962.96 <i>M 4172.155</i>	--B.	37° 26.3' N 126° 36.1' E	Fl.(3)Y. period 7s	36 11	7	Yellow post; 13.	
17963 <i>M 4171</i>	-Coal Wharf, A.	37° 26.3' N 126° 35.2' E	Fl.Y. period 7s	49 15	20	SPECIAL Y, tower, "X" topmark; 30.	
17963.5 <i>M 4171.2</i>	--B.	37° 26.5' N 126° 35.2' E	Fl.Y. period 5s	46 14	7	SPECIAL Y, tower, "X" topmark; 26.	
17964.5 <i>M 4172.1</i>	-S. K Seaberth.	37° 26.8' N 126° 35.5' E	Fl.Y. period 4s	39 12	7	SPECIAL Y, sphere, "X" topmark; 13.	
17965 <i>M 4172.15</i>	-Ssangyong.	37° 27.0' N 126° 35.5' E	Fl.Y. period 4s	52 16	8	SPECIAL Y, tower, "X" topmark; 10.	Private light.
17965.5 <i>M 4173.3</i>	-E. breakwater.	37° 27.3' N 126° 35.5' E	Fl.R. period 5s	59 18	9		
17966 <i>M 4173.35</i>	-International Ferry Wharf, A.	37° 27.3' N 126° 35.6' E	Fl.(2)Y. period 6s	33 10	7	Yellow metal tower; 16.	
17966.5 <i>M 4173.36</i>	--B.	37° 27.3' N 126° 35.7' E	Fl.(2)Y. period 6s	33 10	7	Yellow four-sided metal tower; 16.	
17967 <i>M 4173.4</i>	-Sowolmi-do, S. breakwater.	37° 27.4' N 126° 35.7' E	Fl.G. period 5s	66 20	5	White round concrete tower; 49.	
17967.5 <i>M 4173.5</i>	---Head.	37° 27.7' N 126° 35.5' E	Fl.(3)R. period 7s	46 14	9	Red octagonal concrete tower; 30.	
17968 <i>M 4173.52</i>	--N. breakwater, head.	37° 27.9' N 126° 35.5' E	Fl.(3)G. period 7s	46 14	5	White octagonal concrete tower; 30.	
17968.5 <i>M 4173.6</i>	-Lock Gate, S. breakwater.	37° 27.9' N 126° 35.6' E	Fl.R. period 5s	52 16	18	Red square concrete structure; 30.	Fl.W., Fl.R., Fl.G. mark W. end of Lock complex.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17969 M 4173.8	--N. breakwater.	37° 28.1' N 126° 35.7' E	Fl.G. period 5s	39	17	White octagonal concrete tower; 30.	
17969.5 M 4175	-Inner Harbor, Korea TBT, head.	37° 28.4' N 126° 36.7' E	Fl.Y. period 4s	30	9	SPECIAL Y, tower, "X" topmark; 10.	
17970 M 4174.5	--Taehan Silo, head.	37° 28.4' N 126° 36.6' E	Fl.Y. period 6s	30	9	SPECIAL Y, tower, "X" topmark; 10.	
17970.5 M 4175.2	-Hojeong, A.	37° 28.7' N 126° 35.7' E	Fl.Y. period 6s	52	16	Yellow four-sided fiberglass structure; 11.	
17971 M 4175.4	--B.	37° 28.7' N 126° 35.7' E	Fl.Y. period 8s	52	16	Yellow four-sided fiberglass structure; 11.	
17971.5 M 4174	-Sodu Am.	37° 28.9' N 126° 35.8' E	Fl.R. period 4s	52	16	Red round concrete tower; 52.	
17972 M 4176	-Chagyak To.	37° 29.8' N 126° 35.4' E	Fl.W. period 10s	190	58	White octagonal concrete tower; 66.	
17973 M 4176.3	-Inchon Hang.	37° 29.8' N 126° 36.3' E	Fl.W. period 5s	39	12	White round concrete tower; 23.	
	-RACON		Q(- - -)		10		(3 & 10cm).
17974 M 4176.4	-North Port, A.	37° 29.9' N 126° 37.7' E	Fl.(4)Y. period 8s	49	15	Yellow metal post; 20.	
17975 M 4176.41	--B.	37° 30.0' N 126° 37.8' E	Fl.(4)Y. period 8s	49	15	Yellow metal post; 20.	
17976 M 4176.5	-Air Seaberth, A.	37° 29.9' N 126° 36.2' E	Fl.(4)Y. period 8s	43	13	Yellow fiberglass tower; 16.	Horn: 1 bl. ev. 20s (bl. 5s, si. 15s).
17980 M 4176.7	--B.	37° 30.0' N 126° 36.2' E	Fl.Y. period 6s	43	13	Yellow fiberglass tower; 16.	Horn: 1 bl. ev. 43s. (bl. 5s, si. 38s). 90 meters N. of light.
17983 M 4177	-Inchon Oil Refinery, E.	37° 30.3' N 126° 36.2' E	Fl.(4)Y. period 8s	43	13	Yellow four-sided steel tower; 14.	
17984 M 4178	--A.	37° 30.3' N 126° 36.2' E	Fl.Y. period 4s	26	8	Yellow four-sided steel tower; 14.	
17988 M 4178.4	--B.	37° 30.4' N 126° 36.2' E	Fl.Y. period 6s	26	8	Yellow four-sided steel tower; 14.	Horn: 1 bl. ev. 43s (bl. 5s, si. 38s).
17989 M 4178.5	--C.	37° 30.5' N 126° 36.1' E	Fl.(3)Y. period 7s	33	10	SPECIAL Y, tower, "X" topmark; 20.	
17990 M 4178.6	--D.	37° 30.6' N 126° 36.1' E	Fl.(2)Y. period 6s	33	10	Yellow square metal tower; 20.	
17992 M 4179.2	-Hwaryok, A.	37° 30.6' N 126° 36.1' E	Fl.Y. period 4s	36	11	Yellow square metal tower; 13.	Horn: 1 bl. ev. 20s (bl. 2s, si. 18s).
17996 M 4179	--B.	37° 30.8' N 126° 36.1' E	Fl.Y. period 6s	36	11	Yellow square metal tower; 13.	
18033 M 4180	Yeongjongdo Bridge.	37° 32.7' N 126° 35.0' E	F.W.	128	39	White circular daymark, red stripes.	F.R. 35m 6M and F.G. 35m 6M mark width of navigable span. Fl.Y. 4s 6m 6M mark piers.
	RACON		C(- - -)		10		(3 & 10cm).
18035 M 4146.58	Sinsidoeyeondo Bridge.	37° 31.8' N 126° 26.1' E	F.W.	23	7	White circular daymark, red stripes.	F.R. 3m 5M and F.G. 3m 5M mark width of navigable span. F.Y. 3m 6M mark piers.
18040 M 4148	-Sonmi Do.	37° 17.3' N 126° 04.7' E	Fl.W. period 12s	541	165	White round concrete tower; 62.	Visible 351°-281°.
18044 M 4155.6	-Seongab Do.	37° 05.5' N 126° 05.1' E	Fl.W. period 5s	164	50	White concrete tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
18048 <i>M 4149</i>	-Tokchok Pukni, breakwater.	37° 15.2' N 126° 07.3' E	Fl.R. period 4s	49 15	5	Red round concrete tower; 23.	
18049 <i>M 4149.2</i>	-Seopori.	37° 12.8' N 126° 05.5' E	Fl.(2)W. period 10s	52 16	8	ISOLATED DANGER BRB, tower, topmark; 66.	AIS (MMSI No 004405008).
18049.1 <i>M 4149.25</i>	-Gamjeungtan.	37° 12.1' N 126° 05.8' E	Fl.(2)W. period 5s	46 14	8	ISOLATED DANGER BRB, tower, topmark; 52.	
18049.2 <i>M 4149.15</i>	-Deokjeokdo. S.	37° 12.5' N 126° 07.4' E	Fl.(3)G. period 7s	49 15	5	Green tower; 66.	
18050 <i>M 4149.4</i>	Soyari.	37° 13.4' N 126° 09.4' E	Fl.R. period 4s	39 12	5	Red round concrete tower; 49.	
18051 <i>M 4149.1</i>	Dohang Sudo.	37° 13.8' N 126° 10.2' E	Fl.(2)R. period 6s	49 15	5	STARBOARD (B) R, tower, topmark; 52.	
18052 <i>M 4168.5</i>	Soya Do.	37° 12.5' N 126° 11.6' E	Fl.W. period 4s	79 24	9	White octagonal concrete tower; 33.	AIS (MMSI No 004405006).
18056 <i>M 4168</i>	-Tongbaek To.	37° 11.8' N 126° 12.6' E	Fl.W. period 5s	115 35	9	White octagonal concrete tower; 43.	
	-RACON		Q(- - • -)		10		(3 & 10cm).
18060 <i>M 4170</i>	-Ijak To.	37° 11.0' N 126° 15.2' E	Fl.G. period 4s	49 15	6	PORT (B) G, tower, topmark; 46.	
18062 <i>M 4170.4</i>	-Kwangyo.	37° 10.3' N 126° 17.2' E	Fl.R. period 5s	43 13	5	Red beacon, triangular daymark point up; 52.	
18063 <i>M 4170.2</i>	-Haejonso.	37° 11.0' N 126° 17.8' E	Fl.(2)W. period 10s	39 12	8	ISOLATED DANGER BRB, beacon, topmark; 46.	
18063.5 <i>M 4163.5</i>	-Wolamdu, on islet.	37° 14.2' N 126° 19.1' E	Fl.R. period 5s	33 10	6	STARBOARD (B) R, beacon, topmark; 46.	
18063.7 <i>M 4163.7</i>	-Chawolto.	37° 13.5' N 126° 21.2' E	Fl.(3)G. period 7s	39 12	5	PORT (B) G, tower, topmark; 52.	AIS (MMSI No 994401035).
	-RACON		M(- -)		10		(3 & 10cm).
18064 <i>M 4169</i>	-Mukt'ong Do.	37° 16.4' N 126° 16.6' E	Fl.W. period 6s	85 26	8	White round concrete tower; 30.	
18068 <i>M 4169.5</i>	Sochochi Do.	37° 18.8' N 126° 16.5' E	Fl.W. period 4s	89 27	8	White square tower; 26.	
18069 <i>M 4169.7</i>	-Chociam.	37° 19.7' N 126° 13.4' E	Fl.(2)W. period 5s	46 14	8	ISOLATED DANGER BRB, beacon, topmark; 49.	
	-RACON		C(- • - •)		10		(3 & 10cm).
18076 <i>M 4146</i>	-Sin Do.	37° 30.5' N 126° 02.7' E	Fl.W. period 6s	161 49	8	White round concrete tower; 20.	
18076.5	Songmodo.	37° 45.9' N 126° 20.5' E	Fl.R. period 6s	39 12	5	STARBOARD (B) R, beacon; 63.	
18077 <i>M 4146.5</i>	-Soiyo.	37° 36.1' N 126° 15.2' E	Fl.(3)W. period 10s	43 13	8	Black concrete column, red band, double ball topmark; 46.	
18078	Susido.	37° 37.2' N 126° 16.4' E	Fl.G. period 4s	49 15	5	PORT (B) G, beacon, topmark; 63.	
NORTH KOREA							
18080 <i>M 4145</i>	-Soyonpy'ng.	37° 36.2' N 125° 43.1' E	Fl.(2)W. period 6s	128 39	8	White round concrete tower; 23.	

The existence and operation of all navigational aids should be considered unreliable on the west coast of North Korea.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
NORTH KOREA							
18083 <i>M 4145.5</i>	Nounso.	37° 34.9' N 125° 43.0' E	Fl.(2)W. period 10s	39 12	8	ISOLATED DANGER BRB, beacon, topmark; 52.	
	RACON		N(- •)		10		(3 & 10cm).
18087 <i>M 4137.2</i>	--Yonpang, S. breakwater.	37° 39.3' N 125° 42.8' E	Fl.G. period 6s	43 13	8	White octagonal concrete tower; 30.	
18088 <i>M 4137.4</i>	--E. breakwater, head.	37° 39.5' N 125° 42.8' E	Fl.R. period 6s	49 15	7	Red octagonal concrete tower; 33.	
HAEJU MAN:							
18093 <i>M 4138</i>	-Haricho.	37° 45.8' N 125° 37.8' E	Fl.W. period 12s	30 9	5	Red round concrete tower; 56.	
18096 <i>M 4140</i>	-Jincho.	37° 48.5' N 125° 43.3' E	Fl.W. period 12s	30 9	5	Black round concrete tower; 52.	
18103 <i>M 4135.8</i>	Yonggipo Hang, outer breakwater, S. head.	37° 57.2' N 124° 44.4' E	Fl.R. period 5s	49 15	8	Red round concrete tower; 30.	
18103.1 <i>M 4135.85</i>	-Inner breakwater, head.	37° 57.2' N 124° 44.3' E	Fl.G. period 5s	49 15	9	White round concrete tower.	
18104 <i>M 4136</i>	Soch'ong Do.	37° 45.6' N 124° 43.7' E	Fl.(4)W. period 40s	328 100	19	White round concrete tower; 59.	Visible 254°-205°. Horn: 1 bl. ev. 45s. (bl. 5s, si. 40s).
	RACON		K(- • -)		10		(3 & 10cm).
18105	Monggumpo.	38° 11.3' N 124° 47.1' E	Fl.(2)W. period 30s	141 43	20		Siren.
18106	Oryuji Gi.	38° 20.7' N 124° 51.4' E	Fl.W. period 15s		15		
TAEDONG GANG:							
18112 <i>M 4116</i>	-So Do.	38° 33.0' N 124° 45.8' E	Fl.W. period 20s fl. 1s, ec. 19s	348 106	15	White round concrete tower; 30.	Visible 346°-268°.
18116 <i>M 4118</i>	-Chamae Do.	38° 40.8' N 124° 58.6' E	Fl.W. period 18s	138 42	17	White round concrete tower; 30.	Visible 359°-279°. Horn.
18118 <i>M 4117.5</i>	-Kuro Iso.	38° 35.7' N 124° 57.4' E	Fl.W. period 9s		5		
18118.5 <i>M 4116.5</i>	-Huibonggang, SE. point of Chodo.	38° 30.3' N 124° 53.8' E	Fl.W. period 3s	118 36	10	White octagonal concrete tower; 30.	
18119 <i>M 4117</i>	-Songmun Am.	38° 30.7' N 124° 54.3' E	Fl.W. period 10s		5		
18120 <i>M 4119</i>	-Toku Somu.	38° 45.0' N 124° 58.1' E	Fl.W. period 15s	302 92	10		
18124 <i>M 4120</i>	-Ch'an Do.	38° 41.0' N 125° 06.9' E	Fl.W. period 15s	144 44	10	White round concrete tower; 16.	Visible 040°-308°..
18128 <i>M 4122</i>	-Chiri Do, on islet.	38° 42.2' N 125° 08.4' E	Fl.W. period 12s	66 20	10	White octagonal concrete tower; 26.	
18132 <i>M 4126</i>	-P'i Do.	38° 40.8' N 125° 10.5' E	Fl.(2)W. period 30s	282 86	25	White square concrete tower; 108.	
18136 <i>M 4128</i>	-Orip'o-ri, on point.	38° 39.5' N 125° 13.4' E	F.W.	118 36	5	White square concrete tower; 23.	

The existence and operation of all navigational aids should be considered unreliable on the west coast of North Korea.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
NORTH KOREA							
18148 <i>M 4132</i>	-Namp'o, Bu Pibalto.	38° 43.4' N 125° 24.5' E	Fl.W. period 9s	85 26	4	Framework tower, white hexagonal concrete tower; 36.	
18149 <i>M 4112.5</i>	-Taegamdo.	39° 28.7' N 125° 06.9' E	Fl.W. period 12s		6		
YALU RIVER:							
18152 <i>M 4113</i>	-Nap To, on islet.	39° 16.2' N 124° 43.3' E	Fl.W. period 5s		10		
18156 <i>M 4112</i>	-Taehwa Do.	39° 26.4' N 124° 35.2' E	F.W.	312 95	20	White hexagonal metal framework tower; 79.	Visible 324°-188°.
18160 <i>M 4104</i>	-Suun Do , in E. channel of Yalu River entrance.	39° 41.4' N 124° 24.5' E	Fl.W. period 10s	157 48	20	White round concrete tower; 26.	Visible 345°-189°.
18164 <i>M 4105</i>	-Un Do (Un To), summit of island.	39° 43.9' N 124° 24.1' E	Fl.(2)W. period 6s 2 fl. 1.5s, ec. 4.5s	83 25	13	White square concrete tower; 23.	
18166 <i>M 4106</i>	-Munbakdo.	39° 49.6' N 124° 19.7' E	Fl.W. period 3s		6		
18168 <i>M 4107</i>	-Sampo.	39° 55.6' N 124° 21.2' E	Iso.W. period 6s	203 62	12	Red hexagonal masonry tower; 33.	
18176 <i>M 4100</i>	-Maan Do, in W. channel of Yalu River.	39° 48.2' N 124° 11.2' E	Fl.W. period 5s	237 72	10	White round brick tower; 26.	Visible 282°-241°. Discontinued during winter, when Yalu River is closed.

The existence and operation of all navigational aids should be considered unreliable on the west coast of North Korea.

Section 11

China

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18208 <i>P 4067</i>	Guanglu Dao.	39° 10.1' N 122° 25.5' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	292 89	11	White round concrete tower; 33.	
18210 <i>P 4068.1</i>	Jiaoliu Dao.	39° 16.6' N 122° 42.8' E	Fl.R. period 6s fl. 0.5s, ec. 5.5s	82 25	10	White square tower; 26.	
	RACON		C(- - - •)				(3cm).
18210.5 <i>P 4071</i>	Wumang Dao.	39° 15.5' N 122° 59.4' E	Iso.R. period 5s	56 17	7	White column, red bands; 20.	
18211 <i>F 4066.5</i>	Haiyang Dao.	39° 04.2' N 123° 09.0' E	Fl.W. period 5s	200 61	12	White round concrete tower; 43.	Siren: 1 bl. ev. 80s (bl. 40s, si. 40s).
	RACON		K(- - -)				(3cm).
18212 <i>P 4064</i>	Yuan Dao.	38° 40.4' N 122° 09.9' E	Fl.W. period 15s fl. 1s, ec. 14s	215 66	20	White round concrete tower; 66.	Reserve light Fl.W. 5s 10M.
	RACON		B(- • • •)				(3cm).
18216 <i>P 4062</i>	Yu Yan.	38° 34.3' N 121° 38.5' E	Fl.W. period 4s fl. 0.8s, ec. 3.2s	65 20	14	White round concrete tower; 52.	
	RACON		Z(- - • •)				(3cm).
18220 <i>P 4058</i>	Dasanshan Dao.	38° 51.9' N 121° 49.5' E	Fl.W. period 10s fl. 1s, ec. 9s	266 81	23	White round stone tower; 39.	Visible 248°-158°. Reserve light range 10M. Siren: 4 bl. ev. 30s. (bl. 5s, si. 2s, bl. 5s, si. 2s, bl. 2s, si. 2s, bl. 2s, si. 10s). Radiobeacon.
18222 <i>P 4060</i>	Xian Jiao.	38° 57.8' N 121° 59.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	82 25	15	White concrete column, red bands; 52.	
	RACON		O(- - -)				(3cm).
18224 <i>P 4066.25</i>	Pier, head.	39° 05.1' N 122° 03.1' E	Iso.R. period 4s	33 10	6	White column, red bands; 20.	
18225 <i>P 4065</i>	Nandaquan.	39° 01.1' N 121° 54.9' E	Fl.(2)W. period 10s	187 57	20	White square concrete tower; 72.	
18225.3 <i>P 4065.3</i>	Dayao Wan, N. entrance, N. head.	39° 00.7' N 121° 54.6' E	Iso.G. period 6s	66 20	12	White concrete column, black bands; 66.	
18225.5 <i>P 4065.4</i>	-S. head.	39° 00.5' N 121° 54.5' E	Iso.R. period 6s	66 20	10	White concrete column; 66.	
18225.7 <i>P 4066.23</i>	Pier, head.	39° 02.0' N 121° 51.3' E	Iso.W. period 4s	32 10	6	Green and white post; 26.	
18226 <i>P 4066</i>	Dayao Wan, S. breakwater, head.	39° 00.1' N 121° 54.0' E	FR.	85 26	12	Red round concrete pile, white stripes; 72.	Channel marked by buoys.
18226.2 <i>P 4065.5</i>	-N. breakwater.	39° 00.2' N 121° 54.3' E	Fl.G. period 5s	66 20	10	White round concrete tower; 66.	
18227 <i>P 4059.2</i>	Dalian Gang, Oil Pier.	38° 59.0' N 121° 53.9' E	FR.	39 12	8		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18228 <i>P 4059</i>	Shatuozi.	38° 58.1' N 121° 54.3' E	Fl.W. period 6s fl. 1s, ec. 5s	120 37	18	White round concrete tower; 121.	
	RACON		Y(- • - -)				(3cm).
18228.5 <i>P 4059.03</i>	-Breakwater head.	38° 58.3' N 121° 54.8' E	Fl.R. period 3s	43 13	7	Yellow pile; 33.	
18229 <i>P 4059.3</i>	Daliangangxin Gang, Oil Terminal.	38° 58.6' N 121° 54.3' E	F.G.	52 16	3	White triangular framework structure; 56.	
18231 <i>P 4059.5</i>	-Operations Pier.	38° 58.3' N 121° 53.8' E	F.R.	33 10	8	White round concrete tower; 33.	
18231.1 <i>P 4059.55</i>	Zhongran Jetty.	38° 58.3' N 121° 54.1' E	Iso.R. period 4s	52 16	8	White column, red bands; 39.	
18232 <i>P 4059.12</i>	LNG pier, No 10.	38° 57.5' N 121° 53.3' E	Iso.G. period 8s	52 16	8	Green pole; 26.	
18232.1 <i>P 4059.13</i>	-No 1.	38° 57.3' N 121° 53.0' E	Iso.R. period 8s	52 16	8	Red pole; 26.	
18233 <i>P 4059.18</i>	Bulk Cargo Pier, head.	38° 56.8' N 121° 52.3' E	F.R.	49 15	8	White metal tower, red bands; 33.	
18233.3 <i>P 4058.3</i>	Yishengdahua, breakwater, head.	38° 56.9' N 121° 50.7' E	F.W.	52 16	6	White column; 33.	
18233.5 <i>P 4058.4</i>	Fujiadahua Chemical Industry Pier, head.	38° 56.5' N 121° 51.3' E	Iso.G. period 4s	52 16	7	White pillar, black bands; 33.	
18233.9 <i>P 4059.191</i>	Jiucaituozi, W. side.	38° 56.5' N 121° 51.7' E	Iso.R. period 4s	56 17	5	Red fiberglass column; 33.	
18233.91 <i>P 4059.19</i>	-E. side.	38° 56.6' N 121° 51.9' E	Iso.G. period 4s	56 17	5	Green fiberglass column; 33.	
18234 <i>P 4058.5</i>	Jiucaituozi.	38° 56.8' N 121° 51.7' E	Fl.(2)W. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	59 18	7	White round concrete tower; 26.	
18234.02 <i>P 4058.36</i>	-Berth No 5.	38° 56.7' N 121° 51.1' E	Iso.R. period 4s	46 14	8	White column, red bands; 26.	
18234.05 <i>P 4058.2</i>	Dagushan Wan, Dayang Jetty.	38° 57.9' N 121° 49.7' E	Iso.R. period 4s	39 12	8	White pillar, red bands; 26.	
18234.06 <i>P 4058.25</i>	Dalian Gang, N.	38° 58.0' N 121° 49.0' E	Iso.G. period 6s	36 11	8	White tower, green bands; 23.	
18234.07 <i>P 4058.26</i>	-S.	38° 57.6' N 121° 49.0' E	Iso.R. period 6s	52 16	10	White pillar, red bands; 26.	
18234.1 <i>P 4053</i>	Beiliang Gang, Oil Pier, breakwater, head.	38° 58.7' N 121° 47.8' E	Fl.(2)W. period 10s	52 16	8	White fiberglass tower, black bands; 33.	
18235.2 <i>P 4053.2</i>	-Grain pier.	38° 58.7' N 121° 48.3' E	F.R.	30 9	7	White fiberglass tower, red bands; 20.	
18235.3 <i>P 4056</i>	-Breakwater, head.	38° 58.3' N 121° 48.1' E	F.G.	98 30	10	White fiberglass tower, red bands; 66.	
DALIAN GANG:							
18236 <i>P 4010</i>	-Huangbai Zui.	38° 54.2' N 121° 43.0' E	Al.W.R. period 10s	312 95	W. 20 R. 10	White round concrete tower; 51.	Visible 121°-007°. Reserve light Fl.W. 6s 10M.
18238 <i>P 4012</i>	-Zhongyue Pier, head.	38° 54.9' N 121° 42.2' E	F.G.		3	White dolphin.	
18256 <i>P 4022</i>	-Dagang Qu, E. entrance, N. side.	38° 56.3' N 121° 40.2' E	Iso.W. period 12s	43 13	5	Round stone pile; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18260 P 4020	--S. side.	38° 56.1' N 121° 40.1' E	Iso.R. period 12s	36 11	6	Round stone tower; 39.	
18264 P 4026	--N. entrance, E. side.	38° 56.7' N 121° 38.8' E	F.R.	62 19	6	White round concrete pile; 62.	
18268 P 4028	---W. side.	38° 56.7' N 121° 38.7' E	F.R.	66 20	6	White square concrete pile; 62.	
18279 P 4045	-Fuel pier.	38° 58.1' N 121° 39.1' E	F.R.	46 14	6	White round metal dolphin; 36.	
18279.1 P 4045.22	-Ganjingzi Oil Wharf.	38° 58.0' N 121° 39.7' E	Iso.W. period 4s	52 16	8	White fiberglass tower, black bands; 33.	
18280 P 4044	-Ganjingzi Big Wharf.	38° 57.5' N 121° 38.6' E	F.G.	39 12	6	White square metal framework tower; 40.	
18282 P 4043	--E. jetty.	38° 57.5' N 121° 38.0' E	F.W.	42 13	5	White round metal pile.	
18283 P 4045.23	-Liaohaixun, breakwater, head.	39° 00.5' N 121° 40.4' E	Iso.W. period 4s	39 12	8	Black and white fiberglass column; 33.	
18284 P 4045.3	-Liushutun Qu, E. breakwater, S.	39° 00.1' N 121° 41.9' E	Fl.G. period 3s	56 17	10	White metal column; 39.	
18285 P 4045.25	-Zhongyuan Chuanwu, W. breakwater, N.	39° 00.1' N 121° 41.7' E	Fl.R. period 3s	56 17	10	White metal column, red bands; 39.	
18285.1 P 4045.24	---S.	39° 00.0' N 121° 41.4' E	Fl.W. period 5s	49 15	10	White metal column, black bands; 33.	
18286	-Heshing Dao, No 11.	38° 59.1' N 121° 46.3' E	Fl.G. period 4s			STARBOARD (A) G, pillar, topmark.	
	-RACON		G(- - •)				(3cm).
18287 P 4047.3	-Breakwater, head.	39° 00.9' N 121° 45.1' E	F.R.	23 7	6	White concrete column; 20.	
18312 P 3986	Laotieshan Xijiao.	38° 43.7' N 121° 08.1' E	Fl.(2)W. period 30s	328 100	25	White round metal tower; 46.	Visible 282°-178°. Reserve light Fl.W. 4s 10M. Radiobeacon.
	RACON		M(- -)				(3cm).
18316 P 3984	Xiaolongshan Dao.	38° 57.2' N 120° 58.4' E	Fl.W. period 5s	226 69	15	White round concrete tower; 28.	Visible 342°-227°.
18334 P 3983	Changxing Dao.	39° 31.5' N 121° 13.7' E	Fl.W. period 25s	653 199	25	White round concrete tower; 33.	Visible 354°-200°. Reserve light range 10M.
18334.05 P 3982.8	-Hengli pier.	39° 34.8' N 121° 16.1' E	Iso.W. period 6s	33 10	6	White pile, black bands; 23.	
18334.1 P 3982.6	-N. harbor, E. breakwater, head.	39° 35.1' N 121° 15.4' E	F.R.	69 21	6	White round concrete tower, red bands; 49.	
18334.2 P 3982.5	-Crude oil pier, E.	39° 35.8' N 121° 16.7' E	Fl.R. period 3s	46 14	6	White round concrete tower, black bands; 23.	
18334.3 P 3982	Dagushan.	39° 51.6' N 121° 32.4' E	Fl.W. period 20s	259 79	20	Red and white concrete tower; 64.	Reserve light Fl.(3)W. 20s 12M.
18334.6 P 3981	Taiping Jiao.	40° 01.6' N 121° 49.6' E	Fl.W. period 15s	115 35	20	White concrete tower; 42.	
18334.61 P 3979.44	Xianren Dao, N. breakwater.	40° 13.2' N 121° 56.9' E	Oc.R. period 6s lt. 4s, ec. 2s	46 14	5	Red and white concrete column; 40.	
18334.62 P 3979.45	-S. breakwater.	40° 12.8' N 121° 56.9' E	Oc.G. period 6s lt. 4s, ec. 2s	56 17	7	White concrete column, green bands; 46.	
	-RACON		Y(- • - -)				(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
BAYUQUAN GANG:							
18334.7 <i>P 3979</i>	-Approach channel Range, front.	40° 17.2' N 122° 05.4' E	F.W.	69 21	10	Orange and white pile, orange triangular daymark point up; 82.	S. limit marked by F.G. lights in line. N. limit marked by F.R. lights in line. AIS (MMSI No 994131201). Reserve light F.W. 8M.
18334.71 <i>P 3979.1</i>	--Rear, 1740 meters 097°24' from front.	40° 17.1' N 122° 06.6' E	F.W.	157 48	10	Orange and white pile, triangular daymark point down; 147.	Reserve light F.W. 8M.
18334.75 <i>P 3979.15</i>	-N. breakwater.	40° 17.4' N 122° 04.9' E	Q.R.	30 9	4	White round concrete pillar; 38.	
18334.8 <i>P 3979.2</i>	-W. breakwater, N. head.	40° 17.2' N 122° 04.8' E	Q.G.	30 9	4	Green concrete pile; 39.	
18335 <i>P 3978</i>	Taizi Shan.	40° 17.8' N 122° 06.5' E	Fl.W. period 10s	430 131	25	White concrete tower; 69.	Reserve light range Fl.W. 10s 7M.
18336 <i>P 3970</i>	YINGKOU LIGHTSHIP RACON.	40° 31.1' N 121° 59.0' E	Y(- • - -)				(3cm).
YING KOU:							
18338 <i>P 3970.5</i>	-Turning beacon.	40° 35.8' N 122° 09.3' E	F.W.	52 16	8	Black metal framework tower, black ball topmark; 62.	
18340 <i>P 3971</i>	-Bar Range, front.	40° 35.7' N 122° 09.6' E	F.W.	56 17	8	Black metal framework tower, black triangular daymark point up; 73.	
18344 <i>P 3971.1</i>	--Rear, 950 meters 061° from front.	40° 36.0' N 122° 10.2' E	F.W.	105 32	8	Black metal framework tower, black triangular daymark point down; 106.	
18348 <i>F 3971.9</i>	-Inner Channel Range, front, 950 meters 220°15' from common rear.	40° 37.5' N 122° 08.9' E	FR.	46 14	7	Black metal framework tower, black triangular daymark point up; 59.	Visible 027°-057°.
18352 <i>P 3972</i>	--Common rear.	40° 37.9' N 122° 09.3' E	FR.	95 29	7	Black metal framework tower, black triangular daymark point down; 95.	Visible 035°-185°.
18353 <i>P 3972.1</i>	---No 4 Range, front, 353°20' from common rear.	40° 38.2' N 122° 09.2' E	FR.	62 19	7	Black metal framework tower, black triangular daymark point up; 66.	Visible 099°-189°.
18355 <i>P 3972.15</i>	-Paotai beacon.	40° 39.3' N 122° 09.8' E	Q.G.		4		
18358 <i>P 3972.3</i>	Xishiba beacon.	40° 39.3' N 122° 08.5' E	Fl.R. period 4s			Red beacon, square daymark.	
18373 <i>P 3972.5</i>	-W. channel Range, front.	40° 40.9' N 122° 08.4' E	F.W.	52 16	8	Black metal framework tower, black triangular daymark point up; 59.	
18374 <i>P 3972.51</i>	--Rear, 650 meters 014°45' from front.	40° 41.2' N 122° 08.5' E	F.W.	85 26	8	Black metal framework structure, black triangular daymark point down; 92.	
18375 <i>P 3975</i>	-Zaomu Gou.	40° 41.9' N 122° 08.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	36 11	4	Black metal framework tower; 33.	
18376 <i>P 3976</i>	-W. Channel Range No 2, front.	40° 42.2' N 122° 08.7' E	FR.	43 13	4	Black metal framework tower, black triangular daymark point up; 39.	
18377 <i>P 3976.1</i>	--Rear, 160 meters 353°20' from front.	40° 42.3' N 122° 08.7' E	FR.	56 17	4	Black metal framework tower, black triangular daymark point down; 52.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18378 <i>P 3977</i>	-Yongyuau Jiao.	40° 42.7' N 122° 09.9' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	36 11	4	Black steel framework tower; 33.	
18380 <i>P 3965.5</i>	Huludao Jiao.	40° 42.9' N 121° 01.3' E	Fl.(2)W. period 12s fl. 1.5s, ec. 3s fl. 1.5s, ec. 6s	423 129	18	White round concrete tower; 33.	Visible 180°-073°.
18382 <i>P 3966</i>	Jinzhou Gang Range, front.	40° 48.7' N 121° 03.9' E	F.W.	138 42	12	White pile, round daymark.	Channel marked by lighted port and starboard buoys.
18382.1 <i>P 3966.1</i>	-Rear, 1820 meters 005°41' from front.	40° 49.7' N 121° 04.0' E	Fl.W. period 4s	240 73	12	White pile, round daymark.	
18383 <i>P 3966.5</i>	Basin No 5 Range, front.	40° 47.8' N 121° 04.6' E	F.R.	79 24	6	White metal pipe.	
18383.1 <i>P 3966.51</i>	-Rear, 110 meters 060° from front.	40° 47.9' N 121° 04.7' E	F.R.	92 28	6	White metal pipe.	
18384 <i>P 3966.2</i>	-Breakwater, head.	40° 47.8' N 121° 04.0' E	Fl.W. period 4s	49 15	6	White metal framework tower.	
18387 <i>P 3964</i>	Tuan-shan Chiao.	40° 12.8' N 120° 27.3' E	Fl.(2+1)W. period 20s	135 41	18	Red three-sided concrete tower, white stripes; 128.	Reserve light range 10M. AIS (MMSI No 004131203).
	RACON		Z(- - • •)				(3cm).
18388 <i>P 3960.4</i>	Longwangmiao.	40° 04.4' N 120° 00.7' E	Fl.R. period 4s	75 23	6	Black tower; 16.	Fishing light.
18390 <i>P 3960</i>	Huanhaisidi Zui.	40° 00.1' N 119° 54.9' E	Fl.W. period 10s	82 25	15	Three white round concrete tower; 40.	Reserve light Q.(3)W. 10s 10M.
	RACON		K(- • -)				(3cm).
18408 <i>P 3937</i>	Nanshan Tou.	39° 54.7' N 119° 37.0' E	Fl.W. period 15s	194 59	20	White round concrete tower; 161.	Reserve light range 10M. Radiobeacon.
18412 <i>P 3937.4</i>	-Qinhungdao Gang Range, front.	39° 55.0' N 119° 37.3' E	F.W.	102 31	6	White concrete structure, chevron topmark point down; 98.	E. and W. channel limits marked by F.G. and F.R., 2 F.G. and 2 F.R. ranges, respectively. 2 F.W. mark each side of dredged channel.
18416 <i>P 3937.41</i>	--Rear, 2180 meters 340° from front.	39° 56.1' N 119° 36.8' E	Iso.W. period 4s	154 47	6	White concrete structure, chevron topmark point down; 154.	
18420 <i>P 3937.6</i>	-Zhongxin Biao.	39° 53.7' N 119° 37.9' E	Iso.W. period 2s	52 16	6	Concrete tower; 49.	
	-RACON		M(- -)				(3cm).
18424 <i>P 3949.5</i>	-Oil pier, outer head.	39° 55.3' N 119° 39.2' E	F.R.	49 15	3	White concrete tower; 39.	
18428 <i>P 3950</i>	-Fuel oil pier.	39° 55.6' N 119° 39.1' E	Fl.R. period 4s	39 12	3	White concrete tower; 39.	
18432 <i>P 3950.5</i>	--Outer head.	39° 55.0' N 119° 39.3' E	Fl.W. period 3s fl. 1s, ec. 2s	36 11	3	White concrete tower; 39.	
18440 <i>P 3943</i>	-Range, front.	39° 54.5' N 119° 36.1' E	F.W.	72 22	3	White metal framework tower, white diamond daymark; 69.	Lights in line mark either side of fairway; front F.G., rear F.R.
18444 <i>P 3943.1</i>	--Rear, 1056 meters 352°32' from front.	39° 55.0' N 119° 36.0' E	F.W.	118 36	6	White metal framework tower, white diamond daymark; 115.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18448 <i>P 3948</i>	-E. Channel Range, common front.	39° 56.1' N 119° 39.4' E	F.W.	105 32	12	White concrete tower, red bands; 95.	F.W. lights in line mark either side of fairway. Channel marked by Fl.R. and Fl.G. articulated beacons.
	-RAMARK		(- - - - -)				
18448.1 <i>P 3948.11</i>	--Middle, 926 meters 330° from common front.	39° 56.6' N 119° 39.1' E	L.Fl.W. period 6s fl. 2s, ec. 4s	141 43	12	White metal structure, white diamond daymark, red stripes.	
18448.2 <i>P 3948.15</i>	--Rear, 1946 meters 330° from common front.	39° 57.1' N 119° 38.7' E	F.W.	190 58	12	White concrete tower, red bands.	
18452 <i>P 3948.1</i>	--Rear, 1200 meters 010°53' from front.	39° 56.8' N 119° 39.6' E	Oc.W. period 5s lt. 3s, ec. 2s	144 44	6	White concrete tower, red bands; 148.	
18452.6 <i>P 3953.81</i>	--Middle, 400 meters 035° from front.	39° 56.0' N 119° 40.5' E	F.W.	91 28	6	White metal pillar, diamond daymark; 79.	
18452.7 <i>P 3953.82</i>	--Rear, 1235 meters 035° from front.	39° 56.5' N 119° 41.0' E	F.W.	161 49	6	White metal framework beacon, diamond daymark; 157.	
	--RACON		O(- - -)				
18452.8 <i>P 3953.9</i>	-Meisanqi terminal, head.	39° 55.4' N 119° 40.1' E	F.G.	52 16	3	Metal mast; 58.	Harbor limits marked by lit articulated beacons.
18453 <i>P 3954.65</i>	-Chenxiang Hangdao.	39° 55.7' N 119° 39.9' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	52 16	4	White round concrete pile; 36.	
18453.2 <i>P 3954.9</i>	-S. pier, head.	39° 56.0' N 119° 40.1' E	Fl.(2)W. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	39 12	3	Red fiberglass tower, white stripes; 33.	
18453.4 <i>P 3954.91</i>	-E. pier, head.	39° 56.1' N 119° 40.1' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	16 5	2	Green round tower, white stripes; 10.	
18454 <i>P 3942</i>	-Detached breakwater, E. end.	39° 54.0' N 119° 35.8' E	Fl.R. period 2s	39 12	3	Red and white fiberglass pile; 33.	
18454.5 <i>P 3942.1</i>	-Detached breakwater, W. end.	39° 53.9' N 119° 34.5' E	Fl.W. period 4s	39 12	3	Green and white fiberglass pile; 30.	
18456 <i>P 3943.8</i>	-S. breakwater, head.	39° 54.2' N 119° 36.3' E	Oc.W. period 2s	56 17	3	Green and white fiberglass pile; 36.	
18460 <i>P 3944.5</i>	-Tideguage.	39° 54.5' N 119° 36.6' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	9 3	1		Tide gauge.
18464 <i>P 3943.9</i>	-Pier, head.	39° 54.4' N 119° 36.4' E	F.G.	66 20	3	Square concrete post; 56.	
18466 <i>P 3945</i>	-Pier A.	39° 54.3' N 119° 35.7' E	F.G.	39 12	3	White concrete tower; 40.	
18468 <i>P 3941.14</i>	-W. Channel Range, front.	39° 54.4' N 119° 35.3' E	F.W.	112 34	6	Red and white concrete tower; 102.	
18472 <i>P 3941.15</i>	--Rear, 1250 meters 310° from front.	39° 54.9' N 119° 34.7' E	F.W.	164 50	6	Red and white concrete tower; 148.	Limits of channel marked by F.W. lights in line.
18476 <i>P 3936</i>	Jinshan Zui.	39° 48.7' N 119° 31.6' E	Fl.(2)W. period 6s	171 52	8	White metal framework structure; 92.	
	RACON		Z(- - ••)				(3cm).
18494 <i>P 3934</i>	Jingtang Gang.	39° 12.8' N 119° 00.8' E	Fl.(2)W. period 10s fl. 1s, ec. 0.5s fl. 1s, ec. 7.5s	131 40	18	White round concrete tower, red bands; 115.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18496 <i>P 3932</i>	Caofeidian.	38° 55.1' N 118° 30.4' E	Fl. W. period 15s fl. 0.5s, ec. 14.5s	69 21	14	Black metal framework structure, square daymark; 75.	Radar reflector.
	RACON		C(- • - •)				(3cm).
18497 <i>F 3932.35</i>	-W.	38° 55.0' N 118° 29.3' E	Iso.R. period 4s	52 16	7	White round pillar, red bands; 33.	
	PO HAI:						
18500 <i>P 3908</i>	-Dagu.	38° 56.4' N 117° 58.8' E	Fl.W. period 10s fl. 1s, ec. 9s	118 36	17	White round concrete tower, red and white checkered bands; 126.	Reserve light Fl.W. 10s 10M. Channel marked by lighted buoys and beacons.
	-RACON		K(- • -)		15		Azimuth coverage 050°-130°. (3cm).
18500.2 <i>P 3907.82</i>	-N. breakwater, No 1.	38° 55.0' N 117° 54.5' E	Mo.(C)Y. period 15s	39 12	5	Yellow pile; 33.	
18500.3 <i>P 3907.832</i>	-LNG Pier, E.	38° 55.6' N 117° 52.8' E	Fl.G. period 3s	62 19	5	White column, red bands; 49.	AIS (MMSI No 994131412).
18500.4 <i>P 3907.833</i>	--W.	38° 55.8' N 117° 52.2' E	Fl.R. period 3s	62 19	5	White column, red bands; 49.	
18500.5 <i>P 3907.834</i>	-W. LNG Working Vessel Pier.	38° 55.8' N 117° 52.0' E	Fl.W. period 3s	39 12	5	Red column; 33.	
18500.6 <i>P 3909.1</i>	-N. breakwater, head.	38° 57.5' N 117° 54.1' E	Iso.G. period 4s	69 21	6	White round concrete column, green bands; 52.	
	-RACON		Z(- - • •)				(3cm).
18500.7 <i>P 3909.2</i>	-S. breakwater, head.	38° 57.0' N 117° 53.4' E	Iso.R. period 4s	69 21	6	White round concrete column, red bands; 52.	
18501 <i>P 3909.5</i>	-Oil Pier, E.	38° 56.9' N 117° 52.3' E	Iso.R. period 4s	56 17	7	White fiberglass tower, red bands; 49.	AIS (MMSI No 994131404).
18502 <i>P 3909.6</i>	--W.	38° 56.9' N 117° 52.0' E	Iso.G. period 4s	56 17	7	White fiberglass tower, green bands; 49.	
18503 <i>P 3909.71</i>	-Ore Pier, E.	38° 57.1' N 117° 51.0' E	Fl.R. period 3s	52 16	5	Yellow round column; 39.	
18503.5 <i>P 3909.72</i>	--W.	38° 57.1' N 117° 50.8' E	Fl.G. period 3s	52 16	5	White column, blue bands; 39.	
18504 <i>P 3910</i>	-Xingang, front, center of channel.	38° 58.8' N 117° 44.1' E	Oc.W. period 5s lt. 4s, ec. 1s	92 28		Black metal framework tower, black diamond daymark; 92.	Marks center of two-way channel.
18506 <i>P 3911.8</i>	-Cicum Ro-Ro pier.	39° 01.2' N 117° 46.2' E	Iso.R. period 4s	39 12	7	Red and white fiberglass column.	
18508 <i>P 3910.1</i>	--Rear, 1,700 meters 281°36' from front.	38° 58.9' N 117° 43.0' E	Iso.W. period 4s	171 52		Black metal framework tower, black diamond daymark; 171.	
	--RACON		M(- -)				(3cm).
18512 <i>P 3909.83</i>	-N. channel Range, front.	38° 58.8' N 117° 44.1' E	F.W.	79 24		Black metal framework tower, black triangular daymark point up; 82..	Marks middle of north channel. North limit of channel marked by front and rear beacons in line 281°36' each F.R. with square daymark.
18516 <i>P 3909.831</i>	--Rear, 1,700 meters 281°36' from front.	38° 59.0' N 117° 43.0' E	F.W.	154 47		Black metal framework tower, black triangular daymark point up; 154.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18520 <i>P 3910.2</i>	-S. channel Range, front.	38° 58.8' N 117° 44.1' E	F.W.	82 25		Black metal framework tower, black triangular daymark point down; 75.	Marks middle of south channel. South limit of channel marked by front and rear beacons in line 281°36' each F.R. with black square daymark.
18524 <i>P 3910.21</i>	--Rear, 1,700 meters 281°36' from front.	38° 58.9' N 117° 43.0' E	F.W.	148 45		Black metal framework tower, black triangular daymark point down; 148.	
18524.5 <i>P 3909.815</i>	-Hangzheng, Service Pier.	38° 58.6' N 117° 44.8' E	Iso.R. period 4s	36 11	5	Round fiberglass pile, red and white bands; 26.	
18526 <i>P 3909.81</i>	-HSA Pier.	38° 58.9' N 117° 44.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	36 11	5	Round fiberglass tower, red and white bands; 27.	
18527 <i>P 3911.6</i>	-E. breakwater, pier, S.	38° 58.4' N 117° 47.3' E	Iso.W. period 4s	39 12	7	White fiberglass tower, black bands; 33.	
18527.1 <i>P 3911.62</i>	--N.	38° 58.6' N 117° 47.4' E	Iso.R. period 4s	39 12	7	White fiberglass tower, red bands; 33.	
18527.15 <i>P 3911.33</i>	-D5.	38° 58.4' N 117° 48.3' E	Fl.G. period 4s			Starboard (A) G, beacon, topmark.	
18527.16 <i>P 3911.322</i>	-N45.	38° 58.4' N 117° 48.6' E	V.Q.(6)+L.Fl.W. period 10s			S. CARDINAL YB, tower, topmark.	
18527.17 <i>P 3911.3</i>	-International Cruise Terminal.	38° 58.4' N 117° 49.4' E	Iso.G. period 4s	46 14	7	White column, black bands; 39.	
18527.2 <i>P 3911.5</i>	-Bomaik Wharf, N.	38° 56.5' N 117° 46.2' E	Iso.G. period 4s	46 14	4	White column, green bands; 39.	
18527.21 <i>P 3911.591</i>	Tianjin Gang, Oil Supply Pier, No 2, E.	38° 57.6' N 117° 45.1' E	Iso.G. period 2s	49 15	7	White pile, green bands; 39.	
18527.22 <i>P 3911.592</i>	---W.	38° 57.6' N 117° 45.0' E	Iso.R. period 2s	49 15	7	White pile, red bands; 39.	
18527.3 <i>P 3911.56</i>	Industrial zone pier.	38° 57.7' N 117° 43.5' E	Iso.G. period 4s	49 15	7	White column, green bands; 39.	
18527.35 <i>P 3911.55</i>	Chemical Pier.	38° 57.1' N 117° 44.7' E	Iso.R. period 4s	39 12	7	Red and white round fiberglass tower; 33.	
18527.4 <i>P 3911.54</i>	Lingang Fubao Pier.	38° 56.9' N 117° 45.4' E	Fl.R. period 3s	46 14	7	Red pile; 39.	
18527.45 <i>P 3911.52</i>	Lingang Berth, No 11.	38° 56.8' N 117° 45.7' E	Iso.R. period 4s	59 18	7	Red column, green bands; 49.	AIS (MMSI No 994131407).
18527.46 <i>P 3911.4</i>	Lingang Jiayue, Grain and Oil Pier, E.	38° 56.1' N 117° 48.2' E	Iso.R. period 4s	59 18	7	White pillar, red bands; 49.	AIS (MMSI No 994131405).
18527.5 <i>P 3906.4</i>	Dongying Gang.	38° 08.3' N 119° 02.7' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	59 18	7	White metal tower, green bands; 39.	
18528 <i>P 9690.4</i>	Laizhou Wan.	38° 08.4' N 119° 34.7' E	Mo.(U)W. period 15s		10	Platform.	Mo.(U) 15s 15M Siren marks wellhead 2.5 miles NNE. Fl.(2) 5s mark wellheads 1.4 miles and 5.8 miles S. Siren.
18532 <i>P 3897</i>	Qimu Jiao.	37° 41.1' N 120° 13.6' E	Fl.W. period 5s fl. 1s, ec. 4s	233 71	20	White round concrete tower; 59.	
RACON			C(- • - •)				(3cm).
18532.5 <i>P 3898.5</i>	Xinhangdao Range, front.	37° 37.4' N 120° 15.6' E	F.R.	92 28	8	Black metal framework tower, black diamond daymark; 79.	
18532.51 <i>P 3898.51</i>	-Rear, 1000 meters 143°59' from front.	37° 37.0' N 120° 16.0' E	F.R.	144 44	8	Black metal framework structure, black diamond daymark; 131.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18533 <i>P 3898</i>	Longkou Gang Range, front.	37° 38.6' N 120° 19.2' E	F.G.	105 32	8	White metal framework tower, red bands, white diamond daymark, red stripe; 105.	
18533.5 <i>P 3898.1</i>	-Rear, 400 meters 086°30' from front.	37° 38.7' N 120° 19.8' E	F.G.	151 46	8	White column, red and white diamond daymark; 141.	
18534 <i>P 3899</i>	-Turning lights Range, front.	37° 39.4' N 120° 19.1' E	FR.	52 16	3	Black metal framework tower, black diamond daymark.	
18534.5 <i>P 3899.1</i>	-Rear, 240 meters 037°28' from front.	37° 39.5' N 120° 19.2' E	FR.	69 21	3	Black metal framework tower, black diamond daymark.	
18535.1 <i>P 3905.365</i>	Laizhou Wan.	37° 25.4' N 119° 56.4' E	Q.G.	43 13	8	Black and white square metal framework tower; 26.	
18535.5 <i>P 3896.2</i>	Luanjiakou Gang, pier, N. head.	37° 47.6' N 120° 38.1' E	Q.G.	26 8	6	Black and white metal column; 20.	
18535.7 <i>P 3896.15</i>	--S. head.	37° 47.4' N 120° 38.1' E	Iso.G. period 4s	26 8	7	White metal column; 20.	
18536 <i>P 3894</i>	Beichangshan Dao.	37° 59.2' N 120° 42.7' E	Fl.W. period 10s	335 102	22 10	White round tower; 40.	Visible 122°-253°.
18537 <i>P 3895.35</i>	Lujjabazi.	37° 58.8' N 120° 39.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	82 25	8	White round stone tower; 16.	
18538 <i>P 3895.3</i>	Miao Zui.	37° 58.0' N 120° 38.4' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	157 48	8	White round stone tower; 16.	
18539 <i>P 3895.28</i>	Niutuozhi.	37° 55.9' N 120° 40.1' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	105 32	8	White round stone tower; 16.	
18556 <i>P 3892</i>	Houji Dao.	38° 03.5' N 120° 38.5' E	Fl.W. period 12s	341 104	15	Black round tower; 46.	Reserve light Fl.W. 12s.
	RACON		Z(- - • •)				(3cm).
18558 <i>P 3895.85</i>	Penglai Gang.	37° 49.8' N 120° 44.6' E	Fl.W. period 5s fl. 1s, ec. 4s	295 90	20	White round tower; 66.	Reserve light Fl.W. 5s.
18559.1 <i>P 3895.22</i>	Quezuijianzi.	37° 54.9' N 120° 43.3' E	Fl.W. period 10s fl. 1s, ec. 9s	246 75	15	White concrete column; 46.	
	RACON		Q(- - • -)				(3cm).
18560 <i>P 3893.5</i>	Dazhushan.	38° 01.5' N 120° 56.4' E	Fl.W. period 8s	669 204	15	White round tower, black bands; 33.	Reserve light Fl.W. 8s.
	RACON		B(- • • •)				(3cm).
18564 <i>P 3893</i>	Xiaozhushan Dao.	38° 01.3' N 120° 52.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	340 104	18	White round tower; 16.	Visible 258°-271°.
18568 <i>P 3892.5</i>	Beihuangcheng Dao.	38° 23.7' N 120° 54.6' E	Fl.(2)W. period 15s	561 171	25	White round masonry tower; 33.	
	RACON		M(- -)				(3cm).
YEN-TAI:							
18569 <i>P 3891.3</i>	-W. harbor, breakwater, elbow.	37° 43.4' N 121° 03.8' E	F.G.	33 10	6	White metal column, black bands; 13.	
18569.1 <i>P 3891.2</i>	---Head.	37° 43.4' N 121° 04.9' E	Iso.G. period 4s	33 10	6	White metal column; 20.	
18572 <i>P 3882</i>	-Yantai Shan.	37° 32.9' N 121° 23.8' E	Fl.W. period 9s	263 80	20	White octagonal concrete tower; 161.	Visible 210°-284°. Partially obscured by shore.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18576 <i>P 3884</i>	-Breakwater, N. head.	37° 33.5' N 121° 23.8' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	49 15	5	Red square metal framework tower; 39.	
18580 <i>P 3886</i>	-Breakwater, S. head.	37° 33.1' N 121° 24.0' E	Q.G.	49 15	8	Green square metal framework tower; 39.	
18584 <i>P 3888</i>	-Mole, head.	37° 33.4' N 121° 23.7' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	33 10	8	Green square metal framework tower; 23.	
18586 <i>P 3887</i>	-Inner Harbor Range, front.	37° 33.1' N 121° 23.3' E	FR.	102 31	3	Red square framework structure, white bands, triangular daymark point up; 97.	
18586.1 <i>P 3887.1</i>	--Rear, 280 meters 280° from front.	37° 33.2' N 121° 23.1' E	FR.	141 43	3	Red square framework structure, white bands, triangular daymark point down; 128.	
18587 <i>P 3882.5</i>	-W. Port Area Range, front	37° 33.7' N 121° 22.1' E	FR.	125 38	15	Round tower, red and white diamond daymark; 115.	N. and S. channel limits marked by F.G. range lights.
	RACON		K(- • -)				(3cm).
18587.1 <i>P 3882.51</i>	--Rear, 830 meters 248° from front.	37° 33.6' N 121° 21.6' E	FR.	161 49	15	Round tower, red and white diamond daymark; 148.	
18587.3 <i>P 3886.55</i>	-No 3 Basin, S. Breakwater.	37° 34.3' N 121° 23.5' E	Q.G.	36 11	5	Black square framework tower; 26.	
18587.6 <i>P 3881.4</i>	-Vehicle Ferry Pier.	37° 35.4' N 121° 22.8' E	FR.	30 9	4	Black metal framework structure; 13.	
18587.7 <i>P 3881.5</i>	-Operations Pier, head.	37° 35.6' N 121° 22.6' E	FG.	42 13	8	White steel column; 26.	
18587.8 <i>P 3881.6</i>	-Salvage Pier, head.	37° 35.6' N 121° 23.5' E	Q.W.	33 10	8	White square metal framework tower, black bands; 26.	
18588 <i>P 3881</i>	-Xiaoshanzi.	37° 35.6' N 121° 26.0' E	Fl.W. period 6s fl. 1s, ec. 5s	69 21	6	White square brick tower; 26.	
18592 <i>P 3880.5</i>	-Dajiaoshi (Stickup Rock).	37° 34.8' N 121° 28.2' E	Fl.(2)R. period 6s fl. 0.4s, ec. 1s fl. 0.4s, ec. 4.2s	52 16	3	Red metal pole; 13.	Visible 031°30'-273°30'. Fishing light.
18596 <i>P 3878</i>	Kongtong Dao.	37° 33.7' N 121° 30.9' E	Fl.W. period 15s	256 78	20	White round masonry tower; 62.	
	RACON		G(- - •)				(3cm).
18600 <i>P 3876</i>	Jingzi Tou.	37° 33.7' N 122° 07.2' E	Fl.W. period 15s	302 92	25	White round masonry tower; 26.	
18604 <i>P 3880</i>	Pei Shih.	37° 36.6' N 121° 35.4' E	Fl.(2)W. period 6s fl. 0.4s, ec. 1s fl. 0.4s, ec. 4.2s	92 28	8	White square masonry tower; 12.	Fishing light.
18608 <i>P 3868</i>	Zhaobei Zui.	37° 27.7' N 122° 14.6' E	Fl.W. period 8s fl. 1s, ec. 7s	95 29	15	White round metal tower and dwelling; 29.	Reserve light Fl.W. 8s.
18612 <i>P 3870</i>	-Dahong, E. entrance, N. side.	37° 29.7' N 122° 12.9' E	Fl.W. period 5s	33 10	8	Red and white masonry column; 23.	Occasional.
18616 <i>P 3869</i>	Ri Dao.	37° 28.7' N 122° 12.1' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	62 19	7	White round masonry tower; 16.	
18617 <i>P 3868.5</i>	Weihai Gang, breakwater head.	37° 27.4' N 122° 12.0' E	FR.	26 8	4	Red metal framework beacon; 16.	
18617.5 <i>P 3868.6</i>	Xingang Pier, W. side.	37° 27.1' N 122° 11.3' E	Q.W.	37 11	7	White pile, red bands; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18617.6 <i>P 3868.55</i>	-E. side.	37° 27.2' N 122° 11.5' E	Iso.W. period 6s	37 11	7	White pile, green bands; 26.	
18618 <i>P 3868.7</i>	Yang-Chia Wan.	37° 26.1' N 122° 10.8' E	Fl.W. period 4s	33 10	6	White column, black bands; 20.	
18620 <i>P 3874</i>	Yashi Dao.	37° 31.7' N 122° 10.5' E	Fl.G. period 5s	52 16	8	White pole; 20.	
18624 <i>P 3871</i>	-Qigan Zui.	37° 29.5' N 122° 08.4' E	Fl.W. period 12s	75 23	16	White round masonry tower; 36.	Reserve light Fl.W. 3s.
18624.1 <i>P 3871.35</i>	Weihai Gang, No 2.	37° 29.3' N 122° 08.8' E	Fl.G. period 6s	33 10	6	White metal pile; 26.	
18624.2 <i>P 3871.51</i>	-No 3.	37° 29.7' N 122° 08.4' E	Iso.G. period 6s	33 10	6	White metal pile; 26.	
18624.25 <i>P 3871.511</i>	-No 4.	37° 29.7' N 122° 07.8' E	Iso.R. period 6s	33 10	6	White metal pile; 26.	
18624.3 <i>P 3871.4</i>	-Tourist pier.	37° 29.6' N 122° 08.3' E	Fl.R. period 4s	33 10	6	White metal pile; 26.	
18624.4 <i>P 3871.51</i>	-Marine Police Pier, W.	37° 29.6' N 122° 07.9' E	Iso.G. period 6s	23 7	4	Green metal post, white bands; 20.	
18626 <i>P 3871.7</i>	Weihai Gang Range, front.	37° 30.4' N 122° 07.2' E	FR.	102 31	4	Red framework tower, white bands, black triangular topmark point up; 33.	
18626.1 <i>P 3871.71</i>	-Rear, 190 meters 270° from front.	37° 30.4' N 122° 07.1' E	FR.	135 41	4	Red framework tower, white bands, black triangular topmark point down; 122.	
18628 <i>P 3871.63</i>	Weihai pier, N side.	37° 30.4' N 122° 07.5' E	Q.R.	75 23	4	White square metal framework tower; 62.	
18628.5 <i>P 3871.6</i>	-S. side.	37° 30.3' N 122° 07.5' E	FR.	75 23	4	Black and white metal framework tower; 62.	
18629 <i>P 3871.3</i>	Weihai Gang, head.	37° 28.9' N 122° 08.4' E	FR.	16 5	3	White metal framework tower.	
18634 <i>P 3867</i>	Jiming Dao.	37° 27.0' N 122° 29.0' E	Fl.W. period 10s fl. 1s, ec. 9s	252 77	15	White round stone tower, red bands; 26.	
18636 <i>P 3866</i>	Hailu Dao.	37° 26.8' N 122° 40.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	233 71	15	White round masonry tower; 23.	
	RACON		X(- • • -)		20		(3cm).
18640 <i>P 3864</i>	Chengshan Jiao.	37° 23.7' N 122° 42.1' E	L.Fl.(2)W. period 20s fl. 3s, ec. 2.5s fl. 3s, ec. 11.5s	198 60	25	White stone column; 53.	Visible 117°-044°. Partially obscured 117°-158°. Reserve light Fl.(2)W. 12s 12M. Radiobeacon.
18644 <i>P 3863</i>	Waizhe Dao.	37° 15.5' N 122° 35.2' E	Fl.W. period 8s	161 49	16	White round stone tower; 46.	
18648 <i>P 3862</i>	Haimaozi Tau.	37° 09.6' N 122° 34.2' E	Fl.W. period 12s	247 75	25	White round masonry tower; 46.	
	RACON		Y(- • - -)				(3cm).
18652 <i>P 3860</i>	Moye Dao.	36° 53.8' N 122° 30.9' E	Fl.W. period 15s	93 28	15	White round tower, red bands, dwellings; 70.	Siren: 2 bl. ev. 100s (bl. 4s, si. 5s, bl. 4s, si. 87s). Radiobeacon.
18656 <i>P 3858</i>	Sushan Dao.	36° 45.1' N 122° 15.5' E	Fl.W. period 25s	379 116	20	White round masonry tower; 33.	Visible 312°-308°. Reserve light Fl.W. 10s.
18660 <i>P 3856</i>	Qianli Yan.	36° 16.1' N 121° 23.2' E	Fl.W. period 15s	276 84	24	White round masonry tower, red bands; 49.	Visible 332°-324°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18661 <i>P 3856.3</i>	Laolongtou.	36° 41.2' N 121° 14.3' E	Fl.W. period 6s fl. 0.4s, ec. 5.6s	52 16	10	Round stone tower.	AIS. Fishing light.
18661.2 <i>P 3856.29</i>	Fengcheng Gang, pier.	36° 40.7' N 121° 14.1' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	46 14	8	Red concrete structure; 39.	
18664 <i>P 3850.6</i>	Laoshan Tou.	36° 08.1' N 120° 42.7' E	Fl.W. period 6s	381 116	15	White round masonry tower; 40.	Visible 158°-072°.
	RACON		O(---)				(3cm).
18666 <i>P 3850.55</i>	Tuolou Dao.	36° 04.7' N 120° 35.0' E	L.Fl.W. period 10s fl. 2s, ec. 8s	69 21	3	White round stone tower, hexagonal stone base; 16.	
CHIAO-CHOU WAN:							
18668 <i>P 3814</i>	-Chaolian Dao.	35° 53.7' N 120° 52.6' E	Fl.W. period 10s fl. 1s, ec. 9s	262 80	24	White octagonal masonry tower; 42.	Siren: 3 bl. ev. 90s (bl. 2s, si. 3s, bl. 2s, si. 3s, bl. 4s, si. 76s).
	-RACON		G(- - •)				(3cm).
18670 <i>P 3816</i>	Xiaogong Dao.	35° 59.8' N 120° 35.1' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	164 50	15	Concrete column.	
18672 <i>P 3818</i>	Dagong Dao.	35° 57.6' N 120° 29.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	430 131	15	White round fiberglass tower; 33.	
	RACON		T(-)				
18676 <i>P 3820</i>	Zhucha Dao.	35° 56.4' N 120° 18.6' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	157 48	9	White round concrete column; 39.	Visible 276°-264°.
18678 <i>P 3821</i>	Lian Dao.	35° 56.5' N 120° 19.6' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	52 16	8	White fiberglass pile, red bands; 26.	
18679 <i>P 3812</i>	Liansan Dao.	35° 54.1' N 120° 10.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	318 97	12	Square stone tower; 20.	
18679.2 <i>P 3811</i>	Laoling Shi.	35° 53.1' N 120° 09.9' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	6	White round concrete tower; 26.	
	RACON		B(- • • •)				(3cm).
18680 <i>P 3810</i>	Lingshan Dao.	35° 44.7' N 120° 09.5' E	Fl.W. period 6s	148 45	10	White column, red bands; 39.	Visible 310°-147°.
18684 <i>P 3822</i>	Daqiao Dao.	35° 59.5' N 120° 19.7' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	59 18	15	Red metal framework tower, white concrete base; 52.	
	RACON		B(- • • •)				(3cm).
18686 <i>P 3823</i>	HUANDAO, OUTER CHANNEL LIGHTSHIP.	36° 00.1' N 120° 19.9' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	36 11		Red hull.	Radar reflector.
	RACON		K(- • -)				(3cm).
18687 <i>P 3826.5</i>	International Sailing Ship Center, breakwater.	36° 03.2' N 120° 23.0' E	Fl.W. period 8s	74 22	8	White concrete tower; 69.	

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CHINA							
18688 <i>P 3826</i>	Ch'ing Tao.	36° 03.2' N 120° 19.1' E	Fl.R. period 6.5s fl. 0.5s, ec. 6s	91 28	12	White octagonal masonry tower; 39.	Reserve light range 3M.
18690 <i>P 3827</i>	-Tuandao Wan.	36° 03.0' N 120° 18.1' E	Fl.G. period 4s	32 10	8	Green round concrete pile, white bands; 20.	
18692 <i>P 3824</i>	Tuan Dao.	36° 02.7' N 120° 17.0' E	Oc.W.R.G. period 5s lt. 4s, ec. 1s	78 24	15	White octagonal masonry tower, black bands; 50.	R. 253°-283°, W.-184°, G.- 213°. Horn: 4 bl. ev. 30s (bl. 5s, si. 2s, bl. 2s, si. 2s, bl. 5s, si. 2s, bl. 5s, si. 7s).
	RACON		Y(- • - -)				(3cm).
18694 <i>P 3824.25</i>	Huandao, <i>Buoy No 31.</i>	36° 01.9' N 120° 15.4' E	Q.R.			Superbuoy, square daymark.	
	RACON		M(- -)				(3cm).
18700 <i>P 3825</i>	ZHONGSHA JIAO LIGHTSHIP	36° 04.0' N 120° 15.3' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	33 10	6	Red hull.	Radar reflector.
	RACON		Z(- - • •)				(3cm).
18704 <i>P 3832</i>	-Mati Jiao.	36° 04.6' N 120° 17.4' E	Fl.W. period 8s	28 9	12	White round masonry tower, black bands; 36.	
	-RACON		C(- • - •)				(3cm).
18708 <i>P 3836</i>	Da Gang, N. breakwater, head.	36° 05.4' N 120° 18.2' E	Iso.W. period 4s	39 12	10	White concrete column; 26.	
18720 <i>P 3837.5</i>	-Da Gang Entrance Left, Wharf No 5, S. head.	36° 05.4' N 120° 18.5' E	Fr.R.	28 9	7	White round stone pile, red bands; 16.	
18728 <i>P 3837</i>	-Da Gang Entrance Right, wharf No 1, W. head.	36° 05.3' N 120° 18.7' E	Fl.G.	29 9	8	White masonry structure, green bands; 16.	
18732 <i>P 3844</i>	-Da Gang Range, front, mole No 2, NW. head.	36° 05.4' N 120° 19.0' E	Iso.G. period 2s	36 11	3	White metal framework tower, black trapezoidal daymark, white stripes; 30.	
18736 <i>P 3844.1</i>	--Rear, 1120 meters 074° from front.	36° 05.6' N 120° 19.6' E	Iso.G. period 2s	62 19	4	White iron framework tower, black trapezoidal daymark, white stripes; 60.	
18740 <i>P 3847</i>	-Huang Dao oil wharf, front.	36° 04.2' N 120° 13.4' E	Fl.G.	52 16	3	White round metal tower, black bands; 37.	
18744 <i>P 3847.1</i>	--Rear, 1016 meters 163°30' from front.	36° 03.6' N 120° 13.6' E	Fl.G.	62 19	3	White round metal tower, black bands; 37.	Visible 161°-166°.
18748 <i>P 3847.5</i>	--Wharf.	36° 03.8' N 120° 13.6' E	Fr.R.	36 11	3	Red round metal tower; 21.	
18748.5 <i>P 3847.65</i>	Hongxing Logistics Pier, head.	36° 04.1' N 120° 12.8' E	Iso.R. period 4s	31 10	5	White round fiberglass post, red bands; 26.	
18749 <i>P 3824.185</i>	Zhongshiyu Pier.	36° 00.5' N 120° 15.1' E	Iso.G. period 6s	39 12	8	White concrete column, green bands; 33.	
18749.1 <i>P 3824.19</i>	Huangdao Qianwan Pier.	36° 00.9' N 120° 14.1' E	Fl.R. period 4s	32 10	6	Red metal post; 20.	
18749.2 <i>P 3824.41</i>	Qingdaohaiye Oil Pier, N. head.	36° 03.4' N 120° 14.6' E	Iso.G. period 4s	59 18	10	Green fiberglass tower, white bands; 26.	
18749.5 <i>P 3824.39</i>	-S. head.	36° 03.1' N 120° 14.6' E	Iso.R. period 4s	59 18	6	Red fiberglass tower, white bands; 26.	
18749.6 <i>P 3824.38</i>	Huangdao Oil Terminal, No 2, N. head.	36° 03.1' N 120° 14.6' E	Fr.R.				
18749.65 <i>P 3824.37</i>	--S head.	36° 02.8' N 120° 14.5' E	Fl.G.				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18749.7 <i>P 3824.36</i>	-No 3, N. head.	36° 02.8' N 120° 14.5' E	Fl.(2)G. period 5s				
18749.75 <i>P 3824.35</i>	--S. head.	36° 02.5' N 120° 14.5' E	Fl.(2)R. period 5s				
18749.8 <i>P 3824.34</i>	Huangdao, breakwater, head.	36° 02.5' N 120° 13.7' E	F.R.				
18749.95 <i>P 3812.45</i>	Liujiia Dao.	35° 55.5' N 120° 11.0' E	Iso.W. period 4s	43 13	5	Black and white tower; 26.	
18749.96 <i>P 3812.48</i>	Tangdao Wan, breakwater, head.	35° 56.7' N 120° 12.4' E	Iso.R. period 4s	36 11	5	Red and white tower; 26.	
18749.97 <i>P 3812.5</i>	Jimiya Gang, breakwater, head.	35° 55.2' N 120° 09.8' E	Iso.G. period 4s	36 11	5	Green and white tower; 26.	
18749.99 <i>P 3812.8</i>	Dawan Gang, breakwater, head.	35° 54.7' N 120° 08.4' E	Iso.G. period 4s	39 12	5	Green and white tower; 26.	
18750 <i>P 3813</i>	Lingshan Chuanchang, pier, head.	35° 54.6' N 120° 08.2' E	F.R.	30 9			
18751 <i>P 3809</i>	Dazhushan Zui.	35° 43.7' N 120° 00.2' E	Fl.W. period 3s fl. 1s, ec. 2s	545 166	20	White concrete tower, black bands; 33.	
	RACON		G(- - •)				(3cm).
18751.2 <i>P 3808.8</i>	Zhaitang.	35° 37.5' N 119° 55.4' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	262 80	10	Square stone tower; 39.	Fishing light.
18751.3 <i>P 3808.65</i>	Dongjiakou Gangqu, Huaneng pier.	35° 35.9' N 119° 47.7' E	F.R.	39 12	8	White fiberglass tower, red bands; 26.	
18751.4 <i>P 3808.6</i>	Dongjiakou Zui.	35° 35.1' N 119° 45.4' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	89 27	6	Round stone tower; 36.	Shown Apr. to Aug. Fishing light.
18752 <i>P 3808</i>	Rizhao.	35° 23.7' N 119° 33.6' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s	128 39	18	White concrete tower; 119.	AIS.
18753 <i>P 3808.2</i>	-Coal Pier Range, front.	35° 22.7' N 119° 33.8' E	F.R.	65 20	5	Metal framework tower, diamond daymark; 69.	
18753.1 <i>P 3808.21</i>	--Rear, 330 meters 345°45' from front.	35° 22.8' N 119° 33.8' E	F.R.	95 29	5	Metal framework tower, diamond daymark; 92.	
18753.4 <i>P 3808.1</i>	Bulk Pier.	35° 22.1' N 119° 32.4' E	Iso.W. period 4s	43 13	5	Red and white fiberglass tower; 26.	
18753.7 <i>P 3808.4</i>	--Head.	35° 21.9' N 119° 34.1' E	F.R.				
18753.9 <i>P 3807.7</i>	Kuishan Zui.	35° 20.3' N 119° 30.7' E	F.R.	55 17	6	Triangular wooden framework structure.	Fishing light.
18753.91 <i>P 3806.5</i>	Lanshan Gang, chemical pier.	35° 05.3' N 119° 22.4' E	Oc.G. period 5s lt. 3s, ec. 2s	43 13	8	White pile, green bands; 36.	
18754.1 <i>P 3805.84</i>	Zhewanghai Kou, E.	35° 03.5' N 119° 13.7' E	Fl.(3)G. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	33 10	5	Square metal framework beacon; 30.	
18754.5 <i>P 3805.7</i>	Mazhuang Hekou.	34° 58.4' N 119° 11.9' E	Fl.G. period 4s	49 15	5	Metal framework tower; 39.	
18756 <i>P 3806</i>	Cheniu Shan.	34° 59.7' N 119° 49.3' E	Fl.W. period 12s fl. 1s, ec. 11s	285 87	24	White round concrete tower; 72.	Obscured over small area by Ping Dao and Danian Shan. Reserve light range 15M.
	RACON		C(- • - •)				(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
LIANYUN GANG:							
18760 <i>P 3804</i>	-Yangwo Tou.	34° 45.4' N 119° 29.7' E	Fl.(3)W. period 20s	410 125	18	White square concrete tower; 52.	Reserve light range 5M.
18761 <i>P 3800.5</i>	-Tide gauge.	34° 45.9' N 119° 36.0' E	Fl.(2)W. period 5s			ISOLATED DANGER BRB, beacon, topmark.	
18762 <i>P 3802.4</i>	-W. breakwater.	34° 44.8' N 119° 27.3' E	Mo.(C)Y. period 12s	43 13	2	SPECIAL Y, beacon, "X" topmark; 39.	
18764 <i>P 3802.3</i>	-E. breakwater.	34° 44.6' N 119° 27.5' E	Mo.(C)Y. period 12s	49 15	2	SPECIAL Y, beacon, "X" topmark; 39.	
18765 <i>P 3803.2</i>	-Xilian Dao, breakwater, head.	34° 46.6' N 119° 26.2' E	Fl.R. period 4s	56 17	5	Red pile beacon; 30.	
18768 <i>P 3802.5</i>	-Pier No 2, NE. head.	34° 44.4' N 119° 27.1' E	Q.W.	20 6	5	N. CARDINAL BY, beacon, topmark; 18.	
18776 <i>P 3800.97</i>	-Shaoxiang Hekou, S.	34° 40.1' N 119° 27.5' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	66 20	5	White round metal column, red bands; 39.	
18777 <i>P 3800.7</i>	-Main Channel A Range, front.	34° 43.8' N 119° 29.5' E	Iso.W. period 4s	121 37	20	Metal framework tower, black rectangular daymark, white stripes; 131.	F.Y. lights mark channel limits.
18777.1 <i>P 3800.71</i>	--Rear, 1470 meters 243° from front.	34° 43.3' N 119° 28.3' E	Iso.W. period 4s	213 65	20	Metal framework tower, black rectangular daymark, white stripes; 158. Secondary structure: Red rectangular daymark, white stripes.	Synchronized.
			Iso.R. period 4s	249 76	7		
18777.5 <i>P 3800.64</i>	-Entrance, breakwater, N.	34° 44.8' N 119° 31.2' E	Iso.W. period 2s	69 21	10	White concrete column, green bands; 39.	AIS (MMSI No 999412128).
18777.6 <i>P 3800.65</i>	--S.	34° 44.2' N 119° 31.2' E	Iso.W. period 2s	69 21	10	White concrete column, red bands; 39.	AIS (MMSI No 999412129).
18778.13 <i>P 3803</i>	-Basin No 1 Range, front.	34° 44.1' N 119° 27.1' E	Q.R.	69 21	3	Red metal framework tower, white triangular daymark point up, black stripe; 62.	
18778.15 <i>P 3803.1</i>	--Rear, 159 meters 210°55' from front.	34° 44.0' N 119° 27.0' E	Q.R.	85 26	3	Red metal framework tower, white triangular daymark point up, black stripe; 43.	Synchronized.
18778.2 <i>P 3803.85</i>	-Kangyun Oil Pier Range, front.	34° 44.8' N 119° 28.7' E	FR.	59 18	3	Metal framework tower, black and white rectangular daymark; 30.	
18778.21 <i>P 3803.86</i>	--Rear, 230 meters 000° from front.	34° 45.0' N 119° 28.7' E	FR.	95 29	3	Masonry tower, black and white rectangular daymark; 15.	
18778.25 <i>P 3803.81</i>	-Kangyun Oil Basin Range, front.	34° 44.9' N 119° 28.5' E	FG.	49 15	3	Metal framework tower, black and white round daymark; 20.	
18778.26 <i>P 3803.82</i>	--Rear, 130 meters 000° from front.	34° 45.0' N 119° 28.5' E	FG.	69 21	3	Metal framework tower, black and white round daymark; 30.	
18778.5 <i>P 3803.25</i>	-Xidadi Range, front.	34° 45.8' N 119° 25.0' E	Iso.R. period 2s	98 30	10	Four-sided metal framework tower, white rectangular daymark, red stripe; 92.	
18778.55 <i>P 3803.251</i>	--Rear, 864 meters 291°58' from front.	34° 45.9' N 119° 24.5' E	Iso.R. period 2s	174 53	10	Four-sided metal framework tower, white rectangular daymark, red stripe; 158.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18778.6 <i>P 3803.6</i>	-Shuidao Range, front.	34° 45.2' N 119° 27.8' E	Iso.R. period 2s	299 91	10	Three-sided metal framework tower, white rectangular daymark, red stripe; 43.	
18778.7 <i>P 3803.61</i>	--Rear, 860 meters 090° from front.	34° 45.2' N 119° 28.4' E	Iso.R. period 2s	413 126	10	Three-sided metal framework tower, white rectangular daymark, red stripe; 92.	
18778.8 <i>P 3803.48</i>	-Miaosan Container Wharf.	34° 44.9' N 119° 26.9' E	Iso.R. period 4s	43 13	4	White metal column, red bands; 30.	
18779 <i>P 3803.5</i>	-Coal pier.	34° 45.0' N 119° 24.9' E	Fl.R. period 2s	69 21	3	White round metal column, red bands; 39.	
18779.01 <i>P 3805.22</i>	-Qiangwei He River, head.	34° 47.4' N 119° 13.5' E	Fl.(2)R. period 6s	49 15	5	White metal column, red bands; 39.	
18779.1 <i>P 3803.43</i>	-Xishu.	34° 45.7' N 119° 19.7' E	Fl.W. period 4s	85 26	5	White metal column, red bands; 39.	
18779.2 <i>P 3803.3</i>	-Zhu Dao.	34° 46.4' N 119° 20.6' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	236 72	7	White concrete column, green bands; 49.	
18779.3 <i>P 3803.4</i>	-Xugou Range, front.	34° 45.1' N 119° 22.5' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	164 50	10	Metal framework tower, concrete base, white rectangular daymark, black stripe; 161.	N. and S. limit of channel marked by F.Y. lights in line.
18779.31 <i>P 3803.41</i>	--Rear, 1330 meters 269°58' from front.	34° 45.1' N 119° 21.6' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	266 81	10	White round concrete tower, white rectangular daymark, black stripe; 75.	Visible 225°-315°. Reserve light F.R. 4M.
	--RACON		M(- -)				Azimuth coverage 315°-225°. (3cm).
18779.312 <i>P 3799.505</i>	-Xuwei Range, front.	34° 35.7' N 119° 35.2' E	Iso.R. period 2s	98 30	15	Metal framework tower, red rectangular daymark, black and white stripes; 98.	
18779.313 <i>P 3799.506</i>	--Rear.	34° 34.7' N 119° 34.9' E	Iso.R. period 2s	167 51	15	Metal framework tower, rectangular daymark, black and white stripes; 177.	
	--RACON		X(- • • -)				
18779.315 <i>P 3799.51</i>	Xuwei Ocean Station.	34° 39.9' N 119° 38.7' E	Mo.(U)W. period 15s	49 15	10	Yellow four-sided concrete column; 46.	AIS (MMSI No 999412112).
18779.316 <i>P 3799.5</i>	Fuzi Kou.	34° 33.2' N 119° 39.2' E	Fl.(3)G. period 10s	43 13	5	Metal structure; 39.	
18779.317 <i>P 3799.52</i>	Guanhe Kou, W.	34° 31.5' N 119° 41.5' E	Fl.(3)R. period 10s	66 20	5	Metal tower; 39.	
18779.318 <i>P 3799</i>	Yanwei Gang.	34° 28.9' N 119° 46.9' E	Fl.(3)G. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	46 14	5	White concrete column, black bands; 26.	
	RACON		Y(- • - -)				(3cm).
18779.319 <i>P 3799.05</i>	Diaowei He.	34° 28.3' N 119° 46.9' E	Fl.G. period 4s	46 14	4	Gray four-sided metal column; 39.	
18779.32 <i>P 3798</i>	Kaishan Dao.	34° 31.8' N 119° 52.3' E	Fl.W. period 5s	154 47	18	White round concrete tower; 42.	Reserve light range 5M.
	RACON		K(- • -)				(3cm).
18779.321 <i>P 3797.8</i>	-Wind Tower, No 1.	34° 32.7' N 119° 54.1' E	Mo.(C)Y. period 12s	30 9	5	SPECIAL Y, beacon, "X" topmark.	
	-RACON		C(- • • •)				(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18779.34 <i>P 3796.8</i>	Zhendongzha Kou, R.	34° 12.5' N 120° 17.8' E	Fl.(2)G. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	56 17	5	White metal column, green bands; 43.	
	Racon		X(- • • -)				(3cm).
18779.38 <i>P 3795.3</i>	Sheyang Wind Tower.	33° 57.1' N 120° 35.4' E	Mo.(C)Y. period 12s	52 16	4	Yellow four-sided metal framework tower.	AIS (MMSI No 999412113).
18779.39 <i>P 3795.4</i>	--No H4.	33° 58.1' N 120° 51.0' E	Mo.(C)Y. period 12s	56 17	4	SPECIAL Y, beacon, "X" topmark; 39.	AIS (MMSI No 999412120).
18779.4 <i>P 3795</i>	Sheyanghe Kou.	33° 49.2' N 120° 28.8' E	Fl.(2)W. period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 10s	89 27	6	White metal framework tower, red bands.	
	RACON		O(- - -)				(3cm).
18779.5 <i>P 3794.5</i>	Xinyanggang Kou.	33° 39.0' N 120° 34.0' E	Fl.W. period 12s fl. 0.5s, ec. 11.5s	89 27	12	Wooden framework tower; 95.	Fishing light. Reserve light range 6M.
18779.6 <i>P 3794.2</i>	Doulonggang.	33° 28.9' N 120° 40.1' E	Fl.(3)W. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 7s	33 10	10	Black wooden framework tower.	
18779.65 <i>P 3794.175</i>	Chuandongzha.	33° 04.1' N 120° 51.7' E	Fl.W. period 4s	69 21	7	White concrete column, green bands; 49.	
18779.7 <i>P 3794.18</i>	Chuandonggang Kou.	32° 57.8' N 121° 19.5' E	Fl.W. period 12s fl. 1s, ec. 11s	33 10	10	Black metal pile; 33.	
18779.79 <i>P 3794.168</i>	Yangkou Gang, NW.	32° 33.8' N 121° 02.3' E	Fl.G. period 4s	59 18	5	White metal column, green bands; 39.	
	RACON		X(- • • -)				(3cm).
18779.8 <i>P 3794.14</i>	Xiaoyang Gang.	32° 30.2' N 121° 07.2' E	Fl.(2)W. period 6s	30 9	7	Framework tower.	Fishing light.
18779.81 <i>P 3794.137</i>	Liubu Gang, W.	32° 30.0' N 121° 11.9' E	Fl.(3)G. period 10s	62 19	5	White metal column, green bands; 39.	
18779.82 <i>P 3794.138</i>	-E.	32° 29.0' N 121° 13.3' E	Fl.(3)R. period 10s	62 19	5	White metal column, red bands; 39.	
18779.85 <i>P 3794.199</i>	Macaiheng.	33° 21.8' N 121° 20.8' E	Fl.W. period 6.5s	85 26	15	White round beacon.	Reserve light Fl.W. 5s 5M.
	RACON		D(- • •)				(3cm).
18779.88 <i>P 3794.1717</i>	Rudong Wind Tower, No 6.	32° 42.2' N 121° 26.6' E	Mo.(C)Y. period 12s	36 11	4	SPECIAL Y, beacon, "X" topmark; 30.	AIS (MMSI No 999412122).
18779.89 <i>P 3794.1719</i>	-No 7.	32° 49.4' N 121° 40.7' E	Mo.(C)Y. period 15s	36 11	4	SPECIAL Y, beacon, "X" topmark; 30.	AIS (MMSI No 999412123).
18779.9 <i>P 3794.172</i>	Waikejiao.	33° 00.9' N 121° 38.4' E	Fl.W. period 5s	85 26	15	White round beacon.	Reserve light range 5M.
	RACON		D(- • •)				(3cm).
18779.91 <i>P 3794.046</i>	Tanglugang Kou, S.	31° 55.7' N 121° 50.0' E	Fl.R. period 4s	56 17	5	White concrete column, red bands; 46.	
18779.93 <i>P 3794.114</i>	Dayang Gang, E.	32° 05.0' N 121° 35.9' E	Fl.(3)R. period 10s	66 20	5	White metal column, red bands; 39.	
	RACON		M(- -)				(3cm).
18779.94 <i>P 3794.135</i>	Yaowang Gang.	32° 08.6' N 121° 27.5' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	62 19	5	White metal column, red bands; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18779.95 P 3794.136	Dongling Gang.	32° 16.6' N 121° 26.3' E	Fl.R. period 4s	66 20	5	White hexagonal concrete tower, red bands; 46.	
CHINA-CH'ANG CHIANG (YANGTZE RIVER)							
18780 P 3762	Sheshan.	31° 25.3' N 122° 14.5' E	Fl.W. period 6s	230 70	22	Black round tower, white dwelling; 55.	Reserve light Fl.W. 6s 15M.
18784 P 3753	Jigu Jiao.	31° 10.4' N 122° 22.9' E	Fl.W. period 5s fl. 1s, ec. 4s	171 52	18	White round fiberglass tower, red bands; 66.	Reserve light Fl.W. 5s 10M.
	RACON		B(- • • •)				
18792 P 3752	CHANGJIANG KOU LIGHTSHIP.	31° 06.2' N 122° 32.0' E	Fl.W. period 6s		10	Red hull.	AIS (MMSI No 999412205). Bell. Radar reflector.
	RACON		O(- - -)				(3cm).
18793	<i>Changjiang Kou Buoy No S12.</i>	31° 03.2' N 122° 08.2' E	Mo.(A)W. period 6s			SAFE WATER RW, buoy, topmark.	
	RACON		X(- • • -)				(3cm).
18794 P 3751	NANCAO LIGHTFLOAT.	30° 59.5' N 122° 32.0' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 11.5s		10	Red hull.	AIS (MMSI No 999412204). Bell. Radar reflector.
	RACON		N(- •)				(3cm).
18796 P 3750	NANZI LIGHTSHIP.	30° 58.5' N 122° 11.1' E	Fl.W. period 10s fl. 0.8s, ec. 9.2s		10	Red hull.	AIS (MMSI No 999412209). Bell. Radar reflector.
	RACON		M(- -)				(3cm).
18808 P 3754.2	Niupi Jiao tide station.	31° 08.4' N 122° 15.1' E	V.Q.(6)+L.Fl.W. period 10s	39 12	7	S. CARDINAL YB, beacon, topmark.	
	RACON		C(- • - •)				(3cm).
18816	Zhong Jun.	31° 06.7' N 121° 54.3' E	Mo.(O)Y. period 12s	28 9	4	SPECIAL Y, beacon, "X" topmark; 30.	
18816.5 P 3767.5	-Hydrometers Station, No 2.	31° 06.9' N 121° 54.6' E	Mo.(C)Y. period 12s	52 16	10	Yellow metal post; 10.	AIS (MMSI No 999412227).
18824 P 3768	JIUDUAN LIGHTSHIP.	31° 05.5' N 121° 59.7' E	Fl.(2)W. period 10s		7	Metal pillar beacon, red hull.	AIS (MMSI No 999412208). Bell. Radar reflector.
	RACON		K(- • -)				(3cm).
18824.1 P 3768.9	Chuanyang He, No 1.	31° 13.5' N 121° 45.9' E	Fl.G. period 6s	33 10	3	White metal column, green bands; 23.	
18824.2 P 3768.8	-No 2.	31° 13.2' N 121° 46.1' E	Fl.R. period 6s	33 10	3	White metal column, red bands; 23.	
18824.3 P 3764.6	Dazhi He, No 1.	31° 02.1' N 121° 59.3' E	Fl.G. period 6s	25 8	3	White metal column, green bands; 23.	AIS (MMSI No 999412244).
18824.4 P 3764.5	-No 2.	31° 01.8' N 121° 59.7' E	Fl.R. period 6s	30 9	3	White metal column, red bands; 23.	
	-RACON		O(- - -)				
18825 P 3754.61	North Training Wall, No 1.	31° 17.9' N 121° 52.8' E	Fl.Y. period 6s	16 5	3	Black pile.	
18825.01 P 3754.613	-No 2.	31° 17.8' N 121° 55.3' E	Fl.(2)Y. period 6s	16 5	3	Black pile.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA-CH'ANG CHIANG (YANGTZE RIVER)							
18825.02 <i>P 3754.616</i>	-No 3.	31° 17.7' N 121° 58.4' E	Fl.(3)Y. period 6s	16 5	3	Black pile.	
18825.03 <i>F 3754.619</i>	-No 4.	31° 17.0' N 122° 02.0' E	Fl.Y. period 6s	16 5	3	Black pile.	
18825.04 <i>P 3754.622</i>	-No 5.	31° 15.8' N 122° 05.5' E	Fl.(2)Y. period 6s	16 5	3	Black pile.	
18825.05 <i>P 3754.625</i>	-No 6.	31° 14.4' N 122° 08.0' E	Fl.(3)Y. period 6s	16 5	3	Black pile.	
18825.06 <i>P 3754.626</i>	-No 7.	31° 12.9' N 122° 10.5' E	Fl.Y. period 6s		5	Black pile; 26.	
18825.07 <i>P 3754.627</i>	-No 8.	31° 11.6' N 122° 12.7' E	Fl.(2)Y. period 6s		5	Black pile; 33.	
18825.08 <i>P 3754.628</i>	-No 9.	31° 10.2' N 122° 14.9' E	Fl.(3)Y. period 6s		5	Black pile; 33.	
18825.09 <i>P 3754.638</i>	-No 10.	31° 08.9' N 122° 17.1' E	Fl.Y. period 6s		5	Black pile; 33.	
18825.1 <i>P 3754.63</i>	-N. spur, No 1.	31° 17.1' N 121° 52.6' E	Q.Y.	26 8	5	Black metal column; 33.	
18825.11 <i>P 3754.633</i>	--No 2.	31° 16.4' N 121° 55.0' E	Q.Y.	26 8	5	Black metal column; 33.	
18825.12 <i>P 3754.636</i>	--No 3.	31° 15.9' N 121° 58.0' E	Q.Y.	26 8	5	Black metal column; 33.	
18825.13 <i>P 3754.6191</i>	--No 4.	31° 15.4' N 122° 01.5' E	Q.Y.	26 8	5	Black metal column; 33.	
18825.14 <i>P 3754.6221</i>	--No 5.	31° 14.7' N 122° 04.9' E	Q.Y.	26 8	5	Black metal column; 33.	
18825.15 <i>P 3754.6251</i>	--No 6.	31° 13.8' N 122° 07.5' E	Q.Y.	33 10	5	Black metal column; 39.	
18825.16 <i>P 3754.6261</i>	--No 7.	31° 12.4' N 122° 10.2' E	Q.Y.		5	Black pile; 33.	
18825.17 <i>P 3754.6271</i>	--No 8.	31° 11.1' N 122° 12.4' E	Q.Y.		5	Black pile; 39.	
18825.18 <i>P 3754.6281</i>	--No 9.	31° 09.8' N 122° 14.6' E	Q.Y.		5	Black pile; 39.	
18825.19 <i>P 3754.6381</i>	--No 10.	31° 08.5' N 122° 16.8' E	Q.Y.		5	Black pile; 39.	
18825.2 <i>P 3754.639</i>	-Head.	31° 07.8' N 122° 18.9' E	Fl.(2)Y. period 6s		5	Green and white column; 39.	
18826.01 <i>P 3754.67</i>	South Training Wall, S. spur, No 1.	31° 15.4' N 121° 52.2' E	Q.Y.	16 5	3	Black pile.	
18826.02 <i>P 3754.673</i>	--No 2.	31° 14.7' N 121° 55.2' E	Q.Y.	16 5	3	Black pile.	
18826.03 <i>P 3754.676</i>	--No 3.	31° 14.2' N 121° 58.3' E	Q.Y.	26 8	5	Black metal column; 33.	
18826.04 <i>P 3754.656</i>	--No 4.	31° 13.8' N 122° 01.5' E	Q.Y.	26 8	5	Black metal column; 33.	
18826.05 <i>P 3754.657</i>	--No 5.	31° 13.0' N 122° 04.8' E	Q.Y.	26 8	5	Black metal column; 33.	
18826.06 <i>P 3754.659</i>	--No 6.	31° 11.6' N 122° 07.4' E	Q.Y.	33 10	5	Black metal column; 39.	
18826.07 <i>P 3754.663</i>	--No 7.	31° 10.0' N 122° 09.7' E	Q.Y.	33 10	5	Black metal column; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA-CH'ANG CHIANG (YANGTZE RIVER)							
18826.08 P 3754.665	--No 8.	31° 08.5' N 122° 12.0' E	Q.Y.		5	Black pile; 39.	
18826.09 P 3754.667	--No 9.	31° 07.0' N 122° 14.3' E	Q.Y.		5	Black pile; 39.	
18826.1 P 3754.64	-No 1.	31° 16.9' N 121° 46.6' E	Fl.Y. period 6s	16 5	3	White pile, red bands.	
18826.11 P 3754.643	-No 2.	31° 15.8' N 121° 49.5' E	Fl.(2)Y. period 6s	16 5	3	Black pile.	
18826.12 P 3754.646	-No 3.	31° 15.0' N 121° 52.1' E	Fl.(3)Y. period 6s	16 5	3	Black pile.	
18826.13 P 3754.649	-No 4.	31° 14.3' N 121° 55.1' E	Fl.Y. period 6s	16 5	3	Black pile.	
18826.14 P 3754.652	-No 5.	31° 13.7' N 121° 58.2' E	Fl.(2)Y. period 6s	16 5	3	Black pile.	
18826.15 P 3754.655	-No 6.	31° 13.0' N 122° 01.2' E	Fl.(3)Y. period 6s	16 5	3	Black pile.	
18826.16 P 3754.658	-No 7.	31° 11.9' N 122° 04.1' E	Fl.Y. period 6s	16 5	3	Black pile.	
18826.17 P 3754.661	-No 8.	31° 10.5' N 122° 06.5' E	Fl.(2)Y. period 6s	16 5	3	Black pile.	
18826.18 P 3754.662	-No 9.	31° 09.0' N 122° 08.8' E	Fl.(3)Y. period 6s		5		
18826.19 P 3754.664	-No 10.	31° 07.5' N 122° 11.1' E	Fl.Y. period 6s		5		
18826.2 P 3754.666	-Head.	31° 05.9' N 122° 13.5' E	Fl.(2)Y. period 6s		5		
18826.3 P 3754.679	South Branch, No 1.	31° 16.2' N 121° 47.2' E	Q.Y.	16 5	3	Black pile.	
18828 P 3754.7	Beicaozhong tide station.	31° 14.0' N 122° 00.5' E	Mo.(O)Y. period 12s	39 12	4	SPECIAL Y, beacon, "X" topmark.	
	RACON		G(- - •)				(3cm).
18829 P 3754.69	Hengsha.	31° 18.0' N 121° 50.9' E	Fl.W. period 8s	187 57	18	White four-sided concrete tower; 187.	AIS. (MMSI No 999412213). Reserve light Fl.W. 8s 10M.
18830 P 3770	-Sewer Warning Beacon No 3.	31° 15.9' N 121° 45.0' E	Mo.(C)Y. period 15s	30 9	3	SPECIAL Y, column, "X" topmark.	
	-RACON		Y(- • - -)				(3cm).
18834 P 3770.5	-YUANYUAN SHA LANBY.	31° 19.3' N 121° 42.2' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s		10	Metal pole, red hull.	AIS (MMSI No 999412207). Bell.
	-RACON		Z(- - • •)				(3cm).
18835 P 3771	-Fenghuang.	31° 22.7' N 121° 41.3' E	Mo.(C)Y. period 12s	31 9	3	SPECIAL Y, pile, "X" topmark.	
18835.5 P 3779.621	-Qingshui Dam, No 1.	31° 25.3' N 121° 43.4' E	Mo.(C)Y. period 12s	20 6	4	SPECIAL Y, beacon, "X" topmark; 23.	
18835.51 P 3779.622	--No 2.	31° 25.3' N 121° 43.5' E	Mo.(C)Y. period 12s	20 6	4	SPECIAL Y, beacon, "X" topmark; 23.	
HUANGPU JIANG:							
18840 P 3780	-Hetang.	31° 23.8' N 121° 31.1' E	Fl.W. period 5s	56 17	13	White round concrete tower; 66.	AIS (MMSI No 999412212). Reserve light Fl.W. 5s 7M.
	-RACON		Y(- • - -)				(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA-CH'ANG CHIANG (YANGTZE RIVER)							
18841 <i>P 3780.2</i>	-Shigeng, breakwater No 1.	31° 23.8' N 121° 31.1' E	FL.Y. period 4s fl. 0.5s, ec. 3.5s	22 7	6	Black metal framework structure, ball topmark; 27.	
18842 <i>P 3780.3</i>	--No 2.	31° 23.7' N 121° 31.0' E	FL.Y. period 4s fl. 0.5s, ec. 3.5s	18 5	6	Black metal framework structure, ball topmark; 24.	
18843 <i>P 3780.4</i>	--No 3.	31° 23.7' N 121° 30.9' E	FL.Y. period 4s fl. 0.5s, ec. 3.5s	19 6	6	Black metal framework structure, ball topmark; 23.	
18844 <i>P 3780.5</i>	--No 4.	31° 23.7' N 121° 30.8' E	FL.Y. period 4s fl. 0.5s, ec. 3.5s	19 6	6	Black four-sided concrete structure; 24.	
18845 <i>P 3780.6</i>	--No 5.	31° 23.6' N 121° 30.7' E	FL.Y. period 4s fl. 0.5s, ec. 3.5s	21 6	6	Black four-sided concrete structure; 24.	
18848 <i>P 3781</i>	--Range, front.	31° 23.4' N 121° 30.2' E	F.R.	85 26	8	White framework structure, red trapezoidal daymark, white stripes; 79.	
18852 <i>P 3781.1</i>	---Rear, 210 meters 250°20' from front.	31° 23.3' N 121° 30.1' E	F.R.	112 34	8	White framework structure, red trapezoidal daymark, white stripes; 118.	Reserve light Iso.W. 4s.
	---RAMARK						Occasional.
18855 <i>P 3783</i>	-Zhajing No 1.	31° 20.6' N 121° 31.7' E	Mo.(C)Y. period 12s	22 7	4	SPECIAL Y, pillar, "X" topmark; 16.	
18856 <i>P 3782.8</i>	-Zhadian Warning, No 1.	31° 20.7' N 121° 31.4' E	Mo.(C)Y. period 12s	24 7	3	Yellow X, yellow pile; 10.	
18856.1 <i>P 3782.81</i>	--No 2.	31° 20.7' N 121° 31.4' E	Mo.(C)Y. period 12s	24 7	3	Yellow X, yellow pile; 10.	
18858 <i>P 3785.4</i>	--Range, front.	31° 19.8' N 121° 33.6' E	F.R.	36 11		Triangular daymark point up.	
18858.1 <i>P 3785.41</i>	---Rear, 100 meters 139° from front.	31° 19.7' N 121° 33.6' E	F.W.R.W. (hor.)	43 13		Triangular daymark point up.	1 meter apart.
18859 <i>F 3785.55</i>	-Donggou Gang.	31° 17.4' N 121° 34.0' E	FL.Y. period 4s	33 10	4	Yellow metal post; 30.	
18860 <i>P 3790</i>	Baoshan, breakwater No 1.	31° 25.1' N 121° 29.2' E	FL.Y. period 2s	20 6	3	White and red metal framework tower; 10.	
CHINA							
18863 <i>P 3749.1</i>	Wind Power, No 55.	30° 59.0' N 122° 07.7' E	Mo.(C)Y. period 12s	31 10	5	Yellow metal post; 3.	AIS (MMSI No 999412229).
18863.1 <i>P 3749.2</i>	-No 56.	30° 58.2' N 122° 09.7' E	Mo.(C)Y. period 12s	31 10	5	Yellow metal post; 3.	AIS (MMSI No 999412230).
18863.2 <i>P 3749.3</i>	-No 57.	30° 57.4' N 122° 07.0' E	Mo.(C)Y. period 12s	31 10	5	Yellow metal post; 3.	
18863.3 <i>P 3749.4</i>	-No 58.	30° 57.0' N 122° 09.2' E	Mo.(C)Y. period 12s	31 10	5	Yellow metal post; 3.	
18863.4 <i>P 3749.5</i>	-No 59.	30° 56.1' N 122° 06.3' E	Mo.(C)Y. period 12s	31 10	5	Yellow metal post; 3.	AIS (MMSI No 999412231).
18863.5 <i>P 3749.6</i>	-No 60.	30° 56.0' N 122° 08.5' E	Mo.(C)Y. period 12s	31 10	5	Yellow metal post; 3.	AIS (MMSI No 999412232).
18864 <i>P 3747.4</i>	Tung Tao (Haijiao).	30° 44.1' N 123° 08.6' E	FL.W. period 6s fl. 0.5s, ec. 5.5s	190 58	16	White round concrete structure; 39.	
	RACON		K(- • -)				(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18867 <i>P 3747.6</i>	Xiaoji Shan.	30° 42.8' N 122° 03.1' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	171 52	10	White metal column; 26.	AIS (MMSI No 999412203).
	RACON		Y(- • - -)				(3cm).
18868 <i>P 3748</i>	Daji Shan.	30° 48.6' N 122° 10.4' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	302 92	20	White octagonal concrete tower; 79.	Reserve light range 8M.
18872 <i>P 3746</i>	Huaniao Shan.	30° 51.7' N 122° 40.4' E	Fl.W. period 15s fl. 1s, ec. 14s	292 89	24	Black and white round tower; 52.	Visible 071°-294° and 301°-306°. Reserve light range 6M. Siren: 5 bl. ev. 60s (bl. 3s, si. 2s, bl. 3s, si. 2s, bl. 3s, si. 2s, bl. 3s, si. 2s, bl. 3s, si. 37s).
	RACON		Y(- • - -)				(3cm).
18876 <i>P 3747</i>	Taman Shan (Giffard Rock).	30° 50.0' N 122° 35.7' E	Fl.W. period 4s	108 33	8	White four-sided stone block; 10.	Fishing light.
18876.1 <i>P 3747.05</i>	Mantou Shan.	30° 48.4' N 122° 36.4' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	89 27	10	White concrete column; 33.	AIS (MMSI No 999412394).
18876.2 <i>P 3747.14</i>	Huangshidong Dao.	30° 42.9' N 122° 44.2' E	Fl.W. period 4s	102 31	4	White round concrete column; 23.	
18876.3 <i>P 3747.28</i>	Xiaogong Jiao.	30° 41.6' N 122° 47.7' E	Fl.G. period 4s	89 27	4	White and green round concrete column; 23.	
18876.5 <i>P 3747.13</i>	Xibanyang Jiao.	30° 43.1' N 122° 40.0' E	Fl.(2)W. period 5s	56 17	10	White hexagonal concrete column, red bands; 33.	
	RACON		X(- • • -)				(3cm).
18876.6 <i>P 3747.23</i>	Dazui Dao.	30° 46.4' N 122° 47.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	89 27	8	White round brick structure; 10.	Fishing light.
18876.7 <i>P 3747.26</i>	Menqian Jiao.	30° 41.5' N 122° 46.5' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	46 14	7	White round concrete tower, black bands; 39.	
18876.9 <i>P 3747.3</i>	Manyutou Dao.	30° 42.2' N 122° 49.9' E	Fl.W.R. period 12s fl. 1s, ec. 11s	171 52	W. 14 R. 8	White square stone structure; 10.	W. 220°-341°, R.-359°, W.-081°. Fishing light.
18877 <i>P 3741</i>	Lisi Jiao.	30° 46.4' N 122° 27.9' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	125 38	10	White round concrete tower; 33.	
18877.3 <i>P 3740.9</i>	Huyo Jiao.	30° 46.7' N 122° 26.9' E	Fl.(4)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	33 10	7	White round concrete tower; 33.	
18877.4 <i>P 3740.73</i>	Houxiaoshan.	30° 46.2' N 122° 23.5' E	Q.W.	66 20	4	Black and yellow metal post; 23.	
18877.5 <i>P 3740.8</i>	Biandao Jiao.	30° 46.1' N 122° 26.6' E	Fl.W.R. period 3s fl. 0.5s, ec. 2.5s	30 9	W. 18 R. 14	White four-sided concrete tower; 26.	R. 083°-117°30', W.-166°, R.-183°. Occasional.
18877.7 <i>P 3740.09</i>	Tong Jiao.	30° 41.9' N 122° 31.2' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	52 16	4	White concrete column; 23.	
18878 <i>P 3740.02</i>	Mapigu.	30° 40.4' N 122° 24.7' E	Fl.(3)W. period 10s	420 128	9	White round concrete tower, red bands; 52.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18878.2 <i>P 3740.027</i>	Waimati Jiao.	30° 39.8' N 122° 26.1' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	49 15	8	White concrete tower; 36.	
	RACON		M(- -)				(3cm).
18878.5 <i>P 3740.025</i>	Neimati.	30° 40.3' N 122° 26.2' E	Fl.W. period 1.5s	36 11	9	White round concrete column; 25.	
18878.7 <i>P 3740.028</i>	Limalang Shan.	30° 41.0' N 122° 28.3' E	Fl.(4)W. period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 7s	36 11	4	White concrete column, red bands; 23.	
18879 <i>P 3740.08</i>	Daqianzui Tou.	30° 40.8' N 122° 33.4' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	115 35	10	White hexagonal column; 28.	
18879.1 <i>P 3740.06</i>	Dahuanglong.	30° 40.0' N 122° 34.8' E	Fl.W. period 4s	299 91	9	White round concrete tower, red bands; 52.	
18879.5 <i>P 3740.055</i>	Nandingxing.	30° 38.9' N 122° 30.7' E	Fl.(2+1)W. period 9s	423 129	15	White round concrete tower, red bands; 55.	
	RACON		Y(- • - -)				(3cm).
18879.6 <i>P 3739</i>	Xiaobanian Shan.	30° 37.5' N 122° 28.4' E	Fl.(2)W. period 6s	236 72	9	White round concrete tower, red bands; 52.	
PA-KO LIEH-TAO:							
18880 <i>P 3740</i>	-Pan-yang Shan, E. end of island.	30° 38.2' N 122° 22.5' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	62 19	14	Black round concrete tower; 32.	Reserve light F.W. 8M.
	-RACON		B(- • • •)				(3cm).
18884 <i>P 3738</i>	-Pai-chieh Shan.	30° 36.9' N 122° 25.3' E	Al.Fl.W.R. period 60s	246 75	22	White round tower, red bands; 47.	Partially obscured 166°-260°. Reserve light F.W. 8M.
18885 <i>P 3717.99</i>	-Wind Farm, No 34.	30° 45.7' N 122° 01.6' E	Mo.(C)Y. period 15s		5		AIS (MMSI No 999412220).
18885.8 <i>P 3718.15</i>	Shengce, No 5, No 6.	30° 34.2' N 121° 38.1' E	2 Mo.(C)Y. period 12s	26 8	4	SPECIAL Y, pile, "X" topmark; 3.	AIS (MMSI No 999412336).
18885.9 <i>P 3718.25</i>	Jiace, No 3, No 4.	30° 36.5' N 121° 27.5' E	2 Mo.(C)Y. period 12s	26 8	4	SPECIAL Y, pile, "X" topmark; 3.	AIS (MMSI No 999412335).
18886 <i>P 3718.3</i>	Dajinshan Dao.	30° 41.5' N 121° 25.2' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	344 105	10	White metal column, red stripes; 30.	
18886.5 <i>P 3718.498</i>	Yi Shan.	30° 37.4' N 121° 09.0' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	66 20	10	White concrete column; 43.	
18887 <i>P 3718.53</i>	Guancai Jiao.	30° 35.6' N 121° 08.5' E	Fl.(2)W. period 5s	43 13	4	Black round concrete column, red bands; 33.	AIS (MMSI No 999412371).
18887.4 <i>P 3717.972</i>	--No 17.	30° 49.7' N 121° 55.8' E	F.G.				
18887.45 <i>P 3717.968</i>	--No 13.	30° 46.8' N 121° 57.4' E	F.G.				
18887.5 <i>P 3717.9</i>	Luchao Gang, No 1.	30° 50.6' N 121° 50.6' E	Fl.Y. period 4s	36 11	5	Red metal framework tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18887.51 P 3717.964	--No 7.	30° 43.5' N 121° 58.5' E	F.G.				AIS (MMSI No 999412210). F.G. on each side.
	--RACON		T(-)				(3cm).
18887.52 P 3717.96	-Donghai Bridge, Trial Warning, No 3.	30° 40.6' N 121° 59.8' E	Fl.(2)W. period 5s	36 11	3	ISOLATED DANGER BRB, beacon, topmark; 16.	
18887.53 P 3717.961	--No 2.	30° 40.4' N 121° 59.9' E	F.G.				
18887.54 P 3717.962	--No 3.	30° 40.5' N 121° 59.9' E	F.G.				
18887.7 P 3717.31	Shengsi Wind Farm, Wind Tower, No 1, No 2.	30° 41.0' N 121° 49.7' E	Mo.(C)Y. period 12s	26 8	4	SPECIAL Y, column, "X" topmark; 3.	AIS (MMSI No 999412325).
18888 P 3717.5	Ziaowugui.	30° 39.6' N 122° 00.7' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	98 30	10	White concrete tower, black bands; 35.	Fishing light.
18888.5 P 3717.33	Shengsi Wind Farm, Wind Tower, No 3, No 4.	30° 43.7' N 122° 08.7' E	Mo.(C)Y. period 15s	26 8	4	SPECIAL Y, column, "X" topmark; 3.	AIS (MMSI No 999412326).
18892 P 3717	Tangnao Shan.	30° 35.8' N 121° 58.1' E	Fl.(3)W. period 10s	135 41	18	White round concrete tower; 72.	Visible 326°-323°. Reserve light F.W. 7M.
	RACON		Z(- - • •)				(3cm).
18892.3 P 3717.754	Qiqu Liedao.	30° 35.6' N 122° 05.1' E	Fl.W. period 10s	328 100	18		AIS (MMSI No 999412215).
18892.31 P 3717.74	Shaoji Dao.	30° 35.3' N 122° 07.6' E	Fl.(2)W. period 6s	115 35	10	White round concrete tower; 40.	
18892.32 P 3717.78	Huxiaoshe Dao.	30° 34.9' N 122° 09.0' E	Fl.W. period 4s	131 40	10	White round concrete tower; 46.	
18892.34 P 3717.79	Xima Shan Dao, N.	30° 34.1' N 122° 08.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	85 26	7	White metal column; 33.	
18892.4 P 3718.84	Huangze Shan.	30° 31.8' N 122° 20.5' E	Fl.(2)W. period 6s	115 35	10	Red and white round concrete tower; 46.	
18892.45 P 3718.81	-Xiaoqu Shan.	30° 31.6' N 122° 15.9' E	Fl.(4)W. period 15s	525 160	15	White concrete tower; 62.	
	-RACON		C(- • - •)				(3cm).
18892.48 P 3718.89	Xugong Dao.	30° 37.9' N 122° 16.4' E	Fl.(4)W. period 10s	95 29	7	White concrete column; 33.	
	RACON		G(- - •)				(3cm).
18892.5 P 3718.82	Xiaoqu Zui.	30° 30.9' N 122° 15.2' E	Fl.(2)W. period 8s	39 12	4	White concrete tower; 23.	
18892.7 P 3734.8	Xiahai Shan.	30° 29.2' N 122° 24.8' E	Fl.(3)W. period 10s	95 29	10	White round concrete tower; 46.	
18892.8 P 3718.833	Shizi Zui.	30° 28.8' N 122° 22.2' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	30 9	3	White round concrete column, red bands; 26.	
18893 P 3718.8	Laitou Zhi.	30° 27.8' N 122° 14.5' E	Fl.(3)W. period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8.5s	121 37	10	White conical concrete structure; 31.	
	RACON		M(- -)				(3cm).
18896 P 3734	Xiasanxing Shan.	30° 26.1' N 122° 31.7' E	Fl.(3)W. period 20s	259 79	22	White hexagonal concrete structure; 87.	Visible 112°-039°. Reserve light range 8M.
	RACON		M(- -)				(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18900 <i>P 3728</i>	Fengchao Yan.	30° 22.4' N 122° 41.2' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	86 26	10	White round concrete mast; 36.	AIS (MMSI No 999412381).
	RACON		N(- •)				(3cm).
18902 <i>P 3730</i>	Langgang Shan.	30° 26.2' N 122° 56.0' E	Fl.(4)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	350 107	10	White round concrete tower; 48.	
	RACON		Q(- - • -)				(3cm).
18902.5 <i>P 3719.8</i>	Liangxiongdi Yu.	30° 10.2' N 122° 56.7' E	Fl.W. period 2s	105 32	15	White concrete column; 46.	AIS (MMSI No 999412382).
	RACON		M(- -)				(3cm).
18903 <i>P 3724</i>	Dongfu Shan, NW.	30° 08.6' N 122° 45.2' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	69 21	7	White round concrete column; 33.	
18903.1 <i>P 3723</i>	Xifu Shan, S.	30° 10.3' N 122° 42.9' E	Fl.(4)W. period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 7s	39 12	4	White round concrete column, black bands; 33.	
18903.3 <i>P 3721.3</i>	Yezi Shan.	30° 10.2' N 122° 40.1' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	46 14	7	White concrete column; 23.	
18903.5 <i>P 3720.7</i>	Huangxing Dao, N.	30° 12.8' N 122° 38.8' E	Fl.(2)W. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	36 11	4	White concrete tower; 23.	
18903.7 <i>P 3720.3</i>	Xiaoqing Shan.	30° 12.2' N 122° 37.2' E	Fl.R. period 4s	43 13	4	Red and white round concrete column; 33.	
18904 <i>P 3720</i>	Xiaoguishan.	30° 12.7' N 122° 35.5' E	Fl.(2)W. period 10s	246 75	18	Black round tower; 36.	Visible 039°-096°, 114°-296° and 300°-019°. Reserve light F.W. 8M.
	RACON		O(- - -)				(3cm).
18904.5 <i>P 3719.9</i>	Dameimei Jiao.	30° 13.7' N 122° 33.2' E	Fl.(2)R. period 6s	98 30	4	Red and white round concrete column; 33.	
18905 <i>P 3719.88</i>	Guang Jiao.	30° 13.7' N 122° 32.0' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	7	White round concrete tower; 33.	
18906 <i>P 3716.753</i>	Yaque Jiao.	30° 20.4' N 121° 59.2' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	26 8	4	White round column; 20.	
18908 <i>P 3716.8</i>	Yuxingnao.	30° 20.8' N 121° 51.6' E	Fl.(2)W. period 20s	89 27	15	Black round tower; 33.	Reserve light F.W. 8M. AIS (MMSI No 999412383). Horn: 2 bl. ev. 90s.
	RACON		O(- - -)				(3cm).
18908.5 <i>P 3716.751</i>	Daxiapa Jiao.	30° 21.7' N 122° 03.6' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	49 15	4	White concrete cone; 23.	
18908.6 <i>P 3716.748</i>	Daopeng Jiao.	30° 19.8' N 122° 13.7' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	89 27	4	White round concrete column; 23.	
18908.7 <i>P 3716.66</i>	Donghuo Shan.	30° 15.0' N 121° 43.3' E	Fl.(2)W. period 6s	180 55	7	White concrete column, red band; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18908.9 <i>P 3716.7</i>	Huagu Shan.	30° 18.7' N 122° 01.4' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	118 36	3	White hexagonal concrete column; 33.	
	RACON		Y(- • - -)				(3cm).
18909 <i>P 3716.71</i>	Xiaochang Shan.	30° 10.0' N 122° 06.9' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	85 26	9	White round concrete column; 36.	
18909.1 <i>P 3716.727</i>	Ming Jiao.Hanlinshi, E. Rock.	30° 12.5' N 122° 11.0' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	52 16	7	White hexagonal concrete column; 52.	
	RACON		G(- - •)				(3cm).
18909.3 <i>P 3716.715</i>	Laitou Jiao.	30° 09.1' N 122° 07.3' E	Fl.(3)W. period 10s	39 12	7	White hexagonal concrete column; 33.	
	RACON		K(- • -)				(3cm).
18909.5 <i>P 3716.723</i>	Liangmao Shan.	30° 07.2' N 122° 09.5' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	49 15	9	White concrete column; 46.	
18909.6 <i>P 3716.722</i>	Zongzi Shan.	30° 07.5' N 122° 10.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	85 26	7	White concrete tower; 33.	
	RACON		B(- • • •)				(3cm).
18909.7 <i>P 3716.736</i>	Yeya Jiao.	30° 11.5' N 122° 15.1' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	46 14	3	White metal framework beacon; 26.	
18909.75 <i>P 3716.737</i>	Chang Jiao.	30° 13.0' N 122° 17.1' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	56 17	4	White round concrete column; 26.	
18909.77 <i>P 3719.75</i>	Nanmuzhuang Dao, S.	30° 13.8' N 122° 25.8' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	36 11	7	White concrete tower, red bands; 30.	
18909.85 <i>P 3716.78</i>	Huang Jiao.	30° 21.6' N 121° 55.8' E	Fl.(3)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	30 9	4	White round framework beacon; 23.	
18909.9 <i>P 3716.79</i>	Xiaozhi Shan.	30° 20.6' N 121° 53.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	4	White round concrete column; 26.	
18910 <i>P 3716.435</i>	Xiaocaihua.	30° 07.1' N 121° 52.1' E	Fl.(2)W. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	75 23	4	White concrete column; 23.	
	RACON		N(- •)				(3cm).
18912 <i>P 3716.4</i>	Taipingshan.	30° 05.0' N 121° 49.3' E	Fl.(3)W. period 10s	285 87	16	White round tower; 30.	Reserve light range 8M.
18913 <i>P 3716.39</i>	Daochu Shan.	30° 03.0' N 121° 49.9' E	Fl.(2)R. period 6s	49 15	4	Red and white round concrete pillar; 23.	
18914 <i>P 3716.46</i>	Daxiao Huanggan.	30° 00.0' N 121° 55.8' E	Fl.(2)W. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	49 15	10	White concrete column; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18916 <i>P 3716</i>	Qili Zhi.	30° 00.0' N 121° 45.6' E	Fl.W. period 5s	171 52	18	White octagonal tower; 82.	Reserve light range 5M. Horn: 4 bl. ev. 90s (bl. 5s, si. 5s, bl. 5s, si. 5s, bl. 5s, si. 5s, bl. 5s, si. 55s).
	RACON		B(- • • •)				(3cm).
18916.5 <i>P 3714.8</i>	Waiwanshan Zui.	29° 58.4' N 121° 50.9' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	69 21	7	White round concrete column; 43.	
18917 <i>P 3714.82</i>	Shuang Jiao.	29° 58.0' N 121° 51.6' E	V.Q.(6)+L.Fl.W. period 10s	26 8	4	S. CARDINAL YB, beacon, topmark; 20.	
18919 <i>P 3715.6</i>	Ningbo Gang.	29° 59.0' N 121° 48.3' E	Fl.(2)W. period 5s	52 16	10	ISOLATED DANGER BRB, beacon, topmark; 39.	AIS (MMSI No 999412378).
18919.5 <i>P 3716.304</i>	-No 123.	30° 03.7' N 121° 48.3' E	F.G.			Two green arrows points up, white square daymark.	Two way sailing. AIS (MMSI No 999412398).
	-RACON		Q(- - • -)				(3cm).
18920 <i>P 3715.4</i>	Dahuangmang Dao.	29° 58.5' N 121° 48.5' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	262 80	9	White hexagonal concrete column; 30.	
18922 <i>P 3714.6</i>	Zhongzhu Shan.	29° 58.3' N 121° 47.7' E	Fl.(3)W. period 10s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 5.2s	154 47	10	White round concrete column; 39.	
18928 <i>P 3715</i>	Changtiaozui.	29° 58.5' N 121° 45.9' E	Fl.(4)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	59 18	10	White hexagonal concrete structure, red stripe; 52.	
	RACON		Y(- • - -)				(3cm).
18929 <i>P 3715.3</i>	-N. breakwater, head.	29° 58.7' N 121° 45.4' E	Q.G.	33 10	7	Green metal column; 36.	AIS (MMSI No 999412377).
18930 <i>F 3715.2</i>	-Yong Jiang Kou Range, front.	29° 58.4' N 121° 44.2' E	FR.	125 38	5	Iron framework structure, neon red square and round daymark; 64.	
18930.1 <i>P 3715.21</i>	--Rear, 435 meters 260°30' from front.	29° 58.4' N 121° 43.9' E	FR.	167 51	5	Square metal framework tower; 151.	
18930.3 <i>P 3714.965</i>	Zhenhai Ferry.	29° 57.0' N 121° 43.1' E	Fl.W. period 10s	39 12	10	Red and white round tower; 43.	
18932 <i>P 3714</i>	Luojia Shan.	29° 58.5' N 122° 26.9' E	Fl.(3)W.R. period 9s	131 40	W. 15 R. 8	White round tower, red bands; 23.	W. 075°-088°, R.-203°, W.- 256°, R.-272°, W.-343°. Reserve light FW. 8M.
18933 <i>P 3713</i>	Chuan Jiao.	29° 59.1' N 122° 31.4' E	Fl.(4)W. period 12s	43 13	7	White round concrete tower; 23.	AIS (MMSI No 999412379).
18935 <i>P 3711</i>	Beiting Shan.	29° 52.7' N 122° 31.2' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	177 54	4	White concrete column; 23.	
18936 <i>P 3712</i>	Dongtingshan , summit.	29° 51.9' N 122° 35.6' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	180 55	20	White round tower; 26.	
	RACON		Y(- • - -)				
18937 <i>P 3714.143</i>	Fulimen Jiao.	29° 50.6' N 122° 20.7' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	33 10	7	White concrete column; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18938 <i>P 3714.008</i>	Qiji Shan.	30° 03.4' N 122° 19.0' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	26 8	4	White round concrete tower; 23.	
18940 <i>P 3714.14</i>	Taohua Dao.	29° 46.3' N 122° 18.6' E	Fl.(3)W. period 12s	361 110	15	White round concrete tower, black bands; 66.	Reserve light range 7M.
	RACON		Z(- - • •)		9		(3cm).
18944 <i>P 3714.16</i>	Xiaoshuang Shan.	29° 47.8' N 122° 14.4' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	55 17	10	White octagonal concrete tower, red stripes; 49.	
18948 <i>P 3714.18</i>	Xialan Shan.	29° 48.7' N 122° 14.3' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	65 20	10	White octagonal concrete structure, black stripes; 49.	
18952 <i>P 3714.2</i>	Shangliuwangzhong Dao.	29° 50.0' N 122° 12.3' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	39 12	9	White concrete tower; 33.	
	RACON		T(-)				(3cm).
18953 <i>P 3714.206</i>	Dengbu Dao.	29° 51.9' N 122° 16.7' E	Fl.(2)W. period 5s	20 6	4	ISOLATED DANGER BRB, beacon, topmark; 23.	
18953.5 <i>P 3714.21</i>	Diandeng Shan.	29° 52.5' N 122° 13.8' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	102 31	10	White round concrete structure; 49.	
	RACON		B(- • • •)				(3cm).
18954 <i>P 3714.148</i>	Putuo Shan.	29° 59.1' N 122° 22.0' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	243 74	18	Yellow round concrete tower; 59.	
18955 <i>P 3714.02</i>	Shuilaoshuweiba.	29° 55.1' N 122° 17.8' E	Fl.(2)W. period 5s	56 17	7	ISOLATED DANGER BRB, tower, topmark; 52.	
	RACON		M(- -)				(3cm).
18955.5 <i>P 3714.015</i>	Gangpan Jiao.	29° 57.9' N 122° 22.2' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	52 16	4	Red concrete column; 23.	
18956 <i>P 3714.22</i>	Yangxiaomao Dao.	29° 53.9' N 122° 09.1' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	160 49	15	White hexagonal concrete column; 36.	Reserve light range 5M.
	RACON		C(- • - •)				(3cm).
18957 <i>P 3714.245</i>	Aoshan Oil Pier.	29° 57.2' N 122° 07.8' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	43 13	4	Red fiberglass tower, white bands; 26.	
18958 <i>P 3714.228</i>	Shawan Zui.	29° 54.0' N 122° 05.6' E	Fl.(2)W. period 6s	36 11	4	White column; 23.	
18960 <i>P 3714.24</i>	Zhairuo Shan.	29° 56.6' N 122° 05.6' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	59 18	7	White round masonry tower; 23.	
18964 <i>P 3714.26</i>	Loutou Jiao.	29° 55.9' N 122° 02.1' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	72 22	10	White hexagonal concrete structure; 26.	Visible 260°-138°.
18965 <i>P 3714.254</i>	Heshang Shan.	29° 58.3' N 122° 04.3' E	Fl.G. period 4s	30 9	5	Hexagonal concrete pillar; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18966 P 3716.48	Banyang Jiao.	30° 01.1' N 121° 57.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	62 19	10	White hexagonal concrete structure; 26.	
	RACON		X(- • • -)				(3cm).
18968 P 3714.28	Tuni Zui.	29° 57.4' N 121° 57.9' E	Fl.(3)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2.5s	46 14	7	White concrete cone; 26.	
18972 P 3714.3	Huangniu Jiao.	29° 57.9' N 121° 54.0' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	59 18	9	White hexagonal concrete structure; 49.	
	RACON		G(- - •)				(3cm).
18973 P 3714.32	-Xiehe Oil Terminal, No 1.	29° 56.1' N 121° 54.5' E	Q.R.	46 14	7	PORT (A) R, beacon, topmark; 23.	
	-RACON		Q(- - • -)				(3cm).
18973.1 P 3714.33	--No 2.	29° 56.1' N 121° 54.2' E	Mo.(C)Y. period 12s	46 14	5	SPECIAL Y, beacon, "X" topmark; 23.	
18973.3 P 3714.34	--No 3.	29° 55.7' N 121° 54.4' E	Fl.R. period 4s	46 14	5	PORT (A) R, beacon, topmark; 23.	
18976 P 3714.266	Daxie Dao.	29° 55.2' N 122° 00.0' E	Q.G.	33 10	7	Green beacon, triangular daymark point up; 20.	
	RACON		K(- • -)				(3cm).
18976.1 P 3692.28	Shanjiaotou Dao.	29° 45.8' N 122° 00.5' E	Fl.W. period 2s	39 12	4	White hexagonal concrete column; 33.	
18977 P 3714.185-1	Huangjiao Tou.	29° 43.5' N 122° 13.5' E	Fl.R. period 4s	39 12	4	Red and white concrete column; 23.	
	RACON		Y(- • - -)				(3cm).
18977.1 P 3714.1	Xiangshan Gang.	29° 41.3' N 122° 17.4' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	92 28	15	White six-sided concrete structure; 49.	
	RACON		N(- •)				(3cm).
18978 P 3692	Shangshuangshi.	29° 44.1' N 122° 02.6' E	Fl.R. period 4s fl. 0.4s, ec. 3.6s	89 27	6	Red round concrete column; 36.	
18979 P 3691.8	Quewei Jiao.	29° 42.5' N 122° 02.5' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	56 17	7	White concrete tower; 30.	
	RACON		G(- - •)				(3cm).
18979.05 P 3691.7	Wenzhou Zhi.	29° 42.7' N 122° 00.3' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	59 18	4	White hexagonal concrete column; 33.	
18979.1 P 3691	Xiaoyezhu Jiao.	29° 34.6' N 122° 01.1' E	Fl.(3)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2.5s	46 14	6	Red round concrete tower; 49.	
	RACON		Y(- • - -)				(3cm).
18979.15 P 3690.25	Si Jiao.	29° 33.4' N 122° 04.1' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	49 15	4	White concrete column, black bands; 23.	
18980 P 3689	Nanjiu Shan.	29° 26.0' N 122° 13.2' E	Fl.(2)W. period 10s	174 53	16	White concrete column; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18980.5 <i>P 3685</i>	Aiqi Shan.	29° 25.4' N 122° 10.3' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	167 51	10	White conical concrete structure; 30.	
18981 <i>P 3684</i>	Jiushan Liedao. RACON	29° 16.3' N 122° 08.1' E	Fl.(2)W. period 5s N(- •)	49 15	10	ISOLATED DANGER BRB, beacon, topmark; 56.	AIS (MMSI No 999412372). (3cm).
18981.1 <i>P 3683.45</i>	Dongguayan Zui.	29° 09.3' N 122° 00.6' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	26 8	4	White concrete column; 23.	
18981.3 <i>P 3683.48</i>	-Niluo Yu.	29° 08.0' N 122° 03.0' E	Fl.(4)W. period 6s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 2.6s	69 21	7	White concrete column, black bands; 33.	
18981.5 <i>P 3682.8</i>	Jiaowei Dao. RACON	29° 11.7' N 121° 59.5' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s M(- -)	108 33	10	White concrete column, red bands; 36.	 (3cm).
18981.6 <i>P 3682.285</i>	Guangtou Jiao.	29° 05.4' N 121° 52.3' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	20 6	4	White concrete column, red bands; 23.	
18982 <i>P 3682</i>	Yu Shan. RACON	28° 53.0' N 122° 15.6' E	Fl.(2)W. period 20s O(- - -)	338 103	25	White round tower, red bands; 52.	Reserve light range 15M. (3cm).
18982.5 <i>P 3680.25</i>	Taizhou Wan, Yang Jiao. RACON	28° 44.4' N 121° 44.0' E	Q.(3)W. period 10s C(- • - •)	36 11	10	E. CARDINAL BYB, beacon, topmark; 43.	 (3cm).
18983 <i>P 3681</i>	Dongji Dao. RACON	28° 43.4' N 121° 56.2' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s Y(- • - -)	299 91	16	White round stone masonry tower; 33.	 (3cm).
18984 <i>P 3675.5</i>	Xiaojiaotou.	28° 28.2' N 121° 54.5' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	75 23	10	White hexagonal concrete tower; 39.	
18992 <i>P 3676</i>	Taizhou Gangpan Dao.	28° 28.6' N 121° 52.5' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	24 7	3	White conical stone tower; 30.	
18996 <i>P 3674</i>	Zhu Yu, 1 mile W. of Xiadachen Dao. RACON	28° 26.0' N 121° 51.1' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s O(- - -)	207 63	10	Round concrete column; 33.	 (3cm).
19000 <i>P 3670</i>	Luo Yu. RACON	28° 16.2' N 121° 43.9' E	Fl.W. period 3s B(- • • •)	259 79	16	White hexagonal stone masonry column, red stripes; 30.	Reserve light range 5M. (3cm).
19004 <i>P 3669</i>	Yisuan Shan.	28° 12.9' N 121° 39.7' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	269 82	10	White hexagonal concrete tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19008 P 3668	Wailongyan.	28° 12.6' N 121° 33.2' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	59 18	10	White conical masonry structure; 43.	
	RACON		G(- - •)				(3cm).
19009 P 3667.5	Yuhuan Wind Tower, No 1 - No 3.	28° 08.7' N 121° 35.3' E	Mo.(C)Y. period 12s	43 13	7	SPECIAL Y, tower, "X" topmark; 16.	3 lights synchronized. AIS (MMSI No 999412429).
19010 P 3667	Dadongjing Dao.	28° 07.9' N 121° 29.0' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	269 82	10	White concrete column; 33.	AIS (MMSI No 999412404).
19012 P 3665	Xialangdang Dao.	28° 04.3' N 121° 31.7' E	Fl.(3)W. period 20s	194 59	16	White concrete structure, red stripes; 30.	
19016 P 3664.5	Qian Shan.	28° 03.3' N 121° 24.1' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	157 48	10	White concrete tower; 43.	
19018 P 3660.8	Beipanshan Yu.	28° 00.8' N 121° 16.0' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	200 61	7	White square masonry structure; 30.	
19020 P 3662	Wenzhou Jia.	27° 58.9' N 120° 57.5' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	66 20	10	White round concrete structure; 43.	
	RACON		Q(- - • -)				(3cm).
19024 P 3663.22	-Current guiding dam, No 1.	28° 01.6' N 120° 41.0' E	Mo.(C)Y. period 12s	20 6	5	SPECIAL Y, tower, "X" topmark; 30.	
19028 P 3663.23	-No 2.	28° 01.7' N 120° 40.9' E	Mo.(C)Y. period 12s	20 6	5	SPECIAL Y, tower, "X" topmark; 30.	
19032 P 3663.24	-No 3.	28° 01.8' N 120° 40.7' E	Mo.(C)Y. period 12s	20 6	5	SPECIAL Y, tower, "X" topmark; 30.	
19036 P 3663.25	-No 4.	28° 01.9' N 120° 40.6' E	Mo.(C)Y. period 12s	20 6	5	SPECIAL Y, tower, "X" topmark; 30.	
OUJIANG BEI KOU:							
19048 P 3662.4	-Cangxia.	27° 59.9' N 120° 51.0' E	Fl.(2)W. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	36 11	10	White concrete column; 26.	
19052 P 3662.6	-Longwantou.	27° 58.3' N 120° 48.2' E	Fl.(4)W. period 10s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 5.8s	43 13	8	White round concrete structure; 20.	
	-RACON		Y(- • - -)				(3cm).
19053 P 3662	-Laohu Yan Spur, N. beacon.	28° 01.8' N 120° 44.1' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	66 20	10	White round concrete structure; 43.	
	-RACON		Q(- - • -)				
19054 P 3663	--S. beacon.	28° 01.6' N 120° 44.1' E	Mo.(P)Y. period 15s	20 6	5	SPECIAL Y, beacon, "X" topmark; 30.	AIS (MMSI No 999412427).
19060 P 3663.6	-Shizi Jiao.	28° 01.7' N 120° 38.5' E	Fl.W. period 6s fl. 0.3s, ec. 5.7s	16 5	4	Gray four-sided concrete pyramid; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19064 P 3663.5	Xiang.	28° 01.7' N 120° 38.8' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	49 15	4	Red round concrete structure; 26.	
19066 P 3662.7	Mati Shan.	28° 00.3' N 120° 47.5' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	39 12	7	White hexagonal concrete column, red bands; 36.	
19067 P 3662.8	Qidu Zui.	28° 01.4' N 120° 44.6' E	Fl.(3)W. period 10s	30 9	7	White concrete column; 33.	
19068 P 3661	Dong Tou.	27° 57.7' N 121° 08.8' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	128 39	7	White round concrete structure; 32.	
19070 P 3661.2	Jianzui Jiao.	28° 04.7' N 121° 08.5' E	Fl.(2)W. period 5s	43 13	7	ISOLATED DANGER BRB, beacon, topmark; 36.	
19072 P 3661.5	Huangda Zui.	27° 56.9' N 121° 02.7' E	Fl.(2)W. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	46 14	7	White concrete tower; 39.	
19076 P 3660.4	Yuan Yu.	27° 55.9' N 121° 13.4' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	141 43	16	White round concrete column; 43.	
	RACON		Y(- • - -)				(3cm).
19080 P 3660	Tasanpang Shan.	27° 52.4' N 121° 10.5' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	39 12	7	White four-sided concrete pyramid; 13.	Fishing light.
19084 P 3659	Hutou Yu.	27° 50.1' N 121° 14.9' E	Fl.(2)W. period 6s fl. 0.8s, ec. 1s fl. 0.8s, ec. 3.4s	338 103	16	White four-sided concrete pyramid; 26.	Reserve light F.W. 10M. Fishing light.
19084.3 P 3657.4	Niubi Yu.	27° 47.3' N 121° 07.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	33 10	4	White concrete column, red bands; 26.	
19084.5 P 3657.57	Qicaobitou.	27° 46.9' N 121° 04.2' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	49 15	4	Metal framework beacon; 16.	
19084.6 P 3657.55	Beijishan Liedao.	27° 43.8' N 121° 07.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	66 20	4	White concrete column; 23.	
19084.7 P 3657.56	Fuding Jiao.	27° 41.4' N 121° 07.3' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	59 18	7	White concrete column, red bands; 39.	
19084.8 P 3657.3	Banguan Yu.	27° 47.5' N 121° 08.6' E	Fl.(2)W. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	62 19	7	White concrete column; 26.	
19085 P 3648.6	Lizhi Shan.	27° 41.1' N 120° 55.1' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	292 89	10	White round concrete structure, red bands; 30.	
	RACON		M(- -)				(3cm).
19085.3 P 3656	Tie Jiao.	27° 40.3' N 121° 02.3' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	92 28	7	White concrete column; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19085.5 <i>P 3648.8</i>	Beilong Shan.	27° 38.9' N 120° 58.0' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	121 37	7	White concrete tower; 33.	
19085.6 <i>P 3648.46</i>	Xiaozheng Jiao.	27° 39.8' N 120° 48.1' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	43 13	7	White concrete column; 26.	
19085.7 <i>P 3655</i>	Donggua Yu.	27° 38.2' N 121° 03.1' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	259 79	15	White four-sided concrete column; 43.	Reserve light range 5M. AIS (MMSI No 999412405).
19086 <i>P 3650</i>	Beijishan Liedao.	27° 37.6' N 121° 12.3' E	Fl.(3)W. period 20s	443 135	25	Red conical concrete structure; 66.	Reserve light range 15M.
	RACON		X(- • • -)				(3cm).
19086.3 <i>P 3649.3</i>	Shangma'an Dao.	27° 27.1' N 120° 57.9' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	302 92	10	White round stone column, black bands; 33.	
	RACON		Z(- - • •)				(3cm).
19086.5 <i>P 3649</i>	Nanji Liedao.	27° 25.3' N 121° 04.0' E	Fl.(2)W. period 12s	203 62	18	White round concrete tower; 39.	Reserve light range 5M.
19087 <i>P 3648</i>	Xitai Shan.	27° 00.5' N 120° 41.7' E	Fl.W. period 4s	469 143	25	White hexagonal concrete structure; 79.	Reserve light range 15M. AIS (MMSI No 004132707).
	RACON		K(- • • -)				(3cm).
19088 <i>P 3643.01</i>	Fuyao Liedao.	26° 56.0' N 120° 19.3' E	Fl.(2)W. period 6s	75 23	4	White concrete pillar, red bands; 26.	
19088.2 <i>P 3643.02</i>	Yuanyangdao Jiao.	26° 57.8' N 120° 22.3' E	Fl.W. period 4s	82 25	4	White round concrete tower; 26.	
19088.3 <i>P 3643.03</i>	Guanyin Jiao Mazu Pier.	26° 57.1' N 120° 18.9' E	Fl.W. period 4s	59 18	4	White concrete pillar, red bands; 26.	
19090 <i>P 3644</i>	Tung-yin Tao.	26° 21.9' N 120° 30.6' E	Fl.(2)W. period 14s	321 98	25	White round tower; 47.	Visible 270°-060°.
19090.5 <i>P 3642</i>	Liu'er.	26° 34.7' N 120° 06.2' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	92 28	10	White hexagonal concrete structure; 33.	Reserve light Fl.W. 5s 7M.
	RACON		Q(- - • • -)				(3cm).
19090.7 <i>P 3642.3</i>	Changcao Yu.	26° 36.7' N 120° 06.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	89 27	4	White square concrete tower; 26.	
19090.9 <i>P 3642.4</i>	Lotou Wei.	26° 38.9' N 120° 07.9' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	62 19	4	White square concrete tower, red bands; 26.	
19091 <i>P 3641.95</i>	Kuishan Dao.	26° 29.3' N 120° 08.0' E	Fl.W. period 4s	249 76	15	White concrete column; 39.	
	RACON		Z(- - • •)				(3cm).
19091.2 <i>P 3641.1</i>	Heiyan Dao.	26° 23.1' N 120° 05.2' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	151 46	10	White hexagonal concrete tower, red bands; 43.	
	RACON		C(- • • •)				(3cm).
19091.28 <i>P 3641.88</i>	Erjian Wan.	26° 29.7' N 120° 01.4' E	Fl.(2)W. period 6s	62 19	4	White hexagonal concrete tower, black bands; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19091.3 <i>P 3641.93</i>	Ma'anzi Dao.	26° 31.8' N 120° 01.1' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	49 15	4	White square concrete tower; 26.	
19091.35 <i>P 3641.935</i>	Wucaao Yu.	26° 32.1' N 120° 03.9' E	Fl.(2)W. period 4s	46 14	4	White hexagonal concrete tower, red bands; 23.	
19091.38 <i>P 3641.94</i>	Maci Dao.	26° 32.0' N 120° 07.8' E	Fl.(2)W. period 6s	102 31	4	White hexagonal concrete tower, black bands; 23.	
19091.4 <i>P 3641.85</i>	Xiaodong Yu.	26° 29.5' N 119° 59.4' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	75 23	4	White concrete column, red bands; 26.	
19091.45 <i>P 3641.92</i>	Xiaoxiyang Dao.	26° 32.2' N 119° 59.9' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	39 12	4	White concrete column, black bands; 26.	
19091.47 <i>P 3641.91</i>	Qingtian Jiao.	26° 36.2' N 120° 01.0' E	Fl.(2)W. period 6s	23 7	4	White hexagonal concrete tower, black bands; 23.	
19091.5 <i>P 3641.2</i>	Yang Yu.	26° 22.2' N 119° 58.3' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	331 101	16	White four-sided concrete pyramid; 33.	Reserve light range 7M.
	RACON		Y(- • - -)				(3cm).
19091.51 <i>P 3641.35</i>	Nanwei Yu.	26° 22.8' N 119° 54.5' E	Fl.W. period 4s	59 18	4	White hexagonal concrete tower, black bands; 23.	
19091.52 <i>P 3641.38</i>	Dongluo Dao, N.	26° 25.4' N 119° 54.9' E	Fl.(3)W. period 10s	190 58	4	White hexagonal concrete tower, red bands; 23.	
19091.53 <i>P 3641</i>	Dongwu Jiao.	26° 18.4' N 119° 53.9' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	39 12	10	White hexagonal concrete structure; 43.	
19091.54 <i>P 3641.572</i>	Luoyuan Wan.	26° 23.9' N 119° 47.3' E	Fl.W. period 4s	33 10	3	White fiberglass pile, red bands; 13.	
19091.55 <i>P 3641.05</i>	Donggu Yu.	26° 17.8' N 119° 54.2' E	Fl.W. period 4s	36 11	7	White round concrete tower, red bands; 36.	
19091.56 <i>P 3641.577</i>	Jiangjunmao Pier, No 1.	26° 24.5' N 119° 46.4' E	Fl.W. period 3s	56 17	3	White round fiberglass tower, red bands; 23.	
19091.57 <i>P 3641.576</i>	-No 2.	26° 24.5' N 119° 46.1' E	Fl.W. period 3s	56 17	3	White round fiberglass tower, red bands; 23.	
19091.59 <i>P 3641.598</i>	Donggui Yu.	26° 29.8' N 119° 48.4' E	Fl.(3)W. period 6s	43 13	4	White hexagonal concrete column, red bands; 23.	
19091.6 <i>P 3641.625</i>	Huwei Jiao.	26° 33.2' N 119° 47.7' E	Fl.(2)W. period 6s	46 14	10	White hexagonal concrete tower, red bands; 33.	
19091.7 <i>P 3641.63</i>	Jigong Shan, W.	26° 34.2' N 119° 47.8' E	Fl.W. period 4s	30 9	4	White round concrete tower; 23.	
19091.72 <i>P 3641.67</i>	Qingshan Dao.	26° 37.4' N 119° 48.8' E	Fl.W. period 4s	66 20	7	White hexagonal concrete tower, red bands; 33.	
19091.75 <i>P 3641.635</i>	Jiwei Jiao.	26° 34.5' N 119° 48.8' E	Fl.(3)W. period 10s	36 11	10	White hexagonal concrete tower, red bands; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
MINJIANG KOU:							
19092 <i>P 3634.8</i>	-Rizhuang Jiao.	26° 04.5' N 119° 43.4' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	42 13	8	White concrete column; 59.	
	-RACON		K(- • -)				(3cm).
19096 <i>P 3635</i>	-Baiyun Shan Range, front.	26° 05.4' N 119° 38.3' E	Fl.W. period 1.5s fl. 0.5s, ec. 1s	164 50	14	White concrete beacon, red stripes; 72.	Visible 263°45'-267°15'.
	-RACON		O(- - -)		15		(3cm).
19100 <i>P 3635.1</i>	--Rear, 1289 meters 265°30' from front.	26° 05.3' N 119° 37.6' E	Iso.W. period 4s	308 94	14	White concrete structure, red stripes; 72.	Visible 263°45'-267°15'.
19104 <i>P 3635.2</i>	Hujiang Dao.	26° 07.3' N 119° 38.5' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	85 26	7	White round brick structure; 23.	
19110 <i>P 3635.68</i>	Ma Jiao.	26° 02.8' N 119° 36.5' E	Fl.W. period 4s	26 8	4	Black concrete column; 30.	
19110.2 <i>P 3635.69</i>	Jiuping Jiao.	26° 02.9' N 119° 35.9' E	Fl.(2)R. period 6s	18 6	4	PORT (A) R, beacon, topmark; 26.	
19112 <i>P 3635.4</i>	Fudou Shan Range, common front.	26° 08.0' N 119° 38.3' E	Iso.W. period 2s	49 15	10	White concrete tower, red stripes; 23.	
	RACON		M(- -)				(3cm).
19114 <i>P 3635.42</i>	-Rear, 090°50' from common front.	26° 08.0' N 119° 39.5' E	Iso.W. period 6s	138 42	10	White concrete tower, red stripes; 30.	
19114.1 <i>P 3635.417</i>	Culu Dao.	26° 08.2' N 119° 39.1' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	24 7	4	White column, black bands; 26.	
19114.25 <i>P 3635.415</i>	Huzhou.	26° 08.6' N 119° 39.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	26 8	4	White column, black bands; 33.	
19116 <i>P 3635.41</i>	-Rear, 1960 meters 309°23' from common front.	26° 08.6' N 119° 37.5' E	Iso.W. period 6s	125 38	10	White concrete tower, red stripes; 49.	
19120 <i>P 3635.45</i>	-Jinpai Men.	26° 08.1' N 119° 35.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	36 11	6	White pyramidal masonry structure; 33.	AIS (MMSI No 999412514).
19120.4 <i>P 3635.44</i>	Jinpai Shan, N.	26° 07.9' N 119° 35.5' E	Fl.(3)W. period 10s	27 8	4	White concrete column, black bands; 30.	
19122 <i>P 3635.65</i>	Dalu Jiao.	26° 05.5' N 119° 32.3' E	Fl.(2)W. period 5s	23 7	3	ISOLATED DANGER BRB, beacon, topmark; 43.	
19122.1 <i>P 3635.725</i>	Yanguan.	26° 03.1' N 119° 30.6' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	33 10	4	White concrete column, red bands; 26.	
19122.15 <i>P 3635.673</i>	Fuzhou Navigational Mark.	26° 06.9' N 119° 32.7' E	Fl.W. period 4s	36 11	3	White metal pile, red bands; 20.	
19122.2 <i>P 3635.723</i>	Shimen, W.	26° 02.7' N 119° 30.5' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	33 10	4	White concrete column, red bands; 26.	
19122.25 <i>P 3635.73</i>	Niuwei Shan.	26° 02.1' N 119° 30.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	23 7	6	White concrete column; 46.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19122.3 <i>P 3635.731</i>	Songmen.	26° 02.0' N 119° 30.2' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	33 10	4	White concrete column, red bands; 26.	
19123.5 <i>P 3635.745</i>	Huaneng Fuzhou Electric Works, No 2.	25° 59.7' N 119° 28.8' E	Mo.(C)Y. period 12s	23 7	3	SPECIAL Y, beacon, topmark; 20.	
19124 <i>P 3628</i>	Wu-ch'iu Hsu.	24° 59.5' N 119° 27.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	285 87	11	Black round tower; 62.	
19128 <i>P 3634.4</i>	-Qixing Jiao.	26° 04.8' N 119° 49.7' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	39 12	10	White conical concrete tower; 52.	
	-RACON		X(- • • -)				(3cm).
19132 <i>P 3634</i>	Tungchu Tao.	25° 58.0' N 119° 59.2' E	Fl.(1+2)W. period 20s	256 78	16	White round tower; 62.	Visible 150°-000°. Gun.
19132.5 <i>P 3634.2</i>	Bozhou Dao.	25° 58.6' N 119° 43.1' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	66 20	10	White square concrete structure; 36.	
19133 <i>P 3633.3</i>	Li Yu.	25° 45.7' N 119° 48.3' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	82 25	7	White concrete column, red bands; 36.	
	RACON		O(- - -)				(3cm).
19133.2 <i>P 3633.9</i>	Shuangpi.	25° 46.9' N 119° 39.5' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	95 29	10	White concrete column; 39.	
	RACON		G(- - •)				(3cm).
19133.4 <i>P 3633.8</i>	Songxia Gang, Xiluo.	25° 45.3' N 119° 38.9' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	174 53	2	White concrete column; 39.	Channel marked by articulated lights and buoys.
19133.5 <i>P 3633.87</i>	Zhutou Jiao.	25° 45.1' N 119° 39.5' E	V.Q.(9)W. period 10s	23 7	4	W. CARDINAL YBY, beacon, topmark; 30.	
19133.6 <i>P 3633.4</i>	-Gu Yu.	25° 40.7' N 119° 37.4' E	Fl.(2)W. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	108 33	7	White square concrete tower; 43.	AIS (MMSI No 999412571).
	-RACON		K(- • -)				(3cm).
19133.7 <i>P 3633.41</i>	Beixian Dao.	25° 40.9' N 119° 36.9' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	52 16	4	White metal column, red bands; 23.	
19134 <i>P 3632.5</i>	Dongxiang Dao.	25° 36.2' N 119° 54.1' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	157 48	16	Black round concrete tower, white bands; 56.	Reserve light range 7M.
	RACON		K(- • -)				(3cm).
19135 <i>P 3632.3</i>	Xiaosha Yu.	25° 28.5' N 119° 52.3' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	98 30	4	White square concrete tower, black bands; 26.	
19136 <i>P 3632</i>	Niushan Dao.	25° 26.1' N 119° 56.2' E	Fl.(2)W. period 12s	295 90	24	White octagonal stone masonry tower; 79.	Reserve light range 15M.
	RACON		Z(- - • •)				(3cm).
19136.2 <i>P 3633.185</i>	Cao Yu.	25° 22.0' N 119° 43.8' E	Fl.(2)W. period 8s	157 48	7	Red and white concrete tower; 46.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19136.3 <i>P 3627.92</i>	Nanri Dao.	25° 14.4' N 119° 26.3' E	Fl.(4)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	62 19	10	White hexagonal concrete tower; 36.	
19136.4 <i>P 3633.15</i>	Bai Yu.	25° 19.0' N 119° 33.5' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	121 37	10	White hexagonal concrete tower; 36.	AIS (MMSI No 999412532).
	RACON		B(- • • •)				(3cm).
19136.5 <i>P 3633.17</i>	Lu Yu Reef, S.	25° 19.4' N 119° 28.6' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	33 10	10	White concrete column, red bands; 36.	
19136.7 <i>P 3633.025</i>	Xiaojia Dao.	25° 17.5' N 119° 46.2' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	72 22	4	White square concrete tower, black bands; 26.	
19136.8 <i>P 3633.03</i>	Nanheng Dao.	25° 16.5' N 119° 43.0' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	43 13	4	White six-sided concrete column, red bands; 23.	
	RACON		X(- • • -)				
19137 <i>P 3627.5</i>	Jian Yu.	24° 57.9' N 119° 01.9' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	72 22	10	Black round stone tower, white bands; 26.	
	RACON		G(- - •)				(3cm).
19137.1 <i>P 3627.52</i>	-S.	24° 57.9' N 119° 01.9' E	Fl.W. period 10s	217 66	15	White hexagonal concrete tower, red bands; 52.	
	-RACON		G(- - •)				
19139 <i>P 3627.8</i>	Meizhou Dao, E.	25° 04.7' N 119° 09.0' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	36 11	4	Gray pile.	Fishing light.
19139.1 <i>P 3627.78</i>	Chiyu Shan.	25° 06.0' N 119° 09.7' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	108 33	7	White concrete column, green bands; 26.	
19139.5 <i>P 3627.9</i>	Jian Yu.	25° 09.7' N 119° 16.5' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	141 43	10	White metal column; 36.	
	RACON		G(- - •)				(3cm).
19139.9 <i>P 3627.905</i>	Beiding Yu.	25° 08.3' N 119° 23.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	62 19	4	White hexagonal concrete column, red bands; 23.	
	RACON		C(- • - •)				(3cm).
19140.1 <i>P 3627.908</i>	Nanri Dao.	25° 09.5' N 119° 31.1' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	102 31	4	White concrete column, red bands; 26.	
19141 <i>P 3627</i>	Dazou Yan.	24° 53.1' N 118° 59.0' E	Fl.W. period 15s	246 75	18	White concrete column, red stripes; 52.	Reserve light range 10M.
	RACON		C(- • - •)				(3cm).
19144 <i>P 3626</i>	Ch'ung-wu, SW. corner of city wall.	24° 52.6' N 118° 56.0' E	F.W.	118 36	10	White square brick structure.	Fishing light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19148 <i>P 3625</i>	Niao Yu.	24° 50.2' N 118° 49.7' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	88 27	10	White masonry column, black bands; 23.	
	RACON		Z(- - • •)				(3cm).
19150 <i>P 3620.8</i>	Xiangzhi Jiao.	24° 46.4' N 118° 46.7' E	Fl.(3)W. period 15s	167 51	16	White hexagonal masonry pile, red stripes; 52.	Reserve light range 6M.
	RACON		Q(- - • -)				(3cm).
19150.4 <i>P 3620.4</i>	Shenhu Wan.	24° 38.2' N 118° 41.0' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	56 17	10	White concrete column, red stripes; 30.	
19150.5 <i>P 3620.28</i>	Wai Yu.	24° 32.1' N 118° 37.4' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	52 16	5	White concrete column; 19.	
19150.51 <i>P 3620.33</i>	Qianta Jiao.	24° 36.5' N 118° 40.9' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	46 14	7	White concrete pillar, red bands; 26.	
19150.6 <i>P 3620.25</i>	Baiyang.	24° 32.4' N 118° 33.1' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	62 19	10	Red concrete pillar, black bands; 26.	
19150.7 <i>P 3612.195</i>	Nanpao Tai.	24° 24.3' N 118° 04.0' E	Fl.W. period 10s	230 70	15	White concrete pillar; 171.	Reserve light range 9M.
19150.8 <i>P 3612.2</i>	Tu Dao.	24° 24.5' N 118° 04.0' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	74 22	7	White column, black bands; 33.	
19151.7 <i>P 3612.57</i>	Mu Yu.	24° 24.6' N 118° 00.0' E	Q.W.	33 10	4	N. CARDINAL BY, pole, topmark.	
19151.8 <i>P 3612.54</i>	Ji Yu.	24° 25.9' N 118° 00.4' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	128 39	7	White pile, red bands, red square daymark; 26.	
19151.85 <i>P 3612.552</i>	Datu Zhou, SW.	24° 24.2' N 117° 54.4' E	Fl.G. period 4s	26 8	5	STARBOARD (A) G, beacon, topmark; 16.	
19151.86 <i>P 3612.553</i>	Nanxi Kou.	24° 23.7' N 117° 54.9' E	Fl.W. period 3s	23 7	5	White pile; 16.	
19152 <i>P 3613</i>	Huang Jiao.	24° 26.6' N 118° 04.4' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	46 14	3	Red octagonal concrete pyramid; 10.	
19156 <i>P 3613.5</i>	Zhangyu Jiao.	24° 27.0' N 118° 04.2' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	25 8	3	PORT (A) R, pyramid, topmark; 30.	
19160 <i>P 3614</i>	Jiangxin Jiao.	24° 27.1' N 118° 04.1' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	3	PORT (A) R, pyramid, topmark; 30.	
19162 <i>P 3614.4</i>	Muquian Jiao.	24° 26.6' N 118° 01.2' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	16 5	6	ISOLATED DANGER BRB, structure, topmark; 33.	
19163 <i>P 3614.5</i>	Niaoqi Jiao.	24° 27.5' N 118° 03.7' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	23 7	7	White concrete column, green bands; 16.	
19164 <i>P 3615.5</i>	Dayu, on S. end of island.	24° 27.6' N 118° 02.7' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	144 44	7	Red hexagonal stone column, white stripes; 43.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19165 <i>P 3612.68</i>	Songyu Gangqu.	24° 26.5' N 118° 02.5' E	Fl.(2)W. period 6s	43 13	5	White concrete tower, red bands; 33.	
19168 <i>P 3615</i>	Hou Yu.	24° 28.1' N 118° 03.3' E	Fl.W. period 6s	108 33	16	White stone tower, red bands; 66.	
	RACON		K(- • -)				(3cm).
19172 <i>P 3616</i>	Manyu Jiao.	24° 28.6' N 118° 03.7' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	59 18	7	White hexagonal concrete tower; 69.	
19174 <i>P 3617</i>	Niufen Jiao.	24° 29.9' N 118° 04.3' E	Fl.(3)W. period 10s	26 8	4	White metal column, green bands; 20.	
19174.51 <i>P 3618.061</i>	Xinglin Bridge, 1.	24° 33.2' N 118° 06.0' E	Q.Y.	16 5	3	Yellow metal post, red band; 7.	Marks bridge pier.
19174.55 <i>P 3618.07</i>	Jimei, breakwater, No 1.	24° 33.2' N 118° 06.0' E	Q.Y.	13 4	4	Yellow concrete tower, red bands; 13.	
19174.6 <i>P 3618.38</i>	Haiwei Shi.	24° 32.7' N 118° 10.1' E	Fl.(2)W. period 5s	17 5	7	ISOLATED DANGER BRB, beacon, topmark; 20.	
19175 <i>P 3618.385</i>	Wutongdao.	24° 31.7' N 118° 11.4' E	Fl.(3)W. period 15s	262 80	16	White round concrete pillar; 226.	Reserve light range 9M.
19175.1 <i>P 3618.4</i>	Tudigong Jiao.	24° 32.2' N 118° 14.9' E	Fl.(2)W. period 5s	22 7	4	ISOLATED DANGER BRB, beacon, topmark; 22.	
19175.7 <i>P 3620.08</i>	Liao-lo Harbor, S. breakwater.	24° 24.5' N 118° 25.4' E	Fl.R. period 6s		5		
19176 <i>P 3620</i>	Pei-ting Tao.	24° 25.6' N 118° 30.3' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	119 36	11	White round brick tower; 56.	Gun: 1 report in answer to vessel's fog signal, 2 reports 5 minutes later, repeated while vessel's fog signal continues to be heard
19180 <i>P 3612</i>	-Ta-tan Tao, S. side.	24° 23.2' N 118° 10.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	299 91	10	White metal hut; 10.	
19184 <i>P 3610</i>	-Qing Yu.	24° 21.9' N 118° 07.5' E	Fl.(4)W. period 20s	135 41	18	White octagonal tower, red stripes; 33.	
	-RACON		C(- • - •)				(3cm).
19186 <i>P 3609</i>	-Jiuzhe Jiao.	24° 20.2' N 118° 09.7' E	Fl.(2)W. period 6s	43 13	10	White column, red bands; 49.	
	-RACON		M(- -)				(3cm).
19186.05 <i>P 3608.2</i>	Wu Yu, E.	24° 20.0' N 118° 09.1' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	49 15	5	White concrete column, black bands; 20.	
19186.1 <i>P 3608.35</i>	-Wuan, W.	24° 19.9' N 118° 07.6' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	33 10	5	White metal column, green bands; 23.	
19186.2 <i>P 3609.2</i>	Gui Jiao.	24° 20.2' N 118° 07.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	43 13	7	White concrete column; 33.	
19186.25 <i>P 3609.25</i>	Bai Yu.	24° 21.0' N 118° 08.1' E	Fl.(3)W. period 10s	66 20	7	White concrete column, red bands; 26.	
19187 <i>P 3605.5</i>	Linjin Yu.	24° 11.2' N 118° 01.5' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	75 23	7	White concrete column, red bands; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19188 <i>P 3605</i>	Nanding Dao.	24° 08.1' N 118° 02.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	197 60	10	Black stone column, white bands; 33.	
	RACON		X(- • • -)				(3cm).
19192 <i>P 3604</i>	Qian Yan.	23° 54.7' N 117° 51.7' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	85 26	10	White hexagonal concrete column; 39.	
19193 <i>P 3603.6</i>	Waiying.	23° 46.9' N 117° 44.1' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	79 24	10	White concrete column, red bands; 33.	
	RACON		G(- - •)				(3cm).
19193.5 <i>P 3603.7</i>	Heng Yu.	23° 49.1' N 117° 45.7' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	207 63	7	White concrete tower, red bands; 26.	
19194 <i>P 3603.4</i>	Shazhou Dao.	23° 48.3' N 117° 39.9' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	52 16	7	White concrete tower, red bands; 26.	
19195 <i>P 3603.55</i>	Qingcao Yu.	23° 46.7' N 117° 40.1' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	85 26	7	White concrete tower, green bands; 26.	
19196 <i>P 3606</i>	Tung-ting Tao, Tungting Hsu, summit.	24° 09.7' N 118° 14.0' E	Fl.W. period 10s fl. 1s, ec. 9s	226 69	12	Black round brick tower; 62.	Gun: 1 report in answer to vessel's fog signal, 2 reports 5 minutes later, repeated while vessel's fog signal continues to be heard.
19197 <i>P 3607</i>	Zhenhai Jiao.	24° 16.1' N 118° 07.9' E	Fl.(2)W. period 6s	361 110	24	White hexagonal concrete column; 75.	Reserve light range 15M.
19200 <i>P 3603</i>	Gulei Tou.	23° 43.3' N 117° 35.3' E	Fl.(2)W. period 10s	374 114	24	White round concrete tower; 75.	Reserve light range 15M. AIS (MMSI No 004132808).
19201 <i>P 3600.5</i>	Fuding Yu.	23° 42.7' N 117° 31.3' E	Fl.W. period 4s	36 11	9	White concrete column, red bands; 26.	
19202 <i>P 3600.3</i>	Luci Jiao.	23° 42.2' N 117° 30.0' E	Fl.W. period 2s	20 6	5	White concrete column, red bands; 16.	
19203 <i>P 3597</i>	Houjiao Yu.	23° 34.1' N 117° 22.0' E	Fl.W.R. period 4s fl. 0.4s, ec. 3.6s	85 26	W. 9 R. 4	White six-sided stone tower; 26.	W. 030°-003°, R.-030°.
19204 <i>P 3598.5</i>	Shih Yu.	23° 34.8' N 117° 27.2' E	Fl.W. period 5s	180 55	9	Black round masonry structure, white bands; 23.	
	RACON		Y(- • - -)				(3cm).
19205 <i>P 3598</i>	Xiongdi Yu.	23° 32.0' N 117° 41.3' E	Fl.(3)W. period 10s	240 73	16	Red hexagonal stone structure, white stripes; 39.	Reserve light range 6M.
	RACON		M(- -)				(3cm).
19206 <i>P 3587.7</i>	Nanpeng Liedao.	23° 15.5' N 117° 17.0' E	Fl.W. period 12s	302 92	22	White round concrete tower; 75.	
	RACON		K(- • -)				(3cm).
19206.3 <i>P 3587.74</i>	Sancongya.	23° 24.2' N 117° 08.2' E	Fl.W. period 8s	253 77	18	White concrete tower, red stripes; 98.	
19206.5 <i>P 3587.625</i>	Huafeng.	23° 33.9' N 117° 07.9' E	L.Fl.W. period 6s fl. 2s, ec. 4s	66 20	10	Red round metal dolphin; 43.	
19207 <i>P 3587.62</i>	Zhe Lin.	23° 32.5' N 117° 03.7' E	Fl.(2)W. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	177 54	15	White round masonry pile; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19208 <i>P 3588</i>	Biao Jiao.	23° 14.3' N 116° 48.4' E	Fl.W. period 8s	200 61	20	White round concrete tower; 52.	Horn: 1 bl. ev. 20s
	RACON		K(- • -)				(3cm).
19209 <i>P 3588.8</i>	Guang'ao Range, front.	23° 13.9' N 116° 46.1' E	F.R.	177 54	10	White concrete column, red stripe; 157.	Reserve light Oc.R. 5s.
19209.2 <i>P 3588.81</i>	-Rear, 359°58' from front.	23° 14.2' N 116° 46.1' E	F.R.	223 68	10	White concrete column, red stripe; 135.	Reserve light Oc.R. 5s.
19210 <i>P 3588.5</i>	Guang'ao Gang, LPG terminal.	23° 12.4' N 116° 47.1' E	L.Fl.W. period 6s	82 25	10	White round metal tower; 52.	
19216 <i>P 3591</i>	De Zhou.	23° 19.6' N 116° 45.4' E	Fl.W. period 5s	242 74	18	White round concrete tower; 75.	
SHANTOU GANG:							
19223 <i>P 3587.43</i>	-Lanchangdukou breakwater, head.	23° 24.9' N 116° 51.4' E	Q.W.	43 13	5	White metal tower, red bands; 23.	
19224 <i>P 3593</i>	-No 1 Range, front.	23° 19.6' N 116° 45.5' E	F.R.	108 33	7	White round structure, red stripe; 52.	
	-RACON		B(- • • •)				(3cm).
19224.1 <i>P 3593.1</i>	--Rear, 1,620 meters 322° from front.	23° 20.3' N 116° 44.9' E	F.R.	157 48	7	White round concrete structure, red stripe; 135.	
19229 <i>P 3589.2</i>	-Submerged breakwater, head.	23° 17.2' N 116° 47.9' E	V.Q.(6)+L.Fl.W. period 10s	27 8	5	S. CARDINAL YB, beacon, topmark.	
19230 <i>P 3589</i>	-Chi Yu.	23° 16.9' N 116° 47.3' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	79 24	10	Yellow hexagonal masonry column; 33.	
19231 <i>P 3589.4</i>	-Breakwater, head.	23° 18.4' N 116° 46.9' E	Mo.(P)Y. period 12s	24 7	5	SPECIAL Y, beacon, "X" topmark.	
19232 <i>P 3590</i>	Chien Shih, on summit.	23° 18.9' N 116° 45.7' E	Fl.W. period 4s	39 12	4	White hexagonal concrete pile; 16.	
19234 <i>P 3592.3</i>	Lu Yu, S. side.	23° 19.5' N 116° 45.3' E	Fl.W. period 2s	33 10	5	Red and white round metal pillar; 23.	
19240 <i>P 3594</i>	-Lu Yu Danger Range, front.	23° 19.7' N 116° 45.2' E	F.W.	115 35	5	Post, triangular daymark point up; 26.	Lights in line 127° indicate rocks on S. side of Ma Yu and SW. extremity of fish stakes on which fishing lights shown.
19240.1 <i>P 3594.1</i>	--Rear, 250 meters 126°47' from front.	23° 19.6' N 116° 45.3' E	F.W.	174 53	5	White concrete tower, triangular daymark point down; 33.	
19244 <i>P 3595.2</i>	-No 3.	23° 21.2' N 116° 40.9' E	Dir.W.R.G.	92 28	4	White metal framework tower; 89.	F.G. 281°-282°39', F.W.-283°21', F.R.-285°.
19249 <i>P 3595.3</i>	Gui Yu.	23° 20.2' N 116° 38.4' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	89 27	10	White metal framework structure; 46.	
19264 <i>P 3586</i>	Shibeishan Jiao.	22° 56.3' N 116° 29.8' E	Fl.W. period 15s	223 68	22	White round concrete tower; 194.	
	RACON		C(- • - •)				(3cm).
19272 <i>P 3585</i>	Jiazi Jiao.	22° 49.4' N 116° 05.8' E	Fl.W. period 10s	256 78	18	White round concrete tower; 56.	
19276 <i>P 3584</i>	Tianwei Jiao.	22° 44.6' N 115° 48.8' E	Fl.W. period 7s	272 83	18	White round concrete tower; 20.	
19280 <i>P 3582</i>	Zhelang Jiao.	22° 39.1' N 115° 34.2' E	Fl.W. period 8s	131 40	18	White round concrete tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19284 <i>P 3581.345</i>	Shan-Wei.	22° 43.6' N 115° 01.6' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	31 9	9	White round concrete pile; 33.	
19286 <i>P 3581.35</i>	-Pier.	22° 46.9' N 115° 20.6' E	Oc.W. period 3s lt. 2s, ec. 1s	49 15	7	White metal framework tower, red triangular daymark point up; 43.	
19288 <i>P 3581.298</i>	Fuji Jiao.	22° 34.0' N 114° 54.2' E	Fl.W. period 13s	715 218	24	White round concrete tower; 82.	
19288.5 <i>P 3581.284</i>	Tiezchen Jiao.	22° 32.7' N 114° 52.2' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	49 15	6	White round concrete pile; 23.	
19289 <i>P 3581.218</i>	Daya Wan.	22° 35.0' N 114° 43.1' E	L.Fl.W. period 8s fl. 2s, ec. 6s	213 65	10	Concrete tower; 75.	
	RACON		G(- - •)				(3cm).
19289.5 <i>P 3581.228</i>	Xiaochi Zhou.	22° 38.4' N 114° 38.6' E	Fl.W. period 8s	144 44	10	White round concrete pile; 26.	
19290 <i>P 3580.98</i>	Qing Zhou.	22° 24.3' N 114° 40.0' E	Fl.W. period 6s	351 107	18	White round concrete tower; 66.	
	RACON		K(- • -)				(3cm).
19291 <i>F 3578.48</i>	Huoshao Pai.	22° 32.1' N 114° 28.7' E	Fl.W. period 6s	16 5	4	Red and white post; 10.	
19292 <i>P 3578.3</i>	Mirs Bay, Shek Ngau Chau.	22° 28.0' N 114° 25.7' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	85 26	12	White square concrete tower.	
19296 <i>P 3578.4</i>	-Wong Mau Chau.	22° 26.9' N 114° 23.7' E	Fl.R. period 5s	75 23	5	White square concrete tower; 16.	
19300 <i>P 3580.95</i>	Fan Tsang Chau.	22° 21.9' N 114° 23.5' E	Fl.(2)W. period 6s	20 6	5	White concrete tower; 13.	Visible 008°-250°.
19306 <i>P 3580.9</i>	Fu Tau Pun Chau, NW. end.	22° 20.3' N 114° 21.7' E	Fl.(4)W. period 15s	24 7	3	White concrete tower; 13.	
19310 <i>P 3580.93</i>	Wave Rock.	22° 19.7' N 114° 21.7' E	Q.R.	13 4	2	White column; 7.	
19312 <i>P 3580.94</i>	Victor Rock.	22° 18.0' N 114° 25.5' E	Mo.(U)W. period 15s		10	Yellow beacon.	AIS. Horn: Mo.(U) 30s.
19314 <i>P 3580.88</i>	Ki Yan Siak.	22° 21.8' N 114° 19.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	26 8	5	White concrete tower.	
19318 <i>P 3580.6</i>	Ma Chai Pai.	22° 19.4' N 114° 19.8' E	Q.R.	12 4	2	White column.	
19322 <i>P 3580.7</i>	Kiu Tsui Pai.	22° 21.7' N 114° 17.1' E	Fl.(2)W. period 10s	25 8	5	White concrete tower.	
19326 <i>P 3578</i>	Waglan Island.	22° 10.9' N 114° 18.2' E	Fl.(2)W. period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 16s	226 69	24	White round metal tower, red bands; 52.	Visible 112°-095°. Shown by day when fog signal is operating. Horn: 2 bl. ev. 60s (bl. 2s, si. 4s, bl. 2s, si. 52s).
	-RACON		K(- • -)		12		(3 & 10cm).
19330 <i>P 3576</i>	Hok Tsui.	22° 12.5' N 114° 15.5' E	Fl.W. period 15s fl. 1s, ec. 14s	187 57	20	White concrete tower; 26.	
19334 <i>P 3575.6</i>	Ninepin Island, N. end.	22° 16.2' N 114° 21.0' E	Fl.W.R. period 10s fl. 1s, ec. 9s	144 44	W. 10 R. 7	White square concrete tower; 16.	W. 058°30'-212°, R.-299°30'.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19338 P 3575.8	Jam Pan Wan.	22° 16.2' N 114° 18.2' E	Fl.G. period 3s	43 13	3	White column.	
19342 P 3574	Tung Lung Island.	22° 14.3' N 114° 17.3' E	Fl.(3)W.R. period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 4s	184 56	W. 19 R. 10	White pedestal; 7.	R. 237°-264°30' (covering Ninepin Group), W.- 137°30'. Horn: 3 bl. ev. 60s (bl. 5s, si. 5s, bl. 5s, si. 5s, bl. 5s, si. 35s).
19346	Tathong Channel, <i>Buoy TCS1.</i>	22° 13.2' N 114° 20.2' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	
19349 P 3575.4	-Tai Long Pai.	22° 14.0' N 114° 16.0' E	Fl.(4)R. period 15s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 10.8s	45 14	5	Red and white checkered concrete tripod.	Radar reflector.
19352 P 3573.6	-Ngai Ying Pai, No 91.	22° 14.6' N 114° 16.8' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	39 12	6	White concrete tower.	
19353 P 3575	-Tai Miu Wan, jetty, head.	22° 15.3' N 114° 17.3' E	Q.R.	23 7	1	Steel column; 13.	
19355 P 3572	-Hak Kok Tau.	22° 15.7' N 114° 15.4' E	Fl.(2)W.R. period 10s fl. 0.8s, ec. 1.5s fl. 0.8s, ec. 6.9s	163 50	W. 15 R. 12	Metal column, white dwelling; 20.	W. 158°-338°30', R.-158°. Aero.Q.R. marks summit close W.
19358 P 3573	-Fat Tau Chau (Junk Island).	22° 16.4' N 114° 15.9' E	Fl.(3)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2.5s	66 20	9	White concrete tower.	
19364 P 3571.8	-Chi Wan, breakwater.	22° 16.4' N 114° 14.7' E	Fl.R. period 3s	20 6	3	White column.	
19367 P 3571.72	--Pier.	22° 16.4' N 114° 14.7' E	Fl.G. period 3s	20 6	3	White column.	
19370 P 3570	Eastern Fairway, A Kung Ngam.	22° 17.1' N 114° 14.1' E	Fl.R. period 5s fl. 0.4s, ec. 4.6s	37 11	11	Red concrete tripod.	Aero.F.Y. marks summit close SE.
19373 P 3571.5	--Typhoon shelter.	22° 17.2' N 114° 13.7' E	Fl.R. period 3s	23 7	3	White column.	Fl.G. 3s, Fl.R. 3s and Q.R. mark inner breakwaters.
19373.5 P 3571.52	---E. Entrance, on dolphin.	22° 17.0' N 114° 14.0' E	Fl.(2)W. period 10s	16 5	3	White structure.	
19376 P 3568	-Sam Kok Tsui.	22° 17.3' N 114° 14.2' E	Fl.G. period 3s	29 9	5	Green column.	
19379 P 3567	--Typhoon Shelter, breakwater.	22° 17.4' N 114° 14.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	White column; 20.	
19379.5 P 3566	---On shore, breakwater, SE.	22° 17.4' N 114° 14.3' E	Fl.G. period 3s	28 9	3	White column; 16.	
19381 P 3569	-Lei Yue Mun.	22° 17.5' N 114° 13.9' E	Q.R.	16 5	2	White concrete structure.	Radar reflector.
19386 P 3562.5	-Kwun Tong Typhoon Shelter, breakwater, E. head.	22° 18.4' N 114° 13.2' E	Fl.R. period 3s	23 7	3	White column.	
19386.3 P 3562.55	--W. end.	22° 18.3' N 114° 13.1' E	F.R.	23 7	3	White column.	Q.R. marks N. end of inner breakwater.
19386.6 P 3562.6	--E. breakwater, head.	22° 18.4' N 114° 13.1' E	Fl.G. period 3s	23 7	3	White column.	
19389 P 3560.5	Kowloon Bay, To Kwa Wan Typhoon shelter, E.	22° 18.7' N 114° 12.1' E	Fl.R. period 3s	25 8	3	White column.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19389.2 P 3560.55	-S.	22° 18.6' N 114° 11.8' E	Fl.G. period 3s	25 8	3	White column.	4 F.R. mark limits of anchoring prohibited area close SW.
19389.4 P 3560.6	-Middle.	22° 18.7' N 114° 11.8' E	Fl.R. period 3s	25 8	3	White column.	
19389.6 P 3560.65	-N.	22° 18.8' N 114° 11.7' E	Fl.G. period 3s	25 8	3	White structure.	
19400 P 3551.2	-Wan Chai, entrance, E. side.	22° 17.1' N 114° 10.9' E	F.R.	22 7	3	White column.	
19400.1 P 3551.4	--Entrance, E. side.	22° 17.1' N 114° 10.9' E	Fl.R. period 3s	24 7	5	White concrete tower.	
19400.2 P 3551	--W. side of entrance.	22° 17.1' N 114° 10.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	White metal column.	
19400.3 P 3553.3	-W. Arm, Typhoon Anchorage.	22° 17.1' N 114° 10.9' E	Fl.G. period 3s	21 6	3	White concrete column; 13.	
19400.4 P 3553	-N. Arm, W. end.	22° 17.1' N 114° 11.0' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	16 5	3	White column; 13.	
19400.5 P 3553.6	-E. Arm.	22° 17.3' N 114° 11.3' E	Fl.R. period 3s	16 5	3	White column; 13.	
19405 P 3576.6	Poi Toi Island.	22° 09.4' N 114° 15.5' E	Fl.W. period 10s	220 67	18	White square building.	
19410 P 3577	Bluff Point.	22° 11.7' N 114° 12.8' E	Fl.(5)W. period 30s	220 67	20	White square building; 10.	
19412 P 3577.2	Un Kok.	22° 10.9' N 114° 08.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	116 35	10	White concrete tower; 13.	
19415 P 3576.8	Lo Chau, NW. end.	22° 11.3' N 114° 14.7' E	Fl.W.R. period 3s fl. 0.5s, ec. 2.5s	122 37	W. 10 R. 8	White concrete tower; 26.	R. 000°-034°, W.-000°.
19417	E. Lamma Channel, <i>Buoy LCS1.</i>	22° 09.3' N 114° 12.7' E	L.Fl.W. period 10s			SAFE WATER RW, pillar.	Radar reflector.
19420 P 3577.1	-Ngan Chau.	22° 12.8' N 114° 11.1' E	Al.Fl.W.R.W. period 10s fl. 0.1s, ec. 1.6s fl. 0.1s, ec. 1.6s fl. 0.1s, ec. 6.5s	92 28	W. 11 R. 8	White square building; 13.	
19421.1 P 3577.3	-SW.	22° 09.2' N 114° 06.0' E	Mo.(U)W. period 15s		13		Wind monitoring station. Horn: Mo(U) ev. 15s.
19422 P 3577.4	-Wong Chu Kok.	22° 12.5' N 114° 09.6' E	Fl.(4)W. period 20s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 9.9s	90 27	10	White concrete tower; 13.	
19425 P 3577.68	-Ap Lei Pai.	22° 13.7' N 114° 09.7' E	Fl.W. period 15s fl. 1s, ec. 14s	26 8	5	White concrete tower.	
19427 P 3577.84	-Aberdeen Harbor, E. entrance, E. breakwater.	22° 14.3' N 114° 09.8' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	21 6	3	White column; 10.	
19427.5 P 3577.8	--W. breakwater.	22° 14.2' N 114° 09.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	21 6	3	White column; 10.	
19430 P 3577.7	--W. entrance.	22° 15.0' N 114° 09.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	21 6	3	White column; 10.	
19431 P 3577.86	--Wong Nei Pai.	22° 14.5' N 114° 09.7' E	Fl.(2)W. period 5s	16 5	5	White metal column.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19432 <i>P 3577.64</i>	-Lung Shan Pai.	22° 14.5' N 114° 08.6' E	Fl.(3)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2.5s	23 7	7	White concrete tower; 20.	4 F.R. mark limits of submarine cable area in vicinity.
19437 <i>P 3577.6</i>	-Fo Yeuk Chau, W. end of island.	22° 14.6' N 114° 08.3' E	Fl.W. period 1.5s	26 8	5	White concrete tower; 36.	
19442 <i>P 3577.44</i>	-NE. Lamma Island.	22° 14.3' N 114° 07.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	43 13	6	White concrete tower.	Visible 122°-315°. 4 F.R. mark limits of submarine cable area in vicinity.
19445 <i>P 3537.8</i>	-Kong Sin Wan.	22° 15.8' N 114° 07.5' E	Q.Y.	16 5	1	SPECIAL Y, column, "X" topmark.	
19460 <i>P 3538</i>	Tsing Chau.	22° 17.0' N 114° 06.7' E	Fl.W. period 10s fl. 0.4s, ec. 9.6s	121 37	16	White round tower; 59.	Visible 277°-186°. F.R. lights mark the piers in Hong Kong harbor.
19473 <i>P 3548</i>	--China Ferry Terminal, breakwater, No 1.	22° 18.0' N 114° 10.0' E	Fl.R. period 3s	25 8	3	White column.	
19473.3 <i>P 3548.2</i>	---No 2.	22° 18.0' N 114° 10.0' E	Fl.G. period 3s	25 8	3	White column.	
19473.6 <i>P 3548.3</i>	---N. breakwater.	22° 18.0' N 114° 10.0' E	Fl.R. period 3s	22 7	3	White column.	
19476 <i>P 3545.5</i>	-Yau Ma Tei Typhoon Shelter, N. entrance, N. side.	22° 19.0' N 114° 09.3' E	Fl.R. period 3s	26 8	3	White column.	
19476.2 <i>P 3545.55</i>	--N. entrance, S. side.	22° 18.9' N 114° 09.3' E	Fl.G. period 3s	26 8	3	White column.	
19476.4 <i>P 3545.7</i>	--S. entrance, N. side.	22° 18.4' N 114° 09.3' E	Fl.R. period 3s	26 8	3	White column.	
19476.6 <i>P 3545.75</i>	---S. side.	22° 18.3' N 114° 09.3' E	Fl.G. period 3s	26 8	3	White column.	
19480 <i>P 3541.3</i>	-Naval Typhoon Shelter, W. breakwater.	22° 19.5' N 114° 08.6' E	Fl.G. period 3s	23 7	3	White column.	
19480.5 <i>P 3541</i>	--E. breakwater, head.	22° 19.5' N 114° 08.7' E	Fl.R. period 3s	23 7	2	White column; 13.	F.R. shown near root.
19482 <i>P 3540.8</i>	-Naval Base, E. breakwater.	22° 18.9' N 114° 08.1' E	Fl.G. period 3s	19 6	3		
19482.1 <i>P 3540.85</i>	--W. breakwater.	22° 18.9' N 114° 08.1' E	Fl.R. period 3s	19 6	3		Head of breakwater marked by Q.R. 6m 1M.
19483 <i>P 3540.7</i>	--Range, front.	22° 19.2' N 114° 08.0' E	Q.W.	78 24	3	Black and white beacon, square daymark.	
19483.1 <i>P 3540.75</i>	---Rear, 350° from front.	22° 19.2' N 114° 08.0' E	Iso.W. period 3s	95 29	3	Black and white beacon, square daymark.	
RAMBLER CHANNEL:							
19483.2 <i>P 3537.4</i>	-Tsing Yi S. Marine Basin. No 1.	22° 19.6' N 114° 06.8' E	Fl.G. period 3s	23 7	3	White column.	
19483.25 <i>P 3537.41</i>	---No 2.	22° 19.6' N 114° 06.7' E	Fl.R. period 3s	23 7	3	White column.	
19483.3 <i>P 3537.432</i>	-Stonecutter's Bridge, S. side.	22° 19.5' N 114° 07.1' E	Iso.W. period 4s	269 82	4		Q.R. and Q.G. mark limits of northbound underpass.
19483.31 <i>P 3537.435</i>	--N. side.	22° 19.5' N 114° 07.1' E	Iso.W. period 4s	269 82	4		Q.R. and Q.G. mark limits of southbound underpass.
19483.5 <i>P 3535.666</i>	Rambler Channel, Tsing Yi Bridge, S. approach, W. side.	22° 20.9' N 114° 06.8' E	F.R.	20 6	2	White column.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19483.6 <i>P 3535.668</i>	-E. side.	22° 20.9' N 114° 06.8' E	F.R.	20 6	2	White column.	
19484.1 <i>P 3535.42</i>	-N. side.	22° 20.9' N 114° 06.8' E	Iso.W. period 4s	71 22	5		Q.R. and Q.G. mark limits of southbound underpass.
19485 <i>P 3535.78</i>	-Kwai Tsing Bridge, S. side.	22° 21.0' N 114° 06.8' E	Iso.W. period 4s	85 26	3		Q.R. and Q.G. mark limits of northbound underpass.
19485.1 <i>P 3535.72</i>	--N. side.	22° 21.0' N 114° 06.8' E	Iso.W. period 4s	79 24	3		Q.R. and Q.G. mark limits of southbound underpass.
19486 <i>P 3535.94</i>	-Tsing Lai Bridge, S. side.	22° 21.4' N 114° 06.7' E	Iso.W. period 4s	69 21	3		Q.R. and Q.G. mark limits of northbound underpass.
19486.1 <i>P 3535.91</i>	--N. side.	22° 21.5' N 114° 06.6' E	Iso.W. period 4s	59 18	3		Q.R. and Q.G. mark limits of southbound underpass.
19488 <i>P 3534.2</i>	-Typhoon Shelter, N. entrance, N. side.	22° 21.6' N 114° 06.7' E	Fl.R. period 3s	16 5	3	White column.	
19488.2 <i>P 3534.22</i>	--N. entrance, S. side.	22° 21.5' N 114° 06.7' E	Fl.G. period 3s	23 7	3	White column.	
19488.4 <i>P 3534.24</i>	--S. entrance, N. side.	22° 21.2' N 114° 06.9' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	3	White column.	
19488.6 <i>P 3534.3</i>	--S. entrance, S. side.	22° 21.2' N 114° 06.9' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	3	White column.	
19492 <i>P 3534</i>	-Channel Rock.	22° 21.5' N 114° 06.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	13 4	6	White concrete tower; 13.	
19496 <i>P 3536.5</i>	-Tsing Tsuen Bridge, center.	22° 21.6' N 114° 06.6' E	Iso.W. period 4s	89 27	7		On N. and S. sides. Q.R. and Q.G. mark limits of each underpass. Bridge piers to N. marked by F.R.
19498 <i>P 3536.72</i>	Ting Kau Bridge, center.	22° 21.7' N 114° 04.8' E	Iso.W. period 4s	218 66	5		On E. and W. sides. Q.R. and Q.G. mark limits of each underpass. Bridge piers N. and S. marked by F.R.
19504 <i>P 3537.6</i>	Kau Yi Chau.	22° 17.2' N 114° 04.8' E	Fl.(2)W.R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	W. 11 R. 8	White concrete framework tower.	W. 081°-092°, R.-128°, W.-350°.
19508 <i>P 3537.7</i>	-S. side	22° 16.9' N 114° 04.6' E	Fl.(3)W. period 20s	23 7	3	White concrete structure; 16.	
19512 <i>P 3532.2</i>	Ma Wan Fairway, channel lead light.	22° 21.8' N 114° 04.2' E	Dir.W.R.G. period 8s fl. 6s, ec. 2s	93 28	W. 8 R. 4 G. 4	White metal framework tower.	Traffic signals. Oc.G. 335°-338°, Oc.W.-342°, Oc.R.-345°.
19514 <i>P 3532.25</i>	-E.	22° 22.0' N 114° 04.4' E	3 Oc.R. (vert.) period 8s	46 14	2	White framework tower.	Visible 255°-015°.
19516 <i>P 3531</i>	Pun Shan Shek.	22° 19.3' N 114° 04.1' E	Fl.R. period 3s	23 7	5	White concrete tower; 33.	
19520 <i>P 3530.6</i>	Tang Lung Chau.	22° 20.4' N 114° 03.8' E	Fl.W. period 5s fl. 1s, ec. 4s	121 37	18	White framework tower; 39.	Visible 224°-099°. Aero Q.R. on summit 1770 meters WSW. Horn: 1 bl. ev. 15s (bl. 2s, si. 13s).
19521 <i>P 3530.8</i>	Kap Shui Mun Bridge, center.	22° 20.6' N 114° 03.3' E	Iso.W. period 4s	174 53	5		On N. and S. sides. Q.R. and Q.G. mark limits of each underpass.
19523 <i>P 3530.9</i>	Tsing Ma Bridge, center.	22° 21.0' N 114° 04.3' E	Iso.W. period 4s	226 69	5		On N. and S. sides. Q.R. and Q.G. mark limits of each underpass.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19524 P 3532.3	Ma Wan, Nqau Lau Tsui.	22° 21.3' N 114° 03.9' E	L.F.I.W.Y.R.G. period 6s fl. 2s, ec. 4s	93 28	W. 5 Y. 4 R. 3 G. 3	White framework tower.	Y. 091°-158°, R.-213°. G.- 258°, R.-286°, W.-321°. Shown when vessel constrained by draft is transiting Ma Wan Channel.
19526 P 3532	-NE. Point.	22° 21.4' N 114° 04.0' E	Fl.(2)W. period 10s	26 8	5	White concrete column.	
19528 P 3529.5	-NW. point.	22° 21.3' N 114° 03.4' E	3 Oc.R. (vert.) period 8s	43 13	2	White framework tower.	Two meters apart. Traffic signals. Visible 053°-091°.
19532 P 3530	-W. point.	22° 20.9' N 114° 03.2' E	Fl.W. period 3s fl. 1.4s, ec. 1.6s	49 15	10	White framework tower; 26.	
19540 P 3521.54	Datum Rock.	22° 16.3' N 114° 03.8' E	Q.R.	23 7	3	White concrete tower; 20.	
19544 P 3531.3	Peng Chau, Wu Ying Pai.	22° 18.2' N 114° 02.2' E	Fl.(2)W. period 10s	16 5	3	White column; 13.	
19546 P 3531.5	-W.	22° 18.0' N 114° 01.8' E	Q.R.	16 5	1	White column; 13.	Q.R. shown from Tso Yuen Wan westward.
19548 P 3521.66	-Comber Rock	22° 17.0' N 114° 02.0' E	Q.R.	10 3	2	White column.	
19550 P 3521.7	Discovery Bay Marina, S. breakwater.	22° 17.4' N 114° 01.4' E	Fl.G. period 3s	23 7	3	White column.	
19550.5 P 3521.72	-N. breakwater.	22° 14.7' N 114° 08.7' E	Fl.R. period 3s	23 7	3	White column.	
19552 P 3521.6	Chau Kung Island.	22° 16.0' N 114° 03.0' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	17 5	3	White column; 10.	F.W. on jetty 1.31 miles NW.
19554 P 3521.83	Ngan Kwong Wan.	22° 15.7' N 114° 00.3' E	Q.R.	20 6	2	White beacon.	
19554.5 P 3521.8	-Rock at entrance to bay.	22° 16.0' N 114° 01.0' E	Q.W.	25 8	4	White column; 20.	
19555 P 3521.9	-Hei Ling Chau Island, Typhoon Shelter, N. entrance.	22° 15.2' N 114° 01.6' E	Fl.R. period 3s	23 7	3	White column.	
19556 P 3521.905	-Hei Ling Chau Island, Typhoon Shelter, N. breakwater, N. head.	22° 15.1' N 114° 01.6' E	Fl.G. period 3s	23 7	3	White column.	
19556.2 P 3521.91	--S. head.	22° 14.5' N 114° 01.9' E	Fl.R. period 3s	30 9	3	White column.	
19556.4 P 3521.915	--S. breakwater, W. head.	22° 14.4' N 114° 01.8' E	Fl.G. period 3s	30 9	3	White column.	
19556.6 P 3521.92	---E. head.	22° 14.5' N 114° 02.3' E	Fl.R. period 3s	30 9	3	White column.	
19556.7 P 3521.922	Hei Ling Chau beacon.	22° 14.5' N 114° 02.4' E	Fl.(2)W. period 10s	20 6	5	ISOLATED DANGER BRB, beacon, topmark.	
19556.8 P 3521.93	-Hei Ling Chau Island, Rock SW.	22° 14.6' N 114° 02.2' E	Fl.(2)W. period 5s	16 5	1	White column.	
19557 P 3521.925	--E. breakwater.	22° 14.6' N 114° 02.3' E	Fl.G. period 3s	30 9	3	White column.	
19558 P 3577.46	W. Lamma Island, Shek Kok Tsui, off point.	22° 14.1' N 114° 06.3' E	Fl.(3)W. period 15s	39 12	10	White concrete tower.	
19562 P 3577.5	-Otsi Kok.	22° 13.7' N 114° 06.4' E	Q.W.	11 3	1	White metal column.	
19565 F 3523.32	Wailingding Dao.	22° 05.4' N 114° 02.8' E	Fl.W. period 6s	16 5	4	White metal post, red bands; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19566 P 3523	S. Traffic Separation Scheme, Cheung Chau Rock.	22° 12.3' N 114° 02.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	21 6	9	White concrete tower; 20.	
19570 P 3522.3	N. Traffic Separation Scheme, SE. extremity of Lantau Island.	22° 13.6' N 114° 01.1' E	Fl.(4)W. period 15s	16 5	4	White metal tower.	
19574 P 3522	-Chang Chow Passage, on Adamaster Rock between Lan Tau Shan and Cheung Chau Island.	22° 13.4' N 114° 01.4' E	Fl.(2)W. period 10s	16 5	11	ISOLATED DANGER BRB, beacon, topmark.	
19578 P 3523.2	-Cheuns Chau Island, Typhoon Shelter, N. breakwater, N. head.	22° 12.7' N 114° 01.4' E	Fl.G. period 3s	22 7	5	White column; 13.	
19578.2 P 3523.22	--S. head.	22° 12.5' N 114° 01.3' E	Fl.R. period 3s	22 7	5	White column; 13.	
19578.4 P 3523.23	--Middle breakwater, N. head.	22° 12.5' N 114° 01.2' E	Fl.G. period 3s	22 7	5	White column; 13.	
19578.6 P 3523.24	---S. head.	22° 12.4' N 114° 01.3' E	Fl.R. period 3s	22 7	5	White column; 13.	
19578.8 P 3523.25	--S. breakwater, N. head.	22° 12.3' N 114° 01.2' E	Fl.G. period 3s	22 7	5	White column; 13.	
19579 P 3523.26	---S. head.	22° 12.1' N 114° 01.1' E	Fl.R. period 3s	22 7	5	White column; 13.	
19582 P 3523.4	-Shek Ku Chau.	22° 12.1' N 113° 59.2' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	46 14	7	White square concrete tower; 16. Visible 048°30'-274°.	
19586 P 3523.8	-Siu A Chau.	22° 11.3' N 113° 54.4' E	Fl.(2)W. period 6s fl. 0.3s, ec. 2s fl. 0.3s, ec. 3.4s	90 27	7	White concrete tower.	
19587 P 3523.5	Zhizhou Liedao. Dazhi Zhou. Ynjiao Zui.	22° 07.7' N 113° 53.4' E	Fl.W. period 6s fl. 1s, ec. 5s	52 16	5	White tower, red bands; 23.	
19588 P 3524	-Lantau Island, SW. extremity.	22° 11.7' N 113° 50.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	65 20	14	White square concrete tower; 20. Visible 261°-154°.	
19590 P 3515	Wenwei Zhou.	21° 48.8' N 113° 56.3' E	L.Fl.W. period 6s	141 43	19	White round stone tower, red top, white fiberglass lantern; 59.	AIS (MMSI No 999413097).
	RACON		O(---)				(3cm).
19590.5 P 3517	Jiapeng Liedao.	21° 52.1' N 113° 59.0' E	Fl.W. period 5s	98 30	5	Red fiberglass tower, white band; 23.	
19590.6 P 3518	Shijiao Zui.	22° 02.0' N 113° 54.3' E	Fl.W. period 8s	108 33	5	White tower, red bands; 23.	
19591 P 3521.01	Dawanshan Dao.	21° 55.6' N 113° 42.9' E	Fl.W. period 5s fl. 1s, ec. 4s	26 8	5	Metal framework structure; 13.	
19592 P 3521.005	Xiaowanshan Dao.	21° 56.6' N 113° 40.6' E	Fl.W. period 5s fl. 1s, ec. 4s	39 12	5	Metal framework structure; 16.	
19593 P 3520.5	Guizhou.	21° 59.2' N 113° 47.5' E	L.Fl.W. period 6s fl. 2s, ec. 4s	112 34	5	Metal framework tower; 13.	
19593.1 P 3520.3	Hengzhou.	22° 00.3' N 113° 48.0' E	Fl.W. period 6s	89 27	5	White tower, red bands, 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19594 <i>P 3520</i>	Zhu Zhou.	21° 59.8' N 113° 49.6' E	Fl.W. period 4s fl. 0.3s, ec. 3.7s	607 185	18	White round metal tower; 49.	
	RACON		N(- •)				(3cm).
19595 <i>P 3521.025</i>	Baili Dao.	21° 58.0' N 113° 45.5' E	Fl.(2)W. period 6s	98 30	5	White concrete column, red bands; 16.	
19595.1 <i>P 3521.03</i>	-La Jiao.	21° 59.4' N 113° 44.3' E	Fl.W. period 4s	43 13	5	Red fiberglass tower, white band; 23.	
19606 <i>P 3521</i>	Sanya Pai.	22° 04.8' N 113° 48.2' E	Fl.W.R. period 6s fl. 0.8s, ec. 5.2s	79 24	W. 13 R. 8	White round pile; 20.	W. 165°-320°, R.-165°.
	RACON		B(- • • •)				(3cm).
19606.1 <i>P 3521.08</i>	Huangmao Dao.	22° 02.0' N 113° 40.2' E	Fl.W. period 5s fl. 1s, ec. 4s	46 14	5	White tower, red bands; 23.	
19606.3 <i>P 3521.02</i>	Wanshan Tou.	21° 56.8' N 113° 44.7' E	Fl.W. period 4s fl. 1s, ec. 3s	59 18	5	White tower, red bands; 23.	
19606.4 <i>P 3521.05</i>	Dongao Dao Dongao Wei.	22° 01.4' N 113° 41.4' E	Fl.W. period 3s fl. 1s, ec. 2s	36 11	5	White tower, red bands; 23.	
19606.5 <i>P 3521.1</i>	Xiaoputai Dao.	22° 01.8' N 113° 38.1' E	Fl.W. period 9s fl. 0.5s, ec. 8.5s	207 63	18	White square stone masonry pile; 33.	
	RACON		G(- - •)				(3cm).
19607 <i>P 3521.13</i>	Datouzhou, S.	22° 05.7' N 113° 42.3' E	Fl.W. period 5s fl. 1s, ec. 4s	82 25	5	White tower, red bands; 23.	
19607.1 <i>P 3523.38</i>	Toulu Zhou.	22° 04.2' N 113° 56.4' E	Fl.W. period 6s fl. 1s, ec. 5s	75 23	5	White tower, red bands; 23.	
19608 <i>P 3523.53</i>	Xiaozhi Zhou.	22° 06.8' N 113° 52.1' E	Fl.W. period 3s fl. 0.1s, ec. 2.9s	217 66	18	White concrete column, red bands; 49.	
19609 <i>P 3521.15</i>	Chitan Dao.	22° 07.3' N 113° 45.7' E	Fl.W. period 3s fl. 1s, ec. 2s	75 23	5	White tower, red bands; 23.	
19610 <i>P 3523.6</i>	Tai A Chau.	22° 09.4' N 113° 54.2' E	Fl.(4)W. period 15s fl. 0.4s, ec. 1s fl. 0.4s, ec. 1s fl. 0.4s, ec. 1s fl. 0.4s, ec. 10.4s	98 30	9	White concrete tower; 13.	
19611 <i>P 3523.55</i>	Zhenxiang Dao.	22° 07.2' N 113° 50.1' E	Fl.W. period 8s fl. 1s, ec. 7s	75 23	5	White tower, red bands; 23.	
19612 <i>P 3523.58</i>	Guishan Dao.	22° 07.3' N 113° 49.4' E	Fl.W. period 4s fl. 1s, ec. 3s	69 21	5	Metal framework tower; 20.	
19618 <i>P 3521.2</i>	Guishan Dao.	22° 08.1' N 113° 48.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	187 57	18	White round concrete tower; 49.	
19618.1 <i>P 3521.19</i>	-Oil Depot, Shugang Pier.	22° 07.8' N 113° 48.8' E	Q.R.	30 9	4	Red metal column; 16.	
19618.2 <i>P 3521.185</i>	-Zhongran, Oil Depot Pier, S.	22° 07.4' N 113° 48.9' E	F.R.	26 8	5	White metal column, red bands; 10.	
19618.25 <i>P 3521.186</i>	---N.	22° 07.6' N 113° 48.7' E	F.R.	26 8	5	White metal column, red bands; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19619 <i>P 3521.18</i>	Sichiyao Jiao.	22° 08.6' N 113° 46.6' E	Fl.(2)W. period 5s	66 20	10	ISOLATED DANGER BRB, beacon, topmark; 33.	
19622 <i>P 3521.3</i>	Shilong Jiao.	22° 10.1' N 113° 47.7' E	Fl.W. period 10s fl. 1.5s, ec. 8.5s	121 37	13	White round brick tower; 33.	
19626 <i>P 3521.35</i>	Rongshutou Dao.	22° 10.8' N 113° 47.7' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s	181 55	18	White square masonry structure; 23.	
19627 <i>P 3521.37</i>	<i>GUI SHAN BEI.</i>	22° 10.9' N 113° 49.8' E	Mo.(A)W. period 6s			Red hull.	
19628 <i>P 3521.4</i>	<i>MAYOU SHI LIGHTSHIP.</i>	22° 16.6' N 113° 48.3' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s		11	Red hull, name painted on sides.	AIS (MMSI No 999413095). Horn: Mo.(U) 30s.
	RACON		K(- • -)				(3cm).
19628.95 <i>P 3521.43</i>	Longgu West Fairway, XC1.	22° 17.3' N 113° 48.8' E	Fl.(2)W. period 5s	16 5	5	Metal pile.	
19629 <i>P 3521.46</i>	-XC2.	22° 17.3' N 113° 49.7' E	Fl.(2)W. period 5s	16 5	5	Metal pile.	
19640 <i>P 3416</i>	Fortaleza da Guia.	22° 11.8' N 113° 33.0' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	354 108	16	White round tower, red daymark; 46.	Signals: Typhoon warnings.
19644 <i>P 3427</i>	Outer entrance range, front.	22° 11.8' N 113° 33.3' E	F.W.	46 14	5	Black metal structure.	Range lights shown by day when hydrofoils are operating and at night as needed.
19644.1 <i>F 3427.01</i>	-Middle, 305° from front.	22° 11.8' N 113° 33.3' E	F.W.	170 52	5	Black metal structure.	
19644.2 <i>P 3427.1</i>	-Rear, 440 meters 305° from front.	22° 11.8' N 113° 33.2' E	F.W.	220 67	5	Black metal structure.	
19648 <i>P 3424</i>	Beacon No 3, SE of breakwater.	22° 10.7' N 113° 35.1' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	3	Green and white concrete tower, green triangular daymark point up; 26.	
19656 <i>P 3426</i>	Beacon No 8.	22° 10.6' N 113° 35.0' E	Q.R.	26 8	3	Red post; 26.	
19658 <i>P 3427.5</i>	S. breakwater, DS1.	22° 10.7' N 113° 34.8' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	26 8	5	Yellow beacon.	Visible 305°-125°. Breakwater marked by beacons Fl.Y. 3s.
	RACON		M(- -)				(3cm).
19660 <i>P 3427.2</i>	N. Breakwater, DN1.	22° 10.9' N 113° 34.8' E	Fl.Y. period 5s	26 8	5	Yellow beacon.	Visible 125°-305°. Breakwater marked by beacons Fl.Y. 5s.
19664 <i>P 3428</i>	Beacon No 5.	22° 10.9' N 113° 34.7' E	Fl.G. period 4s fl. 0.4s, ec. 3.6s	26 8	3	Green and white concrete tower, green triangular daymark point up; 26.	
19668 <i>P 3429</i>	Beacon No 4.	22° 11.0' N 113° 34.4' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	26 8	3	Concrete structure, piles.	
19672 <i>P 3430</i>	Beacon No 7.	22° 11.2' N 113° 34.2' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8	3	Green and white concrete tower, green triangular daymark point up; 26.	
19676 <i>P 3432</i>	Beacon No 6.	22° 11.3' N 113° 33.8' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	26 8	3	White concrete tower, red bands, red square daymark; 26.	
19680 <i>P 3432.51</i>	N. bridge pillar, PN.	22° 11.4' N 113° 33.8' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	26 8	5	Yellow pillar, black stripes.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19684 P 3432.5	S. bridge pillar, PS.	22° 11.4' N 113° 33.8' E	Fl.W. period 2.5s fl. 0.5s, ec. 2s	26 8	3	Yellow pillar, black stripes.	Radar reflector.
19687 P 3433	Beacon No 9.	22° 11.5' N 113° 33.8' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	2	White concrete pillar, green stripes, green triangular daymark point up; 26.	
19690 P 3434	Beacon No 8.	22° 11.5' N 113° 33.6' E	Fl.R. period 4s fl. 1s, ec. 3s	23 7	2	PORT (A) R, structure, topmark; 23.	
19692.1 P 3449.63	Warning test platform.	22° 16.2' N 113° 41.4' E	Fl.(2)W. period 5s	46 14	5	ISOLATED DANGER BRB, beacon, topmark.	
19693 P 3435.4	Porto Interior Channel, M11.	22° 10.8' N 113° 33.8' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	30 9	3	Green and white column.	
19696 P 3435	-M9.	22° 10.8' N 113° 33.8' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	30 9	3	Green and white column.	
19699 P 3435.6	-M12.	22° 10.8' N 113° 33.8' E	Fl.(2)R. period 6s	30 9	3	Red and white column.	
19702 P 3435.2	-M10.	22° 10.9' N 113° 33.8' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	3	Red and white column.	
19708 P 3442	Pedra d'a Areca, Beacon No 14.	22° 10.5' N 113° 32.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	26 8	3	White four-sided concrete column.	
19717 P 3448.5	Coloane Power Station, NE. pier, head, No 31.	22° 08.5' N 113° 35.0' E	Fl.W. period 4s fl. 0.2s, ec. 3.8s	16 5	5	White metal structure.	
19718 P 3449.57	Yanshi Jiao.	22° 14.0' N 113° 36.9' E	Fl.(2)W. period 5s	23 7	4	ISOLATED DANGER BRB, beacon, topmark; 7.	
19718.5 P 3449.4	Jiuzhou Gang, breakwater, head.	22° 14.2' N 113° 35.2' E	Fl.(3)W. period 10s	33 10	5	White round stone tower; 20.	
19720 P 3420	Ponta de Ka-ho, Beacon No 17.	22° 07.8' N 113° 35.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	157 48	12	White column; 20.	
19723 P 3420.5	-Ponta de Hac-Sa.	22° 06.8' N 113° 34.4' E	Fl.(2)W. period 8s	180 55	12	Metal structure, concrete base.	
19724 P 3524.5	Wong Fa Pi.	22° 14.0' N 113° 49.8' E	Fl.(3)W. period 15s	22 7	5	White column.	
19726 P 3525.5	Sha Chau.	22° 20.5' N 113° 53.4' E	Fl.(4)W. period 10s	93 28	10	White concrete structure.	
19727 P 3525.6	-	22° 21.0' N 113° 53.4' E	Oc.W. period 10s	24 7	3	White column.	Visible 262°-264°.
19728 P 3527.66	Tuen Mun, Typhoon Shelter, W. entrance, S. side.	22° 22.2' N 113° 58.4' E	Fl.R. period 3s	23 7	3	White column; 13.	
19728.2 P 3527.7	--W. entrance, N. side.	22° 22.3' N 113° 58.4' E	Fl.G. period 3s	23 7	2	White column, 13.	
19728.4 P 3527.72	--E. entrance, S. side.	22° 22.4' N 113° 58.6' E	Fl.R. period 3s	23 7	3	White column; 13.	
19728.6 P 3527.73	---N. side.	22° 22.4' N 113° 58.6' E	Fl.G. period 3s	23 7	2	White column; 13.	
19728.8 P 3527.8	-Gold Coast Marina, entrance, N. side.	22° 22.0' N 113° 59.3' E	Fl.R. period 3s	11 3	3	White concrete column.	Aero Q.R. mark summits close N and NNE.
19729 P 3527.82	--S. side.	22° 21.9' N 113° 59.4' E	Fl.G. period 3s	11 3	3	White concrete column.	Fl.R. and Fl.G. mark interior approach to marina.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19729.2 <i>P 3527.6</i>	Tsing Shan Wan, Sewer outfall.	22° 22.0' N 113° 58.0' E	Q.R.	16 5	3	White concrete tripod; 13.	
19729.4 <i>P 3527.74</i>	Tuen Mun Castle Peak Bay.	22° 21.8' N 113° 59.1' E	Q.R.	11 3	2	White column; 7.	
19732 <i>P 3527.9</i>	Chi Shui-Men, Siu Ho Wan.	22° 18.8' N 113° 59.6' E	Q.W.	7 2	3	N. CARDINAL BY, beacon, topmark.	Aero Q.R. marks summit close E.
19734 <i>P 3528</i>	-Luk Keng.	22° 20.0' N 114° 01.0' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	50 15	6	White concrete tower; 13.	Visible 334°-289°30'.
19736 <i>P 3529</i>	-Ha Pang.	22° 21.4' N 114° 01.7' E	Oc.W.G. period 3s lt. 2.3s, ec. 0.7s	26 8	W. 11 G. 9	White concrete tower.	W. 305°-265°, G.-305°. Aero Q.R. marks summit close N.
19738 <i>P 3529.3</i>	--E.	22° 21.3' N 114° 01.8' E	3 Oc.R. (vert.) period 8s	46 14	2	White framework tower.	Visible 330°-090°. Traffic signals.
19742 <i>P 3526</i>	Lung Kwu Chau.	22° 22.9' N 113° 52.7' E	Fl.W. period 5s fl. 0.4s, ec. 4.6s	175 53	15	White square concrete tower; 13.	
19746 <i>P 3526.2</i>	Lan Kok Tsui.	22° 24.4' N 113° 54.3' E	Fl.(3)W. period 10s	430 131	15	White structure.	
19750 <i>P 3526.6</i>	Nim Wan, No 1.	22° 25.3' N 113° 54.8' E	Fl.G. period 3s	30 9	2	Green metal pile.	Channel marked by lighted beacons. Radar reflector.
19752 <i>P 3526.8</i>	-NE.	22° 25.7' N 113° 55.3' E	Q.R.	10 3	2	White concrete tripod.	
19753 <i>P 3526.25</i>	Black Point Power Station.	22° 24.6' N 113° 54.2' E	Q.(9)W. period 15s	13 4	2	W. CARDINAL YBY, beacon, topmark.	
19754 <i>P 3458</i>	Chi-Wan Range, front.	22° 28.8' N 113° 52.8' E	Iso.R. period 4s	128 39	5	Gray and white framework tower; 105.	
19754.1 <i>P 3458.1</i>	--Rear, 357 meters 355°25' from front.	22° 29.0' N 113° 52.8' E	Oc.R. period 5s	157 48	5	White concrete structure, white triangular topmark point down; 33.	
19762 <i>P 3457.4</i>	Shekou, New Channel Range, front.	22° 28.5' N 113° 54.6' E	Iso.G. period 2s	46 14	2	White fiberglass structure, black stripe, red triangular daymark point up; 43.	
19762.1 <i>P 3457.41</i>	--Rear, 036°43' from front.	22° 28.8' N 113° 54.8' E	Oc.R. period 5s lt. 4s, ec. 1s	60 18	3	White fiberglass structure, red triangular daymark point down; 56.	
19765 <i>P 3527.1</i>	Nam Sha Po.	22° 30.7' N 113° 59.7' E	Fl.(2)R. period 6s	20 6	10	PORT (A) R, pole, topmark.	
19766 <i>P 3527</i>	Hau Hoi Wan, on dolphin.	22° 28.6' N 113° 57.7' E	Q.R.	7 2	2	Dolphin.	
19768 <i>P 3526.9</i>	-Lau Fau.	22° 28.3' N 113° 56.9' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	20 6	5	White column.	
19778 <i>P 3459</i>	Xiya Island.	22° 32.8' N 113° 49.1' E	Fl.(2)W. period 6s	82 25	10	White pile; 26.	Visible 272°-245°.
19779 <i>P 3452</i>	Tonggu Jiao.	22° 22.5' N 113° 37.5' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	180 55	18	White round stone tower, building; 36.	
19800 <i>P 3526.5</i>	Neilingding Dao.	22° 25.0' N 113° 46.9' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	46 14	12	White triangular masonry structure, hexagonal base; 36.	
19802 <i>P 3456.1</i>	Hengmen Dongshuidao, front, No 2.	22° 25.2' N 113° 40.8' E	FR.	85 26	9	Black column, white bands, rectangular topmark.	Topmark consists of 4 rectangular LEDs.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19803 <i>P 3456.11</i>	-Rear, No 3.	22° 25.9' N 113° 39.6' E	F.R.	151 46	9	Black column, white bands, rectangular topmark.	Topmark consists of 5 rectangular LEDs.
	RACON		Z(- - • •)				(3cm).
19804 <i>P 3456</i>	Dawang Jiao.	22° 26.1' N 113° 39.6' E	Fl.(2)W. period 6s	92 28	8	White round masonry framework structure; 33.	
19806 <i>P 3465.451</i>	Sanqi Barge Pier.	22° 37.6' N 113° 41.2' E	Fl.W. period 5s	43 13	5	Red and white fiberglass tower; 33.	
19808 <i>P 3465.41</i>	Nansha Gang, Service Boat Pier.	22° 39.6' N 113° 40.6' E	Q.R.	36 11	5	33.	
19808.1 <i>P 3465.39</i>	--S.	22° 40.0' N 113° 40.4' E	Fl.G. period 4s	33 10	5	White column, green bands; 33.	
19808.8 <i>P 3461.5</i>	Fanshi Shuidao, No 2.	22° 34.5' N 113° 47.7' E	Fl.(2+1)G. period 6s	17 5	9	STARBOARD (A) G, beacon, topmark.	
19808.9 <i>P 3462</i>	-No 3.	22° 36.0' N 113° 46.7' E	Q.(9)W. period 15s	18 6	10	W. CARDINAL YBY, beacon, topmark.	
19809 <i>P 3464.5</i>	-No 4.	22° 40.8' N 113° 44.2' E	Fl.(2+1)G. period 6s	17 5	9	PREFERRED CHANNEL (A) GRG, beacon, topmark.	
19809.2 <i>P 3465</i>	-No 5.	22° 41.3' N 113° 43.2' E	Q.(9)W. period 15s	18 6	10	W. CARDINAL YBY, beacon, topmark.	
19809.5 <i>P 3464</i>	Dachan Shuidao, No 20.	22° 40.5' N 113° 45.4' E	Fl.(2)G. period 6s	18 6	9	STARBOARD (A) G, beacon, topmark.	
19810 <i>P 3465</i>	Jiaoyi Sha, S.	22° 41.1' N 113° 43.2' E	Q.(9)W. period 15s	17 5		W. CARDINAL YBY, beacon, topmark.	
19810.3 <i>P 3465.24</i>	-No 22.	22° 41.7' N 113° 43.8' E	Fl.(2)R. period 6s	18 6	7	PORT (A) R, beacon, topmark.	
19810.4 <i>P 3465.25</i>	-No 21.	22° 42.2' N 113° 44.4' E	Fl.(2)G. period 6s	18 6	9	STARBOARD (A) G, beacon, topmark.	
19810.5 <i>P 3465.305</i>	-No 24.	22° 42.8' N 113° 43.0' E	Fl.(2)R. period 6s	18 6	9	PORT (A) R, beacon, topmark.	
19810.6 <i>P 3465.306</i>	-No 23.	22° 43.2' N 113° 42.9' E	Fl.(2)G. period 6s	18 6	7	STARBOARD (A) G, beacon, topmark.	
19811.1 <i>P 3465.307</i>	-No 26.	22° 43.5' N 113° 41.6' E	Fl.(2)R. period 6s	18 6	7	PORT (A) R, beacon, topmark.	
19811.2 <i>P 3465.308</i>	-No 25.	22° 43.6' N 113° 41.7' E	Fl.(2)G. period 6s	18 6	9	STARBOARD (A) G, beacon, topmark.	
19811.4 <i>P 3465.309</i>	-No 27.	22° 43.8' N 113° 40.8' E	Fl.(2)G. period 6s	20 6	9	STARBOARD (A) G, beacon, topmark.	
19812 <i>P 3466</i>	Shanban Zhou.	22° 43.0' N 113° 39.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	105 32	18	White square tower, building; 43.	Horn: Mo(U) 1 str. ev. 30s.
	RACON		C(- • - •)				
19815 <i>P 3468.1</i>	Humen Bridge Opening, W. Shanghengdang.	22° 47.1' N 113° 35.9' E	F.G.		3	Green arrowed daymarks, white square board.	F.R. 3M marks area closed to navigation. Q.Y. 3M mark bridge piers.
	RACON		M(- -)				
19815.1 <i>P 3468.2</i>	-E. Shanghengdang.	22° 47.7' N 113° 36.7' E	F.G.		3	Green arrowed daymarks, white square board.	F.R. 3M marks area closed to navigation. Fl.(2)R. 6s 3M marks SW. side of channel. Fl.(2)G. 6s 3M marks NE. side of channel. Q.Y. 3M mark bridge piers.
	-RACON		B(- • • •)				(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19820 <i>P 3473.9</i>	S. Range, front, 580 meters 189°03' from common rear.	22° 54.2' N 113° 34.4' E	F.R.	59 18	5	White concrete pile, black stripe; 52.	
19824 <i>P 3474</i>	-Nizhou Tou, common rear.	22° 54.6' N 113° 34.4' E	F.R.	78 24	5	Gray concrete pile, black stripe; 82.	
19828 <i>P 3474.1</i>	--N. Range, front, 400 meters 318°43' from common rear.	22° 54.7' N 113° 34.3' E	F.R.	59 18	5	White concrete pile, black stripe; 56.	
19829 <i>P 3474.6</i>	La Sha, Oil Products, breakwater, head, No 1.	22° 55.7' N 113° 33.9' E	L.F.I.R. period 6s	43 13	5	Red metal column; 26.	
19829.1 <i>P 3474.605</i>	-No 2.	22° 55.9' N 113° 33.8' E	Iso.R. period 4s	43 13	5	Red metal column; 26.	
19832 <i>P 3476</i>	Lianshan Range, front.	22° 59.8' N 113° 30.7' E	Iso.R. period 2s	56 17	5	White concrete tower; 49.	
19836 <i>P 3476.1</i>	Rear, 400 meters 325°40' from front.	23° 00.0' N 113° 30.5' E	Oc.R. period 6s	79 24	5	White concrete tower; 75.	
CANTON RIVER:							
19840 <i>P 3482</i>	-Dahao Zhou Range, front.	23° 04.9' N 113° 28.3' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	30 9	5	White round fiberglass tower; 26.	Tide gauge.
19844 <i>P 3482.1</i>	--Rear, 200 meters 132°27' from front.	23° 04.8' N 113° 28.4' E	Iso.W. period 2s	33 10	5	White round brick tower; 33.	
19848 <i>P 3483</i>	-Huangpu Gang Range No 1, front.	23° 05.4' N 113° 27.8' E	Iso.G. period 6s	39 12	5	White round masonry tower; 33.	
19852 <i>P 3483.1</i>	--Rear, 180 meters 324°40' from front.	23° 05.5' N 113° 27.7' E	F.G.	49 15	5	White round masonry tower; 49.	
19856 <i>P 3483.2</i>	-Huangpu Gang Range No 2, front.	23° 05.5' N 113° 27.6' E	Iso.G. period 6s	33 10	5	White round brick tower; 33.	
19860 <i>P 3483.21</i>	--Rear, 160 meters 312°27' from front.	23° 05.5' N 113° 27.5' E	F.G.	46 14	5	White round brick tower; 46.	
19864 <i>P 3490</i>	-Liyu Gang.	23° 01.9' N 113° 22.9' E	Fl.W. period 4s	43 13	5	White round fiberglass column, red bands; 33.	
19868	-Comus Rock.	22° 12.6' N 113° 33.2' E	Fl.G. period 4s				
19870 <i>P 3449.58</i>	-Jilong Dao, S.	22° 15.4' N 113° 37.0' E	Fl.W. period 6s	16 5	4	White post, red bands; 10.	
19870.1 <i>P 3449.59</i>	--N.	22° 15.4' N 113° 37.0' E	Fl.(2)W. period 6s	16 5	4	White post, red bands; 10.	
19872 <i>P 3490.2</i>	-Fenshuitou.	23° 02.3' N 113° 21.5' E	Fl.W. period 6s	43 13	4	White fiberglass column, red bands; 33.	
19888 <i>P 3407.48</i>	Gaolan Gangqu, pier, S.	21° 52.8' N 113° 15.1' E	F.R.	13 4	5	White column, red bands; 3.	
19900	<i>Hebao Dao Buoy 1.</i>	21° 49.8' N 113° 13.7' E	Fl.(2)G. period 6s			STARBOARD (A) G, pillar, topmark.	
RACON			Y(- • - -)				
19980 <i>P 3407</i>	Xiaojin.	21° 47.8' N 113° 01.3' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	276 84	15	White hexagonal concrete tower.	
RACON			O(- - -)				(3cm).
19984 <i>P 3406</i>	Weijia Dao.	21° 34.3' N 112° 47.7' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	564 172	18	White round masonry structure; 10.	
RACON			K(- • -)				(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19984.5 <i>P 3406.5</i>	Modou Zhou.	21° 36.1' N 112° 44.1' E	Fl.W. period 4s	121 37	6		
19985 <i>P 3405.85</i>	Bijia Zhou.	21° 39.7' N 112° 33.5' E	Fl.(2)W. period 4s	72 22	6	White metal framework tower; 10.	
19986 <i>P 3405.6</i>	Nanpeng Dao.	21° 32.9' N 112° 11.0' E	Fl.W. period 9s	626 191	20	White concrete tower; 39.	Reserve light Fl.W. 8s 13M.
	RACON		G(- - •)				(3cm).
19987 <i>P 3406.9</i>	Qinglan Tou.	21° 46.4' N 112° 52.3' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	210 64	12	White round brick tower; 13.	Visible 099°-350°.
19988 <i>P 3405.5</i>	Huang-ching.	21° 33.3' N 112° 06.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	59 18	10	White round concrete structure; 33.	
19992 <i>P 3405</i>	Hai-ling-shan Tao.	21° 33.6' N 111° 48.4' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	145 44	12	Round stone masonry tower; 43.	Fishing light.
19992.5 <i>P 3404.4</i>	Dazhuzhou.	21° 26.3' N 111° 22.4' E	Fl.(3)W. period 10s	331 101	10	Red concrete column; 49.	
19993 <i>P 3404.6</i>	Qing Zhou.	21° 28.9' N 111° 27.9' E	Fl.(2)W. period 10s	381 116	7	White metal pole; 13.	Fishing light.
19994	<i>Dazhu Zhou SBM.</i>	21° 20.9' N 111° 24.6' E	Fl.Y. period 3s				Horn.
	RACON		X(- • • -)				(3cm).
19995 <i>P 3404.9</i>	Changhuan Zui.	21° 31.9' N 111° 40.0' E	Fl.(3)W. period 10s	230 70	7	White beacon; 43.	
19995.1 <i>P 3404.3</i>	Xi'ao Jiao.	21° 24.7' N 111° 17.2' E	Fl.(2)W. period 5s	20 6	3	ISOLATED DANGER BRB, tower, topmark; 23.	
19995.3 <i>P 3404.2</i>	Baidan Shi.	21° 24.5' N 111° 14.9' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	56 17	3	White round masonry tower; 26.	
19996 <i>P 3404</i>	Dafangji.	21° 23.1' N 111° 11.2' E	Fl.W. period 6s	453 138	18	Red round concrete tower; 43.	
	RACON		Z(- - • •)				(3cm).
19996.1 <i>P 3403.155</i>	Liuxiong Cun.	21° 23.1' N 110° 52.6' E	Q.R.	30 9	4	White metal pile, red bands; 26.	
19996.2 <i>P 3403.17</i>	Mile Cun.	21° 24.8' N 110° 55.1' E	Fl.R. period 5s	30 9	4	Red metal pile; 26.	
19996.3 <i>P 3403.3</i>	Aonei.	21° 25.8' N 110° 59.1' E	Q.W.	33 10	4	Red metal pile; 26.	
19996.4 <i>P 3403.18</i>	Hailing Cun.	21° 25.1' N 110° 55.9' E	Q.W.	30 9	4	White metal pile, red bands; 26.	
19997 <i>P 3403.06</i>	Tanliu Cun.	21° 23.4' N 110° 49.8' E	Fl.W. period 5s	30 9	4	White metal pile, red bands; 26.	
19998 <i>P 3403.12</i>	Shatian Cun.	21° 23.6' N 110° 50.7' E	Fl.W. period 3s	30 9	4	Red metal pile; 26.	
19999 <i>P 3359.22</i>	Nayan Jiao.	20° 53.1' N 110° 36.5' E	Q.R.	20 6	4	White metal post, red bands; 13.	
19999.5 <i>P 3359.18</i>	Nayan, E.	20° 53.5' N 110° 37.2' E	F.R.	66 20	4	Red metal post; 20.	
20000 <i>P 3359</i>	Nao Chou.	20° 54.1' N 110° 36.4' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	337 103	26	White round masonry tower; 62.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
20000.5 <i>P 3359.16</i>	Tanbei Sha.	20° 54.1' N 110° 37.4' E	Fl.W. period 3s	59 18	4	White metal post, red bands; 13.	
20001 <i>P 3359.1</i>	Dingdang Cun.	20° 55.0' N 110° 38.1' E	Q.R.	43 13	4	Red metal post; 20.	
20001.5 <i>P 3359.225</i>	-Bohe S. Reef.	20° 50.1' N 110° 37.1' E	Fl.(2)W. period 5s	13 4	4	ISOLATED DANGER BRB, tower, topmark; 13.	
20001.55 <i>P 3359.275</i>	-Yingming Cun.	20° 52.1' N 110° 34.7' E	Q.W.	13 4	4	White metal pile, red bands; 13.	
20002 <i>P 3360.43</i>	-Haitougong Reef.	20° 56.0' N 110° 38.3' E	Q.W.	13 4	4	White metal pile, red bands; 13.	
20004 <i>P 3360</i>	-Doulong Cun N. Range, front.	20° 56.2' N 110° 37.8' E	F.W.	82 25	14	White four-sided pyramidal brick tower; 23.	Siren: (about 200 meters NE).
	-RACON		Z(- - • •)				
20008 <i>P 3360.1</i>	--Rear, 200 meters 270° from front.	20° 56.2' N 110° 37.7' E	Iso.W. period 6s	131 40	14	Black round stone pile, white checkered bands; 85.	
20010 <i>P 3360.4</i>	-Doulong Cun S. Range, front.	20° 56.3' N 110° 37.8' E	Oc.W. period 4s	49 15	8	White round concrete tower, black stripe; 43.	
20012 <i>P 3360.41</i>	--Rear, 1750 meters 166°57' from front.	20° 55.4' N 110° 38.0' E	Q.W.	131 40	8	Black hexagonal pyramidal stone tower, white stripes; 56.	
20012.05 <i>P 3359.72</i>	Liangwu Cun.	20° 56.7' N 110° 35.1' E	Fl.W. period 3s	13 4	4	White metal pile, red bands; 13.	
20012.06 <i>P 3359.9</i>	Leigong Ling.	20° 56.9' N 110° 35.5' E	Q.W.	52 16	4	Red post, 36.	
20012.1 <i>P 3360.415</i>	Naozhou Dao, Tangjing Leishi.	20° 55.5' N 110° 38.3' E	Q.R.	13 4	4	White metal column, red bands; 13.	
20012.12 <i>P 3359.75</i>	-Houjiao Cun.	20° 57.0' N 110° 35.1' E	Q.R.	30 9	4	Red metal post; 20.	
20012.14 <i>P 3359.98</i>	-Yanlou Cun.	20° 56.6' N 110° 36.9' E	Q.R.	16 5	4	White metal column, red band; 16.	
20012.15 <i>P 3359.99</i>	-Doulong Cun.	20° 56.4' N 110° 37.6' E	Fl.R. period 3s	13 4	4	Red metal post; 13.	
20012.3 <i>P 3359.65</i>	-Gangtou SW.	20° 56.0' N 110° 34.6' E	Fl.W. period 5s	20 6	4	Red metal post; 20.	
20012.5 <i>P 3359.62</i>	-Yanting Cun, No 1.	20° 55.4' N 110° 34.2' E	Q.G.	13 4	4	Green metal post; 13.	
20012.51 <i>P 3359.63</i>	--No 2.	20° 55.4' N 110° 34.4' E	Q.R.	13 4	4	Red metal post; 13.	
20012.6 <i>P 3359.58</i>	-Zengpeng Cun.	20° 54.5' N 110° 33.1' E	Fl.(2)R. period 6s	7 2	4	Red metal post; 10.	
20012.7 <i>P 3368.64</i>	Paisha Qiantan.	20° 54.3' N 110° 31.3' E	Iso.R. period 4s	13 4	4	White metal pile, red bands; 13.	
20012.8	Shenshi bank.	20° 59.7' N 110° 22.9' E	Fl.W. period 3s	33 10	4		
20012.9 <i>P 3359.3</i>	Nanjiaowei.	20° 52.3' N 110° 33.7' E	Q.W.	52 16	4	Red post; 36.	
20013 <i>P 3370</i>	Lijian Men.	21° 13.9' N 110° 38.1' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s		8	White column; 66.	
20013.5 <i>P 3368.2</i>	Hou Wan.	20° 58.7' N 110° 31.6' E	Fl.W. period 3s	30 9	4	Red metal post; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
20013.7 <i>P 3364</i>	Baogang Drainage, No 1.	20° 59.3' N 110° 36.1' E	Mo.(C)Y. period 12s	55 17	5	SPECIAL Y, beacon, "X" topmark; 49.	AIS (MMSI No 994121640).
	RACON		B(- • • •)				
20014 <i>P 3372.1</i>	Longteng Hangdao.	21° 03.5' N 110° 33.1' E	Dir.W.R.G. period 4s	135 41	15		Iso.G. 274°39'-276°06', Iso.W.-277°33', Iso.R.- 279°.
	RACON		C(- • - •)				(3cm).
20016 <i>P 3368</i>	Longshui Ling, Range, front.	21° 01.1' N 110° 32.2' E	F.W.	69 21	14	White hexagonal pyramidal stone tower; 36.	
20020 <i>P 3368.1</i>	--Rear, about 1088 meters 303°46' from front.	21° 01.4' N 110° 31.7' E	Fl.(2)W. period 4s	190 58	10	White hexagonal pyramidal stone tower; 36.	
20021 <i>P 3368.81</i>	-Houhainan Cun.	21° 02.1' N 110° 32.7' E	Fl.W. period 5s	33 10	4	White metal column, red bands; 26.	
20021.1 <i>P 3368.82</i>	-Houhaibei Cun.	21° 02.2' N 110° 32.7' E	Q.W.	33 10	4	Red metal column; 26.	
20022 <i>P 3378.4</i>	Nansan Dao, Nanliu Cun.	21° 08.3' N 110° 35.3' E	Fl.W. period 5s	23 7	4	White metal column, red bands; 13.	
20022.5 <i>P 3378.5</i>	-Pulutang Cun.	21° 10.2' N 110° 36.2' E	Fl.W. period 3s	20 6	4	White metal column, red bands; 13.	
20023 <i>P 3378.3</i>	-Laoliang Cun.	21° 06.9' N 110° 31.4' E	Q.W.	20 6	4	White metal column, red bands; 16.	
	LIN-HAI TAO:						
20024 <i>P 3374</i>	-Nansan Dao, Range, front.	21° 05.8' N 110° 33.7' E	Iso.W. period 6s	62 19	7	White hexagonal pyramidal stone tower, black bands; 53.	
20028 <i>P 3374.1</i>	---Rear, 1100 meters 325°06' from front.	21° 06.3' N 110° 33.4' E	F.W.	102 31	10	White hexagonal pyramidal stone tower, black bands; 43.	
20028.5 <i>P 3378.19</i>	--Dengta Cun, No 1.	21° 06.1' N 110° 31.6' E	Q.R.	16 5	4	White metal column, red bands; 13.	
20028.55 <i>P 3378.2</i>	---No 2.	21° 06.2' N 110° 31.8' E	Fl.W. period 3s	16 5	4	Red metal post; 13.	
20029 <i>P 3375</i>	-Donghai Dao.	21° 03.7' N 110° 35.1' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	33 10	10	Red hull.	AIS (MMSI No 999413031).
	RACON		G(- - •)				(3cm).
20032 <i>P 3378</i>	-SW. extremity of island Range, front.	21° 05.5' N 110° 32.5' E	Iso.R. period 4s	69 21	7	Concrete structure; 75.	
20036 <i>P 3378.1</i>	--Rear, 800 meters 076°47' from front.	21° 05.6' N 110° 33.0' E	F.R.	98 30	7	Concrete structure; 105.	
20038 <i>P 3379.92</i>	-Donghai Dao, Bulk Cargo Pier, No 2.	21° 04.0' N 110° 29.0' E	F.R.	33 10	5	White metal column, red bands; 23.	
20038.5 <i>P 3379.928</i>	--No 6.	21° 04.4' N 110° 30.2' E	Iso.G. period 4s	43 13	5	White post, green bands; 33.	
20039 <i>P 3379.93</i>	--No 7.	21° 04.6' N 110° 30.4' E	Iso.R. period 4s	43 13	5	White post, red bands; 33.	
20039.5 <i>P 3379.95</i>	-Zhanjiang Shuidao.	21° 04.7' N 110° 31.3' E	Iso.R. period 4s	33 10	5	White post, red bands; 23.	
20046 <i>P 3381.18</i>	-Dongcan, Ferry.	21° 05.7' N 110° 23.8' E	Q.W.	39 12	4	Red metal column; 26.	
20048 <i>P 3381</i>	-Dongtoushan Dao Range, front.	21° 06.8' N 110° 24.8' E	F.R.	121 37	7	Red post, white concrete column, red triangular daymark point up; 121.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
20052 P 3381.1	--Rear, 250 meters 177°40' from front.	21° 06.6' N 110° 24.8' E	F.R.	141 43	7	Red post, white concrete column, red triangular daymark point down; 138.	
20053 P 3381.18	--Ferry.	21° 06.1' N 110° 24.4' E	Q.W.	33 10	4	Red metal column; 26.	
20054 P 3381.19	--New Oil Pier.	21° 08.9' N 110° 24.4' E	Fl.G. period 2s	46 14	5	Fiberglass column; 33.	
20054.1 P 3381.185	--Xiashan Bulk, No 1.	21° 08.2' N 110° 24.3' E	Fl.W. period 3s	39 12	5	White metal column, red bands; 10.	
20054.15 P 3381.188	--No 2.	21° 08.5' N 110° 24.3' E	Fl.W. period 5s	52 16	5	White metal column, red bands; 3.	
20056 P 3379	--Shitou Jiao Range, front.	21° 09.5' N 110° 23.6' E	Iso.R. period 6s	79 24	7	White concrete column, blue triangular daymark point up; 95.	
20060 P 3379.1	--Rear, 540 meters 322°16' from front.	21° 09.7' N 110° 23.4' E	Iso.R. period 6s	115 35	7	White concrete column, blue triangular daymark point down; 138.	Synchronized with front.
20065.1 P 3381.652	--Techeng Dao, No 2.	21° 09.9' N 110° 25.8' E	Fl.(2)R. period 6s	33 10	4	Red round column; 23.	
20065.3 P 3381.65	--Ferry.	21° 09.9' N 110° 25.8' E	F.W.	30 9	4	Red metal post; 26.	
20065.4 P 3381.6	--Powei Bifengtang.	21° 09.9' N 110° 25.6' E	Q.W.	15 4	4	White fiberglass post, red bands; 13.	
20065.5 P 3381.68	--Nansan Dao, Beiyatou Cun.	21° 10.2' N 110° 26.1' E	Fl.W. period 3s	23 7	4	Red metal post; 13.	
20067 P 3383.5	--Xianshan, quay.	21° 10.5' N 110° 24.6' E	Iso.R. period 4s	36 11	5	White metal column, red bands; 23.	
20067.2 P 3383.6	--Berth No 2.	21° 10.8' N 110° 24.4' E	Iso.R. period 6s	30 9	5	White metal column, red bands; 16.	
20076 P 3382	--Maxie Range, front.	21° 11.8' N 110° 25.7' E	F.R.	56 17	5	White truncated pyramidal masonry tower, rectangular daymark; 43.	
20080 P 3382.1	--Rear, 160 meters 023°10' from front.	21° 11.9' N 110° 25.7' E	F.R.	72 22	5	White truncated pyramidal masonry tower, rectangular daymark; 59.	
20080.1 P 3382.15	--Ferry.	21° 11.9' N 110° 25.6' E	Q.W.	33 10	4	Red metal column; 26.	
20082 P 3382.3	--Moyanlou Range, front.	21° 14.3' N 110° 26.8' E	F.G.	112 34	5	White round column, trapezoidal daymark; 98.	
20082.1 P 3382.31	--Rear, 380 meters 030°17' from front.	21° 14.5' N 110° 26.9' E	F.G.	138 42	5	White round column, trapezoidal daymark; 125.	
20082.11 P 3382.33	Navy Pier, N.	21° 14.5' N 110° 25.1' E	F.R.	30 9	4	White column, red bands; 20.	
20082.12 P 3382.32	--S.	21° 14.4' N 110° 25.2' E	F.R.	30 9	4	White column, red bands; 20.	
20082.2 P 3382.362	Haiwan Bridge.	21° 15.1' N 110° 25.0' E	Iso.W. period 4s		4	Red round daymark, white stripes.	Marks best passing point. Fl.(2)R. 6s 4M and Fl.(2)G. 10s 4M mark width of navigable span.
	RACON		T(-)				(3cm).
20083 P 3382.4	--Xiahai Range, front.	21° 15.1' N 110° 24.4' E	Iso.R. period 4s	105 32	7	White post, red band; 89.	
20083.1 P 3382.41	--Rear, 240 meters 199°46' from front.	21° 15.0' N 110° 24.4' E	Iso.R. period 4s	125 38	7	White post, red band; 108.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
20083.11 <i>P 3382.414</i>	Salvaging pier, No 1.	21° 15.7' N 110° 23.9' E	Fl.W. period 4s	29 9	4	White fiberglass post, red bands; 19.	
20083.12 <i>P 3382.415</i>	-No 2.	21° 15.6' N 110° 24.0' E	Fl.W. period 4s	29 9	4	White fiberglass post, red bands; 19.	
20083.2 <i>P 3382.425</i>	Diaoshun Pier Basin Range, front.	21° 16.7' N 110° 24.1' E	F.G.	46 14	3	White conical brick pile.	Fishing light. Occasional.
20083.3 <i>P 3382.426</i>	-Rear, 440 meters 336°36' from front.	21° 16.9' N 110° 24.0' E	F.G.	62 19	3	White conical brick pile.	Fishing light. Occasional.
20084 <i>P 3382.421</i>	-Diaoshun Dao Range, front.	21° 16.8' N 110° 23.7' E	Iso.R. period 4s	49 15	6	White four-sided stone tower, black stripe; 43.	
20084.1 <i>P 3382.422</i>	--Rear, 280 meters 322°31' from front.	21° 16.9' N 110° 23.6' E	Iso.R. period 4s	79 24	6	White four-sided stone tower, black stripe; 75.	
20087 <i>P 3320.5</i>	-Beihai Xingang Range, front.	21° 28.3' N 109° 04.0' E	F.R.	72 22	3	STARBOARD (B) R, beacon, topmark; 75.	
20087.1 <i>P 3320.51</i>	--Rear, 340 meters 130° from front.	21° 28.2' N 109° 04.1' E	F.R.	92 28	3	Metal framework tower, triangular daymark point down; 98.	
20088 <i>P 3321</i>	Neigang Range, front.	21° 28.8' N 109° 05.1' E	F.R.	52 16	3	Black framework tower, black triangular daymark point up; 46.	
20088.1 <i>P 3321.1</i>	--Rear, 150 meters 152°26' from front.	21° 28.8' N 109° 05.2' E	F.R.	75 23	3	Black framework tower, black triangular daymark point down; 69.	
20092 <i>P 3320</i>	Guantou Ling.	21° 27.2' N 109° 03.1' E	Fl.W. period 3s	423 129	18	White four-sided tower; 23.	
QINZHOU WAN:							
20093.5 <i>P 3319.78</i>	-Damiaodum.	21° 35.5' N 108° 44.5' E	Fl.W. period 4s	128 39	18	White concrete tower; 69.	Small craft channel on E. side of bay marked by light beacons.
	-RACON		Q(- - • -)				(3cm).
20093.55 <i>P 3316.82</i>	-Tiaoduo Shi.	21° 33.8' N 108° 29.1' E	Fl.(2)W. period 6s fl. 0.4s, ec. 1s fl. 0.4s, ec. 4.2s	21 6	6	White round stone pile; 33.	Fishing light.
20093.56 <i>P 3316.8</i>	-Shabadun.	21° 34.1' N 108° 29.0' E	Fl.W. period 4s fl. 0.6s, ec. 3.4s	30 9	6	White round stone pile.	Fishing light.
20093.6 <i>P 3319.3</i>	-Emei Yue Shi.	21° 39.6' N 108° 34.2' E	Fl.(2)W. period 6s fl. 0.4s, ec. 1s fl. 0.4s, ec. 4.2s	19 6	4	White round stone tower; 30.	
20093.65 <i>P 3319.4</i>	-Xihaijiang Jiao.	21° 40.8' N 108° 35.6' E	Fl.G. period 4s	20 6	5	White four-sided stone tower, green triangular daymark point up; 20.	
20093.66 <i>P 3319.5</i>	-Qingcaitou Dao.	21° 41.7' N 108° 36.0' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	82 25	8	White concrete column; 46.	
20093.7 <i>P 3319.5</i>	-Qinzhou Gang.	21° 42.5' N 108° 34.9' E	Fl.R. period 4s	20 6	3	White four-sided concrete pile, red square daymark; 26.	
20093.8 <i>P 3319</i>	-Shatou Shi.	21° 41.2' N 108° 36.9' E	Fl.(2)G. period 6s	13 4	3	Green four-sided concrete column.	
20095 <i>P 3316.1</i>	Bailong Wei.	21° 30.1' N 108° 13.1' E	Fl.W. period 4s	295 90	18	White concrete tower; 69.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
20096 <i>P 3326</i>	Weizhou Dao.	21° 00.8' N 109° 05.8' E	Fl.W. period 10s fl. 1s, ec. 9s	318 97	18	White concrete tower; 72.	
	RACON		K(- • -)				(3cm).
20100 <i>P 3327</i>	-Xieyang Dao.	20° 54.3' N 109° 12.4' E	Fl.W. period 4s	50 15	5	White wooden tripod; 20.	
20103 <i>P 3327.4</i>	Shuiwei Cun.	20° 23.7' N 109° 52.0' E	Q.R.	13 4	4	Red metal post; 16.	
20104 <i>P 3328</i>	-Jiaowei Jiao.	20° 13.4' N 109° 55.2' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	111 34	18	Concrete tower; 105.	
	-RACON		B(- • • •)				(3cm).
20105 <i>P 3328.5</i>	Qionghaidian.	20° 15.3' N 109° 56.9' E	Mo.(C)W.R.G. period 12s	43 13	8	White metal pole, red bands, white triangular daymark point up; 43.	
20106 <i>P 3332</i>	Toudun.	20° 13.9' N 110° 06.7' E	Fl.R. period 5s fl. 1s, ec. 4s	128 39	15	White concrete column, black band; 115.	
20106.01 <i>P 3358.45</i>	Xiatangun.	20° 19.4' N 110° 25.7' E	Fl.R. period 5s	20 6	4	Red metal post; 16.	
20106.02 <i>P 3358.44</i>	-E. reef.	20° 19.7' N 110° 26.2' E	Fl.W. period 5s	16 5	4	White metal post, red bands; 13.	
20106.03 <i>P 3335.72</i>	Boshegang, N.	20° 18.0' N 110° 21.8' E	Fl.R. period 4s	13 4	4	Red metal post; 16.	
20106.04 <i>P 3335.71</i>	-S.	20° 18.0' N 110° 21.8' E	Fl.G. period 4s	16 5	4	Green metal post; 16.	
20107 <i>P 3333</i>	Santang.	20° 14.4' N 110° 10.7' E	Fl.(2)W. period 6s	75 23	5	White brick tower; 66.	
20108 <i>P 3336</i>	-Hongkan.	20° 18.5' N 110° 23.9' E	Fl.W. period 8s	220 67	21	White round concrete tower; 121.	
20110 <i>P 3358.5</i>	-Luodou Sha.	20° 21.9' N 110° 34.8' E	Fl.W. period 4s	138 42	20	White round concrete tower; 138.	
	-RACON		K(- • -)				(3cm).
20112 <i>P 3358</i>	-Shangouhou (Peterson Pt.).	20° 25.7' N 110° 31.0' E	Fl.(2)W. period 6s	65 20	15	White round brick tower; 20.	
20116 <i>P 3334</i>	-Paiwei Jiao.	20° 14.7' N 110° 16.9' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	77 23	12	Round masonry pile; 26.	
20117 <i>P 3335.39</i>	--Bifengtang.	20° 14.6' N 110° 16.9' E	Fl.R. period 5s	16 5	4	Red metal post; 13.	
20120 <i>P 3348.4</i>	-Tonggu Zui.	19° 38.4' N 111° 02.2' E	Fl.(2)W. period 8s fl. 0.3s, ec. 7.7s	459 140	18	Hexagonal round concrete tower; 33.	
	-RACON		K(- • -)				(3cm).
20121 <i>P 3357.78</i>	Xinliao Dao, Xialiaozi.	20° 37.2' N 110° 29.1' E	Q.W.	36 11	4	Red post; 26.	
20121.1 <i>P 3357.88</i>	Chelu Men.	20° 29.1' N 110° 31.7' E	Q.W.	46 14	4	White metal post; 36.	
20121.2 <i>P 3357.96</i>	Dengzhai.	20° 27.0' N 110° 31.3' E	Q.W.	36 11	4	White metal post; 23.	
20121.3 <i>P 3357.82</i>	Baimaotang.	20° 33.7' N 110° 29.4' E	Q.W.	56 17	8	White metal post; 39.	
20121.4 <i>P 3357.85</i>	Xiagang.	20° 30.4' N 110° 31.0' E	Q.W.	46 14	4	Red post; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
20121.5 <i>P 3357.75</i>	Xinliao Dao, Houhai.	20° 38.5' N 110° 28.0' E	Q.W.	98 30	8	White metal post; 52.	
20121.6 <i>P 3357.9</i>	Da Pai.	20° 29.5' N 110° 32.6' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	52 16	8	White brick tower; 52.	
20121.7 <i>P 3358.1</i>	Shanhaicun.	20° 25.6' N 110° 30.8' E	Fl.R. period 3s	26 8	4	Red metal post; 19.	
20121.8 <i>P 3335.65</i>	Haizaicun Bifengtang.	20° 17.0' N 110° 20.6' E	Fl.W. period 5s	16 5	4	Red metal post; 13.	
20122 <i>P 3348.35</i>	Beishi Dao.	19° 58.9' N 111° 16.2' E	Iso.W. period 2s	591 180	15	White hexagonal concrete tower, red bands; 23.	
	RACON		X(- • • -)				(3cm).
20124 <i>P 3348.1</i>	Mulan Tou.	20° 09.6' N 110° 41.0' E	Fl.(2)W. period 15s	289 88	25	White round concrete tower; 236.	Reserve light range 20M. AIS.
20128 <i>P 3348.3</i>	Baohu Jiao.	20° 00.1' N 110° 56.0' E	Fl.W. period 6s fl. 1s, ec. 5s	177 54	18	White concrete tower; 85.	
	RACON		C(- • - •)				(3cm).
20128.1 <i>P 3348.23</i>	Wulong Gang.	20° 00.4' N 110° 48.0' E	Iso.W. period 4s	39 12	8	White 4-sided metal framework tower, red bands; 30.	
20130.5 <i>P 3348</i>	Hainan Wan.	20° 06.5' N 110° 38.8' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	59 18	6	White four-sided column; 33.	
20131 <i>P 3347.95</i>	Baisha Men.	20° 04.3' N 110° 18.8' E	Fl.W. period 6s fl. 1s, ec. 5s	256 78	18	White three-sided concrete tower; 236.	
	RACON		K(- • -)				(3cm).
20132 <i>P 3346</i>	Xiuying.	20° 01.2' N 110° 16.1' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2.8s fl. 0.5s, ec. 6.2s	131 40	15	White round metal tower, white building; 79.	
20136 <i>P 3347</i>	-Haikou Wan Range, front.	20° 01.4' N 110° 16.4' E	Fr.R.	125 38	10	White concrete column, black stripe, triangular daymark point up; 102.	
20140 <i>P 3347.1</i>	--Rear, 672 meters, 163°08' from front.	20° 01.0' N 110° 16.6' E	Fr.R.	157 48	10	White concrete column, black stripe, triangular daymark point down; 95.	
20144 <i>P 3347.3</i>	-Breakwater, W. head.	20° 01.7' N 110° 16.5' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	36 11	9	Round concrete column; 46.	
20144.1 <i>P 3347.4</i>	Xiuying Haikou Gang.	20° 02.3' N 110° 16.4' E	Iso.R. period 4s	46 14	10	Red metal pile.	
20145 <i>P 3343.3</i>	Nangang.	20° 00.2' N 110° 07.8' E	L.Fl.R. period 5s fl. 2s, ec. 3s	128 39	15	White concrete tower, black stripe.	
20146 <i>P 3342.73</i>	Yubao Jiao.	19° 59.5' N 109° 56.5' E	Fl.(3)W. period 15s	243 74	18	White three-sided concrete tower, red bands; 177.	
	RACON		C(- • - •)				(3cm).
20147 <i>P 3342.74</i>	Chengmai Wan, W. shore.	19° 59.3' N 109° 56.8' E	Mo.(C)W.R.G. period 12s	112 34	8	White metal pole, red bands, white triangular daymark point up; 59.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
HAI NAN TAO:							
20148 <i>P 3342</i>	-Lingao.	20° 00.6' N 109° 42.7' E	Fl.(3+1)W. period 27s fl. 1s, ec. 3.5s fl. 1s, ec. 3.5s fl. 1s, ec. 7.5s fl. 2s, ec. 7.5s	65 20	15	White metal framework tower, red bands; 69.	The lighthouse should be passed at a distance of not less than 2 miles.
	-RACON		K(- • -)				(3cm).
HAINAN DAO:							
20151 <i>P 3341</i>	-Lingao Wind Tower.	20° 08.9' N 109° 29.3' E	Mo.(C)Y. period 12s	56 17	8	Three-sided metal framework tower.	
20152 <i>P 3339</i>	-Bingma Jiao.	19° 53.5' N 109° 15.7' E	Fl.W. period 6s	233 71	22	White hexagonal concrete tower, red stripes; 135.	Reserve light range 15M.
	-RACON		O(- - -)				(3cm).
20153 <i>P 3338.9</i>	-Shenjian Oil Pier.	19° 47.7' N 109° 08.4' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	98 30	10	Silver and white metal framework tower.	Fog signal.
	-RACON		C(- • - •)				(3cm).
20156 <i>P 3338.4</i>	-Guanyin Jiao.	19° 34.7' N 109° 00.5' E	Fl.(3)W. period 9s	197 60	18	White square stone tower; 82.	
	-RACON		X(- • • -)				(3cm).
20157 <i>P 3338.34</i>	-Haitou.	19° 31.3' N 108° 56.5' E	Fl.(2)W. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	30 9	4	White concrete tower; 36.	
20160 <i>P 3338.2</i>	-Junbi Jiao.	19° 21.9' N 108° 41.1' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s	315 96	20	White hexagonal concrete tower; 26.	
	-RACON		K(- • -)				(3cm).
20162 <i>P 3337.89</i>	-Sigeng Sha Lt Ho.	19° 11.7' N 108° 36.3' E	Fl.(2)W. period 6s	102 31	15	White concrete tower; 112.	
20163 <i>P 3337.85</i>	-Dongfang Wind Tower.	19° 11.1' N 108° 32.3' E	Mo.(C)Y. period 12s	52 16	8	Three-sided metal framework tower.	
20164 <i>P 3337</i>	-Yulin Jiao.	19° 06.0' N 108° 36.8' E	Fl.(2)W. period 6s fl. 0.3s, ec. 0.9s fl. 0.3s, ec. 4.5s	203 62	18	Blue concrete column; 62.	
	-RACON		C(- • - •)				(3cm).
20168 <i>P 3337.6</i>	-Basuo Gang Range, front.	19° 06.4' N 108° 37.9' E	F.R.	69 21	6	White square concrete column, black stripe, triangular daymark point up; 56.	Reserve light Fl.R. 3s.
20172 <i>P 3337.61</i>	--Rear, 260 meters 089°03' from front.	19° 06.4' N 108° 38.1' E	F.R.	85 26	6	White square concrete column, black stripe, triangular daymark point down; 72.	
20176 <i>P 3337.1</i>	-N. breakwater, head.	19° 06.4' N 108° 37.2' E	Fl.R. period 3s fl. 1s, ec. 2s	30 9	8	Red round concrete pile; 30.	
20180 <i>P 3337.3</i>	-W. breakwater, head.	19° 06.3' N 108° 37.2' E	Fl.G. period 3s fl. 1s, ec. 2s	31 9	8	Green round concrete pile; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
20184 P 3357.5	-Ganen Jiao.	18° 50.5' N 108° 38.2' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	154 47	18	Round concrete tower, red and white checkered bands; 138.	
	-RACON		Y(- • - -)				(3cm).
20188 P 3357	-Yingge Zui.	18° 30.4' N 108° 41.3' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	131 40	22	White round concrete tower; 89.	AIS (MMSI No 004133806).
	-RACON		O(- - -)				(3cm).
20192 P 3356	-Xigu Dao.	18° 19.4' N 108° 57.2' E	Fl.W. period 6s fl. 0.3s, ec. 5.7s	292 89	18	White round masonry tower; 49.	
	-RACON		K(• - •)				(3cm).
20193 P 9584	-South Hainan Dao Gas Platform.	17° 30.7' N 109° 01.4' E	Mo.(U)R. period 15s		10		Horn.
			F.R.				
20194 P 3350	-Ximao Zhou.	18° 13.8' N 109° 22.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	450 137	18	White concrete pile; 46.	AIS (MMSI No 004133903).
20194.5 P 3350.2	-Matou.	18° 14.5' N 109° 22.4' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 12	10	White metal column, red bands; 36.	
20194.6 P 3350.4	-Yazhou Wan.	18° 18.1' N 109° 08.9' E	Fl.(2)W. period 6s	115 35	15	White concrete column; 112.	
20194.7 P 3352	-Sanya Jiao.	18° 12.5' N 109° 28.3' E	Fl.(3)W. period 9s	52 16	10		
20195 P 3350.5	-Baipai.	18° 14.3' N 109° 28.9' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	52 16	10	White round concrete structure; 36.	
20195.5 P 3351	-San Ya Range, front.	18° 14.3' N 109° 29.9' E	F.R.	85 26	6	Octagonal concrete tower, black stripe, red triangular daymark point up; 59.	
20195.51 P 3351.1	--Rear, 290 meters 071°30' from front.	18° 14.3' N 109° 30.0' E	F.R.	108 33	6	White metal tower, red triangular daymark point down; 95.	
20196 P 3349	-Jinmu Jiao.	18° 09.6' N 109° 34.4' E	Fl.W. period 10s	236 72	22	White round concrete tower; 59.	Reserve light range 15M.
	-RACON		O(- - -)				(3cm).
20198 P 3348.93	-Dongzhou Dao.	18° 11.1' N 109° 41.8' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	404 123	18	White concrete column; 43.	
20199 P 3348.92	-Houhai.	18° 16.7' N 109° 43.5' E	Iso.R. period 2s	39 12	10	Red metal column; 36.	
20200 P 3348.8	-Linshui Jiao.	18° 23.3' N 110° 02.9' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	492 150	18	White octagonal concrete tower; 33.	
	-RACON		K(- • -)				(3cm).
20203 P 3348.65	-Niuling.	18° 35.3' N 110° 10.7' E	Iso.R. period 2s	33 10	10	Red metal column; 30.	
20204 P 3348.6	-Dazhou Dao.	18° 39.7' N 110° 29.0' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	574 175	15	White round concrete tower; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
20208 P 3348.5	-Bai'an Dao.	18° 48.6' N 110° 34.2' E	Fl.(2)W. period 15s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 9.7s	265 81	18	White four-sided concrete tower, red stripes; 39.	
	-RACON		K(- • -)				(3cm).
20212 P 3348.46	-Boao.	19° 10.1' N 110° 35.2' E	Fl.(3)W. period 24s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 15.7s	266 81	22	White concrete column; 246.	
	-RACON		Y(- • - -)				(3cm).
20212.5 P 3348.44	-Fengjia Wan.	19° 24.4' N 110° 44.1' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	36 11	10	White metal column; 30.	
20212.6 P 3348.43	-Qinglan Gang Kou.	19° 31.9' N 110° 50.7' E	Fl.(2)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	85 26	15	White round stone tower; 62.	
20213 P 3316.3	Sanya Shi.	21° 30.8' N 108° 20.2' E	Fl.(2)W. period 5s	36 11	8	ISOLATED DANGER BRB, column, topmark; 43.	

Section 12

Vietnam, Gulf of Thailand and South China Sea

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
VIETNAM							
20213.5	Dao Tran.	21° 14.2' N 107° 57.5' E	Fl.(4)W. period 15s	659 201	28	Yellow square tower, dwelling; 59.	
20213.8 <i>F 3314.8</i>	Dao Co To.	21° 00.0' N 107° 45.4' E	Fl.(2+1)W. period 12s	381 116	15	Yellow quadrangular concrete tower, building; 52.	
20214 <i>F 3306</i>	Le Cancrelat.	20° 49.5' N 107° 17.7' E	F.W.		20	White tower, red lantern; 16.	
PASSE DE LA PEROUSSE:							
20214.1 <i>F 3307</i>	-Islet.	20° 52.4' N 107° 17.3' E	lt.				
20214.2 <i>F 3309</i>	-Ile Rousse.	20° 56.2' N 107° 18.6' E	lt.				
20214.3 <i>F 3310</i>	-L'Abille.	20° 57.9' N 107° 20.8' E	Fl.W. period 4s				
20214.4 <i>F 3312</i>	-Cap Pha Entrance Range, front.	21° 00.3' N 107° 22.5' E	F.W.	26 8	8	White square tower, black bands; 39	Visible 025°-045°. Occasional.
20214.5 <i>F 3312.1</i>	--Rear, 816 meters 035° from front.	21° 00.6' N 107° 22.8' E	F.W.	39 12	12	White square tower, black bands; 52	Visible 025°-045°. Occasional.
20214.6 <i>F 3313</i>	-Range, front.	21° 01.4' N 107° 22.6' E	FR.	26 8	3	White square tower, black bands; 49.	Visible 008°-028°. Occasional.
20214.7 <i>F 3313.1</i>	--Rear, 650 meters 018° from front.	21° 01.7' N 107° 22.8' E	FR.	39 12	14	White square tower, black bands.	Visible 008°-028°. Occasional.
20214.8 <i>F 3314</i>	-Range, front.	21° 02.0' N 107° 22.4' E	FG.	42 13	3	White square tower, black bands; 62.	Occasional.
20214.9 <i>F 3314.1</i>	--Rear, 50 meters 357°30' from front.	21° 02.0' N 107° 22.4' E	FG.	56 17	5	White wall; 7.	Occasional.
20215 <i>P 3316</i>	Baisu Yan.	21° 23.3' N 108° 12.4' E	Fl.W. period 4s	75 23	18	White concrete column; 62.	
	RACON		B(- • • •)				(3cm).
20215.5 <i>F 3306.5</i>	Dao Ha Mai.	20° 43.1' N 107° 27.2' E	Fl.(3)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	594 181	12	Yellow quadrangular house; 36.	
20216 <i>F 3232</i>	Xuy Nong Chao.	20° 37.3' N 107° 09.6' E	Fl.(3)W. period 20s	361 110	27	Gray tower, dwelling; 98.	
	RACON		C(- • - •)				(3 & 10cm).
20216.5 <i>F 3315</i>	Dao Vinh Thu'c.	21° 23.8' N 107° 59.5' E	Fl.W. period 5s	279 85	21	White concrete tower; 59.	
CHENAL DE L'HAMELIN:							
20224 <i>F 3296</i>	-Ile de l'Index, E. side.	20° 52.3' N 107° 07.1' E	Fl.R. period 2s			White pile beacon, red band.	
CUA NAM TRIEU:							
20244	-Entrance Buoy O.	20° 42.0' N 106° 56.0' E	Fl.W. period 6s			Red buoy.	Pilot station.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
VIETNAM							
DINH VU CUT:							
20265 F 3268	-E. entrance, N. side.	20° 50.9' N 106° 45.8' E	Fl.W. period 3s			White column, black base.	
20265.1 F 3267	--S. side.	20° 50.8' N 106° 45.8' E	Fl.R. period 3s			Red beacon.	
20265.5 F 3269	-W. entrance, N. side.	20° 51.2' N 106° 45.1' E	Fl.W. period 3s			White beacon, platform, piles.	Channel marked by S. Cardinal marks.
20266 F 3282	Song Cua Cam.	20° 52.7' N 106° 42.3' E	Fl.G. period 3s			Green beacon, green triangular daymark point up.	
20268 F 3236	Hon Dau.	20° 40.0' N 106° 49.0' E	Fl.(2)W. period 15s	207 63	22	Blue and gray octagonal tower, white and yellow building; 75.	
20270 F 3235	Diem Dien.	20° 33.6' N 106° 34.3' E	Fl.W. period 5s		85 26	White and gray round concrete tower; 72.	
20272 F 3234	Cua Ba Lat.	20° 20.5' N 106° 38.5' E	Fl.W. period 4s		12		
20272.5 F 3233	Ba Lat.	20° 15.4' N 106° 35.8' E	Fl.(3+1)W. period 20s fl. 0.1s, ec. 3.2s fl. 0.1s, ec. 3.2s fl. 0.2s, ec. 6.5s fl. 0.2s, ec. 6.5s	121 37	18	Gray tower, yellow dwelling; 112.	Radiobeacon about 3 miles NNW.
	RACON		M(- -)		13		
20272.8 F 3229	Quat Lam.	20° 11.1' N 106° 21.5' E	Fl.W. period 4s		85 26	Red octagonal concrete tower, orange bands, yellow building; 72.	
20272.9 F 3228	Lach Giang.	20° 00.2' N 106° 10.9' E	Fl.(2+1)W. period 10s	69 21	14	White round concrete tower with red bands; 56.	
20273 F 3230	Dao Bach Long Vi.	20° 08.0' N 107° 43.4' E	Fl.(2)W. period 10s	262 80	26	Gray octagonal tower, yellow dwelling; 75.	Horn: Mo.(U) ev. 12s.
	RACON		G(- - •) period 60s				(3 & 10cm).
20274 F 3225	Hon Me.	19° 21.8' N 105° 56.0' E	Fl.(2+1)W. period 15s	505 154	21	Gray concrete tower; 59.	
20275 F 3224	Dao Bien Son.	19° 20.5' N 105° 49.4' E	Fl.W. period 5s		105 32	Black metal framework tower, yellow building; 36.	
20276 F 3220	Vinh River.	18° 45.9' N 105° 45.3' E	Fl.(3)W. period 15s		82 25	White tower; 82.	
20276.1 F 3219.5	Hon Matt.	18° 47.6' N 105° 57.8' E	Fl.(2+1)W. period 10s	663 202	12	Yellow round concrete tower; 39.	Visible 179°-171°.
20276.2 F 3219.3	Mui Lo.	18° 28.2' N 105° 56.3' E	Fl.(2)W. period 6s	295 90	16	Yellow square concrete tower, building; 43.	
20276.3 F 3219.2	Cua Nhuong.	18° 15.8' N 106° 07.5' E	Fl.W. period 6s		115 35	White round concrete tower, red bands; 49.	
20276.5 F 3218.5	Cua Giang.	17° 42.1' N 106° 29.3' E	Fl.W. period 16s		66 20	Gray round concrete tower; 66.	
20276.8 F 3218.25	Hon Gio.	17° 10.0' N 107° 20.5' E	Fl.(3)W. period 15s	249 76	22	Yellow round concrete tower, building; 79.	
20276.9 F 3218.2	Mui Lai.	17° 05.0' N 107° 06.8' E	Fl.(2)W. period 10s	121 37	18	Gray quadrangular tower, building; 39.	Visible 130°-340°.
20276.92 F 3218	Cua Tung.	17° 01.3' N 107° 06.7' E	Fl.(3+1)W. period 20s	144 44	12	White round concrete tower, black bands; 89.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
VIETNAM							
20277 <i>F 3216</i>	Cua Viet.	16° 53.9' N 107° 12.0' E	Fl.(2)W. period 6s	72 22	13	Gray tower, yellow dwelling; 72.	
20278 <i>F 3213</i>	Thai Duong Thuong.	16° 34.4' N 107° 37.0' E	Fl.(3)W. period 10s	121 37	12	Gray metal framework tower; 112.	
20279 <i>F 3212</i>	Mui Chon May Dong.	16° 20.3' N 108° 01.0' E	Fl.W. period 5s fl. 1s, ec. 4s	177 54	12	Red and white tower, yellow building; 46.	
20279.5 <i>F 3211.5</i>	Hon Son Cha.	16° 13.0' N 108° 12.3' E	Fl.(2+1)W. period 6s	781 238	12	Blue tower; 52.	
SOUTH CHINA SEA							
PARACEL ISLANDS:							
20280 <i>P 3197.5</i>	-Woody Island.	16° 50.0' N 112° 19.9' E	Fl.(3)W. period 9s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 6.1s	66 20	13	White round structure; 6.	Occasional.
20284 <i>P 3199.5</i>	-Bombay Reef.	16° 01.6' N 112° 26.7' E	Fl.W. period 4s	79 24	15	White round concrete tower; 72.	
20288 <i>P 3196</i>	-North Reef.	17° 03.9' N 111° 28.1' E	Fl.(2)W. period 6s	75 23	15	White round concrete tower; 72.	
NORTH DANGER REEF:							
20289 <i>F 2825</i>	-Northeast Cay.	11° 27.3' N 114° 20.9' E	Fl.(2)R. period 10s	23 7	5		
20289.2 <i>F 2824.5</i>	-Southwest Cay.	11° 25.9' N 114° 19.4' E	Fl.W. period 15s	118 36	21	Gray round masonry tower; 125.	
20289.6 <i>F 2824</i>	Thitu (Pagasa) Island.	11° 03.3' N 114° 17.0' E	Fl.W. period 5s			Metal structure.	
20289.62 <i>F 2825.02</i>	Subi Reef.	10° 56.0' N 114° 06.1' E	Fl.W. period 5s	180 55	22	Lighthouse; 164.	
20289.64 <i>F 2823.5</i>	Itu Aba Island.	10° 22.5' N 114° 21.8' E	Fl.(3)W. period 10s	43 13	10	Mast.	
20289.68 <i>F 2823.4</i>	Namyit Island.	10° 11.0' N 114° 21.7' E	Fl.(3)W. period 15s	82 25	15	Gray round tower, red bands, square yellow building; 75.	
RACON							
20289.7 <i>F 2823.2</i>	Sin Cowe Island.	9° 52.4' N 114° 19.2' E	Fl.(2+1)R. period 15s	82 25	20	Yellow square tower, balcony, red and yellow square building; 75.	(3 & 10cm).
RACON							
20289.8 <i>F 2825.17</i>	Yongshu Jiao Reef.	9° 33.3' N 112° 54.1' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	95 29	20	White octagonal concrete tower; 105.	(3 & 10cm).
SPRATLEY ISLANDS:							
20290 <i>F 2825.1</i>	-Ladd Reef.	8° 40.0' N 111° 39.8' E	Fl.W. period 5s	131 40	15	White metal framework tower, red bands, black piles; 138.	
20290.1 <i>F 2825.15</i>	-West Reef.	8° 50.7' N 112° 11.7' E	Fl.(3)W. period 10s	72 22	15	Grey round masonry tower, building; 66.	
20290.11 <i>F 2825.16</i>	-Cuarteron Reef.	8° 52.1' N 112° 49.9' E	Fl.W. period 10s	180 55	22	White concrete tower; 164.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH CHINA SEA							
20290.12 <i>F 2823.21</i>	-Johnson Reef, S.	9° 42.9' N 114° 17.2' E	Fl.W. period 8s	180 55	22	Red and white concrete column;	164.
20290.2 <i>F 2825.197</i>	Prince of Wales Bank.	8° 09.4' N 110° 35.7' E	Fl.W. period 5s	75 23	12	White framework tower, red band.	
20290.4 <i>F 2825.196</i>	Alexandra Bank.	8° 01.9' N 110° 37.0' E	Fl.(2+1)W. period 10s	75 23	12	White framework tower, red band.	
20290.6 <i>F 2825.19</i>	Rifleman Bank.	7° 52.2' N 111° 44.5' E	Fl.(3+1)W. period 12s	72 22	12	Red and white tower, cabin platform, piles; 72.	
20290.8 <i>F 2825.18</i>	Amboyna Cay.	7° 53.5' N 112° 55.3' E	Fl.(2)W. period 10s	72 22	15	Grey round masonry tower, building; 82.	
	RACON		A(• -)				
20291 <i>F 2825.195</i>	Prince Consort Bank.	7° 48.8' N 109° 56.9' E	Fl.(2)W. period 8s	72 22	12	Platform.	
20291.2 <i>F 2825.194</i>	Grainger Bank.	7° 48.8' N 110° 28.4' E	Fl.(3)W. period 10s	75 23	12	White framework tower, red band.	
20291.3 <i>F 9534</i>	Lan Tay.	7° 34.4' N 108° 52.0' E	Mo.(U)W. period 15s			Platform.	
	RACON		T(-)				(10cm).
VANGUARD BANK:							
20291.4 <i>F 2825.192</i>	-Tu-Chin A.	7° 33.0' N 109° 42.0' E	Fl.(2)W. period 13s	72 22	12	Cabin platform, piles.	
20291.6 <i>F 2825.193</i>	-Tu-Chin B.	7° 33.2' N 109° 48.0' E	Fl.(3)W. period 8s	72 22	12	Cabin platform, piles.	
VIETNAM							
VUNG DA NANG:							
20292 <i>F 3204</i>	-Mui Da Nang.	16° 08.4' N 108° 19.3' E	Fl.(2)W. period 10s	518 158	23	White round concrete tower, yellow band; 30.	Visible 119°-325°.
20296 <i>F 3206</i>	-Da Nang, N. Fort Point.	16° 07.3' N 108° 12.8' E	Fl.W. period 3s	138 42	5	Tower; 16.	
20312 <i>F 3209</i>	-Beacon No 1.	16° 06.5' N 108° 13.2' E	Fl.W. period 3s		7	Green pile beacon, white bands.	Fl.G. 3s on S. head.
20316 <i>F 3211</i>	-Breakwater, head.	16° 05.6' N 108° 13.4' E	Fl.R. period 3s			Red pile beacon.	
20316.5 <i>F 3203</i>	Cua Dai.	15° 52.6' N 108° 23.4' E	Fl.(3+1)W. period 15s	82 25	12	White metal framework tower, black bands; 75.	
20317 <i>F 3202</i>	Vung An Hoa.	15° 28.9' N 108° 41.3' E	Fl.(2+1)W. period 12s	82 25	15	White round concrete tower, red bands, building; 62.	
20318 <i>F 3203.2</i>	Cu Lao Cham.	15° 57.4' N 108° 32.2' E	Fl.(3+1)W. period 16s	420 128	20	Yellow square tower, yellow building; 39.	Visible 124°-357°.
20318.1 <i>F 3203.3</i>	-Tian Hep.	15° 57.5' N 108° 30.2' E	Fl.W. period 5s	138 42	12	White metal framework tower;	Visible 335°-077°.
20319 <i>F 3200</i>	Mui Vian Ka.	15° 25.5' N 108° 47.9' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	108 33	12	White round concrete tower, red bands, yellow building; 46.	

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VIETNAM							
20320 <i>F 3184</i>	Cu Lao Re.	15° 23.2' N 109° 08.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	164 50	15	Gray round concrete tower; 148.	Visible 107°-057°.
20320.2 <i>F 3184.2</i>	-Reef.	15° 22.1' N 109° 09.0' E	Fl.(3+1)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 6.5s	36 11	12	White round concrete tower, red bands; 33.	
20321 <i>F 3181</i>	Mui Ba Lang An.	15° 14.5' N 108° 56.0' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	118 36	12	Beacon, yellow building; 26.	
20321.2 <i>F 3180</i>	An Ky.	15° 12.4' N 108° 55.1' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	49 15	12	White round concrete tower, red bands; 43.	
20323 <i>F 3178</i>	Cap Sa Hoi.	14° 40.4' N 109° 04.5' E	Fl.(2)W. period 10s	285 87	20	Beacon, yellow house; 33.	
20324 <i>F 3176</i>	Vung Moi.	14° 15.0' N 109° 11.5' E	Iso.W. period 7s	167 51	11	White house; 18.	Visible 162°-338°.
QUI NHON HARBOR:							
20332 <i>F 3162</i>	-Presqu'île de Phuoc Moi, S. point.	13° 45.7' N 109° 15.1' E	Fl.(2+1)W. period 15s	170 52	18	White round concrete tower; 59.	
20364 <i>F 3158</i>	Phuoc Chau (Ganbir).	13° 36.9' N 109° 21.6' E	Fl.(3+1)W. period 12s	387 118	27	White concrete tower, black band, two galleries; 52.	
20368 <i>F 3154</i>	Cap Varella.	12° 53.8' N 109° 27.4' E	Fl.(3)W. period 15s	361 110	16	Gray masonry tower, yellow top; 85.	
20372 <i>F 3148</i>	Hon Tre (Mui Rachtrang).	12° 11.7' N 109° 20.1' E	Fl.(3)W. period 10s	335 102	26	White round concrete tower, black bands; 52.	Difficult to distinguish during day due to white two-story building in proximity.
20376 <i>F 3150</i>	Mui Chut, S. of Baie de Nha Trang.	12° 12.6' N 109° 13.0' E	Fl.(2)W. period 7s	138 42	9	Tower, pink house; 49.	
VINH CAM RANH:							
20384 <i>F 3134</i>	-Hon Chut, NE. end.	11° 47.0' N 109° 13.3' E	Fl.W. period 5s	190 58	16	White masonry tower, yellow building; 52.	
20386 <i>F 3139</i>	-Range, common front.	11° 55.4' N 109° 11.4' E	Oc.W.				
20386.1 <i>F 3138.9</i>	--Rear, 300 meters 015° from front.	11° 55.6' N 109° 11.4' E	Q.R.				
20386.2 <i>F 3139.1</i>	--Rear, 200 meters 260° from front.	11° 55.4' N 109° 11.3' E	Q.G.				
20388 <i>F 3138</i>	-Pointe Bai Sau.	11° 54.6' N 109° 12.3' E	Fl.R. period 4s	28 9	4	White conical tower, black bands; 25.	
20392 <i>F 3137</i>	-Ammo Channel No 1.	11° 54.6' N 109° 11.2' E	Fl.W. period 2.5s	15 5	4		
20396 <i>F 3137.2</i>	--No 2.	11° 54.9' N 109° 11.2' E	Fl.R. period 4s	15 5	2		
20397 <i>F 3137.4</i>	--No 3.	11° 55.2' N 109° 11.4' E	Fl.G. period 4s	15 5	3		
20400 <i>F 3137.8</i>	--No 8.	11° 55.5' N 109° 11.9' E	Fl.R. period 4s	15 5	2		
20404 <i>F 3122</i>	Mui Dinh.	11° 21.6' N 109° 00.9' E	Fl.(2+1)W. period 20s	610 186	26	Four-sided granite tower, white top; 52.	

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VIETNAM							
20406 <i>F 3120</i>	Dao Phu Qui.	10° 32.3' N 108° 56.0' E	Fl.(2)W. period 15s	407 124	32	Gray tower, yellow building; 66.	
	RACON		O(---)				
20408 <i>F 3118</i>	Phan Thiet.	10° 55.1' N 108° 06.6' E	F.G.	65 20	6	Metal framework tower; 23.	Visible 055°-235°.
20412 <i>F 3116</i>	Mui Ke Ga.	10° 41.6' N 107° 59.4' E	Fl.(3+1)W. period 20s	72 22	18	Hexagonal granite tower; 69.	
20416 <i>F 3066</i>	Mui Vung Tau.	10° 20.0' N 107° 04.7' E	Fl.(2)W. period 12s	633 193	23	White masonry tower; 59.	
	RACON		B(-•••)				
20428 <i>F 3070</i>	-Mui do Cao Trang.	10° 21.4' N 107° 03.6' E	Fl.(3)G. period 10s	66 20	6	White square tower, black bands, green top; 56.	Visible 010°-175°.
20432 <i>F 3076</i>	-Pointe Ganh Rai.	10° 22.9' N 107° 03.4' E	Fl.(2)G. period 7s		6	White beacon, black bands.	
20436 <i>F 3078</i>	-Vung Tau Range, front.	10° 23.7' N 107° 05.3' E	Q.W.			White beacon, red stripes.	
20440 <i>F 3078.1</i>	--Rear, about 997 meters 096° from front.	10° 23.6' N 107° 05.7' E	Q.W.			White beacon, red stripes.	
20444 <i>F 3082</i>	-Can Gio.	10° 24.1' N 107° 00.8' E	Fl.W. period 5s	72 22	12	White tower, octagonal hut, red roof, piles; 72.	
20446 <i>F 3083</i>	-Song Nga.	10° 27.2' N 106° 56.0' E	Fl.W.R.G.			White framework beacon.	
20448 <i>F 3084</i>	-Ba Yen (Rach Cai Gau) Range, front.	10° 28.7' N 106° 56.2' E	Fl.(2)W. period 6s		5	White beacon.	
20452 <i>F 3084.1</i>	--Rear, 75 meters 332°42' from front.	10° 28.8' N 106° 56.1' E	Fl.(2)W. period 6s		7	White beacon.	
20452.5	-Beacon 15.	10° 32.3' N 106° 51.3' E	Fl.G. period 4s			White beacon, black band.	
	SONG CAU TIEU:						
20472 <i>F 3060</i>	-Cua Thieu.	10° 14.8' N 106° 47.6' E	Fl.(3+1)W. period 10s			Tower.	
	CON SON (POULO CONDORE):						
20476 <i>F 3046</i>	-Hon Bay Canh.	8° 40.0' N 106° 42.4' E	Fl.(2)W. period 10s	696 212	27	White round tower, building; 52.	Visible 150°-070°, but partially obscured by Hon Cau 230°- 240°.
20480 <i>F 3048</i>	-Vinh Con Son, front.	8° 40.8' N 106° 36.0' E	Fl.(2)W. period 6s	49 15	5	White framework beacon; 23.	F.G. shown from head of landing jetty.
20484 <i>F 3048.1</i>	--Rear, 875 meters 339° from front.	8° 41.2' N 106° 35.9' E	Fl.(2)W. period 6s	81 25	10	White framework beacon; 30.	
20486 <i>F 3049.5</i>	-Den Da Trang.	8° 39.3' N 106° 35.5' E	Fl.W. period 5s	56 17	12	White round tower, red bands, white four-sided concrete base; 33.	
20492 <i>F 3042</i>	Hon Khoai.	8° 25.8' N 104° 50.0' E	Fl.W. period 10s	984 300	27	Square granite tower, dwelling; 52.	Visible 055°-041°. Obscured arc increases on approach within 9 miles. Aeromarine light.
20493 <i>F 3040</i>	Hon Chuoi.	8° 56.9' N 104° 31.3' E	Fl.(2)W. period 7s	430 131	23	Yellow building; 36.	
20494 <i>F 3039</i>	Hon Nam Du.	9° 40.5' N 104° 21.2' E	Fl.(3)W. period 10s	640 195	25	Gray tower, yellow building; 39.	

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VIETNAM							
20494.5 <i>F 3039.5</i>	Den Tho Chu.	9° 18.1' N 103° 29.1' E	Fl.(4)W. period 15s	459 140	12	Gray tower, yellow top, building; 59.	
	RACON		N(- •)				
20496 <i>F 3021</i>	Poulo Wai.	9° 54.6' N 102° 54.5' E	Iso.W. period 4s	269 82			
20500 <i>F 3036</i>	-Entrance to Rach Giadi Long Xuyen.	10° 00.7' N 105° 04.7' E	Fl.(2)W. period 8s	56 17	10	Black pylon; 75.	
20504 <i>F 3032</i>	Ha Tien Range, front.	10° 22.6' N 104° 28.7' E	Fl.(2+1)W. period 10s		3	Black lattice beacon, red band.	
20508 <i>F 3032.1</i>	-Rear, about 504 meters 043° from front.	10° 23.0' N 104° 29.0' E	Fl.(2+1)W. period 10s		5	Black lattice beacon, red band.	
20512 <i>F 3030</i>	Mui Nai. Nui Nai.	10° 21.9' N 104° 26.7' E	Fl.(2)W. period 10s	367 112	19	Gray tower, yellow building; 52.	
20516 <i>F 3022</i>	Rach Duong Dong.	10° 13.0' N 103° 57.4' E	Fl.(3)W. period 10s	49 15	15	White round tower, green bands; 16.	
20518 <i>F 3025</i>	-An Thoi.	10° 00.9' N 104° 00.7' E	Fl.(2)W. period 6s	46 14	15	White round tower, red bands, yellow building; 46.	
20520 <i>F 3028</i>	-Ham-Ninh.	10° 10.9' N 104° 03.0' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	26 8	4	White metal framework tower, red bands; 23.	
CAMBODIA-THAILAND							
20532 <i>F 3014</i>	Kaoh Rung Samloen.	10° 32.7' N 103° 19.1' E	Fl.(2)W. period 10s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 6.2s	395 120	24	White tower, red band; 59.	Visible 210°-136°.
20536 <i>F 3015</i>	Kaoh Kaong Kang (Paletuviers).	10° 36.5' N 103° 25.9' E	Oc.(2)W. period 9s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	46 14	12	Metal framework tower; 30.	
20540 <i>F 3016</i>	-Kaoh Dek Koul.	10° 38.1' N 103° 27.4' E	Fl.G. period 6s fl. 1.5s, ec. 4.5s	79 24	8	Metal framework tower; 30.	
20544 <i>F 3017</i>	-Kampong Saom (Sihanoukville), harbor basin, S. mole.	10° 39.0' N 103° 30.2' E	Fl.G.				
20548 <i>F 3012</i>	Kaoh Kon.	11° 26.3' N 103° 00.5' E	F.W.	62 19	9	Red metal framework tower; 30.	Occasional.
20552 <i>F 3010</i>	Ko Kut.	11° 34.2' N 102° 35.3' E	Fl.W. period 10s fl. 1.5s, ec. 8.5s	679 207	10	White metal framework tower; 52.	
20556 <i>F 3008</i>	Khiong Yai.	11° 46.6' N 102° 53.2' E	Fl.(2)W. period 5s	190 58	11	White metal framework tower; 105.	
20560 <i>F 3004</i>	Laem Nam.	12° 02.8' N 102° 35.1' E	Fl.(2)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	62 19	8	White concrete tripod; 52.	
20560.5 <i>F 3005</i>	-SE. point.	12° 02.4' N 102° 35.3' E	Fl.(2)W. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	20 6	7	ISOLATED DANGER BRB, beacon, topmark.	
20564 <i>F 3006</i>	Laem Ko Pu.	12° 09.9' N 102° 34.4' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	46 14	8	White concrete tripod; 39.	
20564.5 <i>F 3006.5</i>	-Front.	12° 10.0' N 102° 34.6' E	Fl.Y. period 3s fl. 1s, ec. 2s	56 17	12	White post, white diamond daymark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CAMBODIA-THAILAND							
20564.6 <i>F 3007</i>	-Rear, 336°36' from front.	12° 10.4' N 102° 34.4' E	Iso.Y. period 4s	69 21	12	White post, white diamond daymark.	
20567 <i>F 3003</i>	Khlong Nam, front.	12° 09.8' N 102° 28.3' E	Fl.Y. period 5s fl. 0.5s, ec. 4.5s	43 13	12	White round metal pillar, concrete base, white diamond daymark.	
20567.5 <i>F 3003.5</i>	-Rear.	12° 09.9' N 102° 28.4' E	Iso.Y. period 4s	52 16	12	White metal pillar, concrete base, white diamond daymark.	
20568 <i>F 3002</i>	Laem Ngop.	12° 10.2' N 102° 23.6' E	Oc.W. period 3s lt. 2s, ec. 1s	52 16	13	White concrete tower, red bands; 46.	
20570 <i>F 3001</i>	Ko Chang, Trat.	12° 05.8' N 102° 16.6' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	299 91	10	White round concrete tower, red band; 56.	
20572 <i>F 3000</i>	Hin Khi Chang, Chang Ko Channel.	12° 09.9' N 102° 18.3' E	Fl.(3)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	46 14	10	White metal framework tower; 36.	
20576 <i>F 2998</i>	Ko Chik Nok.	12° 17.9' N 102° 14.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	59 18	10	White concrete tripod; 26.	
20580 <i>F 2996</i>	Laem Sing.	12° 28.2' N 102° 03.5' E	Fl.W. period 7s	272 83	20	White metal framework tower; 20.	
20584 <i>F 2992</i>	Mae Nam Prasae.	12° 41.9' N 101° 42.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	59 18	21	White metal framework tower; 52.	
20592 <i>F 2994</i>	Ko Man Nok.	12° 34.3' N 101° 42.1' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	154 47	10	White metal framework tower; 72.	
20595 <i>F 2990.2</i>	Ban Phe, breakwater.	12° 37.1' N 101° 26.4' E	Fl.R. period 5s fl. 1.5s, ec. 3.5s	26 8	4	White round metal pillar, concrete base.	
20595.5 <i>F 2990.3</i>	--West.	12° 37.4' N 101° 26.8' E	Fl.(2)W.R. period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 10s	26 8	4	White round metal pillar, concrete base.	
20596 <i>F 2990</i>	Ko Samet.	12° 34.7' N 101° 26.9' E	Fl.W.R.G. period 5s fl. 0.5s, ec. 4.5s	328 100	W. 10 R. 6 G. 5	White metal framework tower; 49.	W. 008°-078°, G.-083°30', W.-086°30', R.-090°, W.-099°, R.-102°30', W.-292°.
20596.5 <i>F 2990.1</i>	-Hin Khan Na.	12° 33.8' N 101° 27.9' E	Fl.(2)W. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	20 6	7	Black round metal pillar, red bands, concrete base.	
20597 <i>F 2987.6</i>	TPI Range, front.	12° 38.9' N 101° 18.4' E	Q.G.	98 30	12	Green and yellow beacon, triangular daymark point up.	
20597.1 <i>F 2987.61</i>	-Rear, 1370 meters 023° from front.	12° 39.6' N 101° 18.7' E	Iso.G. period 6s	164 50	12	Green and yellow beacon, triangular daymark point down.	
20598	<i>Map Ta Phut Approach Buoy B.</i>	12° 29.8' N 101° 12.2' E	Fl.(4)Y. period 20s			SPECIAL Y, pillar, "X" topmark.	
	RACON		B(- • • •)				
20599 <i>F 2987.5</i>	-SPM.	12° 29.1' N 101° 11.9' E	Fl.(6)W. period 15s		5		Horn: Mo.(U) ev. 30s.
20600 <i>F 2988</i>	Rayong.	12° 39.4' N 101° 16.6' E	Fl.(2)W. period 20s	49 15	21	White concrete tower; 52.	F.R. and F.G. lights mark river entrance.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CAMBODIA-THAILAND							
20601 <i>F 2986.1</i>	Map Ta Phut Range, front, No 18.	12° 40.5' N 101° 08.6' E	Fl.G. period 4s fl. 0.3s, ec. 3.7s	102 31	10	Red and white metal framework tower, red and white square daymark; 98.	
20601.1 <i>F 2986.11</i>	-Rear, No 19, 1600 meters 345°30' from front.	12° 41.4' N 101° 08.4' E	Fl.W.R.G. period 4s fl. 0.3s, ec. 3.7s	167 51	15	Red and white metal framework tower, red and white square daymark; 98.	G. 344°48'-345°18', W.-345°54', R.-346°24'.
20602 <i>F 2986.5</i>	-W. breakwater, head.	12° 38.8' N 101° 08.9' E	Fl.W. period 4s fl. 0.3s, ec. 3.7s	10 3	7	Red and white checkered structure; 13.	
20602.5 <i>F 2986.7</i>	-BLCP Jetty.	12° 39.7' N 101° 09.3' E	F.W.R.G.	164 50	4	White metal post; 151.	G. 358°36'-359°18', W.-000°42', R.-001°24'.
20603.5 <i>F 2985</i>	AVIATION LIGHT.	12° 43.4' N 101° 01.8' E	F.R.	899 274	10		
20604 <i>F 2984</i>	AVIATION LIGHT.	12° 39.7' N 100° 59.6' E	Al.Fl.W.G.				
THAILAND-EAST COAST							
20608 <i>F 2976</i>	Hin Chula, off Laem Samae San.	12° 35.7' N 100° 58.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	30 9	8	White concrete tower, black bands; 26.	
20612 <i>F 2982</i>	Ko Chuang.	12° 31.0' N 100° 57.3' E	Fl.(2)W. period 20s fl. 0.5s, ec. 4s fl. 0.5s, ec. 15s	476 145	12	White brick tower; 72.	
			F.R.	430 131	8		Shows over Hin Chalan.
20616 <i>F 2973.5</i>	Ko Chorake.	12° 36.2' N 100° 55.0' E	Fl.(2)W. period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	190 58	15	White round metal pipe; 16.	
20620 <i>F 2975.4</i>	Ko Mu, breakwater, head.	12° 37.0' N 100° 54.6' E	Fl.(2)W. period 5s	46 14	10	White square concrete column; 23.	
20624 <i>F 2975.3</i>	-Oil pier.	12° 37.1' N 100° 54.8' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	26 8	10	White metal pipe, red band; 7.	
20628 <i>F 2975</i>	-Range, front.	12° 37.4' N 100° 54.8' E	Q.Y.	69 21	8	White metal framework tower, red rectangular daymark, white stripe; 56.	Aero Radiobeacon 2.5 miles E.
20632 <i>F 2975.1</i>	--Rear, about 488 meters 017°36' from front.	12° 37.6' N 100° 54.9' E	Iso.Y. period 4s	95 29	8	White metal framework tower, red rectangular daymark, white stripe; 85.	
20634 <i>F 2974</i>	-Ko Tao Mo, breakwater, head.	12° 38.7' N 100° 51.5' E	Fl.(2)W. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	33 10	10	White round concrete pole; 20.	
20640 <i>F 2973</i>	Laem Pu Chau.	12° 39.0' N 100° 51.2' E	Fl.(3)W. period 15s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 11.4s	558 170	30	White concrete tower; 49.	
20644 <i>F 2970</i>	Hin Khi Sua.	12° 40.9' N 100° 49.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	30 9	6	White concrete tower; 23.	
20648 <i>F 2968</i>	Hin Rang Kwian.	12° 47.7' N 100° 47.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	59 18	9	White concrete pile structure; 23.	
20649	Chon Buri.	12° 55.3' N 100° 52.0' E	Fl.W. period 5s	315 96	14	Radio tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
THAILAND-EAST COAST							
20652 F 2964	Ko Chun.	12° 56.8' N 100° 51.5' E	Fl.(3)W.R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	43 13	W. 10 R. 8	White concrete beacon; 16.	R. 334°-024°, W.-044°, R.- 094°, W.-334°.
20656 F 2966	Ko Phai.	12° 56.0' N 100° 40.3' E	Fl.W. period 5s fl. 1s, ec. 4s	525 160	31	White concrete tower; 52.	
20660 F 2962	Ko Nok.	13° 01.4' N 100° 49.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15	10	White framework tower; 36.	
20661 F 2963	Laem Chabang.	13° 04.7' N 100° 52.4' E	Fl.W. period 10s fl. 1s, ec. 9s	259 79	10		
	RACON		C(- • - •)		30		(3 & 10cm).
20661.1 F 2963.2	-Harbor Entrance, Beacon A.	13° 03.3' N 100° 53.3' E	Dir.W.R.G.	102 31	21	Metal framework tower.	F.G. 128°15'-130°45', F.W.- 132°15', F.R.-134°45'.
20662 F 2963.4	-Breakwater, NW. head, Br 1.	13° 03.9' N 100° 52.4' E	Q.(3)W. period 10s	30 9	5	E. CARDINAL BYB, beacon, topmark.	3 Q.W. lights mark breakwater center. Radar reflector.
20662.1 F 2963.5	--SE. head, Br 2.	13° 02.3' N 100° 53.1' E	Q.(3)W. period 10s	33 10	5	E. CARDINAL BYB, beacon, topmark.	Radar reflector.
20662.25 F 2963.86	-Basin No 1, Beacon C Range, front.	13° 04.3' N 100° 54.0' E	Q.G.	56 17	10	Concrete pole, daymark, black and white stripes.	
20662.26 F 2963.88	--Beacon D, rear, 700 meters 059°18' from front.	13° 04.5' N 100° 54.3' E	Iso.G. period 6s	82 25	10	Concrete pole, red daymark, white stripes.	
20662.3 F 2963.7	--SW. corner, B1.	13° 03.6' N 100° 53.1' E	Iso.G. period 6s	43 13	10	Green metal framework tower.	
20662.4 F 2963.9	-Basin No 2, Beacon E Range, front.	13° 03.3' N 100° 54.5' E	Fl.G. period 5s	95 29	7	Metal framework tower.	
20662.41 F 2963.91	--Beacon F, rear, about 380 meters 073° from front.	13° 03.4' N 100° 54.7' E	Iso.G. period 4s	112 34	7	Metal framework tower.	
20662.5 F 2963.73	--NW. corner, B2.	13° 03.1' N 100° 53.3' E	Iso.R. period 6s	33 10	8	Metal framework tower.	
20662.51 F 2963.75	--SW. corner, B3.	13° 02.8' N 100° 53.4' E	Iso.G. period 6s	33 10	8	Metal framework tower.	
20664 F 2960	Ko Thai Ta Mun.	13° 06.5' N 100° 48.2' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	95 29	9	White concrete pile structure; 20.	
20666 F 2959	Si Racha Oil Terminal, Jetty No 1, N. head.	13° 07.4' N 100° 53.0' E	Fl.R. period 2s	30 9	6		
20666.5 F 2959.4	-Jetty No 2, N. head.	13° 07.3' N 100° 52.8' E	Q.(2)R. period 2s	30 9	6		
20666.7 F 2958.8	-SBM-1.	13° 07.8' N 100° 51.6' E	Mo.(U)W.	20 6	5	Yellow superbuoy.	Radar reflector.
			Q.R.				
20666.71 F 2959.8	-SBM-2.	13° 04.3' N 100° 46.7' E	Mo.(O)W. period 15s		5	Yellow superbuoy.	Horn: Mo.(O) ev. 30s. Radar reflector.
	-RACON		Z(- - • •)				
20668 F 2958	Laem Wat (Wang).	13° 09.0' N 100° 49.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	46 14	9	White brick column; 30.	
20670	Ko Si Chang.	13° 09.7' N 100° 48.7' E	Oc.W. period 6s lt. 3.3s, ec. 2.7s	128 39	17	White round concrete tower, red top; 128.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
THAILAND-EAST COAST							
20672 F 2954	Hin Sampayu.	13° 11.3' N 100° 47.9' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	46 14	10	White brick tower; 30.	
20690 F 2953	Laem Talat Nok.	13° 28.2' N 100° 58.6' E	Iso.Y. period 3s	46 14	12	White round metal post, concrete base, white diamond daymark.	
MAE NAM CHAO PHRAYA:							
20700 F 2939	-Bangkok Bar.	13° 22.8' N 100° 35.8' E	L.Fl.W. period 10s fl. 2s, ec. 8s	115 35	20	White concrete structure, red bands; 118. Helicopter platform.	Siren: 1 bl. ev. 20s.
	-RACON		O(---)		12		(3 & 10cm).
20701 F 2943.5	-Beacon J Range, front.	13° 27.0' N 100° 35.7' E	Q.R.	52 16	5	White framework tower, red rectangular daymark, white stripe.	
			Q.R.	49 15	8		Visible 205°-215°.
20702 F 2943.51	--Rear, 1.95 kilometers 210° from front.	13° 26.1' N 100° 35.2' E	Iso.R. period 6s	112 34	9	White framework tower, black rectangular daymark, white stripe.	
			Iso.R. period 6s	108 33	9		Visible 205°-215°.
20704 F 2941	-Beacon A Range, front.	13° 27.9' N 100° 36.7' E	Q.W.	49 15	5	White metal framework tower, concrete base, red rectangular daymark, white stripe.	
			Q.W.	46 14	8		Visible 029°-039°.
20708 F 2941.1	--Beacon B, rear, 1,750 meters 034° from front.	13° 28.7' N 100° 37.2' E	Iso.W. period 6s	79 24	4	White metal framework tower, black rectangular daymark, white stripe.	
			Iso.W. period 6s	75 23	9		Visible 029°-039°.
20712 F 2943	-Beacon E Range, front.	13° 30.8' N 100° 37.9' E	Q.R.	46 14	8	White metal framework tower, yellow square daymark, black stripe. Secondary structure: White metal framework tower, red square daymark, white stripe.	Visible 025°-035°.
			Q.Y.	49 15	9		Visible 121°-131°.
20716 F 2943.1	--Beacon F, rear.	13° 31.5' N 100° 38.4' E	Iso.R. period 6s	79 24	9	Red building, white stripes.	Visible 025°-035°.
20720 F 2944	--Beacon I, rear.	13° 30.3' N 100° 38.6' E	Iso.Y. period 6s	79 24	9	White framework tower, black rectangular daymark, white stripe; 79.	Visible 121°-131°.
20724 F 2942	-Beacon C Range, front.	13° 29.5' N 100° 36.9' E	Q.G.	49 15	4	Gray metal framework tower, red rectangular daymark, white stripe; 46.	
			Q.G.	46 14	8		Visible 013°-023°.
20728 F 2942.1	--Beacon D, rear, 1725 meters 018° from front.	13° 30.4' N 100° 37.2' E	Iso.G. period 6s	79 24	4	Gray metal framework tower, black rectangular daymark, white stripe; 79.	
			Iso.G. period 6s	75 23	8		Visible 013°-023°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
THAILAND-EAST COAST							
20732 F 2945	-Beacon G Range, front.	13° 33.3' N 100° 34.4' E	Q.Y.	85	4	White metal framework tower, red rectangular daymark, white stripe.	
			Q.Y.	82	8		Visible 301°-311°.
20736 F 2945.1	--Beacon H, rear, 0.5 mile 306° from front.	13° 33.6' N 100° 34.0' E	Iso.Y. period 6s	115	4	Concrete water tower, black rectangular daymark, white stripe.	
			Iso.Y. period 6s	111	9		Visible 301°-311°.
20740 F 2948	-No 25.	13° 37.4' N 100° 32.8' E	Q.(9)W. period 15s	20	2	W. CARDINAL YBY, beacon, topmark.	
20744 F 2948.2	-No 19.	13° 37.6' N 100° 32.7' E	Fl.(4)Y. period 7s	20	2	SPECIAL Y, beacon, "X" topmark.	
20748 F 2948.4	-No 13.	13° 37.7' N 100° 32.6' E	Fl.(3)Y. period 5s	20	2	SPECIAL Y, beacon, "X" topmark.	
20752 F 2948.6	-No 7.	13° 37.9' N 100° 32.4' E	Fl.(2)Y. period 3s	20	2	SPECIAL Y, beacon, "X" topmark.	
20756 F 2948.8	-No 1.	13° 38.1' N 100° 32.3' E	Q.(9)W. period 15s	20	2	W. CARDINAL YBY, beacon, topmark.	
20757 F 2948.92	-L1.	13° 41.5' N 100° 35.4' E	L.Fl.Y. period 10s fl. 3s, ec. 7s	49	10	Yellow metal framework tower, black band.	
20757.3 2 948.94	-L2.	13° 42.1' N 100° 34.8' E	L.Fl.Y. period 10s fl. 3s, ec. 7s	49	10	Yellow metal framework tower, black band.	
20760 F 2937	Tha Chin.	13° 30.6' N 100° 16.3' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	56	12	White metal framework tower; 49.	
20764 F 2935	Mae Nam Mae Khlong.	13° 21.1' N 100° 00.0' E	Fl.(3)W. period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	108	16	White framework tower; 98.	
20765 F 2936	-Entrance channel beacon.	13° 18.4' N 100° 01.0' E	Fl.(2)G. period 4s	36	11	White beacon.	
20766 F 2936.5	--N.	13° 18.9' N 100° 01.1' E	Iso.W. period 3s	46	23	White beacon.	
20767 F 2934.5	Ao Ban Laem.	13° 12.1' N 100° 02.6' E	Fl.W.R. period 9s fl. 0.9s, ec. 8.1s	36	W. 9 R. 5	White concrete tower; 36.	W. 149°-303°, R.-149°.
20768 F 2934	Laem Phak Bia.	13° 02.6' N 100° 05.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	75	10	White concrete tripod; 62.	
20772 F 2933	Hua Hin.	12° 34.2' N 99° 58.1' E	V.Q.(6)+L.Fl.R. period 10s	23	9	White concrete column, black bands; 16.	
20776 F 2932.7	Khao Takiap.	12° 30.9' N 99° 59.0' E	Fl.(2)W. period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 10s	427	15	White metal tripod; 20.	
20780 F 2932.4	Ko Sattakut.	12° 12.5' N 100° 02.0' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	525	16	White concrete tripod; 36.	
20784 F 2932	Ko Raet.	11° 47.6' N 99° 49.4' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	423	17	White concrete tower; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
THAILAND-EAST COAST							
20788 F 2930	Laem Mae Ramphung.	11° 11.6' N 99° 34.6' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	269 82	10	White metal framework tower; 72.	
20792 F 2928	Ko Rang.	10° 49.3' N 99° 29.5' E	Fl.W. period 9s fl. 0.9s, ec. 8.1s	302 92	16	White metal framework tower; 23.	
20796 F 2924	Ko Mattaphon.	10° 26.9' N 99° 15.2' E	L.Fl.W.R. period 7s fl. 2s, ec. 5s	180 55	W. 16 R. 8	White metal framework tower; 39.	R. 208°-216°, W.-263°, R.- 298°, W.-309°, R.-339°, W.-208°.
20797 F 2924.2	-Beacon A.	10° 26.8' N 99° 14.8' E	Fl.G. period 3s	26 8	5		
20797.1 F 2924.3	--B.	10° 26.7' N 99° 14.8' E	Fl.W. period 4s	46 14	7		
20800 F 2922	Ko Rang Banthat.	10° 07.0' N 99° 12.9' E	Fl.(3)W. period 10s	102 31	10	White concrete tower; 20.	
20804 F 2923	Mae Nam Tako.	10° 05.4' N 99° 09.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	30 9	10	White concrete column; 20.	
20808 F 2920	Lang Suan.	9° 56.6' N 99° 09.6' E	Oc.(2)W.R. period 5s	66 20	W. 15 R. 12	White concrete tower; 56.	R. 223°-308° over rocks, W.- 223°.
20812 F 2915.3	Ko Tao.	10° 07.3' N 99° 50.6' E	Fl.W. period 5s fl. 1s, ec. 4s	243 74	16	White concrete tower; 36.	
20816 F 2915.2	Ko Phangan, Laem Thian.	9° 40.2' N 100° 04.3' E	Fl.(2)W. period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 10s	410 125	16	White metal framework tower; 72.	
20820 F 2915	Laem Yai, on Ko Samui.	9° 34.2' N 99° 54.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	207 63	9	White metal framework tower; 56.	
20824 F 2914.8	Ban Ang Thong.	9° 32.0' N 99° 56.0' E	Fl.(2)W.R. period 7s	47 14	W. 15 R. 12		R. 359°-084°, W.-130°, R.- 158°.
20828 F 2915.4	Ko Palikan.	9° 21.2' N 99° 40.9' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	118 36	8	White metal framework tower; 56.	
20830	Erawan Gas Field RACON.	9° 08.3' N 101° 15.6' E	O(---)		15	Platform.	Azimuth coverage 010°-235°. (3 & 10cm).
20830.4	Beanpot Gas Field RACON.	8° 50.7' N 101° 24.7' E	B(-•••)		15	Platform.	(3 & 10cm).
20832 F 2914	Ko Wang Nai.	9° 18.8' N 99° 53.5' E	Fl.(3)W. period 9s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 6.1s	226 69	16	White metal framework tower; 30.	
20836 F 2916	Ko Prap, Bandon River.	9° 15.8' N 99° 25.9' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	243 74	21	White metal framework tower; 46.	
20840 F 2916.3	-Beacon A.	9° 16.8' N 99° 25.8' E	Fl.(2)R. period 6s	29 9	11		
20840.1 F 2916.5	-Beacon B.	9° 16.0' N 99° 25.9' E	Oc.(2)W. period 7s	75 23	15		
20844 F 2917	-Beacon C.	9° 12.1' N 99° 23.0' E	Fl.(2)G. period 6s	26 8	11		
20844.1 F 2917.3	-Beacon D.	9° 11.3' N 99° 22.6' E	Oc.(2)W. period 6s	75 23	15		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
THAILAND-EAST COAST							
20848 <i>F 2918</i>	Laem Sui.	9° 23.4' N 99° 18.7' E	Fl.(3)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	112 34	9	White metal framework tower; 102.	
20852 <i>F 2912</i>	Sichon.	9° 00.7' N 99° 55.1' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	75 23	W. 7 R. 3	White metal framework tower; 36.	W. 164°-254°, R.-294°, W.- 012°.
20856 <i>F 2910</i>	Nakhon.	8° 33.4' N 99° 59.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	112 34	11	White metal framework tower; 105.	Aero Radiobeacon 3.4 miles SSW.
20860 <i>F 2908</i>	Laem Talumphuk.	8° 30.6' N 100° 08.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	102 31	13	White metal framework tower; 95.	
20868 <i>F 2909</i>	Ko Kra.	8° 23.9' N 100° 44.1' E	Fl.(3)W. period 20s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 15.2s	518 158	17	White concrete tripod; 52.	
20870	Bangkok Gas Field, Platform W11 RACON.	8° 01.6' N 102° 28.5' E	S(•••)				Lighted.
20872 <i>F 2907</i>	Amphoe Ranot.	7° 46.9' N 100° 22.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	115 35	9	White metal framework tower; 102.	
20876 <i>F 2895</i>	Ko Losin.	7° 20.1' N 101° 58.5' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 12	16	Black metal framework tower, red band, concrete base; 23.	
20876.2	Mae Nam Ko.	6° 14.5' N 102° 05.6' E	Fl.Y. period 5s	16 5	6	White mast; 16.	
20877 <i>F 2895.5</i>	Kelantan.	6° 14.8' N 102° 05.3' E	Fl.W. period 5s	16 5	10	White concrete tower.	
	RACON		A(• -)				(3cm).
20878 <i>F 2895.4</i>	Sungai Kolok.	6° 14.5' N 102° 05.6' E	Oc.W.R.G. period 5s lt. 3s, ec. 2s	89 27	W. 15 R. 11 G. 11	White fiberglass tower, concrete base; 89.	G. 115°-197°12', W.-200°12', R.-027°.
20880 <i>F 2904</i>	Songkhla Khao Tangkuan.	7° 12.6' N 100° 35.4' E	Fl.(4)W. period 30s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 14.8s	335 102	25	White brick tower; 26.	
20884 <i>F 2905</i>	-Range, front, A.	7° 13.5' N 100° 34.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	36 11	11	White metal pillar, concrete base, white diamond daymark.	
20888 <i>F 2905.1</i>	--Rear B, 250 meters 224°18' from front.	7° 13.4' N 100° 34.2' E	Iso.G. period 5s	62 19	11	White metal pillar, concrete base, white diamond daymark.	
20892 <i>F 2906</i>	-S. breakwater, head.	7° 14.0' N 100° 35.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	4	White metal pillar, concrete base.	
20894 <i>F 2906.4</i>	-N. breakwater, head.	7° 14.1' N 100° 34.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	4	White metal pillar, concrete base.	F.R. 3M marks each end of oil pier close WSW.
20896 <i>F 2900</i>	Laem Ta Chi.	6° 56.9' N 101° 16.5' E	Fl.(3)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	102 31	10	White metal framework tower; 95.	
20912 <i>F 2898</i>	Khlong Sai Buri.	6° 42.8' N 101° 38.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	92 28	15	White metal framework tower; 85.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-EAST COAST							
SUNGEI KELANTAN:							
20920 F 2894	-Sungei Tapang.	6° 12.6' N 102° 08.2' E	Fl.W. period 10s		6		Fishing light.
20922 F 2893.5	-Dalam Rhu.	6° 12.2' N 102° 09.8' E	Fl.R. period 4s	36 11	5	Wooden framework structure, white square daymark.	
20926 F 2893	-Pantai Sri Tujoh.	6° 13.2' N 102° 09.2' E	Fl.W. period 7s	36 11	12	White wooden framework tower.	
20930 F 2891	Pulau Kuda.	6° 12.9' N 102° 13.9' E	Fl.(2)W. period 5s		8	Wooden tower, white square daymark.	
20932 F 2890	Sungai Kelantan Approach.	6° 10.7' N 102° 19.6' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	60 18	10	Aluminium framework tower, white rectangular daymark; 49.	Visible 148°-299°.
20934 F 2889	Pengkalan Daty, S. breakwater, head.	6° 10.1' N 102° 20.7' E	Fl.W. period 5s		10	White fiberglass tower; 46.	
20935 F 2888.5	Kemasin.	6° 07.9' N 102° 22.4' E	Fl.G. period 6s	34 10	5	White tower.	
20936 F 2888	Menchat.	6° 03.7' N 102° 24.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	40 12	10	Tower, white square daymark.	
20937 F 2887.1	Tok Bali, N. breakwater.	5° 53.9' N 102° 29.1' E	Q.G.	46 14	10	White column, green triangular topmark point up.	
20937.5 F 2887	-S. breakwater.	5° 53.9' N 102° 29.2' E	Q.R.	46 14	10	White column, red square topmark.	
20940 F 2885.7	Pulau Perhentian Besar.	5° 53.3' N 102° 44.2' E	Fl.W. period 7s	145 44	10	White pedestal, rock.	Fishing light.
20941 F 2885.65	Tanjung Genting.	5° 54.3' N 102° 44.2' E	Fl.R. period 4s			Beacon.	
20942 F 2885.6	Seabelle rock.	5° 54.6' N 102° 42.6' E	Fl.W. period 4s	30 9	8	White column, piles.	
20948 F 2885.5	Sungai Besut.	5° 49.8' N 102° 33.8' E	Fl.W. period 2s	39 12	8	White metal tripod; 36.	Fishing light.
20954 F 2885.16	Penarik.	5° 36.6' N 102° 49.7' E	Fl.(4)Y. period 10s	39 12	8	Yellow structure, piles.	
20955 F 2885.17	Pulau Cipu.	5° 40.6' N 102° 49.5' E	Fl.W. period 5s	102 31	10		
20956 F 2885.1	Pulau Penang.	5° 44.6' N 103° 00.1' E	Fl.W. period 10s	433 132	10	Metal framework tower; 26.	
20957 F 2885.05	Pulau Leng.	5° 44.2' N 103° 01.2' E	Fl.(2)W. period 6s	43 13	5		
20958 F 2885.15	Batu Bara.	5° 38.6' N 102° 58.0' E	Fl.W. period 4s	253 77	11		
20959 F 2885.03	Batuan Rusa Utara.	5° 34.3' N 102° 59.1' E	Fl.(2)W. period 5s	43 13	10		
20960 F 2885	Tanjong Merang.	5° 32.4' N 102° 56.8' E	Fl.W. period 4s	68 21	8	White mast, white square daymark; 20.	Obscured when bearing more than 278°.
20964 F 2884	Batu Rakit.	5° 27.3' N 103° 03.2' E	Fl.(2)W. period 5s	26 8	8	White concrete pile.	
20965 F 9532	Lawit-A Platform RACON.	6° 33.0' N 103° 21.1' E	X(- • • -)				Lighted.
20966 F 9531	Jerneh-A Platform RACON.	6° 34.4' N 103° 44.7' E	Y(- • • -)				Lighted.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-EAST COAST							
KUALA TERENGGANU:							
20968 <i>F 2880</i>	-Bukit Peteri.	5° 20.1' N 103° 08.2' E	Fl.W. period 3s fl. 1s, ec. 2s	114 35	15	White brick column.	
20969 <i>F 2880.8</i>	--S Breakwater.	5° 20.4' N 103° 09.3' E	Q.R.	59 18	6	Beacon, square daymark.	
20969.1 <i>F 2880.9</i>	--N.	5° 20.5' N 103° 09.3' E	Q.G.	59 18	6	Beacon, triangular daymark point up.	
20970	-Kuala Terengganu No 4.	5° 20.1' N 103° 08.0' E	Fl.(2)R. period 4s	26 8	5	White concrete pile.	
20974 <i>F 2881</i>	-Syahbandar beacon.	5° 20.5' N 103° 08.0' E	Fl.G. period 2s			White wooden framework tower, white square daymark; 20.	
20980	-Fairway Lighted Buoy.	5° 20.0' N 103° 09.0' E	L.Fl.W. period 10s			SAFE WATER RW, spherical.	
20992 <i>F 2878</i>	Chendering, head.	5° 16.0' N 103° 11.1' E	Fl.W. period 5s	249 76	10	White metal framework tower.	
20996 <i>F 2878.5</i>	-Breakwater, head.	5° 15.5' N 103° 10.9' E	Q.G.	26 8	5	White metal framework tower.	
20998 <i>F 2877</i>	Marang, breakwater.	5° 12.6' N 103° 12.9' E	Fl.R. period 3s	39 12	5	Red concrete tower.	
21000 <i>F 2876</i>	Pulau Kapas, S. end.	5° 12.7' N 103° 15.8' E	Fl.W. period 10s fl. 1.2s, ec. 8.8s	96 29	13	Metal tower.	Visible 300°-154°.
21002 <i>F 2869.8</i>	Pulau Tokong Batu Kemudi.	4° 52.0' N 103° 39.5' E	Fl.W. period 6s	52 16	10		
21003 <i>F 2869.7</i>	Batuan Tokong Dayak.	4° 46.9' N 103° 41.3' E	Fl.W. period 3s	75 23	10		
21004 <i>F 2870</i>	Tanjung Dungun.	4° 46.9' N 103° 26.3' E	Fl.W. period 10s fl. 0.7s, ec. 9.3s	249 76	10	White round tower, red bands; 59.	
21005 <i>F 2873</i>	Kuala Dungun.	4° 46.7' N 103° 25.7' E	Fl.R. period 4s	26 8	5	White post.	
21006 <i>F 2869.5</i>	Tanjung Pelor.	4° 39.3' N 103° 26.9' E	Fl.W. period 5s	70 21	8	White pillar, concrete base.	
21008 <i>F 2869.4</i>	Paka.	4° 38.6' N 103° 26.7' E	Fl.G. period 10s	27 8	5	White mast; 30.	
21010	Kertih Terminal, breakwater, N. head.	4° 36.0' N 103° 27.8' E	Fl.R. period 5s		11		
21011 <i>F 2869.27</i>	--S. head.	4° 35.1' N 103° 28.0' E	Q.G.		11		
21012 <i>F 2869.3</i>	-Sarus tower.	4° 36.1' N 103° 27.5' E	Q.Y.	30 9	10	Yellow buoyant beacon.	Marks cooling water intake.
21015 <i>F 2869.29</i>	-North Approach.	4° 35.5' N 103° 27.4' E	Oc.W.R.G. period 3s	43 13	W. 4 R. 3 G. 3		G. 202°-203°, W.-204°, R.- 205°.
21016 <i>F 2869.15</i>	Kertch Port Marine Control tower.	4° 34.0' N 103° 27.9' E	Iso.W.R. period 2s	115 35	W. 12 R. 9	Metal framework tower; 115.	W. 180°-225°, R.-305°, W.- 329°. Mo.(U)W. 15s 2M Horn on SBM 1.2 miles ENE. Mo.(U)W. 7.5s 2M Horn on SPM 2.4 miles E and 2.8 miles ESE.
21020 <i>F 2869</i>	Tanjong Labohan.	4° 31.3' N 103° 28.2' E	Fl.W. period 4s	250 76	15	White metal framework tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-EAST COAST							
21022 <i>F 2869.07</i>	Kuala Kertih.	4° 30.9' N 103° 27.2' E	Fl.(2)W. period 5s	36 11	5	White beacon, red square daymark.	
21028 <i>F 2867</i>	Kijal Coast.	4° 20.1' N 103° 29.1' E	Fl.W. period 5s		10	White beacon; 30.	
21032 <i>F 2862</i>	Sungai Kemaman.	4° 14.3' N 103° 27.3' E	Fl.W. period 12s fl. 0.5s, ec. 11.5s	343 105	15	White and red masonry tower; 30.	In line 111° with 21034.3.
21034 <i>F 2859</i>	-Entrance Range, front.	4° 15.0' N 103° 27.6' E	Q.R.	69 21	12	Framework tower, white triangular daymark point up, red stripe.	
21034.1 <i>F 2859.1</i>	--Rear, 457 meters 310° from front.	4° 15.2' N 103° 27.4' E	Iso.R. period 4s	108 33	12	Framework tower, white triangular daymark point down, red stripe.	
21034.15 <i>F 2860.05</i>	-E.	4° 12.7' N 103° 32.0' E	Q.G.	39 12	8	Beacon.	
21034.16 <i>F 2860.1</i>	-N.	4° 13.1' N 103° 31.1' E	Fl.(2)G. period 10s	39 12	5	Beacon.	
21034.17 <i>F 2860.15</i>	-S.	4° 12.9' N 103° 29.9' E	Q.R.	39 12	5	Beacon.	
21034.2 <i>F 2860</i>	-No 1.	4° 13.7' N 103° 29.3' E	Fl.G. period 5s	43 13	11	White column, green triangular daymark point up.	
21034.3 <i>F 2860.2</i>	-No 2.	4° 13.5' N 103° 29.1' E	Fl.R. period 5s	36 11	8	Beacon, dolphin.	Channel entrance range, in line 291° with 21032.
21035 <i>F 2860.6</i>	-No 4.	4° 14.3' N 103° 28.3' E	Fl.R. period 3s	49 15	5	Red and white structure.	
21036 <i>F 2860.7</i>	-Range, front.	4° 15.4' N 103° 27.7' E	Q.G.	69 21	12	Framework tower, white triangular daymark point up, red stripe.	
21040 <i>F 2860.71</i>	--Rear, 210 meters 327°30' from front.	4° 15.5' N 103° 27.7' E	Iso.G. period 4s	89 27	12	Framework tower, white triangular daymark point down, red stripe.	R. light on tower 800 meters E.
21040.2 <i>F 2860.76</i>	-S. breakwater, head.	4° 14.8' N 103° 28.0' E	Fl.(2)R. period 5s	29 9	2		
21040.4 <i>F 2860.8</i>	-No 5.	4° 15.0' N 103° 28.2' E	Fl.(2)G. period 5s	29 9	2	Beacon, dolphin.	
21040.6 <i>F 2860.9</i>	-E. breakeater, head.	4° 14.8' N 103° 28.4' E	Fl.Y. period 5s	33 10	3		L.P.G. jetty marked by F.R. lights.
21041 <i>F 2863</i>	-Kemaman. N. breakwater.	4° 14.0' N 103° 27.2' E	Q.R.		8	Beacon.	
21041.5 <i>F 2863.1</i>	--S. breakwater.	4° 13.8' N 103° 27.1' E	Fl.Y. period 3s		8	Beacon.	
SUNGAI KEMAMAN:							
21042.1 <i>F 2865.1</i>	-No 4.	4° 14.6' N 103° 26.9' E	Fl.G. period 2s	33 10	5	White pillar, piles, white triangular daymark point down.	
KUANTAN PORT:							
21052 <i>F 2857</i>	-Tanjung Gelang.	3° 57.8' N 103° 26.2' E	Fl.(3)W. period 10s	279 85	25	White round concrete tower; 23.	
21056 <i>F 2858</i>	-Range, front.	3° 58.6' N 103° 25.9' E	Q.G.	43 13	12	Metal framework tower, red square daymark; 33.	Visible 296°06'-326°06'.
21060 <i>F 2858.1</i>	--Rear, 960 meters 311°04' from front.	3° 58.9' N 103° 25.5' E	Oc.G. period 5s	112 34	15	Metal framework tower, red square daymark; 98.	Visible 296°06'-326°06'.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-EAST COAST							
21061 <i>F 2858.8</i>	-Kuantan Port NDWT Sector Light.	4° 00.0' N 103° 25.4' E	Oc.W.R.G. period 5s	98 30	6	White lattice, RWR vertical stripe daymark.	G. 319°46'-322°06', W.-324°26', R.-326°45'. Range 4M by day.
21062 <i>F 2857.825</i>	-KP 3.	3° 56.5' N 103° 29.5' E	Fl.(2)G. period 5s	49 15	8	STARBOARD (A) G, beacon, topmark.	
21062.2 <i>F 2857.4</i>	-KP 6.	3° 56.9' N 103° 27.5' E	Fl.(3)R. period 5s	49 15	8	PORT (A) R, beacon, topmark.	
21062.25 <i>F 2857.6</i>	-KP 7.	3° 57.6' N 103° 27.4' E	Fl.(3)G. period 5s	49 15	8	STARBOARD (A) G, beacon, topmark.	
21062.4 <i>F 2857.5</i>	-No 2.	3° 57.1' N 103° 27.5' E	Fl.R. period 5s	56 17	8	PORT (A) R, beacon, topmark.	
21064 <i>F 2858.3</i>	-N. breakwater, head.	3° 58.2' N 103° 26.5' E	Fl.Y. period 3s	39 12	8	Yellow concrete structure; 30.	5 F.Bu. mark breakwater.
21068 <i>F 2858.2</i>	-S. breakwater, head.	3° 58.1' N 103° 26.3' E	Fl.(4)R. period 12s	30 9	9	Red beacon; 20.	
21068.4 <i>F 2858.35</i>	-Inner breakwater, head.	3° 58.1' N 103° 26.2' E	Fl.R. period 2s		5		
21068.6 <i>F 2858.5</i>	-Naval Basin, N. mole.	3° 58.1' N 103° 26.0' E	Fl.G.				Fl.R. 300 meters SE.
21069.6 <i>F 2858.6</i>	-Palm oil berth.	3° 58.3' N 103° 25.8' E	F.W.				F.Bu. marks mineral oil berth 700 meters NW.
SUNGAI KUANTAN:							
21076 <i>F 2847</i>	-Tg. Tembeling.	3° 48.3' N 103° 22.4' E	Fl.(2)W. period 10s fl. 0.1s, ec. 3.2s fl. 0.1s, ec. 6.6s	227 69	15	White wooden framework tower; 20.	Visible 197°-025°.
21080 <i>F 2848</i>	-Bukit Pelinding Range, front.	3° 48.6' N 103° 20.4' E	Fl.G. period 2s		10	White wooden mast, red diamond daymark, black stripe; 23.	
21084 <i>F 2848.1</i>	--Rear, 46 meters 323°30' from front.	3° 48.6' N 103° 20.4' E	Q.G.		10	White metal framework tower, red diamond daymark, black stripe; 39.	
21087 <i>F 2846.9</i>	-Teluk Sisek.	3° 47.8' N 103° 21.0' E	Fl.(2)G. period 5s		10		
21088 <i>F 2845</i>	Kuala Pahang.	3° 32.0' N 103° 27.8' E	Fl.W. period 7s fl. 0.5s, ec. 6.5s	39 12	10	White metal mast, white square daymark.	
ANAMBAS ISLANDS (INDO):							
21096 <i>F 1832</i>	-Mangkai Pulau.	3° 05.2' N 105° 35.9' E	Fl.(2)W. period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	643 196	25	White metal framework tower; 131.	Visible 338°-239°.
21096.5 <i>F 1830</i>	-Letong.	2° 59.5' N 105° 42.6' E	Fl.W. period 6s fl. 1s, ec. 5s	197 60	11	White fiberglass tower; 33.	
21096.7 <i>F 1830.5</i>	-Tulai.	2° 59.5' N 105° 41.0' E	Fl.W. period 6s fl. 1s, ec. 5s	82 25	15	White beacon.	
21096.8 <i>F 1830.55</i>	Tanjung Lelan.	2° 49.0' N 105° 43.9' E	Fl.(2)W. period 10s fl. 0.3s, ec. 3s fl. 0.3s, ec. 6.4s	131 40	18	White beacon.	
21097 <i>F 1828</i>	Pulau Damar.	2° 44.6' N 105° 22.8' E	Fl.W. period 3s fl. 1s, ec. 2s	288 88	22	White fiberglass tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-EAST COAST							
21097.5 <i>F 1831</i>	Tokong Malangbiru.	2° 18.2' N 105° 35.9' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	52 16	12	White beacon.	
21097.6 <i>F 1830.8</i>	Repong Island.	2° 21.7' N 105° 52.9' E	Fl.(4)W. period 12s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 5.7s	72 22	14	White beacon.	
21097.65 <i>F 1830.7</i>	Pulau Ritan.	2° 38.1' N 106° 18.1' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	56 17	12	White beacon.	
21097.7 <i>F 1830.6</i>	Serak Island.	2° 47.4' N 106° 01.0' E	Fl.(4)W. period 20s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 9.8s	72 22	14	White metal framework tower; 66.	
21097.8 <i>F 1834</i>	Nunsa Island.	2° 59.6' N 106° 24.9' E	Fl.(4)W. period 30s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 14.6s	82 25	15	White metal framework tower; 66.	
21098 <i>F 1838.3</i>	-NW. side.	3° 00.8' N 107° 45.1' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	41 12	11		
21100 <i>F 1838</i>	Midai Island.	2° 59.5' N 107° 46.4' E	Fl.(4)W. period 20s fl. 0.3s, ec. 1.6s fl. 0.3s, ec. 1.6s fl. 0.3s, ec. 1.6s fl. 0.3s, ec. 14s	519 158	26	White metal framework structure; 66.	
21100.1 <i>F 1838.35</i>	Karang Jackson.	2° 58.8' N 107° 48.7' E	Fl.W. period 5s fl. 1s, ec. 4s	49 15	12	White beacon.	
21101 <i>F 1836.8</i>	Seluan.	4° 06.9' N 107° 50.6' E	Fl.(4)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	125 38	17	White beacon.	
21102 <i>F 1837</i>	Sedanau.	3° 47.8' N 108° 02.1' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	41 12	11	White beacon; 33.	
21104 <i>F 1837.6</i>	Karang Sedanau.	3° 44.4' N 108° 00.9' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	49 15	10	White framework tower; 49.	
21104.5 <i>F 1837.65</i>	Karang Burung.	3° 41.6' N 108° 02.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	43 13	11	White beacon; 33.	Radar reflector.
21104.7 <i>F 1837.75</i>	Selat Lampa.	3° 39.9' N 108° 07.8' E	Fl.G. period 9s fl. 0.9s, ec. 8.1s		5	Green beacon.	
21105 <i>F 1837.7</i>	-Karang Lampa.	3° 39.2' N 108° 06.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	19 6	6	Green beacon; 16.	
21106 <i>F 1837.8</i>	Karang Setahi.	3° 37.4' N 108° 08.3' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	43 13	11	White beacon.	Radar reflector.
21108 <i>F 1836.7</i>	Tanjong Senoebing.	3° 57.6' N 108° 24.0' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	518 158	26	White metal framework tower; 98.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-EAST COAST							
21112 <i>F 1836.5</i>	Sekatoeng.	4° 47.7' N 108° 01.1' E	Oc.W. period 3s lt. 2s, ec. 1s	321 98	26	White metal framework structure; 98.	
21114 <i>F 1836.6</i>	Semium.	4° 31.0' N 107° 43.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	525 160	22	White tower.	
SIANTAN:							
21117 <i>F 1835</i>	-Tanjung Pedas.	3° 13.9' N 106° 11.8' E	Fl.W. period 4s fl. 1s, ec. 3s	269 82	15	White metal framework tower; 131.	
21120 <i>F 1836.3</i>	--Terampa.	3° 13.0' N 106° 13.0' E	F.R.	23 7	12	White metal mast; 43.	
21121 <i>F 1836.1</i>	---NE.	3° 13.7' N 106° 14.3' E	Oc.G. period 5.5s lt. 3s, ec. 2.5s	20 6	7	STARBOARD (A) G, beacon, topmark.	
21122 <i>F 2842</i>	Pulau Berhala.	3° 14.7' N 103° 39.5' E	Fl.(2)W. period 5s	98 30	10	Wooden framework tower.	
21124 <i>F 2840</i>	Kampang Telaga Papan (Menasik).	3° 08.1' N 103° 26.8' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	43 13	5	White wooden framework tower, white ball topmark.	Fishing light.
21130 <i>F 2838</i>	Batu Boya.	2° 45.4' N 103° 36.7' E	Fl.W. period 5s	26 8	8	White concrete pile.	
PULAU TIOMAN:							
21134 <i>F 2836.9</i>	-Tanjung Penuba.	2° 51.3' N 104° 09.0' E	Fl.(2)W. period 5s	59 18	8	Concrete structure, white square daymark.	
21136 <i>F 2836.8</i>	-Tanjung Lanting.	2° 43.3' N 104° 13.0' E	Fl.(3)W. period 15s	67 20	10	Concrete structure, white square daymark.	
21138 <i>F 2836.7</i>	Palau Tokong Bahara.	2° 39.9' N 104° 03.7' E	L.Fl.W. period 15s	46 14	8	White column, concrete base.	
21140 <i>F 2837</i>	Padang Endau, inner.	2° 40.0' N 103° 38.9' E	Fl.(2)R. period 10s	33 10	5	Four-sided metal framework tower, pile.	
21144 <i>F 2837.2</i>	-Outer beacon.	2° 40.2' N 103° 39.7' E	Q.W.	36 11	10	White column, piles, white rectangular daymark, black stripe.	
21148 <i>F 2836.3</i>	Pulau Achi.	2° 39.0' N 103° 52.9' E	Fl.(2)W. period 10s	226 69	6	White four-sided framework tower; 33.	
21150 <i>F 2836.1</i>	Pulau Harimau.	2° 33.6' N 103° 56.5' E	Fl.W. period 5s	318 97	16	White square framework tower, red bands.	
21152 <i>F 2834</i>	Mersing (Br.).	2° 26.0' N 103° 50.5' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	35 11	10	White metal framework tower.	Difficult to distinguish from lights of town.
21156 <i>F 2833</i>	-Outer Channel Beacon.	2° 26.7' N 103° 51.2' E	Fl.R. period 4s	37 11	5	White concrete pillar, red square daymark.	
21160 <i>F 2833.4</i>	-Inner Channel Beacon.	2° 26.5' N 103° 50.8' E	Fl.G. period 5s	37 11	5	White concrete pillar, green triangular daymark point up.	
21164 <i>F 2836</i>	Pulau Stindan.	2° 28.4' N 103° 51.3' E	Fl.W. period 11s fl. 1s, ec. 10s	30 9	5	Column.	
21165 <i>F 2835.5</i>	Batu Sakit Mata.	2° 27.5' N 104° 01.1' E	Fl.W. period 3s	43 13	18	White concrete tower.	
21166 <i>F 2835.3</i>	Batu Tikus.	2° 25.8' N 104° 02.9' E	Fl.(2)W. period 20s	39 12	12	White concrete tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-EAST COAST							
21167 <i>F 2835</i>	Pulau Lang.	2° 27.4' N 104° 29.3' E	Fl.W. period 5s	180 55	18	Metal framework tower.	
21167.5 <i>F 2832.5</i>	Batu Murau.	2° 18.3' N 104° 01.8' E	Fl.W. period 5s	49 15	7	White column, platform.	
21168 <i>F 2832</i>	Tg. Tenggaroh.	2° 15.1' N 103° 58.8' E	Fl.W. period 10s		10		
21169 <i>F 2830</i>	Tanjung Leman, port.	2° 09.3' N 104° 00.4' E	Fl.R. period 3s	16 5	5	Concrete tower.	
21169.5 <i>F 2831</i>	-Starboard.	2° 09.3' N 104° 00.4' E	Fl.G. period 3s	16 5	5	Concrete tower.	
21172 <i>F 2826</i>	Jason Bay, Sungai Sedili Besar.	1° 54.6' N 104° 08.3' E	Q.R.	18 5	5		Fishing light.
21173 <i>F 2827</i>	Kuala Sedili, Inner beacon.	1° 55.3' N 104° 07.3' E	Fl.(2)R. period 5s	37 11	5	White column, piles.	

Section 13

Singapore Strait and Strait of Malacca

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-SINGAPORE-INDONESIA (SINGAPORE STRAIT)							
21176 <i>F 1812</i>	Tanjong Berakit.	1° 13.2' N 104° 34.6' E	Fl.(2)W. period 10s fl. 1.5s, ec. 2s fl. 1.5s, ec. 5s	223 68	20	White metal framework tower; 98.	Visible 085°-341°.
21180 <i>F 1822</i>	Pulau Mungging.	1° 21.7' N 104° 17.9' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	79 24	15	White metal tower, framework base; 26.	Radar reflector.
	RACON		N(- •)				(3cm).
21182 <i>F 1736.95</i>	Tanjung Kapal Range, front.	1° 20.5' N 104° 09.9' E	Oc.R. period 4s			Red beacon.	
21182.1 <i>F 1736.951</i>	-Rear, 685 meters 028° from front.	1° 20.8' N 104° 10.1' E	Oc.R. period 4s			Red beacon.	
21182.2 <i>F 1736.96</i>	-Pier, N.	1° 19.5' N 104° 10.1' E	F.R.G.			Black post.	R. 270°-315°, G.-090°.
21182.3 <i>F 1736.97</i>	--Elbow.	1° 19.4' N 104° 10.1' E	Fl.R. period 3s			Black post.	
21182.4 <i>F 1736.975</i>	--Middle.	1° 19.4' N 104° 09.6' E	F.R.G.			Black post.	G. 270°-030°, R.-090°.
21182.5 <i>F 1736.98</i>	--Head.	1° 19.4' N 104° 09.5' E	Fl.R. period 3s			Black post.	
21182.6 <i>F 1736.965</i>	--Range.	1° 19.5' N 104° 10.1' E	2 Oc.Y. period 5s			Black post.	Visible 000°-180°.
21183.1 <i>F 1736.983</i>	Tg Setapa, MOLFSY.	1° 20.3' N 104° 08.4' E	Fl.Y. period 5s				
21183.2 <i>F 1736.985</i>	-MOLF3.	1° 20.1' N 104° 08.2' E	Fl.(2)G. period 10s				
21183.3 <i>F 1736.988</i>	-MOLF4.	1° 20.1' N 104° 08.1' E	Fl.(2)R. period 10s				
21183.4 <i>F 1736.99</i>	-MOLF1.	1° 19.9' N 104° 08.2' E	Fl.G. period 3s				
21183.5 <i>F 1736.995</i>	-MOLF2.	1° 19.9' N 104° 08.0' E	Fl.R. period 3s				
21184 <i>F 1737</i>	Tanjong Setapa (Langkah Baik).	1° 20.6' N 104° 08.1' E	Fl.(3)W. period 20s	138 42	18	Metal framework tower.	
21185 <i>F 1737.2</i>	Malang Berendam.	1° 21.5' N 104° 05.4' E	Fl.(2)W. period 6s	62 19	7	White column, platform.	
21186 <i>F 1821</i>	Tompok Utara.	1° 27.8' N 104° 27.0' E	Fl.(3)W. period 15s	89 27	15	Red and white tower.	AIS (MMSI No 005330110).
21188 <i>F 1820</i>	Pulau Batu Puteh (Horsburgh).	1° 19.8' N 104° 24.3' E	Fl.W. period 10s fl. 0.7s, ec. 9.3s	102 31	20	White round tower, black bands; 95.	AIS (MMSI No 005631117). Radar reflector.
	RACON		O(- - -)		16		(3 & 10cm).
21189 <i>F 1738</i>	Karang Si Ajar.	1° 25.5' N 104° 05.0' E	Fl.W. period 3s	26 8	18	White concrete tower.	
21200 <i>F 1736</i>	-Changi, AVIATION LIGHT.	1° 21.6' N 103° 59.4' E	Fl.W. period 1.5s	285 87	10	Control tower.	Al.W.G. 3s 1,330 meters 322°, identification beacon Mo.(CH)G. 7s 2,650 meters 024°. Obstruction light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-SINGAPORE-INDONESIA (SINGAPORE STRAIT)							
21200.3 <i>F 1735</i>	Changi Naval Base.	1° 19.1' N 104° 02.1' E	Fl.(3)W. period 15s	43 13	15	White round tower, piles.	Visible 154°-084°.
21200.4 <i>F 1735.6</i>	-S. breakwater.	1° 18.5' N 104° 01.8' E	F.W.R.G.	39 12	W. 7 R. 6 G. 6	White beacon, white triangular daymark point down.	G. 260°-267°30', W.-272°30', R.-280°.
21200.7 <i>F 1734</i>	-Frontier.	1° 18.9' N 104° 03.6' E	Fl.Y. period 3s	23 7		3 Yellow round tower, yellow pile cap, piles.	
21201 <i>F 1736.5</i>	--Cafni Jetty, W. head.	1° 23.5' N 103° 59.9' E	F.R.				
21201.5 <i>F 1736.55</i>	--E. head.	1° 23.4' N 104° 00.1' E	F.R.				
21202 <i>F 1733.19</i>	South Changi.	1° 18.9' N 103° 58.6' E	Fl.Y. period 10s	16 5		4 Yellow round metal tower; 10.	
21204 <i>F 1739</i>	-Tg. Chek Jawa.	1° 24.5' N 103° 59.5' E	Fl.W. period 5s	89 27		10 White post, white concrete base, white triangular daymark point down; 16.	Visible 309°-314°. In line 311°24' with unlit rear.
21208 <i>F 1740</i>	-Malang Papan.	1° 24.1' N 103° 59.3' E	Fl.G. period 5s	20 6		5 STARBOARD (A) G, post, topmark; 13.	
21212 <i>F 1742</i>	-Fairy, Batu Puteh.	1° 23.5' N 103° 58.3' E	Fl.(2)R. period 10s	23 7		4 Red post, red concrete base; 16.	
21216 <i>F 1744</i>	-Loyang.	1° 23.0' N 103° 57.9' E	Dir.W.R.G. period 10s	19 6	W. 10 R. 8 G. 8	Red mast, red piles.	Fl.(2)G. 128°-129°, Fl.(2)W.-133°, Fl.(2)R.-135°.
21220 <i>F 1748</i>	-Tg. Tajam.	1° 25.3' N 103° 55.6' E	Fl.(3)G. period 10s	20 6		4 STARBOARD (A) G, post, topmark; 16.	
21222 <i>F 1745</i>	Dawes Rock.	1° 25.6' N 103° 57.1' E	Fl.G. period 5s			5 White post.	
SINGAPORE:							
21240 <i>F 1766</i>	-Tebrau Reach Range, front.	1° 28.9' N 103° 48.4' E	Fl.G. period 5s	20 6		5 White concrete pile beacon, triangular daymark point up.	Visible 271°-061°.
21244 <i>F 1766.1</i>	--Rear, 1280 meters 289°06' from front.	1° 29.1' N 103° 47.7' E	Iso.G. period 5s	30 9		5 White concrete pile beacon, triangular daymark point down.	Visible 280°-027°.
21252 <i>F 1770.6</i>	-Royal Malaysian Naval Base Jetty, head.	1° 27.3' N 103° 46.7' E	Q.R.			5 Metal column; 23.	
21256 <i>F 1770.62</i>	--Elbow.	1° 27.3' N 103° 46.7' E	Q.G.			5 Metal column; 23.	
21260 <i>F 1733</i>	-Bedok.	1° 18.5' N 103° 56.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	249 76	20	Red hut; 249.	Visible 261°-067°. Radar reflector.
21264 <i>F 1733.17</i>	-Keta.	1° 18.3' N 103° 58.1' E	Fl.Y. period 2s	33 10		5 Yellow round tower, piles, yellow triangular daymark point up.	Radar reflector.
21265 <i>F 1733.18</i>	-Tanah Merah.	1° 18.7' N 103° 59.0' E	Fl.Y. period 5s	20 6		7 Yellow round tower; 13.	
21268 <i>F 1732.5</i>	-Amber.	1° 17.9' N 103° 54.3' E	Fl.Y. period 2.5s	59 18		5 Yellow round concrete tower; 49.	Visible 256°-058°.
21276 <i>F 1726.2</i>	-South Kallang.	1° 16.8' N 103° 52.6' E	Fl.Y. period 6s	16 5		4 SPECIAL Y, post, "X" topmark.	
21280.5 <i>F 1726.4</i>	-South Marina.	1° 16.7' N 103° 52.4' E	Fl.Y. period 6s	16 5		4 SPECIAL Y, post, "X" topmark.	
21296 <i>F 1725</i>	-AVIATION LIGHT.	1° 17.6' N 103° 51.2' E	Fl.W. period 2s	771 235	14	Hotel.	Obstruction light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-SINGAPORE-INDONESIA (SINGAPORE STRAIT)							
21298 F 1718.7	-Outer Shoal.	1° 15.0' N 103° 51.8' E	Fl.G. period 5s	26 8	5	Green buoyant beacon.	
21300 F 1721	-Terumbu Selegi.	1° 13.6' N 103° 49.6' E	Fl.R. period 2.5s	19 6	5	Red round tower, red base.	AIS (MMSI No 005631141).
21320 F 1697.995	-N.W. Boat.	1° 15.2' N 103° 50.5' E	Fl.(3)R. period 15s	13 4	4	Red fiberglass box, red truncated cone.	
21332 F 1718.4	-Kukor.	1° 14.4' N 103° 50.9' E	Fl.R. period 5s	23 7	3	PORT (A) R, tower, topmark.	
SINGAPORE-INDONESIA							
SINGAPORE:							
21336 F 1698	-Pulau Sakijang Pelepah.	1° 13.3' N 103° 51.3' E	Fl.W. period 2.5s fl. 0.8s, ec. 1.7s	195 59	15	Black wooden framework tower; 36.	AIS (MMSI No 995631119).
21340 F 1699	-Pulau Tembakul off SE. end.	1° 13.3' N 103° 51.8' E	Fl.R. period 5s	20 6	4	Red fiberglass tower; 13.	
21342 F 1699.5	-Kusu.	1° 13.5' N 103° 51.5' E	Fl.R. period 2.5s	16 5	3	PORT (A) R, pile, topmark.	
21343 F 1717	-Seringat.	1° 13.9' N 103° 51.5' E	Fl.(2)R. period 10s	20 6	3	PORT (A) R, tower, topmark.	
21344 F 1718	-Kias Reef NW. of islet.	1° 13.9' N 103° 50.7' E	Fl.R. period 10s	16 5	3	Red tower, pile.	
21352 F 1716	-Rengat Beacon.	1° 13.6' N 103° 50.8' E	Fl.R. period 5s	20 6	3	PORT (A) R, tower, topmark.	
21354 F 1718.6	-Buran.	1° 15.1' N 103° 50.9' E	Fl.W. period 2.5s	13 4	4	White round tower, white round base.	Visible 234°51'-196°51'. Shown on request.
21354.5 F 1708	-Causeway Range, front.	1° 15.7' N 103° 49.4' E	Q.R.		11		
21354.6 F 1708.1	--Rear, 60 meters 240°30' from front.	1° 15.7' N 103° 49.4' E	Iso.R. period 4s		11		
21355 F 1720.6	-SE. Buran.	1° 14.2' N 103° 50.5' E	Fl.G. period 5s	23 7	3	STARBOARD (A) G, tower, topmark.	
21355.4 F 1720.4	-Sentosa.	1° 14.2' N 103° 50.0' E	Fl.R. period 2s	23 7	3	PORT (A) R, tower, topmark.	
21392 F 1704	-Tanjong Rimau.	1° 15.6' N 103° 48.4' E	Fl.G. period 5s	20 6	4	STARBOARD (A) G, topmark.	
21396 F 1720	-Terumbu Palawan.	1° 15.0' N 103° 48.9' E	Fl.G. period 2.5s	26 8	5	Green metal framework tower; 16.	
PULAU BELAKANG PADANG (INDONESIA):							
21400 F 1696	-Batu Berhanti.	1° 11.1' N 103° 53.0' E	Fl.W. period 8s	54 16	13	White beacon, red band; 33.	Radar reflector.
	-RACON		B(-•••)		7		(3 & 10cm).
21408 F 1697	-N. point of reef.	1° 10.1' N 103° 52.8' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	23 7	6	Green framework tower; 13.	
21412 F 1697.2	-Mariaman.	1° 09.0' N 103° 54.4' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	95 29	8	STARBOARD (A) G, beacon, topmark; 26.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SINGAPORE-INDONESIA							
21416 <i>F 1697.3</i>	-Tenggara Marian.	1° 08.8' N 103° 54.7' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	26 8	4	PORT (A) R, beacon, topmark; 16.	Radar reflector.
21424 <i>F 1697.7</i>	Pulau Batam, Sekupang, on reef W.	1° 07.6' N 103° 55.2' E	Fl.G. period 7s fl. 0.5s, ec. 6.5s	16 5	4	STARBOARD (A) G, beacon, topmark; 26.	Radar reflector.
21428 <i>F 1697.73</i>	--N.	1° 07.8' N 103° 55.4' E	Fl.R. period 6s	26 8	4	PORT (A) R, beacon, topmark; 26.	
21436 <i>F 1697.5</i>	--Tanjung Kemudi, NW.	1° 08.5' N 103° 55.0' E	Q.(2)W. period 5s	26 8	6	ISOLATED DANGER BRB, beacon, topmark.	Radar reflector.
21460 <i>F 1697.96</i>	-Batuampar.	1° 10.0' N 104° 00.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	65 20	8	White beacon, white triangular daymark point down.	Radar reflector.
	-RACON		B(- • • •)		15		Azimuth coverage 080°-180°. (3 & 10cm).
21460.5 <i>F 1697.965</i>	Teluk Joduh.	1° 09.6' N 103° 59.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	30 9	8	White beacon.	
21461 <i>F 1697.97</i>	Tering Bay, W. beacon.	1° 09.6' N 104° 03.6' E	Fl.G. period 5s fl. 1s, ec. 4s	23 7	6	STARBOARD (A) G, beacon, topmark.	
21461.1 <i>F 1697.971</i>	-E. beacon.	1° 09.6' N 104° 03.7' E	Fl.R. period 5s fl. 1s, ec. 4s	23 7	6	PORT (A) R, beacon, topmark.	
21461.3 <i>F 1697.981</i>	-SW. beacon.	1° 08.1' N 104° 03.6' E	Fl.G. period 4s fl. 1.5s, ec. 2.5s	23 7	6	STARBOARD (A) G, beacon, topmark.	
21461.5 <i>F 1697.982</i>	-SE. beacon.	1° 07.9' N 104° 03.6' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	6	PORT (A) R, beacon, topmark.	
21461.7 <i>F 1697.983</i>	-S. beacon.	1° 07.8' N 104° 03.5' E	Fl.Y. period 2s fl. 0.5s, ec. 1.5s	23 7	6	SPECIAL Y, beacon, "X" topmark.	
21461.9 <i>F 1697.979</i>	-N. beacon.	1° 08.3' N 104° 03.6' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	6	PORT (A) R, beacon, topmark.	
21462 <i>F 1697.99</i>	Pulau Nongsa.	1° 12.1' N 104° 04.6' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s	131 40	20	Metal framework structure; 131.	
21464 <i>F 1695.6</i>	Buffalo Rock.	1° 09.4' N 103° 48.8' E	Q.W.	72 22	15	N. CARDINAL BY, beacon, topmark; 30.	Radar reflector.
	RACON		K(- • -)				
21476 <i>F 1694.7</i>	Helen Mar Reef.	1° 07.4' N 103° 46.5' E	Fl.W. period 6s fl. 0.4s, ec. 5.6s	52 16	13	N. CARDINAL BY, beacon, topmark; 39.	Radar reflector.
	RACON		M(- -)				
21480 <i>F 1694</i>	Pulau Takong Kecil.	1° 06.3' N 103° 43.1' E	Fl.(2)W.R. period 10s fl. 0.7s, ec. 1.3s fl. 0.7s, ec. 7.3s	157 48	18	White metal tower; 98.	R. 065°-136°, W.-065°.
21484 <i>F 1694.2</i>	-SSE. of Pulau Takong.	1° 05.9' N 103° 43.2' E	Q.(6)+L.Fl.W. period 15s	23 7	9	S. CARDINAL YB, beacon, topmark.	
	-RACON		TK(- - • -)				
21487 <i>F 1693.95</i>	-Pulau Pelampong.	1° 07.7' N 103° 42.0' E	Fl.W. period 4s fl. 1s, ec. 3s	59 18	12	White beacon; 49.	
21491 <i>F 1691.8</i>	North Nipa.	1° 10.1' N 103° 39.8' E	Q.W.	39 12	14	N. CARDINAL BY, articulated beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SINGAPORE-INDONESIA							
21492 <i>F 1692</i>	Nipa Reef, N. head.	1° 09.2' N 103° 39.4' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	46 14	7	White beacon; 33.	
	RACON		N(- •)				(3 & 10cm).
21495 <i>F 1693.9</i>	Pulau Cula.	1° 02.4' N 103° 42.7' E	Fl.(3)W. period 15s fl. 0.3s, ec. 3.3s fl. 0.3s, ec. 3.3s fl. 0.3s, ec. 7.5s	52 16	12	White beacon.	
21500 <i>F 1693</i>	Raffles.	1° 09.6' N 103° 44.4' E	Fl.(3)W. period 20s	105 32	20	White round tower; 95.	AIS (MMSI No 005631114). Radar reflector. DGPS Station.
	RACON		O(- - -)				(3 & 10cm).
21504 <i>F 1693.2</i>	-Semaphore tower.	1° 09.7' N 103° 44.5' E	Iso.W. period 10s	135 41	6	Metal framework tower.	Traffic signals. At night, light X-shaped. By day, black cone points up over black cylinder.
21508 <i>F 1695</i>	Pulau Sebarok.	1° 11.8' N 103° 48.4' E	Fl.R. period 5s	23 7	5	Red beacon.	AIS (MMSI No 995630022).
21528 <i>F 1695.3</i>	-Jambi West.	1° 12.2' N 103° 47.6' E	Q.(9)W. period 15s	13 4	3	W. CARDINAL YBY, beacon, topmark.	2 Q.R. mark ends of jetty 500 meters NNW.
21540 <i>F 1690.7</i>	Gerita Beacon.	1° 13.4' N 103° 43.5' E	Fl.(2)W. period 10s	26 8	4	ISOLATED DANGER BRB, tower, topmark.	
21544 <i>F 1690.6</i>	Selat Pauh.	1° 13.4' N 103° 45.0' E	Fl.G. period 5s	20 6	3	Green tower, dolphin.	
21545 <i>F 1690.72</i>	Semakau, N.	1° 13.1' N 103° 45.5' E	Q.W.	20 6	3	N. CARDINAL BY, beacon, topmark.	
21545.5 <i>F 1690.725</i>	Pulau Sakeng.	1° 12.6' N 103° 46.7' E	Dir.W.R.G.	49 15	13	Building.	F.G. 015°48'-016°30', F.W.- 017°36', F.R.-019°18'. Range 4M by day. Occasional.
21546 <i>F 1690.73</i>	-NE.	1° 12.6' N 103° 46.8' E	Fl.Y. period 5s	16 5	3	Yellow round tower; 10.	
21552 <i>F 1690</i>	-First Bukom.	1° 14.3' N 103° 46.3' E	Q.W.	13 4	5	N. CARDINAL BY, beacon, topmark.	
21556 <i>F 1690.1</i>	-Second Bukom.	1° 14.2' N 103° 46.5' E	Q.(6)+L.Fl.W. period 15s	16 5	5	S. CARDINAL YB, beacon, topmark.	
21560 <i>F 1690.2</i>	-Third Bukom.	1° 13.9' N 103° 46.7' E	V.Q.W.	13 4	5	N. CARDINAL BY, beacon, topmark.	
21564 <i>F 1690.4</i>	-Fourth Bukom.	1° 13.8' N 103° 46.7' E	V.Q.(6)+L.Fl.W. period 10s	13 4	6	S. CARDINAL YB, beacon, topmark.	
21567 <i>F 1690.48</i>	-Batu Kopi.	1° 13.4' N 103° 46.8' E	Fl.(2)W. period 10s			ISOLATED DANGER BRB, beacon, topmark.	
21568 <i>F 1690.5</i>	-South Bukom.	1° 13.2' N 103° 46.8' E	Q.(6)+L.Fl.W. period 15s	13 4	3	S. CARDINAL YB, beacon, topmark.	
21572 <i>F 1690.55</i>	-Jong.	1° 12.8' N 103° 47.4' E	Q.(3)W. period 10s	13 4	4	E. CARDINAL BYB, beacon, topmark.	
21574 <i>F 1688.7</i>	Pulau Busing, OTB, front.	1° 14.2' N 103° 45.1' E	Q.R.	20 6	5	White post, red triangular daymark point up.	
21574.5 <i>F 1688.8</i>	--Rear, 232°18'.	1° 14.2' N 103° 45.0' E	Iso.R. period 4s	43 13	5	White lattice beacon, red triangular daymark point down; 16.	
21576 <i>F 1688</i>	Cyrene Reef.	1° 15.3' N 103° 45.5' E	Fl.R. period 2.5s	26 8	10	Red concrete framework tower.	AIS (MMSI No 005631116).
	RACON		M(- -)				(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SINGAPORE-INDONESIA							
21580 <i>F 1687</i>	Cyrene Reefs, Pandan.	1° 15.5' N 103° 44.5' E	Q.(9)W. period 15s	20	6	W. CARDINAL YBY, tower, topmark.	
21586 <i>F 1701.8</i>	Seraya Chemical Pier Range, front.	1° 16.2' N 103° 44.3' E	Fl.Y. period 2s	26	8	1 Yellow metal pole, yellow triangular daymark point up.	
21586.1 <i>F 1701.81</i>	-Rear, 281°30' from front.	1° 16.2' N 103° 44.2' E	Fl.Y. period 4s	33	10	1 Yellow metal pole, yellow triangular daymark point down.	
21588 <i>F 1701.75</i>	Pulau Seraya, AVIATION LIGHT.	1° 16.8' N 103° 43.5' E	Fl.W.	597	12	Power station chimney, red and white bands.	Obstruction light.
21590 <i>F 1700.6</i>	Palau Seraya, OT1.	1° 16.7' N 103° 44.2' E	Fl.Y. period 10s	17	5	Yellow framework tower, yellow piles.	
21590.5 <i>F 1700.65</i>	-OT2.	1° 16.8' N 103° 44.2' E	Fl.Y. period 2.5s	30	9	Yellow post, yellow square daymark.	
21591 <i>F 1700.7</i>	-OT3.	1° 16.8' N 103° 44.1' E	Fl.Y. period 4s	17	5	Yellow pile.	
21592 <i>F 1700.74</i>	-PLP-1.	1° 17.3' N 103° 43.6' E	Fl.Y. period 2s	13	4	SPECIAL Y, beacon, "X" topmark.	
21596 <i>F 1700.1</i>	-Damar Laut.	1° 18.0' N 103° 43.4' E	Dir.W.R.G. period 2.5s	39	W. 9 R. 7 G. 7	White round tower, piles, white triangular daymark point up.	Fl.G. 308°36'-310°36', Fl.W.- 313°36', Fl.R.-315°36'. In line 312°06' with beacon, white triangular daymark point down.
21601 <i>F 1701.6</i>	Merlimau, E. terminal.	1° 17.6' N 103° 43.2' E	Fl.Y. period 3s	20	4		
21601.1 <i>F 1701.62</i>	-W. terminal.	1° 17.7' N 103° 42.9' E	Fl.Y. period 6s			Yellow metal post.	
21608 <i>F 1685.6</i>	-Esso Bn. G.	1° 17.1' N 103° 41.9' E	V.Q.G.	26	8	5 Green round tower, dolphin.	
21620 <i>F 1701.22</i>	GATX terminal, W. head.	1° 17.9' N 103° 43.8' E	Fl.Y. period 2.5s	13	4	4 White metal post.	
21624 <i>F 1701.2</i>	-E. head.	1° 17.8' N 103° 44.0' E	Fl.Y. period 5s	16	5	4 White metal post.	
21625 <i>F 1700.38</i>	-Caltex Range, front.	1° 17.6' N 103° 44.5' E	Fl.Y. period 2s	20	6	2 Yellow post, yellow triangular daymark point up.	
21625.1 <i>F 1700.39</i>	--Rear, 110 meters 339°54' from front.	1° 17.7' N 103° 44.5' E	Fl.Y. period 4s	30	9	2 Yellow post, yellow triangular daymark point down.	
21628 <i>F 1686</i>	Selat Sinki Beacon.	1° 14.0' N 103° 43.3' E	Fl.(3)G. period 15s	27	8	10 Green concrete framework tower.	 AIS (MMSI No 005631128).
21632 <i>F 1685.8</i>	Terumbu Serebut.	1° 14.8' N 103° 42.1' E	Fl.(2)R. period 10s	29	9	10 PORT (A) R, tower, topmark.	
	RACON		G(- - •)		10		(3 & 10cm).
21636 <i>F 1686.3</i>	Ayer Beacon.	1° 16.1' N 103° 42.4' E	Dir.W.R.G. period 3s	33	W. 10 R. 4 G. 4	White metal mast, white triangular daymark point up.	Fl.G. 299°-305°, Fl.W.-309°, Fl.R.-315°.
21656 <i>F 1684</i>	Sultan Shoal.	1° 14.4' N 103° 38.9' E	Fl.(2)W. period 15s fl. 0.2s, ec. 3.6s fl. 0.2s, ec. 11s	66	15	20 White round tower, dwelling; 69.	 Radar reflector.
	RACON		K(- • -)		15		 AIS (MMSI No 005631144).
21660 <i>F 1685.65</i>	Helios Terminal Entrance, breakwater, head.	1° 13.7' N 103° 40.2' E	Fl.(2)G. period 4s	20	6	5 Green round tower, triangular daymark point up.	
21664 <i>F 1685.03</i>	Tuas.	1° 17.0' N 103° 39.4' E	Fl.R. period 5s	20	6	3 PORT (A) R, articulated beacon, topmark.	
21672 <i>F 1685.05</i>	Gul.	1° 17.3' N 103° 39.6' E	Fl.(3)G. period 15s	16	5	3 STARBOARD (A) G, articulated beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SINGAPORE-INDONESIA							
21681 <i>F 1684.4</i>	Tuas Fuel Oil Jetty, E.	1° 16.7' N 103° 38.9' E	Fl.Y. period 2s	16 5		Yellow pole, dolphin.	
21681.1 <i>F 1684.5</i>	-W.	1° 16.7' N 103° 38.6' E	Fl.Y. period 4s	16 5		Yellow pole, dolphin.	
21682 <i>F 1679</i>	Tuas jetty, NW. head.	1° 17.2' N 103° 36.7' E	Fl.Y. period 5s			Yellow round tower.	
21682.1 <i>F 1679.2</i>	-SE. head.	1° 17.2' N 103° 36.8' E	Fl.Y. period 2.5s			Yellow round tower.	
21685 <i>F 1681</i>	Johore Strait.	1° 20.7' N 103° 38.0' E	Fl.W. period 10s	49 15		White concrete tower.	
21686 <i>F 1680</i>	Pulo Merambong, W. entrance to Johore Strait.	1° 18.9' N 103° 36.6' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	75 23	10	White round tower.	Visible 165°-083°.
21686.1 <i>F 1678</i>	Tanjung Pelepas.	1° 20.0' N 103° 33.8' E	Dir.W.R.G. period 10s	62 19	6	White round metal tower.	Iso.G. 014°05'-015°08', Iso.W.-016°14', Iso.R.- 017°16'.
MALAYSIA-WEST COAST							
21686.5 <i>F 1676.5</i>	Pengkalan Penghulu.	1° 17.2' N 103° 28.8' E	Fl.(2)G. period 5s	30 9	5	White structure, green triangular daymark point up.	
21687 <i>F 1676</i>	Kukup, outer.	1° 17.7' N 103° 26.6' E	Fl.G. period 3s	47 14	8	White column, piles, green triangular daymark point up.	
21687.1 <i>F 1676.2</i>	--Inner.	1° 18.7' N 103° 26.5' E	Fl.R. period 4s	46 14	5	White column, piles, red square daymark.	
21688 <i>F 1670</i>	Pontian Kechii, S. side of entrance.	1° 29.0' N 103° 23.3' E	Fl.W. period 5s	33 10	6	Metal framework tower.	Fishing light. F.R. on radio mast 0.3 mile N.
21689 <i>F 1670.1</i>	Sungai Pontian Besar.	1° 30.4' N 103° 22.2' E	Fl.G. period 5s	33 10	5	White column, piled platform.	
21690 <i>F 1669</i>	Mudah Selatan.	1° 25.2' N 103° 11.2' E	Fl.(3)W. period 15s	85 26	16	White round fiberglass tower, piled platform.	
	RACON		O(---)				(3cm).
21691 <i>F 1669.1</i>	Panjang Selatan.	1° 23.4' N 103° 07.9' E	Fl.W. period 5s	97 30	15	White round tower, piled platform.	
21692 <i>F 1668</i>	Pulau Pisang.	1° 28.2' N 103° 15.4' E	Fl.W. period 10s fl. 0.4s, ec. 9.6s	493 150	20	White round tower; 59.	Visible over Pulo Cocob.
21696 <i>F 1660</i>	Sungai Benut.	1° 34.9' N 103° 16.1' E	Fl.W. period 10s fl. 1s, ec. 9s	41 12	8	White metal framework tower, concrete pile.	
21698 <i>F 1658</i>	Kuala Sg. Rengit.	1° 38.8' N 103° 08.1' E	Fl.W. period 4s	33 10	8		
21699 <i>F 1657</i>	Parit Botak.	1° 42.0' N 103° 04.4' E	Fl.G. period 7s	35 11	5	White column, piles, green triangular daymark point up.	
21701 <i>F 1655</i>	Mudah Utara.	1° 37.2' N 102° 57.1' E	Fl.(2)W. period 6s	98 30	15	White structure, piles.	
21703 <i>F 1654</i>	Panjang Utara.	1° 35.5' N 102° 46.7' E	Fl.(2)W. period 10s	92 28	16	White fiberglass tower, piled platform.	
21703.5 <i>F 1653.5</i>	Kuala Sungai Ayam.	1° 44.7' N 102° 55.7' E	Fl.R. period 3s	39 12	5	White column, pile, red square daymark.	
21708 <i>F 1652</i>	Pulau Sialu.	1° 47.3' N 102° 53.1' E	Fl.W. period 3s	57 17	5	White masonry tower; 49.	F.R. and F.G. mark passage through bridge 4.6 miles NNE. F.R. on radio masts 3.75 miles ENE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-WEST COAST							
21712 F 1652.5	Bukit Segenting.	1° 47.5' N 102° 53.4' E	Fl.(4)W. period 30s	282 86	23	White round concrete tower; 46.	
21716 F 1650	Tanjong Tohor.	1° 50.7' N 102° 42.1' E	Fl.W. period 5s	52 16	13		Radar reflector.
21718 F 1648	Parit Jawa.	1° 56.7' N 102° 37.7' E	Fl.R. period 4s	36 11	5	White column, piles, red square daymark.	
MUAR:							
21720	-Entrance Lighted Buoy.	2° 03.0' N 102° 30.1' E	Fl.G. period 5s			Green buoy.	
21724 F 1646	-N. side of river entrance.	2° 03.4' N 102° 33.1' E	Fl.W. period 10s	41 12	5	Metal framework tower, concrete piles; 39.	Visible 011°12'-125°30'.
21725 F 1646.2	-1G.	2° 02.5' N 102° 30.6' E	Q.G.	16 5	5	Green column, piles.	
21726 F 1646.5	-2R.	2° 03.9' N 102° 31.3' E	Q.R.	16 5	5	Red column, piles.	
21728 F 1644	Pulau Undan.	2° 02.9' N 102° 20.0' E	Fl.(2)W. period 15s	175 53	18	Red octagonal tower, building; 49.	
21730 F 1642	Kuala Umbai.	2° 09.2' N 102° 20.1' E	Fl.G. period 5s	33 10	8	White concrete tower, green triangular daymark point up.	
21731 F 1641	Sungay Duyong.	2° 10.3' N 102° 17.3' E	Fl.(2)W. period 5s	20 6	7	Metal post.	
21732 F 1640	Pulau Panjang.	2° 09.6' N 102° 15.3' E	Fl.R. period 5s fl. 1s, ec. 4s	18 5	6	White beacon.	
21734 F 1633	Batu Gelama.	2° 10.4' N 102° 14.9' E	Fl.W. period 5s	13 4	8	White round concrete tower; 13.	
MELAKA (MALACCA):							
21735 F 1637	-Entrance.	2° 11.1' N 102° 14.5' E	Fl.R. period 4s	34 10	5	White piled structure, red square daymark.	
21736 F 1634	-W. breakwater, head.	2° 11.3' N 102° 14.6' E	Fl.R. period 4s	12 4	4	Concrete column; 13.	
21740 F 1636	-E. breakwater, head.	2° 11.3' N 102° 14.7' E	Fl.G. period 4s	12 4	4	Concrete column; 13.	
21742 F 1628	Tanjung Panchor.	2° 16.6' N 102° 04.2' E	Fl.G. period 4s	21 6	5	White structure.	Fishing light.
21744 F 1629	Tanjong Bruas.	2° 12.6' N 102° 09.4' E	Q.R.	25 8	8	Orange concrete column, pile structure.	
21744.3 F 1628.65	NW. of Tanjung Keling.	2° 13.7' N 102° 08.0' E	Iso.Y. period 4s			Articulated beacon.	
21744.4 F 1628.6	-NW.	2° 13.7' N 102° 08.0' E	Q.Y.			Articulated beacon.	
PELABUHAN SUNGAI UDANG:							
21744.6 F 1628.1	-SBM.	2° 11.7' N 102° 06.5' E	Mo.(U)W. period 10s			Yellow SBM.	Horn: Mo.(U) ev. 30s. Radar reflector.
	-RACON		U(••-)				(3cm).
21745 F 1628.3	-Oil terminal, N. dolphin.	2° 15.3' N 102° 06.9' E	FR.				
21745.2 F 1628.35	-Berth 4.	2° 14.8' N 102° 07.3' E	Q.G.				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-WEST COAST							
21745.4 <i>F 1628.4</i>	-Berth 3.	2° 14.5' N 102° 07.5' E	Q.R.				
21745.6 <i>F 1628.45</i>	-S. dolphin.	2° 14.3' N 102° 07.7' E	F.R.				
21746 <i>F 1627.6</i>	Sungai Baru.	2° 21.2' N 102° 02.0' E	Fl.R. period 4s	36 11	5	Beacon, white square daymark.	
21746.5 <i>F 1627.9</i>	Telok Gong intake.	2° 19.9' N 102° 02.7' E	Fl.Y. period 5s	36 11	7	Yellow column, piles.	
21747 <i>F 1627.8</i>	Bu Tengah.	2° 21.2' N 101° 59.1' E	Fl.(4)W. period 6s	26 8	5		
21748 <i>F 1626</i>	Tanjong Tuan.	2° 24.4' N 101° 51.1' E	Fl.(3)W. period 15s	388 118	23	White round concrete tower; 79.	
21748.5 <i>F 1625</i>	-N.	2° 27.8' N 101° 50.7' E	Fl.(4)W. period 15s	26 8	5	White column.	
21749 <i>F 1627</i>	Kuala Linggi, outer.	2° 22.0' N 101° 57.3' E	Fl.(2)W. period 10s	26 8	5	White round concrete beacon.	
21750 <i>F 1627.4</i>	-Inner.	2° 23.5' N 101° 58.3' E	Fl.(2)G. period 10s	10 3	5	White round concrete beacon.	
21752 <i>F 1623</i>	Port Dickson.	2° 31.2' N 101° 47.8' E	Fl.R. period 4s	20 6	7	Black metal pile, red column, platform.	
21756 <i>F 1623.6</i>	Port Dickson Intake, seaward end.	2° 31.8' N 101° 47.2' E	Fl.W. period 5s	16 5	5	Metal post.	
21760 <i>F 1622.5</i>	Arang.	2° 30.8' N 101° 47.2' E	Fl.W. period 8s	59 18	8	ISOLATED DANGER BRB, articulated beacon, topmark.	
21764 <i>F 1622</i>	Pulau Arang, SW. side.	2° 30.9' N 101° 47.7' E	Fl.W. period 10s fl. 0.4s, ec. 9.6s	90 27	9	White metal framework tower.	Visible 289°-138°30'.
21768 <i>F 1621.5</i>	-Kuala Lukut.	2° 33.6' N 101° 47.6' E	Fl.W. period 5s	26 8	8	White platform, concrete pile.	Fishing light.
21770 <i>F 1621</i>	Sungai Chuah.	2° 36.2' N 101° 45.4' E	Fl.W. period 15s	26 8	8	White square concrete tower.	Fishing light.
21771 <i>F 1620.5</i>	Sepang Outer.	2° 32.9' N 101° 43.9' E	Fl.G. period 2s	49 15	7	White metal framework tower, green triangular daymark point up.	
21772 <i>F 1620</i>	Kuala Sepang Besar.	2° 35.0' N 101° 42.8' E	Q.W.	61 19	8	White metal framework tower, white square daymark.	
21773 <i>F 1620.3</i>	-Jimah.	2° 34.1' N 101° 43.9' E	Fl.W. period 3s	33 10	10	White column, piles.	
21773.5 <i>F 1619.7</i>	Bambek Shoal.	2° 32.6' N 101° 40.7' E	Fl.W. period 5s	26 8	8	Pile, white platform.	
21774 <i>F 1619.4</i>	Sepat.	2° 33.9' N 101° 23.4' E	Q.W.	46 14	15	N. CARDINAL BY, beacon, topmark.	
	RACON		C(- • - •)				(3cm).
21776 <i>F 1619</i>	Tanjung Gabang.	2° 40.9' N 101° 29.0' E	Fl.W. period 4s	92 28	16	Round concrete tower, piles.	
21780 <i>F 1614</i>	Bukit Jugra.	2° 50.1' N 101° 25.0' E	Fl.W. period 10s	479 146	24	White round concrete tower; 82.	
21782 <i>F 1614.5</i>	Kuala Langat.	2° 48.1' N 101° 24.1' E	Fl.G. period 5s	13 4	8	Pile, green square daymark.	
21784 <i>F 1616</i>	One Fathom Bank.	2° 53.3' N 100° 59.7' E	Fl.(4)W. period 20s	141 43	23	White round metal tower, red bands, concrete piles.	
	RACON		O(- - -)		20		(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-WEST COAST							
21788 <i>F 1617</i>	Beacon, 9.4 km. SW. of One Fathom Bank.	2° 49.3' N 100° 56.2' E	Q.(6)+L.FI.W. period 15s	43 13	11	S. CARDINAL YB, articulated beacon, topmark.	Radar reflector.
21792 <i>F 1617.2</i>	Beacon, 10.5 km. SW. of One Fathom Bank.	2° 48.6' N 100° 56.5' E	Q.W.	43 13	11	N. CARDINAL BY, articulated beacon, topmark.	Radar reflector.
	RACON		M(- -)		20		(3cm).
21794 <i>F 1617.4</i>	Beacon, 13.8 km. SW. of One Fathom Bank.	2° 48.9' N 100° 53.7' E	FI.Y. period 10s fl. 1s, ec. 9s	38 12	13	SPECIAL Y, articulated beacon, "X" topmark.	Radar reflector.
21795 <i>F 1616.5</i>	One Fathom Bank North.	3° 00.8' N 100° 51.9' E	FI.W. period 3s	98 30	15	White round tower, piles.	
	RACON		T(-)				(3cm).
21800 <i>F 1612</i>	Tanjung Tenteram.	3° 00.0' N 101° 12.5' E	FI.R. period 3s	33 10	6	White column, piles, red square daymark.	
21804	Tanjung Rhu.	2° 50.4' N 101° 17.0' E	FI.W. period 5s	95 29	10	White round tower on piled platform.	
21806 <i>F 1609</i>	Tanjang Mahang Range, front.	2° 54.9' N 101° 16.0' E	Q.W.	62 19	10	White framework tower, concrete base, white triangular daymark point up.	
21806.1 <i>F 1609.1</i>	-Rear, 200 yards 011°25' from front.	2° 55.0' N 101° 16.0' E	Iso.R. period 4s	85 26	8	White framework tower, concrete base, white triangular daymark point down.	
21808 <i>F 1608</i>	-First Point Beacon No 28.	2° 55.2' N 101° 16.6' E	FI.R. period 4s fl. 0.5s, ec. 3.5s	36 11	5	White column, piles, red square topmark.	Visible 222°-032°.
21816 <i>F 1606</i>	No 25.	2° 58.5' N 101° 18.5' E	FI.(2)R. period 15s	23 7	8	Pile, red square daymark.	
21820 <i>F 1594</i>	-Tanjong Sarang Lang No 24.	3° 00.0' N 101° 20.3' E	FI.(2)W. period 10s	85 26	5	Metal framework tower, white square daymark; 82.	F.Y. lights mark NE. and SW. end on terminal 0.85 mile S.
	-Port Kelang (Swettenham):						
21826 <i>F 1597</i>	--Marine Department Signal Station.	3° 00.1' N 101° 23.4' E	FI.R.	92 28	5	Building.	
21828 <i>F 1604</i>	--Beacon No 17 Range, front.	2° 59.0' N 101° 23.6' E	FI.W. period 3s	13 4	8	Concrete piles, white triangular daymark point up.	Marks W. limit of prohibited anchorage.
21832 <i>F 1604.1</i>	---Rear, No 16, 21 meters 168° from front.	2° 59.1' N 101° 23.7' E	FI.G. period 4s	17 5	8	Concrete piles, white triangular daymark point up.	
21834 <i>F 1595</i>	-Tanjung Harapan.	3° 00.0' N 101° 21.9' E	FI.R. period 5s	36 11	5	White column, red square daymark.	
21836 <i>F 1592</i>	-Beacon No 20A Range, front.	2° 59.7' N 101° 21.7' E	Q.W.	26 8	10	White structure.	
21840 <i>F 1592.1</i>	--Rear No 19A, 145 meters 153°58' from front.	2° 59.7' N 101° 21.8' E	FI.G. period 2s	39 12	11	White structure.	
21846 <i>F 1591</i>	-Coal and Oil Jetty, N. head.	3° 06.6' N 101° 18.6' E	FI.R. period 5s				
21846.2 <i>F 1591.2</i>	--S. head.	3° 06.5' N 101° 18.7' E	FI.R. period 5s				
21848 <i>F 1586</i>	-Pulau Angsa.	3° 11.2' N 101° 13.0' E	FI.W.R. period 10s	118 36	W. 22 R. 15	White round concrete tower; 36.	W. 145°-315°, R-145°. Partially obscured 323°30'-010°30' by F.R. 28m close by.
21851 <i>F 1584</i>	-Batuan Penyu.	3° 13.8' N 101° 12.7' E	FI.(2)W. period 5s	20 6	10	White column, piles.	
	-RACON		P(• - - •)				(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-WEST COAST							
21856 F 1585	-Kuala Sungai Buloh.	3° 15.1' N 101° 16.9' E	Fl.W. period 3s	46 14	8	White column, piles.	
21860 F 1578	Kuala Selangor.	3° 20.5' N 101° 14.7' E	Fl.(2)W. period 15s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 10.8s	238 73	18	White round metal tower, masonry base; 89.	
21861 F 1580	Permatang Angsa.	3° 20.0' N 101° 00.0' E	Q.W.	72 22	15	N. CARDINAL BY, beacon, topmark.	
21862 F 1579	-Kuala Sungai.	3° 18.5' N 101° 13.0' E	Fl.W. period 6s	42 13	8	White column, piles.	
21864 F 1576	Sungai Haji Durani.	3° 38.3' N 101° 01.1' E	Fl.W. period 5s	39 12	9	White concrete column; 30.	Fishing light.
21866 F 1577	Kuala Si Tengi.	3° 23.1' N 101° 09.9' E	Fl.R. period 5s	26 8	5	White structure.	
21868 F 1576.4	Sungai Tengorak.	3° 26.8' N 101° 07.9' E	Fl.W. period 3s	36 11	9	White concrete column; 30.	Fishing light.
21874 F 1576.2	Kuala Sg. Sekinchan.	3° 29.8' N 101° 05.4' E	Fl.G. period 4s	36 11	5	White column, piles, green triangular daymark point up.	
21875 F 1575.5	-Outer.	3° 38.6' N 100° 58.2' E	Fl.R. period 4s	36 11	5	Beacon, red square daymark.	
21876 F 1574.6	Sungai Burong.	3° 41.2' N 100° 55.6' E	Fl.W. period 3s	39 12	8	White column, piles.	
21878 F 1574.4	Sungai Pulau.	3° 43.5' N 100° 54.6' E	Fl.(2)G. period 5s	38 12	5	Green platform, piles.	
21880 F 1574.3	Kuala Bernam.	3° 45.5' N 100° 52.0' E	Fl.R. period 4s	39 12	5	White column, piles.	Fishing light.
21884 F 1573.5	Kuala Bernam.	3° 51.3' N 100° 49.2' E	Fl.W. period 4s	46 14	10	White round tower, platform.	
21888	-Fairway Lighted Buoy.	3° 49.0' N 100° 46.0' E	L.Fl.W. period 10s			SAFE WATER RW, spherical.	
21892 F 1573	-Sungai Belukang.	3° 51.1' N 100° 44.9' E	Q.W.	33 10	10	Tower.	Fishing light.
21896 F 1572	Sungai Tiang.	3° 54.3' N 100° 42.2' E	Fl.W. period 5s	26 8	8	White structure.	
21898 F 1566	Pulau Jarak.	3° 58.6' N 100° 05.9' E	Fl.(2)W. period 15s	531 162	20	White metal framework tower, red bands.	
21900 F 1565	White Rock.	4° 00.3' N 100° 30.5' E	Fl.(2)W. period 10s	70 21	15	Metal framework tower, concrete base; 39.	
KUUALA PERAK:							
21904	-Fairway lighted buoy.	4° 03.5' N 100° 39.5' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	
21908 F 1569	-Began Datoh.	3° 59.5' N 100° 47.1' E	Fl.R. period 12s	33 10	7	Mast.	
21909 F 1570	-Kota Setia.	4° 01.3' N 100° 52.2' E	Fl.W. period 6s		10	Beacon.	
21911	<i>Tapis Oil Field SPM RACON.</i>	4° 08.0' N 105° 07.7' E	T(-)				
LUMUT:							
21912 F 1558.5	-Pulau Katak.	4° 09.3' N 100° 37.1' E	Fl.W.R.G. period 15s	115 35		White brick tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-WEST COAST							
21914 F 1558.9	Fairway Rock.	4° 07.6' N 100° 33.6' E	Fl.W. period 8s		10		
21915 F 1558.3	-Vale Malaysia Mineral Project, jetty, N.	4° 09.6' N 100° 35.8' E	Q.(3)G. period 10s		10	Green beacon.	
21915.1 F 1558.4	---S.	4° 09.3' N 100° 36.0' E	Q.(3)R. period 10s		10	Red beacon.	
21915.2 F 1558.7	-Lekir Bulk Terminal, L4.	4° 08.8' N 100° 37.3' E	Fl.Y. period 5s		5	Dolphin.	
21915.3 F 1558.73	--L5.	4° 08.5' N 100° 37.5' E	Fl.Y. period 5s		5		
21915.4 F 1558.76	--L6.	4° 08.9' N 100° 37.8' E	Fl.Y. period 5s		5		
-Selat Dinding - S. Entrance:							
21916 F 1560	--South East Point, on Pulau Pangkor.	4° 11.3' N 100° 34.9' E	Fl.(2)W. period 4s	33 10	8	White round concrete tower; 16.	
21920 F 1560.2	-Hospital Rock.	4° 12.9' N 100° 34.7' E	Fl.R. period 6s fl. 0.5s, ec. 5.5s	16 5	5	White stone column; 7.	
21921 F 1560.5	--Muroh.	4° 13.3' N 100° 35.1' E	FR.	38 12	5	Pile platform, white column, red square daymark.	
21922 F 1560.6	--Batu Gajah.	4° 13.3' N 100° 35.8' E	Q.W.	30 9	3	White post, triangular daymark point up.	
21924 F 1554	-Tanjung Hantu.	4° 18.5' N 100° 33.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	98 30	13	White tower; 20.	
-Selat Dinding - N. Entrance:							
21928 F 1554.9	--Dinding, NW. Entrance Range, front, 1482 meters 307°57' from common rear.	4° 14.7' N 100° 34.9' E	Fl.(2)G. period 5s		6	Black and white checkered tower, red square daymark.	
21932 F 1555	---Common rear.	4° 14.2' N 100° 35.5' E	Iso.W. period 4s	33 10	7		Visible 117°54'-137°54'.
21936 F 1555.1	--River Rock, N. Channel Range, front, 820 meters 332°10' from common rear.	4° 14.6' N 100° 35.3' E	Fl.W.R.G. period 3s	26 8	W. 7 R. 4 G. 4	White tower.	W. 150°12'-154°12', R.-332°, G.-150°12'.
21940 F 1557	--Batu Mandi.	4° 16.0' N 100° 33.0' E	Q.W.	23 7	5	Framework tower; 23.	Fishing light.
21944 F 1559	--S. entrance Range, front.	4° 17.3' N 100° 34.2' E	Fl.(3)W. period 20s	36 11	9	White tower, black bands.	
21948 F 1559.1	---Rear, 1852 meters 351°12' from front.	4° 18.4' N 100° 34.0' E	Fl.W. period 3s	53 16	10	White tower.	
21960 F 1558	--Tanjung Awang Kecil.	4° 15.2' N 100° 33.8' E	Fl.W. period 5s	23 7	6	White tower.	Fishing light.
21964.5 F 1560.9	--Lloyd Rock.	4° 15.4' N 100° 35.1' E	Q.R.	33 10	8	White column, piles, red square daymark.	
-Sungai Dinding:							
21965 F 1562	--River Passage Range, front.	4° 14.1' N 100° 37.6' E	Fl.(3)W. period 20s	30 9	8	White tower, black bands.	Visible 108°-120°.
21965.5 F 1562.1	---Rear, 250 meters 114°18' from front.	4° 14.0' N 100° 37.7' E	Q.W.	39 12	6	White tower.	Visible 108°-120°.
21966 F 1562.4	--Lumut Naval Base, W. breakwater, head.	4° 14.3' N 100° 36.6' E	Oc.G. period 6s			White metal pole, red bands.	
21966.5 F 1562.5	---E. head.	4° 14.3' N 100° 36.8' E	Oc.R. period 6s			White metal pole, red bands.	3 F.Y. 7m 4M mark dolphins 0.5 mile SE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-WEST COAST							
21967 <i>F 1563</i>	--Lumut Pier.	4° 14.2' N 100° 37.9' E	F.R.				
21967.5 <i>F 1563.5</i>	--MFM jetty.	4° 15.8' N 100° 39.4' E	Fl.Y. period 5s	16 5	3	Yellow post, dolphin.	
21968 <i>F 1553.2</i>	Palau Talang.	4° 25.3' N 100° 34.5' E	Fl.W. period 7s	69 21	8	Beacon.	
21970 <i>F 1552.5</i>	Kuala Beruas.	4° 26.7' N 100° 37.0' E	Fl.(2)W. period 10s	72 22	8	White tower, red bands.	
21972 <i>F 1552</i>	Kuala Jurum Mas.	4° 32.2' N 100° 37.7' E	Fl.W. period 4s	30 9	8	White column, piles; 20.	Fishing light.
21976 <i>F 1550</i>	Bagan Kuala Larut.	4° 47.0' N 100° 33.1' E	L.Fl.W. period 10s fl. 2s, ec. 8s	22 7	8	Black metal framework tower, white stripes, piles; 13.	Fishing light.
21980 <i>F 1546</i>	Kuala Kurau, entrance.	4° 59.4' N 100° 24.7' E	Fl.W. period 4s	23 7	8	White framework tower, concrete base; 30.	Fishing light.
21984 <i>F 1544</i>	Tg. Piandang.	5° 05.0' N 100° 21.5' E	Fl.W. period 3s	30 9	8	White metal framework tower, concrete base, piles.	Fishing light.
21988 <i>F 1543</i>	Sungei Chenaam.	5° 07.9' N 100° 23.0' E	Fl.G. period 5s	42 13	5	White tower, piles.	Fishing light.
21990 <i>F 1542.5</i>	Kuala Sungai Kerian.	5° 10.6' N 100° 24.9' E	F.R. period 3s	34 10	5	White piled structure, red square daymark.	
PINANG:							
21992 <i>F 1540</i>	-Pulau Rimau.	5° 14.7' N 100° 16.5' E	Fl.(2)W. period 10s	129 39	10	White metal tower; 56.	Fl.Y. 7m 5M lights mark Anchoring Prohibited area to NE.
21996 <i>F 1540.6</i>	-Kuala Jalan Baru.	5° 20.9' N 100° 11.5' E	Fl.(2)W. period 5s	41 12	8	White column, piles.	Fishing light.
21998 <i>F 1540.3</i>	-Pulau Betung.	5° 18.6' N 100° 11.5' E	Fl.W. period 5s	20 6	8	White pillar.	
21999 <i>F 1540.8</i>	-Sungai Pinang.	5° 23.5' N 100° 11.4' E	Fl.W. period 4s	26 8	10	White square concrete column.	Fishing light. Occasional.
22000 <i>F 1538</i>	-Teluk Tempoyak Kecil, AVIATION LIGHT.	5° 16.2' N 100° 16.5' E	F.R. period 2s	519 158	12		Obstruction.
22004 <i>F 1538.4</i>	-Teluk Tempoyak Besar, AVIATION LIGHT.	5° 15.7' N 100° 16.7' E	F.R. period 2.4s	692 211	12		Obstruction.
22005 <i>F 1537.5</i>	-SC 1.	5° 17.9' N 100° 17.9' E	Fl.Y. period 5s	39 12	5	Yellow column, piles.	
22005.1 <i>F 1537.3</i>	-SC 2.	5° 17.4' N 100° 18.5' E	Fl.Y. period 10s	39 12	5	Yellow column, piles.	
22005.2 <i>F 1537</i>	-SC 3.	5° 18.4' N 100° 20.4' E	Fl.Y. period 10s	26 8	5	Yellow column, piles.	
22005.3 <i>F 1537.1</i>	-SC 4.	5° 17.7' N 100° 19.6' E	Fl.Y. period 5s	39 12	5	Yellow column, piles.	
22005.4 <i>F 1536.3</i>	-SC 5.	5° 18.5' N 100° 21.5' E	Fl.Y. period 5s	39 12	5	Yellow column, piles.	
22005.5 <i>F 1536.5</i>	-SC 6.	5° 18.0' N 100° 21.8' E	Fl.Y. period 10s	26 8	5	Yellow column, piles.	
22005.6 <i>F 1536.1</i>	-SC 7.	5° 18.9' N 100° 24.1' E	Fl.Y. period 10s	23 7	5	Yellow column, piles.	
22005.7 <i>F 1536.7</i>	-SC 8.	5° 18.4' N 100° 24.3' E	Fl.Y. period 5s	23 7	5	Yellow column, piles.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-WEST COAST							
22006 F 1536	-Pulau Jerijak.	5° 19.5' N 100° 19.0' E	Fl.R. period 2.4s	712 217		Beacon.	Obstruction.
22008 F 1532	-Great Kra Flat Range, front.	5° 20.2' N 100° 21.1' E	Fl.W. period 3s fl. 0.8s, ec. 2.2s	30 9	8	Beacon, triangular daymark point up.	Visible 034°-064°.
22012 F 1532.1	--Rear, 580 meters 044°36' from front.	5° 20.5' N 100° 21.3' E	Q.W.	52 16	8	Beacon, triangular daymark point down.	Visible 035°-065°.
22016 F 1529	-Owen Beacon.	5° 19.8' N 100° 20.9' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	46 14	5	Green pile beacon, round daymark.	
22020 F 1527	-Great Kra Flat South Range, front.	5° 19.4' N 100° 20.6' E	Fl.W. period 3s fl. 1s, ec. 2s	23 7	10	White column, piles, white triangular daymark point up, black stripe.	Visible 090°-270°.
22024 F 1527.1	--Rear, 570 meters 185°02' from front.	5° 19.0' N 100° 20.6' E	Q.W.	38 12	10	White column, piles, white triangular daymark point down, black stripe.	Visible 090°-270°.
22031 F 1523.5	-Bulk Cargo Terminal.	5° 22.0' N 100° 22.0' E	Oc.W.R.G. period 5s	39 12	W. 10 R. 8 G. 8	Red beacon, white bands, red triangular daymark point up.	G. 163°-166°36', W.-169°18', R.-173°.
22032 F 1519	-Sungai Perai, jetty.	5° 23.0' N 100° 22.2' E	Fl.W.	20 6			
22034 F 1519.5	-Sungai Perai.	5° 23.1' N 100° 22.5' E	Iso.W.R.G. period 4s	48 15	W. 10 R. 5 G. 5	White concrete beacon, red bands.	G. 061°-063°, W.-065°, R.- 067°.
22036 F 1522	-Light A.	5° 22.5' N 100° 21.9' E	Q.W.			Dolphin.	
22040 F 1523	-Light D.	5° 22.4' N 100° 21.9' E	Q.R.			Dolphin.	
22052 F 1514	-Naval and Petroleum anchorage.	5° 25.5' N 100° 22.5' E	Fl.R. period 3s	46 14	5	Beacon, white round daymark.	Visible 090°-180°.
22053	-Container terminal, N. head.	5° 24.9' N 100° 21.6' E	Fl.(3)R. period 5s				
22053.5 F 1515.2	--S. head.	5° 24.7' N 100° 21.6' E	Fl.(3)G. period 5s				
22056 F 1494	-Fort Point.	5° 25.3' N 100° 20.6' E	Fl.R. period 2s fl. 0.4s, ec. 1.6s	87 27	16	White metal framework tower on NE tower of fort; 69.	F.G. shown from N. and F.R. from S. end of Swetterham pier. 2 F.G. shown from Church Street pier.
22060	-Aston Beacon.	5° 24.3' N 100° 20.7' E	Q.W.	33 10	8	White column, piles, black double cone daymark points up.	
22064 F 1524	-North limit of Prohibited Anchorage, No 3 Range, front.	5° 22.8' N 100° 20.1' E	Fl.G.			Black and white beacon, square daymark.	
22068 F 1524.1	--Rear, No 2 about 914 meters 279° from front.	5° 22.9' N 100° 19.6' E	Fl.G.			Black and white beacon, square daymark.	
22072 F 1525	-South limit of Prohibited Anchorage, PGB 7 Range, front.	5° 22.4' N 100° 19.9' E	Fl.G. period 5s	39 12	5	White column, piles, green triangular daymark point up.	
22076 F 1525.1	--Rear, PGB 6 about 700 meters 279° from front.	5° 22.5' N 100° 19.6' E	Fl.G. period 2s	39 12	5	White column, piles, green triangular daymark point up.	
22088 F 1486	-Muka Head.	5° 28.4' N 100° 10.8' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	795 242	25	White granite tower; 46.	
22092 F 1490	Pulau Tikus.	5° 28.6' N 100° 17.8' E	Fl.W. period 3s fl. 1s, ec. 2s	49 15	10	White stone column; 23.	Visible 097°48'-318°36'.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-WEST COAST							
22100 F 1483	Kuala Muda.	5° 34.4' N 100° 20.4' E	Fl.W. period 3s	33	10	White column, piles.	
22104 F 1482	-Tg. Dawai.	5° 40.9' N 100° 21.8' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s	22	10	White square tower, piles.	
22108 F 1480	Yen.	5° 49.4' N 100° 22.0' E	Fl.W. period 6s	26	5	White concrete structure.	Fishing light.
22112 F 1479	Sungai Tabangau Entrance.	5° 58.2' N 100° 21.1' E	Fl.W. period 4s	30	4	White concrete mast.	Fishing light.
22116 F 1478	Sungai Kedah.	6° 06.6' N 100° 17.1' E	Fl.(2)W. period 10s	50	5	White tower.	
22117 F 1478.3	Kuala Kedah, 1G.	6° 05.8' N 100° 16.0' E	Q.G.	16	5	Green column, piles.	
22117.5 F 1478.4	-2R.	6° 05.2' N 100° 14.8' E	Q.R.	16	5	Red column, piles.	
22118 F 1475	Kuala Jerlun.	6° 12.3' N 100° 14.0' E	Fl.G. period 3s	33	5	White column, green triangular daymark point up.	
22120 F 1474	Sungai Sanglang.	6° 14.9' N 100° 11.4' E	Fl.W. period 8s	33	8	White column, piles.	
22122 F 1477.6	P. Singa Besar, T. Pak Kehar.	6° 11.7' N 99° 44.9' E	Fl.W. period 10s	79	10	Concrete structure, white square daymark.	
22123 F 1477.3	Pulau Kedera.	6° 15.4' N 99° 46.3' E	Fl.W. period 5s	260	15	White fiberglass tower.	
22124 F 1476	Pulau Enggang.	6° 14.6' N 99° 52.6' E	Fl.W. period 8s	197	15	Red metal framework tower, white bands, concrete base; 36.	
22124.5 F 1477.7	Pulau Rebak Besar.	6° 17.5' N 99° 41.4' E	Oc.R.			Beacon.	
22125 F 1476.4	Pulau Langkawi, SE. side.	6° 19.2' N 99° 53.0' E	Fl.G. period 5s	26	5	Metal pipe, white daymark.	
22126 F 1476.5	Pulau Timun, Tg Asam.	6° 18.7' N 99° 53.1' E	Fl.W. period 3s	33	8	Metal pipe, white daymark.	
22126.5 F 1476.6	-Tg. Penarak.	6° 18.4' N 99° 52.5' E	Fl.G. period 3s	22	5	Metal pipe, white daymark.	
22127 F 1476.7	-Pulau Bumbon Besar.	6° 17.4' N 99° 51.7' E	Fl.R. period 4s	33	4	Metal pipe, white daymark.	
22130 F 1476.3	Pulau Sigal.	6° 19.5' N 99° 55.6' E	Fl.W. period 5s	91	15	Beacon, triangular daymark point up.	
22131 F 1476.23	Teluk Apau, No 1.	6° 22.0' N 99° 54.6' E	Fl.Y. period 3s	39	5	Yellow column, piles.	
22131.1 F 1476.24	-No 2.	6° 21.6' N 99° 54.7' E	Fl.Y. period 5s	39	5	Yellow column, piles.	
22131.2 F 1476.22	-No 3.	6° 22.2' N 99° 55.5' E	Fl.Y. period 6s	39	5	Yellow column, piles.	
22132 F 1470	Tanjung Chinchin, on Pulau Langkawi.	6° 26.3' N 99° 38.8' E	Fl.(3)W. period 15s	36	10		Temporarily extinguished (1989).
22134 F 1471	Pulau Dangli.	6° 26.9' N 99° 46.6' E	Fl.W. period 10s	282	15		
22138 F 1472	Kuala Perlis.	6° 24.1' N 100° 05.9' E	Fl.(2)W. period 5s	30	9	White beacon.	
22138.1 F 1472.11	-No 1.	6° 23.7' N 100° 07.3' E	Fl.Y. period 5s	39	5	Yellow column, piles.	
22138.2 F 1472.12	-No 2.	6° 23.1' N 100° 07.5' E	Fl.Y. period 10s	39	5	Yellow column, piles.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-WEST COAST							
22140 <i>F 1473</i>	Sungai Baharu.	6° 20.0' N 100° 09.4' E	Fl.W. period 4s	25 8	8	White square concrete tower; 26.	Fishing light.
THAILAND-WEST COAST							
22144 <i>F 1194</i>	Ko Yao.	6° 28.0' N 100° 04.3' E	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	282 86	15	White brick tower; 26.	
22148 <i>F 1193.8</i>	Tanjong Pauh.	6° 29.7' N 100° 05.1' E	Fl.(3)W. period 3s	56 17	8	White metal framework tower; 49.	
22152 <i>F 1192.4</i>	Ko Palai.	6° 30.0' N 99° 10.8' E	Fl.(2)W. period 12s fl. 1.5s, ec. 2s fl. 1.5s, ec. 7s	151 46	16	White metal framework tower; 72.	
22156 <i>F 1192.5</i>	Ko Tanga.	6° 33.3' N 99° 26.6' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	322 98	11	White metal framework tower; 72.	
22160 <i>F 1193</i>	Tanyong Po.	6° 37.1' N 99° 56.9' E	Fl.(2)W. period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 10s	135 41	8	White framework tower; 52.	
22168 <i>F 1188</i>	Ko Bulaobot.	7° 04.5' N 99° 23.6' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	135 41	16	White brick tower; 36.	
22172 <i>F 1186</i>	Yongsata, N. bank.	7° 06.9' N 99° 40.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	157 48	10	White metal framework tower; 59.	
22176 <i>F 1184</i>	Ko Nok.	7° 16.3' N 99° 28.5' E	Fl.W. period 3s fl. 0.2s, ec. 2.8s	39 12	10	White metal framework tower; 26.	
22177 <i>F 1184.5</i>	-Ban Na Klua Nua, front.	7° 21.6' N 99° 28.9' E	Fl.R. period 3s	62 19	10		
22177.1 <i>F 1184.6</i>	--N., rear.	7° 21.9' N 99° 28.8' E	Iso.W. period 4s	135 41	13		
22178 <i>F 1184.8</i>	-Ko Kho, front.	7° 23.6' N 99° 30.3' E	Fl.G. period 3s	46 14	10		
22178.1 <i>F 1184.9</i>	--E., rear.	7° 23.7' N 99° 30.4' E	Iso.W. period 3s	62 19	13		
22179 <i>F 1185.1</i>	-Sawmill, front.	7° 24.1' N 99° 30.1' E	Fl.Y. period 4s	46 14	12		
22179.2 <i>F 1185.2</i>	--N., rear.	7° 24.1' N 99° 30.1' E	Iso.W. period 5s	52 16	13		
22179.4 <i>F 1185.4</i>	-Ban Hua Hin, front.	7° 24.4' N 99° 30.2' E	Fl.R. period 4s	43 13	10		
22179.6 <i>F 1185.5</i>	--N., rear.	7° 24.5' N 99° 30.2' E	Iso.W. period 3s	49 15	13		
22180 <i>F 1183</i>	Ko Lanta Yai.	7° 28.2' N 99° 05.9' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	118 36	10	White concrete tower; 36.	
22181 <i>F 1182.8</i>	Ko Ma.	7° 36.9' N 98° 51.9' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	259 79	10	White framework tower; 20.	

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THAILAND-WEST COAST							
22182	Laem Phra Chao.	7° 45.6' N 98° 18.3' E	Fl.W. period 9s fl. 0.2s, ec. 8.8s	312 95	22	White concrete tower; 62.	
22184 <i>F 1170</i>	Ko Kaeo Noi.	7° 44.1' N 98° 17.9' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	171 52	10	White concrete tower; 39.	
22188 <i>F 1174</i>	Ko Taphao Noi.	7° 49.9' N 98° 25.4' E	Fl.(2)W. period 20s	220 67	20	White concrete tower; 39.	
22189 <i>F 1174.3</i>	Laem Phan Wa.	7° 48.0' N 98° 24.6' E	Fl.(3)W.R. period 15s	167 51	23		
22189.1 <i>F 1174.5</i>	-SW, pier, Laem Phan Wa.	7° 47.9' N 98° 24.4' E	Fl.W. period 5s	16 5	6	White beacon; 13.	
22189.3 <i>F 1174.6</i>	-Entrance Range A, front.	7° 49.5' N 98° 24.2' E	Fl.Y. period 3s	102 31	21	White beacon, white diamond daymark.	
22189.31 <i>F 1174.61</i>	--B, rear, about 260 meters 332°06' from front.	7° 49.6' N 98° 24.2' E	Iso.Y. period 4s	105 32	21	White beacon, white diamond daymark.	
22190 <i>F 1175</i>	Ko Phuket, Laem Tukkae.	7° 52.2' N 98° 25.0' E	Fl.Y. period 4s	20 6	7		2 Fl.R. lights 0.4 mile and 0.6 mile NNW.
22190.2 <i>F 1175.2</i>	-Khlong Tha Chin Range, front.	7° 52.6' N 98° 24.9' E	Fl.R. period 5s			White beacon, white diamond daymark.	
22190.4 <i>F 1175.4</i>	-Harbor, rear, 000° from front.	7° 52.8' N 98° 24.9' E	Iso.W. period 4s			White beacon, white diamond daymark.	
KRABI:							
22191 <i>F 1182.6</i>	-Khlong Siboya Entrance Range, front, 7A.	7° 56.3' N 98° 59.3' E	Fl.W. period 3s		8	White beacon, diamond daymark.	
22191.5 <i>F 1182.601</i>	--Rear, 7B, 1204 meters 075°30' from front.	7° 56.5' N 98° 59.9' E	Iso.W. period 3s		10	White beacon, diamond daymark.	
22192 <i>F 1182</i>	-Ko Nok.	8° 01.8' N 98° 54.4' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	79 24	7	White metal framework tower; 69.	
22193	-Entrance Range A, front.	8° 01.9' N 98° 54.0' E	Fl.R. period 3s			White beacon, diamond shaped daymark.	
22193.1	--B, rear, 000° from front.	8° 02.3' N 98° 54.0' E	Iso.W. period 3s			White beacon, diamond shaped daymark.	
22194	-Channel Range C, front.	8° 02.7' N 98° 54.4' E	Iso.W. period 3s			White beacon, diamond shaped daymark.	
22194.1	--D, rear, 018° from front.	8° 02.8' N 98° 54.5' E	Fl.R. period 3s			White beacon, diamond shaped daymark.	
22196 <i>F 1178</i>	Ko Nom Sao Noi.	8° 18.7' N 98° 31.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	89 27	7	White concrete tower; 7.	
22200 <i>F 1168</i>	Ko Similan Island.	8° 38.1' N 97° 38.9' E	Fl.(3)W. period 20s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 15.2s	561 171	17	White metal framework tower; 98.	
22204 <i>F 1166</i>	Ko Ra, N. point.	9° 15.9' N 98° 18.4' E	Fl.(3)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	128 39	13	White brick tower; 30.	
22208 <i>F 1165</i>	Ko Luk Kham Tai.	9° 27.3' N 98° 19.8' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s	253 77	15	White metal framework tower; 49.	

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THAILAND-WEST COAST							
22212 <i>F 1164</i>	Ko Chi.	9° 28.7' N 97° 54.3' E	Fl.W. period 10s fl. 1s, ec. 9s	377 115	15	White metal framework tower; 49.	
22214 <i>F 1167</i>	Ban Thap Lamu.	8° 35.2' N 98° 13.1' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	233 71	15	White metal framework tower; 102.	
22215 <i>F 1166.8</i>	Hin Khi Nok.	8° 36.2' N 98° 13.9' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	33 10	8	White metal structure, concrete base; 19.	
22216 <i>F 1162</i>	Ko Khom.	9° 52.6' N 98° 26.6' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	197 60	9	White brick tower; 36.	
22220 <i>F 1163</i>	Ko Phayam.	9° 44.0' N 98° 22.8' E	Fl.(2)W. period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	210 64	15	White metal framework tower; 49.	
22224 <i>F 1161</i>	Ko Son Thai.	9° 54.1' N 98° 31.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	108 33	10	White metal framework tower; 49.	
PAKCHAN RIVER:							
22228 <i>F 1160</i>	-Ko Phi.	9° 57.7' N 98° 35.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	66 20	7	White metal framework tower; 30.	
22229 <i>F 1159</i>	-Ranong, Custom Pier.	9° 58.9' N 98° 36.0' E	Fl.W. period 4s fl. 1.2s, ec. 2.8s	154 47	10	White octagonal concrete tower, orange roof; 164.	
INDONESIA (SUMATERA-NORTH COAST AND ADJACENT ISLANDS)							
22232 <i>F 1300</i>	Pulau Rondo.	6° 04.4' N 95° 07.1' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	633 193	24	White metal framework tower; 131.	
22234 <i>F 1301</i>	Pulau Benggala.	5° 47.6' N 94° 58.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	92 28	15	White beacon; 49.	
22236 <i>F 1302</i>	Breueh.	5° 45.0' N 95° 03.4' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	524 160	30	Red round stone tower, broad white band; 144.	Visible 083°-288°.
			FR.	433 132	18		Visible 084°-166°.
22238 <i>F 1295</i>	Pulau Bunta.	5° 33.2' N 95° 09.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	197 60	12	Metal framework tower; 131.	
22240 <i>F 1312</i>	Teluk Sabang, Ujun Lho Me.	5° 53.1' N 95° 18.9' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	52 16	7	White metal framework tower; 46.	Obscured when bearing more than 132°.
22244 <i>F 1310</i>	-Pulau Klah.	5° 52.6' N 95° 18.5' E	L.Fl.W. period 30s fl. 7s, ec. 23s	79 24	15	White metal framework; 49.	Visible 109°-192°.
22252 <i>F 1313</i>	-Peuninpun Signal Station.	5° 53.6' N 95° 18.8' E	FR.		12	Mast.	

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INDONESIA (SUMATERA-NORTH COAST AND ADJACENT ISLANDS)							
22256 F 1313.5	-Balohan.	5° 49.6' N 95° 20.8' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	30 9	6	Beacon.	
22258 F 1314	Ujung Seuke.	5° 48.5' N 95° 22.5' E	Fl.W. period 2.5s fl. 0.5s, ec. 2s	279 85	20	White tower.	
22260 F 1308	Le Meule , near Ujung Tapagajah.	5° 53.8' N 95° 20.0' E	Fl.W. period 5s fl. 1s, ec. 4s	95 29	16	White metal framework tower; 82.	Visible 125°-303°.
	RACON		M(- -)				(3 & 10cm).
22268 F 1315	Buro.	5° 41.2' N 95° 23.3' E	L.Fl.W. period 8s	56 17	12	White beacon; 49.	
22272 F 1317	Krueng Raja Baai.	5° 35.8' N 95° 31.6' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	49 15	9	White metal framework; 49.	
22273 F 1296	Palau Deudab, Ug Umpee.	5° 36.4' N 95° 11.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	131 40	10	White fiberglass tower; 33.	Radar reflector.
22276 F 1316	Krueng Raya.	5° 36.8' N 95° 31.9' E	L.Fl.W. period 8s fl. 2s, ec. 6s	115 35	12	White beacon; 39.	
22284 F 1294	Lhonga.	5° 27.1' N 95° 14.3' E	L.Fl.W. period 7s fl. 3s, ec. 4s	56 17	12	Beacon; 23.	Radar reflector.
22286 F 1319	Ujung Pidie.	5° 29.9' N 95° 52.9' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	197 60	41	Metal framework tower; 131.	
22292 F 1320.2	Sigli, approach.	5° 23.0' N 95° 58.0' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	39 12	12	Beacon; 26.	Radar reflector.
22296 F 1293	Pulau Rusa.	5° 16.7' N 95° 12.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	390 119	11	White beacon; 33.	Radar reflector.
22300 F 1321.3	Kruenggeuken, W. breakwater, head.	5° 15.1' N 97° 02.1' E	L.Fl.G. period 10s fl. 2s, ec. 8s	26 8	6	Green metal framework tower; 26.	
22304 F 1321.2	-E. breakwater, head.	5° 15.1' N 97° 02.2' E	L.Fl.R. period 10s fl. 2s, ec. 8s		6	Red metal framework tower.	
22305 F 1321.5	-W. inner breakwater, head.	5° 14.8' N 97° 02.0' E	Fl.G. period 3s		4		
22307.5 F 1321.5	-Kuala Geukuech.	5° 14.5' N 97° 02.0' E	Fl.G. period 3s		4		
22309 F 1321.6	-Public berth.	5° 14.4' N 97° 02.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	62 19	5	Tower; 59.	
22312 F 1321	Geukuch.	5° 14.3' N 97° 02.9' E	Fl.(2)W. period 10s fl. 0.5s, ec. 3s fl. 0.5s, ec. 6s	49 15	12	White beacon.	Radar reflector.
	RACON		C(- • - •)				
22313 F 1321.8	-NE.	5° 14.7' N 97° 03.1' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	16 5	10	Metal framework tower; 16.	
22314 F 1321.1	SPM.	5° 15.2' N 97° 04.2' E	Fl.Y. period 15s		6	Mooring tower.	

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INDONESIA (SUMATERA-NORTH COAST AND ADJACENT ISLANDS)							
22316 F 1323	Blang Lancang E. breakwater.	5° 13.4' N 97° 06.6' E	Fl.(3)R. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	49 15	9	Red beacon; 26.	Radar reflector.
22320 F 1323.2	-W. breakwater.	5° 13.5' N 97° 06.3' E	Fl.(3)G. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	49 15	10	Green beacon; 26.	Radar reflector.
22324 F 1323.4	-Inner breakwater.	5° 13.3' N 97° 06.2' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	49 15	10	Green beacon; 26.	Radar reflector.
22340 F 1322	-Range, front.	5° 12.8' N 97° 06.1' E	Iso.W. period 2s	131 40	15	White beacon, black bands, orange triangular daymark point up; 118.	Radar reflector.
22344 F 1322.1	--Rear, 157 meters 205° from front.	5° 12.7' N 97° 06.1' E	Oc.W. period 8s lt. 6s, ec. 2s	148 45	18	White beacon, red bands, orange triangular daymark point down; 141.	Radar reflector.
22351 F 1323.5	-Range, front.	5° 13.4' N 97° 05.6' E	Q.R.	138 42	8	White beacon, white triangular daymark point up; 125.	
22352 F 1323.51	--Rear, 170 meters 295° from front.	5° 13.5' N 97° 05.5' E	Oc.W.R.G. period 4s lt. 3s, ec. 1s	144 44	W. 12 R. 8 G. 8	White beacon, red bands, orange triangular daymark point down; 144.	W. 000°-278°, R.-301°, G.- 000°.
22356 F 1324	Lhokseumawe.	5° 12.2' N 97° 08.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	72 22	8	White metal framework tower; 66.	Obscured when bearing less than 148°.
22360 F 1326	-Pier, head.	5° 11.5' N 97° 09.0' E	Fl.W. period 10s fl. 2s, ec. 8s	98 30	12	White metal framework tower; 98.	
22364 F 1327	Tanjung Jambuir.	5° 15.0' N 97° 29.7' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	144 44	20	White metal framework tower, white octagonal base; 131.	
	RACON		K(- • -)		20		Azimuth coverage 315°-077°. (3 & 10cm).
22366	Platform NSO-A RACON.	5° 44.3' N 97° 50.6' E	Q(- - • -)				
22367 F 1476.1	Pulau Perak.	5° 41.6' N 98° 56.2' E	Fl.(2)W. period 10s	420 128	16	White concrete tower, black bands.	
22368 F 1327.5	Idi.	4° 56.9' N 97° 46.1' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	66 20	8	White metal framework tower; 66.	
22369 F 1327.8	Ujang Peureula.	4° 53.9' N 97° 53.8' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	39 12	11	White metal framework tower; 33.	
22372 F 1328	Ujung Peureulak.	4° 51.7' N 97° 54.6' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 6.5s	52 16	13	White metal framework tower; 46.	
22374 F 1329	Tualang AVIATION LIGHT.	4° 43.3' N 97° 50.5' E	Oc.W. period 2s lt. 1.3s, ec. 0.7s	400 122		White tower, orange bands; 299.	<i>Reported seen at 23M.</i>
22376 F 1330	-Kuala Langsa Range, front.	4° 33.4' N 98° 04.5' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	26 8	10	White beacon, white triangular daymark point up; 33.	
22380 F 1330.1	-Rear, about 1300 meters 219°54' from front.	4° 32.9' N 98° 04.0' E	Iso.W. period 4s	59 18	12	White beacon, white triangular daymark point down; 59.	
22384 F 1330.5	-Entrance, N.	4° 33.0' N 98° 04.0' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	33 10	6	Beacon, red square daymark.	Radar reflector.

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INDONESIA (SUMATERA-NORTH COAST AND ADJACENT ISLANDS)							
22388 F 1330.6	-Entrance S.	4° 32.5' N 98° 02.7' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	33 10	6	STARBOARD (A) G, beacon, topmark.	Radar reflector.
22392 F 1330.7	-Kuala Beukah.	4° 31.5' N 98° 01.2' E	Fl.(3)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	65 20	12	White metal framework tower; 49.	
22394 F 1334	Ujung Tamiang.	4° 25.2' N 98° 16.9' E	Fl.(3)W. period 20s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 13.5s	144 44	20	White metal framework tower; 131.	
22395 F 1337	Pangkalansusu.	4° 07.1' N 98° 12.2' E	Fl.Y. period 4s fl. 0.5s, ec. 3.5s	23 7	4	SPECIAL Y, beacon, "X" topmark.	
22395.1 F 1337.5	-Panjang.	4° 07.1' N 98° 12.2' E	Fl.Y. period 5s fl. 0.5s, ec. 4.5s	23 7	4	SPECIAL Y, beacon, "X" topmark.	
22400 F 1352	Nipahlarangan.	3° 54.2' N 98° 40.8' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 11.5s	144 44	17	White metal framework tower; 131.	
	RACON		N(- •)		25		
22412 F 1355.9	-Entrance Range, front.	3° 49.7' N 98° 44.3' E	Fl.(3)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2.5s	25 8	12	White metal framework structure; 16.	
22416 F 1356	--Beacon II, rear, 1463 meters 187° from front.	3° 49.3' N 98° 44.2' E	Iso.W. period 6s	56 17	12	Black metal framework tower, white bands; 39.	Common rear for outer and inner ranges.
22417 F 1356.05	---E.	3° 49.4' N 98° 45.3' E	Fl.Y. period 5s	20 6	4	SPECIAL Y, beacon, "X" topmark.	
22420 F 1356.01	-Inner Range, Beacon III, front, about 914 meters 220° from Beacon II.	3° 48.9' N 98° 43.9' E	Q.(2)W. period 3s	39 12	8	White metal framework tower; 16.	
22424 F 1362	-Middle Range Beacon IV, front.	3° 48.0' N 98° 43.4' E	Q.(2)W. period 4s	26 8	8	White metal framework tower; 16.	
22428 F 1362.1	--Lighted Beacon V, rear, 1280 meters 200°30' from front.	3° 47.3' N 98° 43.1' E	Iso.W. period 6s	49 15	7	White framework tower; 39.	Visible 037°-007°.
22429 F 1362.5	-Kuala Deli, entrance.	3° 47.6' N 98° 43.2' E	Fl.G. period 3s	29 9	5	STARBOARD (A) G, beacon, topmark.	
22429.5 F 1362.2	---E.	3° 47.4' N 98° 43.4' E	Fl.Y. period 4s fl. 0.5s, ec. 3.5s	20 6	4	SPECIAL Y, beacon, "X" topmark.	
22430 F 1367	--On shore.	3° 47.0' N 98° 42.9' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	42 13	5	White beacon.	
22441 F 1371	-Pertamina, jetty, E. head.	3° 47.5' N 98° 42.7' E	Q.W.	7 2	5	Dolphin.	
22442 F 1371.2	--W. head.	3° 47.4' N 98° 42.6' E	Fl.R. period 5s	7 2	5	Dolphin, square daymark.	
22444 F 1372	Sei Nonang.	3° 47.5' N 98° 40.9' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	42 13	6	Green beacon, triangular daymark point up; 33.	

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INDONESIA (SUMATERA-NORTH COAST AND ADJACENT ISLANDS)							
SUNGAI ASAHAN:							
22448 F 1373	-Nunang.	3° 47.3' N 98° 40.9' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	36 11	5	Red beacon, square daymark; 26.	
22449 F 1374.5	Tanjung Sibungabunga.	3° 39.1' N 98° 58.9' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	69 21	10	White beacon.	
22450 F 1374	Bunga Banks.	3° 46.6' N 99° 04.3' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	56 17	12	ISOLATED DANGER BRB, beacon, topmark; 33.	Radar reflector.
22452 F 1375	Pulu Berhala.	3° 46.4' N 99° 29.9' E	Fl.(4)W. period 19s fl. 1s, ec. 18s	630 192	30	White metal framework tower; 39.	
22456 F 1375.5	Kuala Bedagai.	3° 30.5' N 99° 13.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15	10	White metal framework tower; 43.	
22458 F 1376.5	Pangkalan Dodek.	3° 24.3' N 99° 19.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	59 18	6	White beacon; 49.	
INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
22460 F 1378	Palau Pandang.	3° 25.4' N 99° 45.5' E	Fl.W. period 5s fl. 1s, ec. 4s	206 63	15	White metal framework tower; 39.	
22462 F 1378.5	Pulau Salahnama.	3° 20.5' N 99° 43.4' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	397 121	12	White beacon; 98.	
22463 F 1378.7	Tg Tiram Range, front.	3° 14.2' N 99° 35.5' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	36 11	12	White beacon, white triangular daymark point up.	
22463.5 F 1378.71	-Rear, 320 meters 164° from front.	3° 14.0' N 99° 35.5' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	49 15	12	White beacon, white triangular daymark point down.	
22464 F 1376	Kuala Tanjung Approach.	3° 23.1' N 99° 29.6' E	Fl.R. period 6s fl. 0.6s, ec. 5.4s	33 10	5	PORT (A) R, beacon, topmark; 16.	F.R. 3 miles SW. Radar reflector.
22468 F 1379	Tandjung Tiram.	3° 14.9' N 99° 35.4' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	36 11	5	Beacon, red square daymark; 33.	
22470 F 1377	Kuala Tanjung.	3° 22.4' N 99° 28.1' E	Q.(3)W. period 9s	39 12	12		
RACON D(- • •)							
22471 F 1379.2	Tg. Tambuntulang.	3° 10.8' N 99° 46.1' E	Fl.(2)W. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	46 14	10	White beacon.	
22480 F 1382	-Outer bar.	3° 02.9' N 99° 52.0' E	Fl.R. period 4s fl. 1s, ec. 3s	58 18	10	Red beacon; 49.	

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INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
22481 <i>F 1379.5</i>	-Entrance Range, front.	3° 01.7' N 99° 51.7' E	Fl.(2)W. period 4s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	43 13	12	White beacon, white triangular daymark point up; 30.	
22481.1 <i>F 1379.51</i>	--Rear, 0.84 mile 180° from front.	3° 00.9' N 99° 51.7' E	Iso.W. period 6s	52 16	12	White beacon, white triangular daymark point down; 39.	
22482 <i>F 1383</i>	-Range, front.	3° 03.2' N 99° 51.7' E	Q.(2)W. period 4s	43 13	12	Beacon, triangular daymark point up; 30.	
22482.1 <i>F 1383.1</i>	--Rear, 0.4 mile 356°41' from front.	3° 03.7' N 99° 51.7' E	Iso.W. period 6s	59 18	12	Metal framework beacon, triangular daymark point down; 39.	
22484 <i>F 1386</i>	Pulau Jemur.	2° 52.8' N 100° 34.1' E	Fl.W. period 5s	151 46	18	White metal framework tower; 79.	Visible 090°-000°.
22484.5 <i>F 1388</i>	Pulau Batu Mandi.	2° 52.2' N 100° 41.1' E	Fl.(2)W. period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	141 43	20	White tower; 131.	
22485 <i>F 1383.8</i>	Tanjung Siapi-api.	2° 56.7' N 100° 01.6' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	46 14	12	White beacon.	
22486 <i>F 1390</i>	Tg. Leiding.	2° 45.6' N 99° 59.5' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	49 15	12	White beacon; 49.	
22487 <i>F 1384.2</i>	Tanjung Datu.	2° 41.3' N 100° 05.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	10	White beacon; 33.	
22488 <i>F 1385</i>	Tanjung Lumbalumba.	2° 31.4' N 100° 08.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	78 24	10	White beacon; 66.	
22489 <i>F 1385.5</i>	Pulau Kantan.	2° 30.7' N 100° 09.8' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	66 20	12	Green beacon.	
22490 <i>F 1400.311</i>	Sinaboi Island, No 1.	2° 20.8' N 101° 05.3' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	35 11	11	STARBOARD (A) G, beacon, topmark.	Radar reflector.
22490.1 <i>F 1400.311-5</i>	-No 2.	2° 20.7' N 101° 10.1' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	35 11	11	PORT (A) R, beacon, topmark.	Radar reflector.
22491 <i>F 1395.2</i>	Paula Burung.	2° 07.0' N 101° 37.4' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	43 13	11	Red beacon.	
22492 <i>F 1395</i>	Tandjung Medang.	2° 07.4' N 101° 39.4' E	Fl.W. period 10s fl. 1s, ec. 9s	171 52	19	White metal tower; 164.	Radar reflector.
22496 <i>F 1395.5</i>	Morong.	1° 55.2' N 101° 46.4' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	108 33	11	Beacon; 82.	
22500 <i>F 1396</i>	Raleigh Shoal.	2° 06.8' N 101° 53.1' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	53 16	13	ISOLATED DANGER BRB, tower, topmark; 43.	Radar reflector.
	RACON		O(---)				
22504	<i>Amelia Bank Buoy.</i>	2° 13.0' N 105° 18.0' E	L.Fl.R. period 12s			PORT (A) R, can, topmark.	

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INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
22508 <i>F 1397</i>	Rob Roy Bank.	1° 54.5' N 102° 03.0' E	Fl.(2)W. period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	52 16	13	ISOLATED DANGER BRB, tower, topmark; 33.	Radar reflector.
	RACON		N(- •)				
22511.1 <i>F 1401.05</i>	Dumai.	1° 41.3' N 101° 25.7' E	Fl.W. period 4s fl. 1s, ec. 3s	92 28	12	White metal framework tower; 82.	
22511.5 <i>F 1401.5</i>	Batu Panjang.	1° 42.3' N 101° 31.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	59 18	12	White beacon.	Radar reflector.
22512 <i>F 1402</i>	Tanjong Lebang Range F, common rear.	1° 41.5' N 101° 48.0' E	Iso.W. period 2s	52 16	12	White metal framework structure; 52.	
22516 <i>F 1402.1</i>	-Front E, about 300 meters 316° from common rear.	1° 40.8' N 101° 48.6' E	Q.W.	56 17	12	White beacon; 43.	Visible 311°48'-320°12'.
22520 <i>F 1401.9</i>	-Front G, about 1425 meters 088° from common rear.	1° 41.5' N 101° 47.2' E	Q.W.	52 16	11	White metal framework structure; 59.	Visible 083°48'-092°12'.
22523 <i>F 1402.5</i>	Selat Rupert A.	1° 39.5' N 101° 50.5' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	52 16	12	White metal framework tower; 43.	
	RACON		D(- • •) period 30s		5		Azimuth coverage 185°-117°. (3 cm).
22523.1 <i>F 1402.6</i>	Selat Rupert.	1° 39.3' N 101° 38.3' E	L.Fl.W. period 5s fl. 2s, ec. 3s	141 43	12	White beacon.	
22523.3 <i>F 1402.62</i>	-W. pier.	1° 39.7' N 101° 38.2' E	Fl.Y. period 6s fl. 1s, ec. 5s	23 7	6	Yellow pipe beacon.	
22523.5 <i>F 1402.64</i>	-E. pier.	1° 39.7' N 101° 38.4' E	Fl.Y. period 4s fl. 1s, ec. 3s	23 7	6	Yellow pipe beacon.	
22524 <i>F 1403</i>	Selat Rupert D.	1° 37.0' N 101° 53.2' E	Iso.W. period 3s	46 14	12	White metal framework tower; 49.	
22528 <i>F 1404</i>	Tanjung Bakau Range A, common front.	1° 32.2' N 101° 54.9' E	Q.W.	49 15	9	White metal framework tower; 49.	
22532 <i>F 1403.9</i>	-Rear B, about 1000 meters 164° from common front.	1° 31.7' N 101° 55.1' E	Iso.W. period 4s	95 29	12	White metal framework tower; 92.	Visible 159°45'-168°15'.
22536 <i>F 1404.1</i>	-Rear C, about 760 meters 271° from common front.	1° 32.2' N 101° 54.6' E	Iso.W. period 4s	95 29	12	White metal framework tower; 92.	Visible 265°45'-274°15'.
22542 <i>F 1406</i>	Tg. Jati.	1° 36.1' N 101° 59.9' E	L.Fl.W. period 8s fl. 2s, ec. 6s	30 9	13	White beacon.	
22544 <i>F 1407</i>	Bengkalis.	1° 27.7' N 102° 06.8' E	Fl.W. period 10s fl. 1s, ec. 9s	104 32	16	Tower; 98.	
SUNGAI PAKNING:							
22552 <i>F 1411</i>	-Oil wharf No 1, N. head.	1° 20.8' N 102° 09.4' E	FR.	39 12	8	Post; 7.	F.G. on N. and S. end of pier No. 2.
22556 <i>F 1413</i>	Sungai Siak Range, front.	1° 12.7' N 102° 09.7' E	Q.W.	20 6	8	Framework tower, white triangular daymark point up.	

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INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
22560 F 1413.1	-Rear, 1 mile 196°30' from front.	1° 11.8' N 102° 09.4' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	46 14	8	White beacon, white triangular daymark point up.	
22573 F 1412.6	Selat Panjang, S. of Tanjung Layang.	1° 11.2' N 102° 12.9' E	L.Fl.W. period 15s fl. 3.5s, ec. 11.5s	43 13	11	SPECIAL Y, beacon, "X" topmark.	
22578 F 1398	Gosong Clark, SE.	1° 42.6' N 102° 24.2' E	Fl.W. period 3s	46 14	12	White beacon.	
	RACON		K(- • -)				
22580 F 1413.5	Tanjung Parit.	1° 31.5' N 102° 26.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	138 42	18	White metal framework tower; 131.	
22580.7 F 1413.7	Tg Sekodi.	1° 15.9' N 102° 30.2' E	Fl.W. period 7.5s fl. 0.5s, ec. 7s	102 31	15	White beacon.	
22581 F 1674.05	-Pulau Karimun Kecil.	1° 10.0' N 103° 23.3' E	Fl.W. period 5s fl. 1s, ec. 4s	59 18	12	White beacon; 49.	
22584 F 1674	Pulau Iyu Kecil (The Brothers).	1° 11.5' N 103° 21.1' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	135 41	18	White metal framework tower; 43.	Visible 055°-325°. Obscured by Pulau Iyu Besar.
22584.2 F 1674.1	Karimun Besar.	1° 08.7' N 103° 19.2' E	Q.(9)W. period 15s	20 6	4	W. CARDINAL YBY, beacon, topmark.	
22584.4 F 1674.4	-S.	1° 08.1' N 103° 19.2' E	Fl.(2)R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	20 6	4	PORT (A) R, beacon, topmark.	
22584.6 F 1674.2	-Assan.	1° 08.1' N 103° 18.8' E	Fl.(2)G. period 10s	20 6	4	STARBOARD (A) G, beacon, topmark.	
22584.8 F 1674.3	-Penguinju.	1° 06.8' N 103° 19.0' E	Q.(2)R. period 5s	20 6	4	PORT (A) R, beacon, topmark.	
22584.9 F 1417.46	-Karium Oil Port.	1° 04.6' N 103° 18.6' E	Fl.W. period 10s fl. 1.5s, ec. 8.5s	66 20	12	White beacon; 56.	Radar reflector.
22584.91 F 1417.47	--Dolphin, No 1.	1° 04.4' N 103° 18.3' E	Fl.Y. period 4s fl. 1s, ec. 3s	43 13	8	SPECIAL Y, beacon, topmark; 23.	Radar reflector.
22584.92 F 1417.48	---No 2.	1° 04.8' N 103° 18.3' E	Fl.Y. period 4s fl. 1s, ec. 3s	43 13	8	SPECIAL Y, beacon, topmark; 23.	Radar reflector.
22585 F 1417.4	-Lubukkankong, N.	1° 00.2' N 103° 21.2' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	49 15	12	White beacon, 30.	Radar reflector.
22585.1 F 1417.42	--W.	1° 00.2' N 103° 21.0' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	49 15	12	PORT (A) R, beacon, topmark, 30.	Radar reflector.
22585.2 F 1417.43	--E.	1° 00.0' N 103° 21.2' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	49 15	12	STARBOARD (A) G, beacon, topmark, 30.	Radar reflector.
22585.5 F 1417.3	Pulau Babi.	0° 57.0' N 103° 21.9' E	Fl.W. period 5s	46 14	10	White beacon.	Radar reflector.
22586 F 1674.5	Tanjung Piai.	1° 15.5' N 103° 30.6' E	Fl.W. period 3s	49 15	16	Round concrete tower, piles.	Radar reflector.
	RACON		M(- -)		10		(3 cm).

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INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
22587 F 1417.6	Tanjung Sebatok, SE.	1° 02.1' N 103° 27.8' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 12	12	ISOLATED DANGER BRB, beacon, topmark; 66.	
22588 F 1417.5	Tanjung Rambut.	0° 59.7' N 103° 26.7' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	135 41	18	White framework tower; 131.	
22590 F 1417	Tanjung Menggung.	0° 48.4' N 103° 08.3' E	Fl.W. period 5s	52 16	10	White metal framework structure; 49.	Radar reflector.
22592 F 1694.6	Jangkat.	0° 58.0' N 103° 42.5' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	121 37	18	White metal tower; 121.	Radar reflector.
SELAT DURIAN:							
22596 F 1418	-Melvill Reef, W. side.	0° 51.9' N 103° 36.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	36 11	10	White metal framework tower; 26.	
22600 F 1420	-Middleburg Rif, N. end.	0° 51.4' N 103° 34.3' E	L.Fl.R. period 8s fl. 2s, ec. 6s	36 11	8	White metal framework tower; 26.	
22602 F 1417.2	Tg. Lubuh.	0° 39.0' N 103° 24.1' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s	115 35	12	White beacon.	
22603 F 1417.24	Batu Tokong.	0° 37.5' N 103° 27.3' E	Fl.G. period 5s fl. 1s, ec. 4s	33 10	6	Green beacon, triangular daymark point up; 20.	Radar reflector.
22606 F 1417.22	Palua Mandah.	0° 42.6' N 103° 31.0' E	Fl.W. period 6s fl. 0.6s, ec. 5.4s	33 10	6	White beacon; 20.	Radar reflector.
22608 F 1422	Pulau Pelangkat, on reef.	0° 44.8' N 103° 35.1' E	L.Fl.W. period 8s fl. 2s, ec. 6s	43 13	10	White metal framework tower; 26.	
-RACON							
22609 F 1424	Karang Genting.	0° 40.4' N 103° 43.6' E	Fl.W. period 4s fl. 1s, ec. 3s	49 15	12	White beacon; 33.	Radar reflector.
22610 F 1426	Rukan Utara (North Brother).	0° 37.4' N 103° 45.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	98 30	12	White metal framework tower; 43.	Obscured 342°-352° by Rukan Selatan and Rukan Tengah.
-RACON							
22612 F 1428	Rukan Selatan.	0° 32.6' N 103° 46.4' E	Fl.W. period 5s fl. 1s, ec. 4s	230 70	21	White metal framework tower; 72.	
22613 F 1428.3	Pilau Durai S.	0° 28.9' N 103° 37.0' E	Fl.R. period 4s fl. 0.8s, ec. 3.2s	33 10	6	Red beacon, red rectangular daymark; 20.	Radar reflector.
22613.5 F 1428.5	-Reef.	0° 28.1' N 103° 37.4' E	Fl.W. period 5s fl. 0.9s, ec. 4.1s	20 6	6	White beacon; 20.	Radar reflector.
22616 F 1429	Tanjung Datuk.	0° 00.7' N 103° 48.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	52 16	12	White beacon; 82.	
22617 F 1430	Buluh.	1° 00.9' N 103° 55.8' E	Fl.R.				

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INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
22618 F 1772.1	Batu Besar.	1° 09.7' N 104° 08.6' E	Fl.W. period 5s fl. 1s, ec. 4s	16 5	9	White beacon.	
22619 F 1772.15	-No 3.	1° 09.7' N 104° 09.0' E	Fl.G. period 4s fl. 1s, ec. 3s	30 9	5	STARBOARD (A) G, beacon, topmark.	
22619.5 F 1772.2	-No 4.	1° 09.7' N 104° 09.1' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	30 9	5	Red beacon, red rectangular daymark.	
SELAT RIAU:							
22620 F 1772	-Karang Galang.	1° 09.6' N 104° 11.4' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	43 13	10	White metal beacon, black bands; 33.	
-RACON Q(- - • -)							
22620.1 F 1771.6	Teluk Sebong.	1° 09.9' N 104° 18.3' E	Fl.G. period 3s	26 8	10	Green beacon, green triangular daymark point up.	
22620.5 F 1772.3	-Kabil Range, front.	1° 04.8' N 104° 08.4' E	Iso.W. period 2s	46 14	16	White beacon, triangular daymark point up.	Fl.(3)R. 6s 4m 5M on dolphin and Fl.(3)G. 6s 5m 5M 750 meters S.
22620.6 F 1772.31	--Rear, 0.65 mile 216°54' from front.	1° 04.3' N 104° 08.0' E	Iso.W. period 4s	98 30	17	White beacon, triangular daymark point down.	
22620.7 F 1772.36	--Semen Bosowa.	1° 03.6' N 104° 08.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s		10	White beacon; 39.	
22620.8 F 1772.48	--Tanjung Kasem.	1° 02.2' N 104° 08.0' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	33 10	5	White beacon; 33.	
22621 F 1772.4	-South Range, front.	1° 03.2' N 104° 08.5' E	Q.W.	49 15	15	White beacon, triangular daymark point up.	
22621.5 F 1772.41	--Rear, 325 meters 197°53' from front.	1° 03.1' N 104° 08.4' E	Oc.W. period 3s fl. 2s, ec. 1s	79 24	16	White beacon, triangular daymark point down.	
22622 F 1772.45	-PLTU Pier Kabil, N.	1° 02.6' N 104° 08.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s		10	White beacon; 39.	
22622.1 F 1772.47	--S.	1° 02.5' N 104° 08.3' E	Fl.Y. period 4s fl. 0.5s, ec. 3.5s		5	SPECIAL Y, beacon, topmark; 23.	
-Tanjung Uban:							
22624 F 1773	--Northern pier, head.	1° 04.5' N 104° 12.7' E	F.R.				Private light.
22628	--Southern pier, head.	1° 03.9' N 104° 12.8' E	F.R.				Private light.
22632 F 1774	-Pulau Tanjungsau, E. point.	1° 03.0' N 104° 11.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	112 34	7	White metal framework tower; 36.	Visible 151°-031°.
22633 F 1775.1	-Pulau Nginang.	1° 01.5' N 104° 11.2' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	20 6	5	Green beacon, green triangular daymark point up; 20.	
22636 F 1775	-Pulau Buan.	1° 02.7' N 104° 13.0' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	39 12	8	White framework tower; 33.	

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INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
22640 <i>F 1776</i>	-Pulau Loban.	0° 58.9' N 104° 13.6' E	Iso.W.R.G. period 8s	62 19	W. 9 R. 6 G. 5	Black metal framework structure; 49.	W. 290°-046°, G.-089°, R.- 140°, W.-176°.
	-RACON		M(- -)				
22641 <i>F 1778</i>	-Gosong Tula.	0° 57.6' N 104° 15.3' E	Fl.R. period 6s fl. 0.6s, ec. 5.4s	30 9	6	PORT (A) R, beacon, topmark; 20.	
22642 <i>F 1787</i>	-Pulau Terkulai, SE.	0° 56.3' N 104° 21.1' E	Fl.R. period 6s fl. 0.6s, ec. 5.4s	30 9	6	PORT (A) R, beacon, topmark; 20.	
22643 <i>F 1788</i>	-Karang Soreh, NW.	0° 54.6' N 104° 21.2' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	30 9	6	STARBOARD (A) G, beacon, topmark; 20.	
22644 <i>F 1780</i>	--Pulau Tunjuk, W. side front.	0° 56.8' N 104° 12.2' E	Iso.W. period 2s	52 16	11	Beacon, white triangular daymark point up.	Visible 175°-185°.
22648 <i>F 1780.1</i>	--Rear, 387 meters 180° from front.	0° 56.6' N 104° 12.3' E	Oc.W. period 3s lt. 2s, ec. 1s	75 23	12	Beacon, white triangular daymark point down; 66.	Intensified 175°-185°. Leads through N. entrance to Riouw Strait. Partially obscured by trees 188°- 267°.
22652 <i>F 1786</i>	-Pulau Terkulai, W. end.	0° 57.2' N 104° 20.3' E	Iso.W. period 4s	75 23	14	White metal framework tower; 66.	Visible 290°-109°.
22656 <i>F 1790</i>	-Batu Hitam.	0° 54.6' N 104° 26.4' E	Iso.W.R. period 2s	85 26	11	White beacon; 10.	R. 294°-059°30', W.-197°.
22660 <i>F 1798</i>	-Pulau Pangkil.	0° 49.1' N 104° 21.1' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	62 19	12	Red metal framework tower; 49.	Radar reflector.
	-RACON		D(- • •)				
22664 <i>F 1796</i>	--Range, front.	0° 56.5' N 104° 26.2' E	Fl.W. period 3s fl. 1s, ec. 2s	23 7	6	White metal framework tower, white triangular daymark point up; 16.	
22668 <i>F 1796.1</i>	---Rear, 323 meters 004° from front.	0° 56.7' N 104° 26.2' E	L.Fl.W. period 5s fl. 2s, ec. 3s	36 11	4	White metal framework tower, white triangular daymark point up; 23.	
22672 <i>F 1806</i>	-Pulau Mantang.	0° 44.7' N 104° 30.8' E	Fl.W. period 3s	203 62	20	White metal framework tower; 65.	Visible 269°-162°, except where obscured by islands.
22676 <i>F 1802</i>	-Pulau Karas Kecil.	0° 44.3' N 104° 22.2' E	Fl.W. period 5s fl. 1s, ec. 4s	141 43	18	White metal framework tower; 36.	Visible 123°-018°.
22680 <i>F 1807</i>	-Maga Range, Front.	0° 47.6' N 104° 35.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	10	White metal framework structure, triangular daymark point up; 26.	
22684 <i>F 1807.1</i>	--Rear, 740 meters 219° from front.	0° 47.3' N 104° 35.1' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	46 14	10	White metal framework structure, triangular daymark point down; 33.	
22687 <i>F 1807.3</i>	Pulau Kelong.	0° 47.9' N 104° 38.2' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	39 12	10	Green metal framework tower, green triangular daymark point up; 33.	
22692 <i>F 1807.5</i>	Pulau Kambat.	0° 48.4' N 104° 40.0' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	16 5	8	White tower.	
22694 <i>F 1809</i>	Merapas.	0° 56.0' N 104° 55.3' E	Fl.(3)W. period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	397 121	22	White metal framework structure; 131.	

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INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)

22695 <i>F 1808</i>	Karang Heleputan.	0° 37.3' N 105° 08.5' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	56 17	12	White beacon; 33.	
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Section 14

Sumatera and Jawa

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
22696 <i>F 1438</i>	Pulau Kentar.	0° 02.0' N 104° 47.1' E	L.Fl.(2)W. period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	400 122	26	White metal framework tower; 108.	Visible 121°-001°, except where obscured by islands.
22704 <i>F 1440.2</i>	-NW. side.	0° 02.9' N 104° 39.0' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	57 17	10	White metal framework tower; 49.	
22706 <i>Q 0953</i>	Pulau Saya.	0° 46.8' S 104° 56.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	42 13	11	White beacon; 33.	
22708 <i>Q 0954</i>	Pulau Lingga.	0° 18.3' S 104° 59.8' E	Fl.W. period 19s fl. 1s, ec. 18s	184 56	20	White metal framework tower; 33.	Visible 034°-064° and 175°- 009°.
22708.5 <i>F 1445</i>	-T Kelit.	0° 00.4' S 104° 30.4' E	Fl.(2)W. period 6s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	33 10	12	White beacon; 33.	
22709 <i>Q 0956</i>	Daik.	0° 13.4' S 104° 37.9' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	39 12	11	White beacon; 33.	
22710 <i>Q 0957</i>	Pulau Penuba.	0° 19.4' S 104° 28.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	43 13	11	Metal post; 13.	
22711 <i>Q 0957.5</i>	-T Jagoh.	0° 20.4' S 104° 28.0' E	Fl.(2)W. period 6s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	33 10	12	White beacon; 33.	
22712 <i>Q 0958</i>	Dabo.	0° 30.2' S 104° 34.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	49 15	12	White beacon; 33.	
22716 <i>Q 0981.5</i>	Indragiri River, Tembilahan.	0° 20.0' S 103° 09.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	33 10	7	White metal framework structure; 33.	
22720 <i>Q 0981</i>	Tanjung Bakau.	0° 20.1' S 103° 47.3' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	49 15	12	White beacon.	
22722 <i>Q 0980.4</i>	Kuala Enok.	0° 34.1' S 103° 29.7' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	44 13	12	Red metal framework structure, red rectangular daymark; 33.	
22722.2 <i>Q 0980.5</i>	-W. beacon.	0° 33.5' S 103° 27.8' E	Fl.G. period 6s fl. 0.5s, ec. 5.5s	44 13	12	STARBOARD (A) G, structure, topmark; 33.	
22724 <i>Q 0980</i>	Pulau Muci.	0° 32.5' S 104° 01.6' E	Fl.W. period 5s	220 67	21	White metal framework tower; 69.	Visible 284°-192°.
	RACON		M(- -)		15		Azimuth coverage 290°-190°. (3 & 10cm).
22726 <i>Q 0975</i>	Selat Berhala.	1° 01.4' S 104° 21.6' E	Fl.(3)W. period 14s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 9.5s	138 42	18	White metal framework structure; 131.	

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INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
22728 Q 0976	Berhala.	0° 51.9' S 104° 24.4' E	L.F.I.W. period 15s fl. 5s, ec. 10s	89 27	14	White metal framework tower; 69.	Visible 237°-147°.
JAMBI RIVER:							
-S. Niur:							
22736	--Outer Lighted Buoy.	0° 56.0' S 103° 53.0' E	L.F.I.W. period 12s fl. 5s, ec. 7s			Red bouy, white stripes.	
22744 Q 0973	Kuala Niur Range, front.	1° 01.5' S 103° 48.8' E	Fl.W. period 6s fl. 1s, ec. 5s	36 11	11	White metal framework structure, white triangular daymark point up; 36.	Radar reflector.
22748 Q 0973.1	-Rear, 168° from front.	1° 03.1' S 103° 49.1' E	Fl.W. period 6s fl. 1s, ec. 5s	105 32	14	White metal framework structure, white triangular daymark point down; 98.	Radar reflector.
22752 Q 0931	Tandjung Kampeh.	2° 11.4' S 104° 55.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	52 16	10	White metal framework beacon; 52.	
AIR MUSI:							
22756 Q 0932	-Entrance Range, No 3, front.	2° 12.9' S 104° 56.1' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	29 9	7	White post, platform, white triangular daymark point up; 16.	Tide gauge.
22760 Q 0932.1	--Rear, No 4, 1450 meters 214°30' from front.	2° 14.8' S 104° 54.8' E	Oc.W. period 4s lt. 3s, ec. 1s	42 13	8	White metal framework tower, white triangular daymark point down; 39.	
22764 Q 0934	-Inner Range, No 2, front.	2° 12.9' S 104° 55.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	29 9	8	White metal framework structure, white triangular daymark point up; 20.	Radar reflector.
22768 Q 0934.1	--Rear, No 1, 1150 meters 005°30' from front.	2° 12.4' S 104° 55.9' E	L.F.I.W. period 5s fl. 2s, ec. 3s	49 15	8	White metal framework structure, white triangular daymark point down; 36.	Tide gauge.
--RACON			M(--)				(3 & 10cm).
22770 Q 0936	-Tanjung Buyut.	2° 19.3' S 104° 54.9' E	2 F.R. (vert.)	108 33	6	Mast; 98.	
22772 Q 0938	-Range, front.	2° 22.6' S 104° 54.3' E	Iso.W. period 2s	39 12	10	White beacon, white triangular daymark point up; 49.	
22776 Q 0938.1	--Rear, 194°30' from front.	2° 22.8' S 104° 54.2' E	Fl.W. period 2.5s fl. 1s, ec. 1.5s	56 17	10	White beacon, white triangular daymark point down; 49.	Radar reflector.
22780 Q 0938.4	-Parit Range, front.	2° 26.3' S 104° 56.5' E	Fl.W. period 3s fl. 1s, ec. 2s	36 11	8	White beacon, white triangular daymark point up; 33.	
22784 Q 0938.41	--Rear, 156° from front.	2° 26.5' S 104° 56.6' E	Oc.W. period 3s lt. 2s, ec. 1s	55 17	10	White beacon, triangular daymark point down; 49.	Visible 151°-157°.
22788 Q 0939	-NE. of Kramat.	2° 31.3' S 104° 56.4' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	46 14	6	Red metal framework tower, red rectangular daymark; 36.	
22792 Q 0939.2	-Singris Island.	2° 34.3' S 104° 56.8' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	33 10	7	PORT (A) R, beacon, topmark; 33.	
22796 Q 0939.6	-Sedumara.	2° 36.4' S 104° 57.4' E	L.F.I.R. period 6s fl. 2s, ec. 4s		7	PORT (A) R, beacon, topmark; 33.	

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INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
22800 Q 0939.64	-Pegadjahan.	2° 37.0' S 104° 56.4' E	L.F.I.W. period 7s fl. 2s, ec. 5s	39 12	7	White beacon; 33.	
22808 Q 0939.8	-Upang.	2° 42.7' S 104° 57.4' E	Fl.R. period 3s fl. 1s, ec. 2s	39 12	7	Red beacon, red rectangular daymark; 33.	
22812 Q 0940	-E. bank S. of Vpang.	2° 45.8' S 104° 57.3' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	20 6	6	White metal framework tower, triangular daymark point down.	
22816 Q 0940.4	--W. bank.	2° 46.2' S 104° 56.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	20 6	8	White beacon, white triangular daymark point up.	
22824 Q 0941.4	-Jaran Range, front.	2° 48.7' S 104° 54.7' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	33 10	6	White beacon, white triangular daymark point up; 33.	
22828 Q 0941.41	--Rear, 475 meters 218° from front.	2° 49.0' S 104° 54.4' E	Fl.W. period 4s fl. 1s, ec. 3s	52 16	8	White metal framework tower, white triangular daymark point down; 49.	
22832 Q 0942	-Burung.	2° 51.5' S 104° 53.7' E	L.F.I.G. period 8s fl. 3s, ec. 5s	33 10	6	STARBOARD (A) G, beacon, topmark; 33.	
22836 Q 0943	-N. of Ayer Kumbang.	2° 54.8' S 104° 54.2' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	46 14	8	White metal framework tower, concrete base; 26.	
22840 Q 0943.2	-Ayer Kumbang.	2° 55.6' S 104° 54.1' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	46 14	6	Red beacon, concrete base; 36.	
22844 Q 0943.4	-N. of Palau Banjar.	2° 56.9' S 104° 52.2' E	L.F.I.W. period 5s fl. 2s, ec. 3s	52 16	6	White beacon; 49.	
22848 Q 0945	-Mariana, No 3.	2° 57.0' S 104° 53.3' E	L.F.I.W. period 8s fl. 3s, ec. 5s	46 14	7	White beacon, concrete base; 36.	

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INDONESIA (BANGKA)

22856 Q 1000	Tanjung Ular.	1° 57.6' S 105° 07.6' E	Fl.(2)W. period 19.5s fl. 1.5s, ec. 2.5s fl. 1.5s, ec. 14s	66 20	25	White metal framework tower; 131.	Visible 015°-230°.
22860 Q 1001	Frederick Hendrik Rocks, entrance to Selat Banka.	1° 57.8' S 104° 57.2' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 2.5s	46 14	8	ISOLATED DANGER BRB, beacon, topmark.	
22862 Q 1001.5	Ujung Batakarang, Sumatera.	1° 59.3' S 104° 42.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	69 21	13	White beacon.	
22864 Q 0998	Tg. Kelian.	2° 05.1' S 105° 07.9' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	174 53	20	White stone tower, red bands; 184.	Visible 230°-159°30'.
22868 Q 0996	Muntok.	2° 04.5' S 105° 09.6' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	105 32	20	White metal framework tower; 98.	

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INDONESIA (BANGKA)							
22872 Q 0993	Tg. Selokan.	2° 23.1' S 105° 36.9' E	Fl.(3)G. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	33 10	6	Green beacon; 26.	
22876 Q 0992	Pulau Pelapasan.	2° 23.2' S 105° 45.1' E	Fl.(3)W. period 30s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 19.5s	217 66	21	White tower; 115.	Visible 288°06'-288° and partially obscured eastward by other Nanka Islands.
	RACON		NK(- • - • -) period 120s		16		Azimuth coverage 300°-155°. (3cm).
22878 Q 0991.3	Tanjung Bedawu.	2° 35.5' S 105° 53.8' E	Fl.(2)W. period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	72 22	14	White beacon.	
22880 Q 0994	Karang Brom-Brom.	2° 12.0' S 105° 20.1' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	49 15	7	Red metal tower; 33.	
22884 Q 0991	Tanjung Tapa.	2° 40.9' S 105° 47.1' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	52 16	6	STARBOARD (A) G, tower, topmark; 39.	
22896 Q 0990	Tanjung Lelari.	2° 48.9' S 105° 57.0' E	Fl.R. period 10s fl. 1s, ec. 9s	43 13	12	PORT (A) R, tower, topmark; 33.	
22904 Q 0988	Pulau Besar.	2° 52.7' S 106° 08.5' E	Fl.(2)W. period 20s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 14.7s	200 61	19	White octagonal metal framework tower, brown top, white cupola; 187.	Visible 107°06'-107°. Partially obscured beyond Tanjung Lelari 107°-165°.
22908 Q 0984	Toboali.	3° 00.9' S 106° 27.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	105 32	16	White metal framework tower; 98.	F.R. on radio mast 4 miles ENE.
22912 Q 0985	Melvill Bank.	3° 02.4' S 106° 15.1' E	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	49 15	7	STARBOARD (A) G, beacon, topmark; 39.	Radar reflector.
22914 Q 0986	Eastern Bank.	3° 00.5' S 106° 18.5' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	49 15	4	PORT (A) R, beacon, topmark; 33.	Radar reflector.
22916 Q 0983	-Pulau Maspari (Lucipara).	3° 13.1' S 106° 13.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	131 40	18	White metal framework structure; 157.	
22924 Q 0982	Dapur.	3° 08.0' S 106° 30.9' E	Fl.W. period 10s	135 41	18	White metal framework tower; 46.	
	RACON		W(• - -)				
22926 Q 0981.9	Tanjung Baginda.	3° 05.1' S 106° 44.3' E	Fl.(2)W. period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	75 23	14	White beacon.	
22928 Q 1011	Karang Perlang.	2° 26.8' S 106° 28.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	44 13	12	White metal framework tower; 39.	
22932 Q 1012	Tanjung Berikat.	2° 34.4' S 106° 50.8' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	108 33	12	White tower; 46.	Visible 090°-000°.

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INDONESIA (BANGKA)							
22933 Q 1012.5	Berikat.	2° 27.9' S 106° 58.2' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	49 15	13	White beacon; 33.	
22934 Q 1010.7	Pulou Beboear.	2° 16.9' S 106° 26.8' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	141 43	12	White framework tower; 131.	
22936 Q 1010.5	Karang Teali.	2° 14.0' S 106° 17.2' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	49 15	6	STARBOARD (A) G, beacon, topmark; 33.	
22940 Q 1009	Tg. Bunga.	2° 07.8' S 106° 10.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	98 30	8	White metal framework tower; 66.	
22944 Q 1010	Karang Gosong.	2° 08.5' S 106° 13.8' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	43 13	6	STARBOARD (A) G, beacon, topmark; 26.	
22946 Q 1008	Pangkal Pinang Range, front.	2° 05.6' S 106° 10.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	26 8	5	White beacon, white triangular daymark point up.	
22946.5 Q 1008.1	--Rear, 926 meters 283°48' from front.	2° 05.6' S 106° 09.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	7	White beacon, white triangular daymark point down; 46.	
22948 Q 1007	Karang Merah.	2° 01.4' S 106° 15.5' E	Fl.(2)G. period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	39 12	8	Green beacon; 39.	Radar reflector.
22952 Q 1005	Tg. Raja.	1° 54.0' S 106° 11.1' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	98 30	14	White beacon; 39.	Radar reflector.
22956 Q 1004	Tg. Tuing.	1° 36.1' S 106° 02.7' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	164 50	18	White beacon; 39.	Radar reflector.
22957 Q 1005.4	Karang Hidragraf Timur.	2° 01.1' S 106° 32.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	42 13	12	White fiberglass beacon; 33.	Radar reflector.
22958 Q 1005.7	Karang Van Sittard.	2° 11.6' S 106° 44.8' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	42 13	12	ISOLATED DANGER BRB, beacon, topmark.	Radar reflector.
22960 Q 1006	General Elliot Reef.	2° 03.7' S 106° 18.9' E	L.Fl.W. period 18s fl. 3s, ec. 15s	49 15	11	White metal framework tower; 33.	Radar reflector.
	RACON		D(- • •)				
22964 Q 1006.5	Kg. Miang.	2° 05.1' S 106° 17.7' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	49 15	7	Red framework tower; 33.	Visible 160°-280°.
	RACON		D(- • •)		15		Azimuth coverage 160°-280°. (3 & 10cm).
22968 Q 1002	Teluk Klabat , Pulau Penyusu.	1° 31.8' S 105° 41.3' E	Fl.W. period 7.5s	184 56	18	White metal tower; 131.	Visible 090°-262°.
22969 Q 1003	--Mantong Range, front.	1° 37.4' S 105° 44.0' E	Q.W.	39 12	12	White metal framework tower; 33.	Radar reflector.
22969.1 Q 1003.1	--Rear.	1° 37.6' S 105° 44.2' E	Iso.W. period 4s	105 32	15	White metal framework tower; 98.	

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INDONESIA (BELITUNG)							
22972 Q 1020	Pulau Simedang.	3° 19.1' S 107° 12.7' E	Fl.(4)W. period 25s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 12.5s	200 61	20	White metal tower; 187.	Radiobeacon.
22972.2 Q 1020.5	Karang Batu Malang.	3° 14.9' S 107° 28.3' E	Fl.W. period 5s fl. 1s, ec. 4s	43 13	12	White beacon; 33.	Radar reflector.
22972.25 Q 1020.7	Kennedy Island.	3° 20.3' S 107° 42.1' E	Fl.(2)W. period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	72 22	14	White beacon.	
22972.3 Q 1021.6	Karang-Karang Baginda.	3° 09.5' S 107° 02.5' E	Fl.G. period 7s fl. 1s, ec. 6s	49 15	13	Green beacon.	
22972.5 Q 1021.8	Batu Medang.	3° 22.2' S 106° 55.7' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	49 15	13	White beacon.	
22973 Q 1013	Karang Suji.	3° 34.8' S 106° 55.1' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	39 12	12	White beacon.	
22974 Q 1021	Karang Genting.	3° 33.2' S 107° 41.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	33 10	11	White beacon.	
22974.5 Q 1021.5	Pulau Kebatu.	3° 47.7' S 108° 03.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15	13	White beacon.	
22975 Q 1024.2	Karang Tominkor.	2° 55.7' S 107° 07.5' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	43 13	12	White beacon.	
22975.5 Q 1024.1	Karang Pandan.	2° 53.3' S 107° 12.4' E	Fl.(2)W. period 10s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 7.2s	43 13	12	ISOLATED DANGER BRB, beacon, topmark.	Radar reflector.
22976 Q 1024	Tanjung Ajer Lantjoer.	2° 53.0' S 107° 20.5' E	Fl.(3)W. period 20s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 11s	203 62	21	White metal tower; 88.	
22976.5 Q 1024.05	Langir Island.	2° 48.3' S 107° 22.1' E	Fl.(2)W. period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	72 22	14	White beacon.	
22977 Q 1024.5	Pu Celaka.	2° 52.4' S 107° 00.8' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	108 33	16	White beacon.	Visible 322°-218°.
22977.5 Q 1024.7	Selemar.	2° 59.3' S 107° 06.4' E	Fl.G. period 5s fl. 1s, ec. 4s	46 14	13	Green beacon.	
22978 Q 1025	Tg. Murung.	3° 01.9' S 106° 53.7' E	Fl.W. period 10s fl. 1s, ec. 9s	295 90	10	White beacon; 98.	Visible 192°-070°.
22980 Q 1022	Kasenga.	3° 02.8' S 107° 21.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	66 20	10	White beacon, red bands; 59.	Radar reflector.

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INDONESIA (BELITUNG)							
PULAU BELITUNG:							
22984 Q 1030	-Pulau Langkuas.	2° 32.2' S 107° 37.2' E	Fl.W. period 7.5s fl. 0.2s, ec. 7.2s	200 61	20	White metal tower; 187.	Visible 003°-267°, except where obscured by islands.
22988 Q 1032	-Northeast Coast.	2° 37.3' S 108° 12.5' E	Fl.(2)W. period 8s	39 12	11	White metal tower; 33.	Obscured in places by trees.
22990 Q 1032.5	-Manggar.	2° 50.8' S 108° 17.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	72 22	14	White beacon.	
22998 Q 1028.8	Tanjungpandan Harbor.	2° 44.8' S 107° 37.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	79 24	18	White beacon.	
23000 Q 1028	-Tanjung Pandan.	2° 44.2' S 107° 35.8' E	Q.(2)G. period 8s	43 13	6	Green metal framework tower; 33.	Visible 064°-328°.
23002 Q 1028.7	-Beacon.	2° 44.0' S 107° 35.6' E	Fl.(2)R. period 10s	23 7	6	Red beacon.	

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INDONESIA (SUMATERA-EAST COAST)							
23004 Q 0928	Panjurit.	5° 53.0' S 105° 47.1' E	Fl.(3)W. period 8s	177 54	18	White beacon; 19.	
RACON			M(- -)				
23008 Q 0928.5	Dau Island.	5° 52.0' S 105° 46.0' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	26 8	6	Red beacon; 20.	
23009 Q 0928.55	-Off SW. end.	5° 52.5' S 105° 45.8' E	Q.(6)+L.Fl.W. period 15s	33 10	8	S. CARDINAL YB, beacon, topmark.	
23009.2 Q 0928.6	Gosong Barak.	5° 52.2' S 105° 46.5' E	Q.Y.	33 10	6	SPECIAL Y, beacon, "X" topmark.	
23009.4 Q 0928.65	Tanjung Katila.	5° 51.8' S 105° 45.5' E	Q.(2)G. period 5s	33 10	6	STARBOARD (A) G, beacon, topmark.	
23009.6 Q 0928.7	Bakauhuni.	5° 52.2' S 105° 45.1' E	Fl.(2)G. period 5s	33 10	6	STARBOARD (A) G, beacon, topmark.	
23012 Q 0929	Kelapa Island.	5° 52.0' S 105° 45.0' E	Fl.(2)R. period 6s	29 9	6	Red beacon; 20.	
23013 Q 0929.2	-SW end.	5° 52.6' S 105° 45.2' E	V.Q.(6)+L.Fl.W. period 10s	33 10	8	S. CARDINAL YB, beacon, topmark.	
23013.5 Q 0929.3	Karang Ujung Kanggalan.	5° 47.8' S 105° 48.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	43 13	12	White beacon.	
23014 Q 0929.5	Pulau Mundu.	5° 40.8' S 105° 50.2' E	Fl.W. period 6s fl. 0.3s, ec. 5.7s	75 23	16	White beacon.	
23014.5 Q 0929.7	PGN LNG FSRU.	5° 26.5' S 105° 56.7' E	Fl.(2)W. period 10s	89 27	12	Storage tanker.	
23015 Q 0929.6	Maginggai, S. of Tg. Penet.	5° 21.3' S 105° 49.0' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	46 14	11	White beacon.	

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INDONESIA (SUMATERA-SOUTH COAST)							
23016 Q 0927	Tanjung Tua.	5° 54.4' S 105° 43.0' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	164 50	12	White metal framework tower; 49.	
23020 Q 0926.5	Serdang.	5° 49.3' S 105° 23.7' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	200 61	21	White metal framework tower; 131.	
23020.5 Q 0926.7	Pulau Sijebi.	5° 49.6' S 105° 20.8' E	Fl.(2)W. period 9s		10		
23022 Q 0927.5	Pulau Rakata.	6° 09.7' S 105° 27.5' E	Fl.W. period 4s fl. 1s, ec. 3s	43 13	12	White beacon.	
23024 Q 0926	Palau Sebuku, Cukuh Banding.	5° 50.9' S 105° 31.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	116 35	11	White metal framework tower; 33.	Visible 095°-324°.
23028 Q 0925	Pulau Tiga.	5° 49.2' S 105° 32.9' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	98 30	12	ISOLATED DANGER BRB, beacon, topmark; 49.	
23036 Q 0923.5	Ujung Cukucimanuk.	5° 39.3' S 105° 28.3' E	Fl.(2)W. period 7s	75 23	10	White beacon; 49.	
23040 Q 0923	Cendung Laut.	5° 33.9' S 105° 20.6' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	92 28	7	Green metal framework structure; 39.	
23042 Q 0922.9	Lampung Bay.	5° 31.6' S 105° 21.0' E	Fl.W. period 5s fl. 1s, ec. 4s	49 15	12	White metal framework beacon; 39.	Radar reflector.
23044 Q 0922	Koeala.	5° 27.5' S 105° 18.9' E	L.Fl.W.R. period 5s fl. 2s, ec. 3s	134 41	20	White metal framework tower; 131.	R. 052°-057°, W.-067°, R.- 072°.
23048 Q 0920	Tanjungkarang-Telukbetung, reef.	5° 28.1' S 105° 16.5' E	Fl.(2)R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	60 18	7	Red metal framework tower; 43.	
23052 Q 0920.5	Kunjit.	5° 26.8' S 105° 16.9' E	Fl.W. period 3s fl. 1s, ec. 2s	144 44	8	White beacon; 131.	
23053 Q 0922.7	Panjang.	5° 29.0' S 105° 18.9' E	Fl.W. period 5s	49 15	12	White post.	
23064 Q 0923.2	Maitem.	5° 35.8' S 105° 15.0' E	Fl.W. period 8s fl. 0.4s, ec. 7.6s	138 42	18	White structure.	
23076 Q 0914	Tg. Cukuhbalimbing.	5° 55.5' S 104° 33.6' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	207 63	20	White metal tower, dwelling; 200.	Visible 275°06'-105° and 108°-138°18'.
	RACON		B(- • • •)				(3 & 10cm).
23077 Q 0913	Pulau Batukecil.	5° 53.7' S 104° 26.4' E	Fl.W. period 6s fl. 1s, ec. 5s	148 45	20	White tower; 131.	
23080 Q 0824	-Cocos Islands.	12° 05.4' S 96° 52.6' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	19 6	8	Metal framework tower; 23.	
23086 Q 0911	Ug. Cukubatuberagam.	5° 38.2' S 104° 18.0' E	Fl.W. period 7.5s fl. 0.5s, ec. 7s	105 32	16	White beacon.	

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INDONESIA (SUMATERA-SOUTH COAST)							
23088 <i>Q 0910</i>	Ug. Walor.	5° 12.8' S 103° 54.3' E	L.Fl.W. period 5s fl. 2s, ec. 3s	138 42	17	White metal framework structure; 33.	
23092 <i>Q 0906</i>	Krui, on Salobu Point.	5° 11.1' S 103° 56.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	116 35	7	White metal framework tower; 43.	Visible 044°-123°. F.G. shown from W. mole, F.R. from E. mole.
23096 <i>Q 0904</i>	Teluk Krui, Pulau Pisang.	5° 07.3' S 103° 51.0' E	L.Fl.W. period 15s fl. 3s, ec. 12s	250 76	12	White metal framework tower; 102.	Visible 270°-150°.
23098 <i>Q 0900</i>	Tanjung Linau.	4° 51.0' S 103° 24.4' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	98 30	13	White beacon; 98.	
23099 <i>Q 0898</i>	Tanjung Bandar.	4° 48.6' S 103° 20.7' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	59 18	12	White metal framework tower; 49.	
23100 <i>Q 0897</i>	Tanjung Manna.	4° 29.0' S 102° 53.9' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	98 30	12	White beacon.	
23101 <i>Q 0895</i>	Pulau Enggano.	5° 20.8' S 102° 16.5' E	Fl.(4)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	131 40	20	White metal framework structure; 131.	
23101.5 <i>Q 0895.4</i>	-Beacon.	5° 20.4' S 102° 17.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	12	White beacon; 33.	

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INDONESIA (SUMATERA-WEST COAST)							
23101.7 <i>Q 0883.95</i>	Pulau Mega.	4° 00.1' S 101° 03.0' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	108 33	16	White beacon.	
PULAUBAAI:							
23102 <i>Q 0885.5</i>	-Range, front.	3° 53.9' S 102° 16.7' E	Q.W.	26 8	8	White beacon, white triangular daymark point up; 26.	Radar reflector.
23102.2 <i>Q 0885.51</i>	--Rear, 270 meters 147° from front.	3° 55.5' S 102° 17.6' E	Fl.W. period 3s fl. 1s, ec. 2s	39 12	8	White beacon, white triangular daymark point down; 39.	Radar reflector.
23102.4 <i>Q 0885</i>	-W. breakwater, head.	3° 53.8' S 102° 16.8' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	46 14	12	STARBOARD (A) G, beacon, topmark; 30.	Radar reflector.
23102.6 <i>Q 0885.2</i>	-E. breakwater, head.	3° 53.9' S 102° 16.6' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	46 14	12	Red beacon; 30.	Radar reflector.
BENGKULU:							
23104 <i>Q 0884</i>	-Pulau Tikus.	3° 50.6' S 102° 10.6' E	Iso.W. period 10s	109 33	16	Red and white metal framework tower; 98.	

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INDONESIA (SUMATERA-WEST COAST)							
23108 Q 0893	-Lempuyang.	3° 49.4' S 102° 16.9' E	Fl.W.R. period 2s	56 17	12	White fiberglass beacon; 33.	W. 060°-035°, R.-060°. Radar reflector.
23112 Q 0883.8	Serangai.	3° 25.0' S 101° 53.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	69 21	14	White beacon.	
23115 Q 0883.65	Tg. Bio.	3° 20.7' S 100° 27.9' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	69 21	13	White beacon.	Radar reflector.
23116 Q 0883.75	Simonga.	3° 15.8' S 100° 34.2' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s	135 41	18	White tower.	
23120 Q 0883.6	P. Silau.	3° 12.9' S 100° 18.0' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	69 21	13	White beacon.	Radar reflector.
23124 Q 0883.7	Sangingi.	3° 07.8' S 100° 28.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	12	White beacon.	
23126 Q 0883.55	Tg. Laggaisao.	3° 02.5' S 100° 28.0' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	39 12	13	White beacon.	
23128 Q 0884.7	Mukomuko.	2° 32.9' S 101° 05.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	82 25	12	White beacon; 82.	
23132 Q 0883	Sikakap Strait.	2° 46.6' S 100° 13.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	164 50	10	White metal framework tower; 20.	
23134 Q 0883.4	-N. side.	2° 46.5' S 100° 13.0' E	Fl.W. period 3s fl. 1s, ec. 2s	49 15	10	Beacon; 49.	
23135 Q 0883.5	Pulau Nusa.	2° 51.6' S 100° 09.0' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	39 12	12	White beacon.	
23135.5 Q 0879	Tg. Pinangpinang.	2° 30.2' S 99° 59.6' E	Fl.W. period 5s fl. 0.9s, ec. 4.1s	39 12	11	White beacon.	
23135.7 Q 0878.5	Tg. Kinapet.	2° 24.1' S 99° 51.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	69 21	14	White beacon.	
23136 Q 0878.1	Palau Sipura.	2° 11.2' S 99° 44.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	6	White framework tower; 39.	
23137 Q 0878	Bukit Siuban.	2° 10.6' S 99° 43.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	79 24	14	White fiberglass tower; 33.	
23138 Q 0877.8	-Siburu.	1° 59.7' S 99° 36.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	12	White beacon.	
23140 Q 0884.2	Pulau Katangkatang.	1° 53.3' S 100° 34.2' E	Fl.(3)W. period 22s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 15s	66 20	13	White metal framework tower; 66.	
23142 Q 0884.5	Gosong Sumedang.	1° 50.3' S 100° 46.2' E	Fl.W. period 3s fl. 0.6s, ec. 2.4s	43 13	11	White beacon.	
23144 Q 0877	Siberut Bay.	1° 35.7' S 99° 12.6' E	Fl.W. period 7s fl. 0.5s, ec. 6.5s	147 45	15	White framework tower; 39.	

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INDONESIA (SUMATERA-WEST COAST)							
23148 Q 0877.5	-Tg. Sikabai.	1° 35.5' S 99° 16.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	12	White beacon.	
23150 Q 0877	--Muarasiberut.	1° 35.7' S 99° 12.7' E	Fl.W. period 7s fl. 0.5s, ec. 6.5s	148 45	15	White framework tower; 39.	
23151 Q 0876.5	-Simalepet.	1° 33.7' S 99° 12.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15	12	White beacon.	
23152 Q 0876	-Sikabaloan.	1° 07.0' S 99° 00.0' E	Fl.W. period 7s fl. 0.5s, ec. 6.5s	42 13	10	White beacon; 39.	
23152.5 Q 0875.8	-Tabekat Bay.	1° 04.6' S 98° 57.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15	12	White beacon.	
23153 Q 0875.7	Tg. Sigeap , Pulau Siberut.	0° 54.6' S 98° 54.6' E	Fl.W. period 5s	144 44	16	White round concrete structure.	
23153.5 Q 0876.2	Tg. Sakaladat.	1° 11.2' S 98° 36.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	69 21	13	White beacon.	Radar reflector.
23153.8 Q 0877.6	Pulau Ngiau.	1° 51.6' S 99° 04.7' E	Fl.W. period 5s fl. 1s, ec. 4s	108 33	16	White beacon.	
23154 Q 0875	Pulau Karaba Kecil.	1° 36.3' S 100° 33.3' E	Fl.(3)W. period 20s	144 44	18	White tower; 131.	
23156 Q 0874	Pulau Nuamuk, E. side.	1° 16.0' S 100° 18.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	105 32	7	White metal framework tower; 102.	Visible 162°-033°.
23158 Q 0873	Pulau Brintanggar.	1° 08.9' S 100° 19.9' E	Fl.W. period 5s	381 116	10	White framework tower; 49.	
23158.5 Q 0872.5	Pulau Sirandah.	1° 07.2' S 100° 20.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	39 12	12	White beacon; 33.	
23159 Q 0861.5	Gosong Gadang.	1° 03.0' S 100° 15.5' E	Q.(3)W. period 6s	56 17	10	White framework tower; 49.	Radar reflector.
23160 Q 0862	Marlbro Reef.	1° 02.2' S 100° 21.3' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	39 12	12	Red beacon; 39.	
	RACON		B(- • • •)				
23161 Q 0850.5	Teluk Bungus.	1° 02.6' S 100° 23.7' E	Fl.W. period 3s	56 17	6	White metal framework tower; 49.	Radar reflector.
23162 Q 0851	-Karang Sandung.	1° 03.2' S 100° 23.7' E	Fl.W. period 5s	52 16	12	Black beacon, red bands, double ball topmark.	
23162.2 Q 0851.5	-Ujung Passar Cindakir.	1° 03.3' S 100° 24.2' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	46 14	11	PORT (A) R, beacon, topmark.	Radar reflector.
23162.4 Q 0852	-Passar Batung.	1° 03.8' S 100° 24.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	39 12	11	White beacon.	Radar reflector.
23162.6 Q 0852.5	-Ujung Sadah.	1° 03.9' S 100° 23.9' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	46 14	11	STARBOARD (A) G, beacon, topmark.	Radar reflector.
23162.8 Q 0853	-Ujung Cino.	1° 04.2' S 100° 23.9' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	46 14	11	STARBOARD (A) G, beacon, topmark.	Radar reflector.

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INDONESIA (SUMATERA-WEST COAST)							
23164 Q 0864	Ujung Batumandi (Ujung Sungei Bramei).	1° 02.4' S 100° 22.8' E	Fl.(3)W. period 20s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 14.7s	528 161	26	White tower, stone base; 46.	
	RACON		M(- -)				(3 & 10cm).
23165 Q 0858	Pulau Toran.	1° 02.3' S 100° 10.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	56 17	12	White metal framework tower; 49.	Radar reflector.
23168 Q 0871	Beting Tampek.	1° 00.4' S 100° 23.1' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	34 10	8	White framework tower.	
23172 Q 0868	Teluk Bayur.	1° 00.3' S 100° 22.6' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	20 6	7	White metal framework tower; 16.	
23176 Q 0870	Karsik Reef, SW. end.	1° 00.1' S 100° 22.5' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	23 7	5	Green beacon; 13.	
23180 Q 0870.2	-NE. end.	1° 00.0' S 100° 22.6' E	L.Fl.W. period 7s fl. 2s, ec. 5s	23 7	7	White beacon; 13.	
23184 Q 0861	Pulau Pisang.	0° 59.7' S 100° 20.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	33 10	10	White metal framework tower; 33.	
23188 Q 0860	Padang.	0° 58.0' S 100° 21.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	30 9	10	White metal framework tower; 13.	
23192 Q 0842	Pulau Bodjo.	0° 38.2' S 98° 31.0' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	391 119	21	White metal tower, stone dwelling; 197.	Visible 202°-113°.
23196 Q 0850	Pulau Karsik.	0° 35.8' S 100° 04.5' E	Fl.(4)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	105 32	16	White metal framework tower; 102.	Visible 248°-163°.
23198 Q 0845	Ingaris.	0° 28.9' S 99° 51.8' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	39 12	13		
23200 Q 0846	Pulau Ujung.	0° 25.1' S 99° 54.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	98 30	12	White metal framework tower; 98.	Radar reflector.
23201 Q 0844	Moller Reef.	0° 04.1' S 99° 24.4' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	39 12	10	White beacon.	
23202 F 1234	Pulau Marit.	0° 01.0' N 98° 15.9' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	49 15	15	White metal framework tower; 49.	
23204 Q 0838	Pulau Sigata.	0° 07.5' S 98° 12.3' E	Oc.W. period 3s lt. 2s, ec. 1s	382 116	26	White metal framework tower; 112.	Obscured beyond Pulau Simuk 094°-102°. Partially obscured beyond islets 183°-222° and beyond Tanjong Hatik 344°-348°.
23206 Q 0838.5	Pulau Simuk.	0° 05.0' S 97° 51.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	12	White beacon.	Radar reflector.

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INDONESIA (SUMATERA-WEST COAST)							
23208 Q 0839.4	Pulutello.	0° 03.3' S 98° 16.7' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	23 7	6	White framework tower; 52.	
23209 F 1235	Pulau Pini.	0° 08.3' N 98° 31.6' E	Fl.W. period 8s fl. 1s, ec. 7s	138 42	16	White metal framework tower; 98.	
23209.2 F 1235.5	-Tg. Simanusu.	0° 10.2' N 98° 47.9' E	Fl.W. period 4s fl. 1s, ec. 3s	102 31	18	White beacon.	
23209.5 Q 0838.7	Pulau Pono.	0° 06.2' S 98° 18.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	13	White beacon.	Radar reflector.
23210 F 1237	Karang Ular.	0° 05.1' N 98° 57.2' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	49 15	15	White metal framework structure; 49.	
23212 F 1236	Pulau Pangkal.	0° 08.5' N 99° 17.6' E	L.Fl.W. period 5s fl. 2s, ec. 3s	187 57	19	White metal framework tower; 26.	
23216 F 1236.5	Air bangis.	0° 12.2' N 99° 22.8' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	33 10	6	White metal framework tower.	
23220 F 1238	Pulau Temang.	0° 21.9' N 99° 05.8' E	L.Fl.W. period 9s fl. 3s, ec. 6s	213 65	20	White metal framework; 72.	Visible 337°-217°.
23224 F 1241	Natal.	0° 33.4' N 99° 06.7' E	Fl.W. period 3s	49 15	6	White beacon.	
23224.5 F 1242	Karang Bayang.	0° 34.4' N 98° 59.3' E	Fl.W. period 5s fl. 1s, ec. 4s	43 13	13	Red beacon, black stripes, round daymark.	
23225 F 1242.5	Sikarakara.	0° 36.7' N 99° 03.6' E	Fl.W. period 5s fl. 1s, ec. 4s	42 13	12	White beacon.	
23228 F 1244	Pulau Labu, (Sidakah).	0° 51.7' N 98° 56.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	213 65	16	White metal framework tower; 49.	Visible 298°-205°. Radar reflector.
23232 F 1255	Teluk Dalam.	0° 32.6' N 97° 49.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	551 168	19	White metal framework tower; 26.	
23236 F 1255.2	-Pier, head.	0° 33.9' N 97° 48.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	105 32	13	White metal framework tower; 98.	
23238 F 1254.6	Legundi.	0° 34.6' N 97° 44.6' E	Fl.W. period 6s fl. 1s, ec. 5s	42 13	12	White beacon.	
23239 F 1254.5	T Soahebohu.	0° 35.6' N 97° 41.0' E	Fl.(4)W. period 18s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 6s	114 35	16	White beacon.	
23240 F 1254	Pulau Hinaka.	0° 52.2' N 97° 20.2' E	Fl.W. period 5s fl. 1s, ec. 4s	178 54	19	White metal framework tower; 105.	Visible 126°-117°. Obscured by outlying islands within 9M.
23244 F 1254.2	-SE. side.	0° 52.0' N 97° 20.2' E	L.Fl.W. period 6s fl. 2s, ec. 4s	33 10	5	Mast; 20.	

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INDONESIA (SUMATERA-WEST COAST)							
23244.2 F 1254.4	Tg Sirombu.	0° 56.5' N 97° 24.4' E	Fl.(4)W. period 18s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 6s	104 32	16	White beacon.	
23245.5 F 1256	Ug Sumabawa.	0° 49.0' N 97° 54.3' E	Fl.(4)W. period 17s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 5s	72 22	13	White metal framework tower; 66.	
23246 F 1257	Punau Sumabawa.	0° 54.5' N 98° 01.2' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	108 33	16	White metal framework tower; 98.	Radar reflector.
23247 F 1262.4	Karang Pandjang.	1° 03.3' N 98° 19.0' E	Q.(6)+L.Fl.W. period 15s	46 14	12	S. CARDINAL YB, beacon, topmark; 33.	
23247.5 F 1253	Sebua.	1° 10.2' N 97° 17.9' E	Fl.W. period 3s fl. 1s, ec. 2s	69 21	14	White beacon; 66.	
23248 F 1248	Tandjung M'ba'a.	1° 18.8' N 97° 35.8' E	Fl.W. period 5s fl. 1s, ec. 4s	247 75	22	White metal framework tower; 69.	Visible from 145°, through S., until obscured by Tanjong Lembrau.
23252 F 1248.4	Gunong Sitoli.	1° 18.0' N 97° 36.0' E	F.R.		2	Mast.	Occasional.
23256 F 1248.2	-Harbor.	1° 18.2' N 97° 36.2' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	33 10	6	Yellow beacon.	
23258 F 1259	Pulau Sarangbuang.	1° 42.2' N 97° 26.5' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	180 55	14	Tower.	
23259 F 1265	Pulau Mansalar.	1° 42.1' N 98° 27.6' E	Fl.W. period 5s fl. 1s, ec. 4s	114 35	14	Beacon.	
23260 F 1250	Gosong Baohi.	1° 26.2' N 97° 10.4' E	Fl.W. period 6s fl. 1s, ec. 5s	98 30	15	White beacon.	
23261 F 1252	Lahewa.	1° 24.5' N 97° 10.1' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	46 14	12	White beacon.	Radar reflector.
23262 F 1251	-Goso Uma Lahewah.	1° 28.4' N 97° 12.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	59 18	12	White metal framework structure; 49.	
23267 F 1262.3	Bintanah.	1° 28.6' N 98° 10.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	108 33	15	White metal framework structure; 98.	
23268 F 1262	South Pylades, SE. reef.	1° 40.8' N 98° 00.7' E	Fl.W. period 8s fl. 1s, ec. 7s	52 16	13	ISOLATED DANGER BRB, tower, topmark; 52.	Obscured by Palau Lakota.
23268.5 F 1260	Pulau Lakota.	1° 50.7' N 98° 01.6' E	Fl.W. period 6s fl. 0.6s, ec. 5.4s	42 13	12	White beacon.	
23269 F 1262.5	Labu Labu Kecil.	1° 34.7' N 98° 36.5' E	Fl.(2)W. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	187 57	15	White metal framework structure; 98.	
23271 F 1245	Pulau Ilir.	1° 16.0' N 98° 49.3' E	Fl.W. period 9s	308 94	24	White metal framework structure.	

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INDONESIA (SUMATERA-WEST COAST)							
23272 F 1263.5	Aik Habil.	1° 43.3' N 98° 47.0' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	33 10	5	Green beacon; 33.	
23276 F 1263.3	Pulau Poncan.	1° 43.1' N 98° 45.8' E	Fl.G. period 2s fl. 0.2s, ec. 1.8s	36 11	5	Green beacon; 36.	
23280 F 1264.5	Sarudut.	1° 43.4' N 98° 46.9' E	Fl.R. period 6s fl. 0.5s, ec. 5.5s	33 10	5	Red beacon; 16.	
23284 F 1263	Ujung Karang.	1° 42.9' N 98° 43.4' E	Fl.(3)W. period 17s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9.5s	134 41	17	White metal framework; 131.	
23285 F 1263.2	P. Pocan Kecil.	1° 43.7' N 98° 45.3' E	Q.(3)W. period 12s	39 12	13	E. CARDINAL BYB, beacon, topmark.	
23288 F 1264	Teluk Sibolga, pier.	1° 44.4' N 98° 46.5' E	Fl.W. period 5s fl. 1s, ec. 4s	43 13	12	White iron framework tower; 39.	F.R. shown from near customhouse in Barus when vessels are in roadstead.
23289 F 1266.3	Ug Silabi.	2° 01.7' N 98° 15.9' E	L.Fl.W. period 10s fl. 2s, ec. 8s	36 11	12	White beacon.	
23290 F 1265.5	Pulau Karang.	1° 58.4' N 98° 20.9' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	42 13	12	Beacon.	Radar reflector.
23291 F 1267.5	Karang Rumambi.	2° 13.5' N 97° 45.9' E	Fl.(2)R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	46 14	13	Red beacon.	
23292 F 1267	Singkel.	2° 16.7' N 97° 48.5' E	Fl.W. period 6s fl. 1s, ec. 5s	49 15	10	White metal framework tower; 98.	
23295 F 1271.5	Pulau Bagu.	2° 17.8' N 97° 24.0' E	Fl.(4)W. period 18s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 6s	148 45	16	White beacon.	
23296 F 1271	Pulau Baleh.	2° 18.0' N 97° 24.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	26 8	6	White metal framework structure; 23.	
23298 F 1270.5	Panjang.	2° 17.1' N 97° 24.4' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	102 31	7	White metal framework tower; 33.	
23300 F 1270	Pulau Panjang.	2° 17.0' N 97° 24.1' E	Q.(3)W. period 6s	33 10	12	White metal framework tower.	
23304 F 1273	Sarang Uln.	1° 58.9' N 97° 23.0' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	135 41	17	White metal framework structure; 131.	
23305 F 1273.5	Pulau Babi.	2° 06.0' N 96° 36.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	105 32	17	White beacon.	
23306 F 1281	Pulau Tepak.	2° 21.0' N 96° 15.1' E	Fl.W. period 9s fl. 0.9s, ec. 8.1s	328 100	18	White beacon.	
23307 F 1280	Pulau Simeuloe.	2° 32.2' N 95° 55.5' E	Fl.(2)W. period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 10s	295 90	18	White beacon.	

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INDONESIA (SUMATERA-WEST COAST)							
23308 F 1274.5	Teluk Sinabang, Ujong Babang.	2° 30.5' N 96° 24.1' E	Fl.W. period 3s	131 40	20	White metal framework tower; 82.	Visible 037°-30'-306° except where obscured by Siumat Island.
23310 F 1278	Tinggi.	2° 50.7' N 95° 57.8' E	Fl.W. period 3s fl. 1s, ec. 2s	115 35	16	White metal framework structure; 98.	
23310.5 F 1277	Ujung Sirih.	2° 40.7' N 96° 09.8' E	Fl.R. period 7s fl. 1s, ec. 6s	49 15	12	Red metal framework structure; 33.	
23311 F 1276	Pulau Siumat.	2° 38.7' N 96° 23.6' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	138 42	17	White beacon.	
23312 F 1275	-Rangasa.	2° 31.9' N 96° 24.1' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	52 16	6	STARBOARD (A) G, beacon, topmark; 49.	Radar reflector.
23316 F 1274	--Panjang Island.	2° 29.2' N 96° 23.1' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	52 16	6	STARBOARD (A) G, beacon, topmark; 33.	
23317 F 1278.5	-Ujung Sibigo.	2° 50.9' N 95° 54.7' E	Fl.G. period 5s fl. 1s, ec. 4s	46 14	15	Green beacon.	
23318 F 1279	Salaut Besar.	2° 57.9' N 95° 23.9' E	Fl.(3)W. period 20s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 15.5s	144 44	18	White beacon.	
TAPAKTUAN:							
23320 F 1284	-Ujung Kupiah.	3° 15.3' N 97° 10.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	184 56	8	White metal framework tower; 46.	Visible 229°-133°.
23322 F 1291	Teluk Susoh.	3° 43.0' N 96° 48.6' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	39 12	10	White metal framework tower; 23.	
23324 F 1290	Susoh.	3° 43.1' N 96° 48.7' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	33 10	12	Green beacon; 23.	
23326 F 1289	Ujung Raya.	3° 44.2' N 96° 31.2' E	Fl.(4)W. period 20s	138 42	25	White metal framework structure; 131.	
23328 F 1292	Ujung Kareueng, Teluk Muelaboh.	4° 07.5' N 96° 07.6' E	L.Fl.W. period 8s fl. 2s, ec. 6s	89 27	11	White iron framework tower; 82.	Visible 269°-124°.
23328.5 F 1292.2	Krueng Teunom.	4° 26.8' N 95° 48.0' E	Fl.R. period 7.5s fl. 0.8s, ec. 6.7s	112 34	14	Red beacon.	
23329 F 1292.3	Rangas.	4° 38.2' N 95° 31.2' E	Fl.W. period 5s fl. 0.9s, ec. 4.1s	164 50	17	White beacon.	
23329.5 F 1292.35	Ujung Baro.	4° 39.2' N 95° 32.6' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	197 60	17	PORT (A) R, beacon, topmark.	
23330 F 1292.5	Palau Raya.	4° 52.4' N 95° 22.0' E	Q.(2)W. period 5s	236 72	18	White beacon.	
23331 F 1292.7	Ug Tangkura.	5° 06.6' N 95° 16.8' E	Q.(3)W. period 5s	147 45	16	White beacon.	

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INDONESIA (JAWA-ADJACENT ISLANDS)							
SELAT SUNDA:							
23332 Q 1050.2	-Tanjung Layar.	6° 44.9' S 105° 12.8' E	Fl.(3)W. period 15s	163 50	18	White metal framework tower; 98.	Visible 007°-139° and 199°- 237°.
	-RACON		X(- • • -)				
23333 Q 1050.1	-Tanjung Parat.	6° 31.7' S 105° 16.0' E	Fl.W. period 4s fl. 1.5s, ec. 2.5s	75 23	16	White beacon.	
23333.4 Q 1050.15	-Tanjung Waton.	6° 36.8' S 105° 06.0' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	82 25	14	White beacon.	
23333.5 Q 1050.3	-Tanjung Alangalang.	6° 38.8' S 105° 22.2' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	39 12	8	SPECIAL Y, beacon, "X" topmark.	
23334 Q 1050.5	-Tanjung Lesung.	6° 28.4' S 105° 40.0' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	75 23	14	White beacon.	
23334.5 Q 1050.07	-Ci Liman.	6° 29.4' S 105° 48.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15	12	White beacon; 33.	
23334.6 Q 1050.06	-Labuhan.	6° 23.9' S 105° 49.1' E	Fl.W.R.G. period 3s fl. 0.5s, ec. 2.5s	66 20	12	White beacon.	G. 055°-057°, W.-060°, R.- 062°.
23335 Q 1050.05	-Panto Binuangen.	6° 05.7' S 105° 52.9' E	Fl.W. period 7.5s fl. 0.5s, ec. 7s	105 32	16	White beacon.	
23336 Q 1050	-Tanjung Cikoneng (Tjikikoneng).	6° 04.3' S 105° 53.1' E	Fl.(2)W. period 29s fl. 0.4s, ec. 6.6s fl. 0.4s, ec. 21.6s	197 60	19	White metal tower; 190.	Visible 010°-216°.
23338 Q 1051.7	-Paku.	6° 02.5' S 105° 55.5' E	Q.W.		10	N. CARDINAL BY, pole, topmark.	
23340 Q 1051	Pulau Ular.	6° 00.5' S 105° 55.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	210 64	8	White metal framework tower; 39.	Radar reflector.
23342 Q 1051.1	Palau Sangiang.	5° 58.4' S 105° 51.2' E	Fl.W. period 7.5s fl. 0.5s, ec. 7s	105 32	16	White beacon.	
23344 Q 1052	Pulau Tampurung.	5° 54.0' S 105° 55.9' E	Fl.W. period 3s fl. 1s, ec. 2s	253 77	13	White metal framework tower; 72.	Visible 045°06'-045°. Obscured beyond Pulau Sangiang Island 045°- 066°.
	RACON		R(• - •)		20		(3 & 10cm).
23346 Q 1052.5	Merak.	5° 57.6' S 105° 59.8' E	Fl.W. period 5s fl. 1s, ec. 4s	39 12	12	White metal mast; 33.	
23346.5 Q 1052.7	-Inner.	5° 57.8' S 105° 59.8' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	39 12	12	White metal mast; 33.	
23346.7 Q 1052.6	-Jetty.	5° 57.8' S 105° 59.9' E	Fl.W. period 4s fl. 1s, ec. 3s	39 12	12	White metal mast.	
23348 Q 1053	Salat Merak.	5° 56.0' S 105° 59.7' E	Q.(3)R. period 8s	29 9	6	PORT (A) R, beacon, topmark; 20.	

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23352 Q 1053.2	Merak Harbor.	5° 56.0' S 105° 59.5' E	Fl.R. period 2s fl. 0.4s, ec. 1.6s	39 12	6	PORT (A) R, beacon, topmark; 26.	
PELABUHAN SURALAYA:							
23355.1 Q 1053.33	-SW. approach.	5° 53.0' S 106° 01.6' E	Fl.W.R.G. period 5s	29 9	10		G. 132°30'-208°30', W.- 210°30', R.-222°30'.
23355.3 Q 1053.35	-NE. approach.	5° 52.9' S 106° 01.7' E	Fl.W.R.G. period 6s	29 9	10	White metal framework tower; 33.	R. 042°30'-059°30', W.- 061°30', G.-132°30'.
23356 Q 1053.6	-Tanjung Kamal.	5° 53.4' S 106° 01.5' E	Fl.W. period 1.5s fl. 0.5s, ec. 1s	23 7	7	Post; 23.	
23358 Q 1053.7	Tanjung Piatu.	5° 52.9' S 106° 04.2' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	39 12	13	White beacon; 33.	
23358.5 Q 1053.72	-Pulau Salira, N.	5° 52.7' S 106° 03.8' E	Fl.Y. period 4s fl. 0.5s, ec. 3.5s	18 5	4	Yellow beacon.	
23358.6 Q 1053.74	--S.	5° 52.7' S 106° 03.9' E	Fl.Y. period 5s fl. 0.5s, ec. 4.5s	18 5	4	Yellow beacon.	
23359 Q 1053.9	-Beacon.	5° 53.4' S 106° 05.5' E	Fl.R. period 5s fl. 1s, ec. 4s		10	PORT (A) R, pole, topmark.	
23359.5 Q 1053.91	--E.	5° 53.6' S 106° 05.1' E	Fl.G. period 5s fl. 1s, ec. 4s		10	STARBOARD (A) G, pole, topmark.	
23360 Q 1054	Pulau Tunda.	5° 48.9' S 106° 17.0' E	L.Fl.W. period 6s fl. 2s, ec. 4s	105 32	15	White metal framework tower; 98.	Visible 273°-100°.
23361 Q 1054.5	Teluk Banten.	5° 56.3' S 106° 06.8' E	Fl.W. period 3s fl. 1s, ec. 2s	49 15	12	White beacon.	
23362 Q 1055	Karang Antu.	6° 01.6' S 106° 09.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	43 13	12	White beacon; 33.	
23363 Q 1056	Pulau Tidang Besar.	5° 47.5' S 106° 28.2' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 6.5s	20 6	6	ISOLATED DANGER BRB, beacon, topmark.	Island chain marked by beacons.
23363.5 Q 1056.5	Pulau Karangberas.	5° 46.0' S 106° 33.2' E	Q.(9)W. period 15s	20 6	6	W. CARDINAL YBY, beacon, topmark.	
23363.6 Q 1056.7	Layar Island.	5° 43.9' S 106° 33.6' E	Q.(9)W. period 15s	20 6	6	W. CARDINAL YBY, beacon, topmark.	Radar reflector.
23363.7 Q 1056.8	Pandan Island.	5° 42.6' S 106° 33.9' E	V.Q.(9)W. period 10s	20 6	6	W. CARDINAL YBY, beacon, topmark.	Radar reflector.
23363.8 Q 1056.9	Karang Gosong Congak.	5° 42.1' S 106° 36.1' E	Q.(3)W. period 10s	20 6	6	E. CARDINAL BYB, beacon, topmark.	Radar reflector.
23363.9 Q 1056.6	Simedoun Island.	5° 43.3' S 106° 37.1' E	Q.(3)W. period 5s	20 6	6	E. CARDINAL BYB, beacon, topmark.	Radar reflector.
23364 Q 1058	Pulau Payung Besar.	5° 49.4' S 106° 33.3' E	Fl.(2)W. period 10s	105 32	10	White metal framework tower; 98.	Visible 264°-113°.

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23364.5 Q 1043.073	P. Kaliageh.	5° 39.8' S 106° 33.7' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	23 7	8	White pipe beacon.	
23365 Q 1043.068	Putri.	5° 35.7' S 106° 33.9' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	23 7	8	White pipe beacon.	
23366 Q 1060.3	Cituis Port.	6° 01.9' S 106° 34.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	46 14	12	White beacon; 33.	
23366.2 Q 1043.12	Pulau Lancang Besar.	5° 56.2' S 106° 35.3' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	23 7	8	PORT (A) R, beacon, topmark.	
23367 Q 1043.1	Kepulauan Tidung, W.	5° 51.5' S 106° 34.2' E	Q.(9)W. period 15s	23 7	8	W. CARDINAL YBY, beacon, topmark.	
23368 Q 1060	-E.	5° 51.1' S 106° 38.8' E	Fl.(3)G. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	33 10	11	Green beacon; 33.	Radar reflector.
23370 Q 1061	Gosong Dapur.	5° 55.4' S 106° 43.6' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	49 15	10	White metal beacon; 49.	
23372 Q 1060.5	Palau Peniki.	5° 41.6' S 106° 42.9' E	L.Fl.W. period 5s fl. 2s, ec. 3s	105 32	16	White metal framework tower; 98.	
23376 Q 1042	Jaga Utara.	5° 12.2' S 106° 27.5' E	Fl.(2)W. period 11s	161 49	18	White metal framework tower; 158.	
23380 Q 1043	Pulau Segama.	5° 10.2' S 106° 06.5' E	Fl.W. period 5s	149 45	22	White metal framework structure; 131.	
23382 Q 1045	Gosong Serdang.	5° 04.5' S 106° 16.6' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	39 12	13	ISOLATED DANGER BRB, beacon, topmark; 33.	
23383 Q 1045.5	Tg. Bungin.	4° 33.2' S 106° 03.7' E	Fl.W. period 4s fl. 0.3s, ec. 3.7s	39 12	12	White fiberglass tower; 33.	Radar reflector.
23383.5 Q 1045.7	Tanjung Menjangan.	3° 49.3' S 106° 00.4' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	39 12	12	White beacon.	
23384 Q 1044	Chinta Oilfield Terminal.	5° 25.2' S 106° 14.3' E	Mo.(U)W. period 15s		5	Superbuoy.	
23388 Q 1040	Beting Raja.	5° 12.5' S 106° 44.3' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 6.5s	43 13	12	ISOLATED DANGER BRB, beacon, topmark; 39.	Radar reflector.
	RACON		B(- • • •)				
23392 Q 1038	Beting Eka.	5° 17.7' S 106° 54.5' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	49 15	10	ISOLATED DANGER BRB, beacon, topmark; 33.	Radar reflector.
	RACON		B(- • • •)				

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23396 Q 1078	Tanjung Krawang.	5° 54.3' S 107° 00.6' E	Fl.(2)R. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	42 13	10	Red beacon; 46.	
23400 Q 1079	-Northward, 9.3 miles.	5° 45.0' S 106° 58.8' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	29 9	8	Pile, red square topmark.	Radar reflector.
23404 Q 1062	Pulau Damar-besar.	5° 57.4' S 106° 50.5' E	Fl.(4)W. period 20s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 9.2s	171 52	19	White metal tower; 171.	Obscured 292°-296°.
	RACON		D(- • •)		20		(3 & 10cm).
23405 Q 1063	-Karang Ayer Sedang.	5° 59.2' S 106° 46.5' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	39 12	12	STARBOARD (A) G, beacon, topmark; 33.	
23405.5 Q 1061.7	-Pulau Talak.	6° 00.3' S 106° 49.9' E	Fl.W. period 6s fl. 1s, ec. 5s	7 2	12	N. CARDINAL BY, beacon, topmark; 6.	Radar reflector.
23406 Q 1064	-Pulau Nirwana.	6° 01.8' S 106° 51.1' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	43 13	12	Green beacon, triangular daymark point up; 33.	
23407 Q 1065	Karang Jalan.	6° 02.2' S 106° 46.5' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	36 11	10	ISOLATED DANGER BRB, beacon, topmark.	
23407.5 Q 1066	-Karang Pasir.	6° 03.8' S 106° 49.3' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	39 12	12	White fiberglass beacon; 33.	
23407.7 Q 1066.2	Pulau Puteri.	6° 04.1' S 106° 51.4' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	43 13	12	PORT (A) R, beacon, topmark.	
23407.8 Q 1066.4	Karang Lamteri.	6° 04.5' S 106° 49.9' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	43 13	12	Green beacon.	
23408 Q 1069	Sundra Kelapa, E. side.	6° 05.5' S 106° 48.2' E	Fl.(2)R. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	26 8	6	Red beacon.	
23412 Q 1069.4	-W. side.	6° 05.5' S 106° 48.1' E	Fl.(2)G. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	26 8	6	Green beacon.	
23416 Q 1068.5	Jakarta, W. mole.	6° 06.3' S 106° 48.3' E	Fl.R. period 3s fl. 1s, ec. 2s	56 17	5	White stone tower; 52.	
23416.1 Q 1070	Muara Karang.	6° 06.5' S 106° 47.1' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	56 17	14	White beacon.	
23416.2 Q 1070.3	-Entrance, W.	6° 05.9' S 106° 47.2' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	39 12	10	STARBOARD (A) G, beacon, topmark.	
23416.3 Q 1070.4	--E.	6° 05.9' S 106° 47.2' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	39 12	10	PORT (A) R, beacon, topmark.	
23416.4 Q 1070.1	-Inner, W.	6° 06.2' S 106° 47.1' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	33 10	8	STARBOARD (A) G, beacon, topmark.	

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23416.5 <i>Q 1070.2</i>	--E.	6° 06.2' S 106° 47.1' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	33 10	8	PORT (A) R, beacon, topmark.	
23417 <i>Q 1072.7</i>	-Boat entrance, N. side.	6° 06.9' S 106° 48.5' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	33 10	9	Green beacon.	
23417.1 <i>Q 1072.8</i>	--S. side.	6° 06.9' S 106° 48.6' E	Fl.R. period 6s fl. 0.6s, ec. 5.4s	39 12	10	PORT (A) R, beacon, topmark.	
23418 <i>Q 1072.85</i>	Marina Ancol, W.	6° 07.0' S 106° 49.7' E	Fl.R. period 4s fl. 1s, ec. 3s	23 7	6	PORT (A) R, beacon, topmark.	
23418.1 <i>Q 1072.86</i>	-E.	6° 07.0' S 106° 49.7' E	Fl.G. period 5s fl. 1s, ec. 4s	23 7	6	STARBOARD (A) G, beacon, topmark.	
23420 <i>Q 1068</i>	Jakarta Harbor.	6° 07.3' S 106° 48.6' E	Fl.(3)W. period 12.5s	69 21	11	Beacon; 62.	
23422 <i>Q 1072.9</i>	Pipeline.	6° 06.1' S 106° 51.4' E	Fl.Y. period 3s fl. 1s, ec. 2s	23 7	11	SPECIAL Y, beacon, "X" topmark.	Radar reflector.
TANJUNGPRIOK:							
23423.2 <i>Q 1073.2</i>	--Entrance, W.	6° 06.4' S 106° 51.8' E	Fl.G. period 4s fl. 1s, ec. 3s	20 6	5	STARBOARD (A) G, beacon, topmark.	
23423.4 <i>Q 1073.21</i>	---E.	6° 06.4' S 106° 51.8' E	Fl.R. period 4s fl. 1s, ec. 3s	20 6	5	PORT (A) R, beacon, topmark.	
23428 <i>Q 1073.5</i>	-Inner Harbor.	6° 05.8' S 106° 52.9' E	Fl.W. period 10s fl. 1s, ec. 9s	151 46	18	White metal framework tower; 131.	Visible 090°-210°.
RACON							
W(• --)							
23429 <i>Q 1073.4</i>	-Tarusan Entreport.	6° 06.0' S 106° 52.8' E	F.W.R.G.	131 40	W. 19 R. 11 G. 10	White metal framework tower.	F.G. 181°15'-182°15', F.W.- 183°45', F.R.- 184°45'.
23436 <i>Q 1076</i>	-E. mole, head.	6° 04.8' S 106° 53.0' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	72 22	12	PORT (A) R, tower, topmark; 39.	
23436.5 <i>Q 1073.8</i>	-W. mole, head.	6° 04.8' S 106° 52.8' E	Fl.G. period 5s fl. 1s, ec. 4s	69 21	10	STARBOARD (A) G, beacon, topmark; 66.	Radar reflector.
23436.7 <i>Q 1073.6</i>	-Pondok Dayung entrance, E.	6° 05.4' S 106° 52.4' E	Fl.R. period 3s		10	PORT (A) R, beacon, topmark.	Radar reflector.
23436.75 <i>Q 1073.65</i>	--W.	6° 05.4' S 106° 52.3' E	Fl.G. period 4s		10	STARBOARD (A) G, beacon, topmark.	Radar reflector.
23437 <i>Q 1076.5</i>	-Channel.	6° 05.7' S 106° 52.7' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	26 8	5	Red beacon.	
23460 <i>Q 1084</i>	Pulau Rakit.	5° 56.2' S 108° 22.8' E	Fl.W. period 15s fl. 0.5s, ec. 14.5s	178 54	20	White metal framework tower; 164.	

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23464	Permanent Export SBM.	6° 16.0' S 108° 28.0' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s Fl.G. period 3s fl. 0.5s, ec. 2.5s			Mooring buoy.	Radar reflector.
23468 Q 1086	Tanjung Idramuyu Balongan.	6° 20.8' S 108° 22.7' E	Fl.(2)W. period 10s fl. 0.5s, ec. 3s fl. 0.5s, ec. 6s			White beacon.	
CIREBON:							
23472 Q 1090	-E. of Tanah Reef.	6° 31.7' S 108° 41.2' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	43 13	10	White beacon.	
23474 Q 1091.1	-E. of Kali Kasunean.	6° 43.6' S 108° 35.4' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6	4	PORT (A) R, beacon, topmark.	
23474.1 Q 1091.11	--SW.	6° 43.6' S 108° 35.3' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	4	STARBOARD (A) G, beacon, topmark.	
23475 Q 1091.12	-S. of Kali Kasunean.	6° 44.0' S 108° 34.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	6	White beacon.	
23476 Q 1092	-Cirebon.	6° 42.9' S 108° 34.3' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 11.5s	101 31	16	White metal framework tower; 98.	
23480 Q 1092.5	-Cirebon Range, front.	6° 42.3' S 108° 34.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	10	White beacon, white triangular daymark point up; 39.	
23484 Q 1092.51	--Rear, 600 meters 258° from front.	6° 42.4' S 108° 34.1' E	Q.(9)W. period 15s	59 18	13	White beacon, white triangular daymark point down; 52.	
23488 Q 1093	-E. mole, head.	6° 42.3' S 108° 34.7' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	30 9	10	PORT (A) R, beacon, topmark; 23.	
23492 Q 1095	-W. mole, head.	6° 42.3' S 108° 34.7' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	29 9	9	STARBOARD (A) G, beacon, topmark; 23.	
23496 Q 1091.2	-W. of Tg. Bankaderes.	6° 45.3' S 108° 37.1' E	Fl.W. period 6s fl. 1s, ec. 5s	89 27	12	White post; 82.	
23500 Q 1099	-Tg. Sanggarag.	6° 45.2' S 108° 49.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	36 11	6	White beacon; 33.	
23502 Q 1101	Ujung Brebes.	6° 46.0' S 109° 00.7' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	72 22	12	White metal framework structure; 66.	
23504 Q 1105	Rede Tegal.	6° 50.9' S 109° 08.4' E	Iso.W. period 10s	105 32	15	White metal framework tower; 98.	
23508 Q 1106	-E. side of harbor.	6° 51.1' S 109° 08.3' E	Fl.W. period 3s fl. 1s, ec. 2s	62 19	6	White framework tower; 43.	

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23512 Q 1108	-W. mole, head.	6° 50.7' S 109° 08.2' E	Fl.G. period 5s fl. 1.5s, ec. 3.5s	43 13	6	Green framework tower, triangular daymark point up; 39.	
23516 Q 1112	-E. mole, head.	6° 50.7' S 109° 08.2' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	39 12	6	PORT (A) R, beacon, topmark; 39.	
23517 Q 1110	--E. mole.	6° 50.9' S 109° 08.2' E	Fl.R. period 7.5s fl. 1.5s, ec. 6s	36 11	6	Red metal framework tower, square daymark; 30.	
23520 Q 1102	Karang Jeruk.	6° 48.6' S 109° 11.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	52 16	12	White metal framework tower; 46.	
PEKALONGAN:							
23524 Q 1124	-W. mole, head.	6° 51.4' S 109° 41.5' E	L.Fl.G. period 6s fl. 2s, ec. 4s	16 5	3	Metal framework structure; 16.	
23528 Q 1126	-E. mole, head.	6° 51.3' S 109° 41.6' E	Fl.R. period 6s	16 5	3	Metal mast; 16.	
23532 Q 1122	-Pekalongan.	6° 51.5' S 109° 41.5' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	46 14	10	White metal framework tower; 46.	
23539 Q 1128	Tanjung Celong.	6° 54.3' S 110° 02.6' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	99 30	20	White beacon.	
23542 Q 1130	Kendai.	6° 55.8' S 110° 18.5' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	52 16	7	White beacon.	
SEMARANG:							
23544 Q 1131	-SBM.	6° 53.3' S 110° 25.7' E	Iso.R. period 10s			Superbuoy.	
23552 Q 1133	-Range, front.	6° 57.0' S 110° 25.3' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	89 27	12	White beacon, white triangular daymark point up; 82.	
23556 Q 1133.1	--Rear, 600 meters 176°30' from front.	6° 57.3' S 110° 25.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	105 32	12	White beacon, white triangular daymark point down; 98.	
23557 Q 1133.3	-E. breakwater, head.	6° 55.3' S 110° 25.4' E	L.Fl.R. period 10s fl. 3s, ec. 7s	46 14	10	PORT (A) R, tower, topmark; 33.	
23558 Q 1134	-W. outer breakwater, head.	6° 55.1' S 110° 25.1' E	L.Fl.G. period 10s fl. 3s, ec. 7s	46 14	10	STARBOARD (A) G, beacon, topmark.	Light shown from S. end.
23559 Q 1135	-W. inner breakwater, head.	6° 56.1' S 110° 25.1' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	36 11	4	Green metal framework tower; 26.	
23559.1 Q 1136	--Middle.	6° 56.5' S 110° 25.1' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	13 4	4	White post; 10.	
23560 Q 1132	Tanjung Emmas.	6° 57.1' S 110° 25.1' E	Fl.(4)W. period 20s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 9.2s	107 33	22	White metal tower; 98.	

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INDONESIA (JAWA-ADJACENT ISLANDS)							
KEPULAUAN KARIMUNJAWA:							
23568 Q 1140	-P Njamuk.	5° 48.9' S 110° 11.0' E	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	99 30	16	White metal framework tower; 98.	
23568.5 Q 1140.2	-Karang Kapal.	5° 54.2' S 110° 13.2' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	43 13	10	White beacon.	
23569 Q 1141	-Pulau Karimunjava, Tg. Pudak.	5° 53.4' S 110° 26.8' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	82 25	12	White beacon; 49.	
23570 Q 1140.5	-Pulau Genting.	5° 50.6' S 110° 36.3' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	164 50	20	White beacon.	
23571 Q 1140.4	-Pulau Sintok.	5° 46.8' S 110° 30.6' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	39 12	6	SPECIAL Y, beacon, "X" topmark.	
23571.5 Q 1140.3	-Pulau Bengkoang.	5° 43.9' S 110° 24.5' E	Fl.Y. period 4s fl. 0.5s, ec. 3.5s	39 12	6	SPECIAL Y, beacon, "X" topmark.	
23572 Q 1144	Pulau Mondoliko.	6° 23.1' S 110° 55.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	283 86	23	White metal framework tower; 52.	Visible 069°-287°.
	RACON		K(- • -)		17		
23572.5 Q 1144.1	Tg Bugel.	6° 27.5' S 111° 02.9' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	102 31	20	White beacon.	
23572.8 Q 1144.2	Juana Harbor.	6° 39.0' S 111° 10.2' E	Fl.W. period 6s fl. 1.2s, ec. 4.8s	46 14	10	White beacon.	
23573 Q 1144.3	Juana Channel, E. side.	6° 39.1' S 111° 10.1' E	Fl.R. period 3s fl. 1s, ec. 2s	16 5	4	PORT (A) R, beacon, topmark.	Channel marked by lighted beacons.
23573.1 Q 1144.35	-W. side.	6° 39.1' S 111° 09.9' E	Fl.G. period 3s fl. 1s, ec. 2s	16 5	4	STARBOARD (A) G, beacon, topmark.	
23573.3 Q 1144.48	Juana Outer Harbor.	6° 40.0' S 111° 11.3' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	34 10	12	White beacon; 23.	
23573.5 Q 1144.6	Penowo Reef.	6° 38.4' S 111° 15.9' E	Fl.W. period 4s fl. 0.6s, ec. 3.4s	43 13	8	White beacon.	
23573.53 Q 1144.65	Gondoh.	6° 39.0' S 111° 17.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	34 10	12	White beacon; 23.	
23573.57 Q 1144.68	Karang Seliro.	6° 41.2' S 111° 19.3' E	Fl.W. period 4s fl. 1s, ec. 3s	28 8	12	White beacon; 23.	
23573.6 Q 1144.8	Pulau Gurian.	6° 41.4' S 111° 21.6' E	Fl.W. period 2.5s fl. 0.5s, ec. 2s	43 13	10	White metal framework tower; 33.	
23574 Q 1145	Tg. Awarawar.	6° 46.2' S 111° 57.2' E	Fl.W. period 10s fl. 0.4s, ec. 9.6s	230 70	22	White metal framework tower; 131.	Tuban Oil Terminal moored storage tanker 12.3 miles ENE.

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23580 Q 1139	Djapara.	6° 35.1' S 110° 39.3' E	Fl.W. period 3s fl. 1s, ec. 2s	56 17	8	White concrete column; 49.	
23584 Q 1138	Pulau Panjang.	6° 34.5' S 110° 37.5' E	Fl.(4)W. period 20s	138 42	22	White metal framework tower; 49.	
23586 Q 1145.5	Tambakbojo.	6° 47.4' S 111° 53.9' E	Fl.W. period 3s	98 30	15		
PULAU BAWEAN:							
23588 Q 1150	-Sangkapoera.	5° 51.1' S 112° 39.4' E	L.Fl.W. period 5s fl. 2s, ec. 3s	69 21	10	White metal framework tower; 66.	
23589 Q 1151	-Range, front.	5° 50.7' S 112° 38.5' E	Fl.W. period 1.5s fl. 0.5s, ec. 1s	16 5	6	Beacon, white triangular daymark point up.	
23589.4 Q 1151.1	--Rear, 0.65 mile 359°30' from front.	5° 50.1' S 112° 38.5' E	Fl.W. period 3s fl. 1s, ec. 2s	230 70	12	Beacon, white triangular daymark point down.	
23590 Q 1149	--On rock.	5° 51.5' S 112° 38.7' E	Fl.(2)G. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	43 13	12	Green beacon.	
23591 Q 1153	-Tanjung Mantegi.	5° 43.0' S 112° 41.3' E	Fl.W. period 7s fl. 0.5s, ec. 6.5s	272 83	24	White beacon.	
23591.5 Q 1152	-Karang Gosong.	5° 46.1' S 112° 50.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	11	White beacon.	
23592 Q 1424	Masalembu-Besar.	5° 33.6' S 114° 27.1' E	Fl.(3)W. period 21.5s fl. 0.8s, ec. 2.7s fl. 0.8s, ec. 2.7s fl. 0.8s, ec. 13.7s	787 240	35	White metal framework tower; 131.	
	RACON		M(- -)		20		(3 & 10cm).
23593 Q 1424.5	-SW. side of island.	5° 34.8' S 114° 24.8' E	Fl.R. period 6s fl. 0.5s, ec. 5.5s	16 5	6	PORT (A) R, beacon, topmark.	
23604 Q 1426	Keramaian.	5° 02.0' S 114° 37.0' E	Fl.W. period 5s	52 16	8	White metal framework tower; 49.	Radar reflector.
SURABAYA (WESTERN CHANNEL):							
23608 Q 1157	-Ujung Pangkah.	6° 50.4' S 112° 32.9' E	Fl.W. period 6s fl. 0.4s, ec. 5.6s	108 33	16	White beacon.	
23612 Q 1157.5	-Karang Djamuang.	6° 55.6' S 112° 43.6' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	135 41	19	White metal framework tower; 131.	Radiobeacon.
	-RACON		K(- • -)		12		(3 & 10cm).
23616 Q 1158	-Mapia entrance Range, front.	6° 59.3' S 112° 42.0' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	36 11	8	White square concrete tower, red bands, platform; 46.	
23620 Q 1158.1	--Tandjung Piring, middle, 5.1 kilometers 200° from front.	7° 02.0' S 112° 41.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	46 14	7	White metal framework tower; 46.	Visible 194°-204°.

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23624 Q 1158.2	--Sembilangan, Simpil Point, rear, 200 ^m from front.	7° 03.8' S 112° 40.4' E	Fl.(2)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	174 53	19	White round concrete tower, black and white striped top; 164.	
	--RACON		M(- -)				
23625 Q 1158.55	-Gresik, pier.	7° 06.6' S 112° 39.2' E	Fl.W. period 5s fl. 1s, ec. 4s	52 16	8	White beacon.	
23625.2 Q 1158.59	--N.	7° 06.7' S 112° 39.2' E	Q.(4)Y. period 15s	20 6	7	SPECIAL Y, beacon, "X" topmark.	
23625.4 Q 1158.51	--S. of entrance to Kali Miring.	7° 06.6' S 112° 39.2' E	Q.(4)Y. period 15s	20 6	7	SPECIAL Y, beacon, "X" topmark.	
23625.8 Q 1158.85	-Tepen, NE.	7° 08.0' S 112° 39.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15	6	White beacon.	Radar reflector.
23626 Q 1159	-Pojok.	7° 08.4' S 112° 39.3' E	Fl.Y. period 5s fl. 1s, ec. 4s	23 7	5	SPECIAL Y, beacon, "X" topmark.	Marks pipeline with Special beacons 250 meters and 760 meters SSE. Radar reflector.
23627 Q 1160	-Tanjungan.	7° 09.3' S 112° 41.1' E	Fl.Y. period 4s fl. 1s, ec. 3s	43 13	5	SPECIAL Y, beacon, "X" topmark.	Radar reflector.
SURABAYA:							
23632 Q 1174	-Karang Queen Olga Reef.	7° 10.9' S 112° 43.9' E	Fl.R. period 10s	23 7	7	PORT (A) R, beacon, topmark; 26.	
23648 Q 1183.1	-Naval Harbor, Madura Wharf.	7° 11.8' S 112° 44.4' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	29 9	4	Red beacon; 20.	
23656 Q 1178	-W. side of entrance to new harbor.	7° 12.0' S 112° 43.2' E	F.G.	42 13	7	Metal column; 33.	
23668 Q 1170	-Kessek.	7° 09.7' S 112° 46.0' E	Fl.(3)W. period 12s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 7.6s	75 23	10	White beacon; 66.	
23670 Q 1197	Karang Manila.	7° 21.5' S 113° 10.2' E	Fl.(2)W. period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 10s	39 12	12	ISOLATED DANGER BRB, beacon, topmark.	
23672 Q 1198	Sirumpa Rock.	7° 24.2' S 113° 04.3' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 6.5s	52 16	9	ISOLATED DANGER BRB, beacon, topmark.	Radar reflector.
SELAT MADURA:							
23676 Q 1200	-Karang Koko (Zwaantjes Reef).	7° 28.2' S 113° 07.1' E	Fl.(3)W. period 13s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7.5s	59 18	12	ISOLATED DANGER BRB, beacon, topmark; 52.	
23684 Q 1204	-Pasuruan.	7° 37.8' S 112° 55.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	69 21	14	White mast; 59.	
23688 Q 1210	-Probolinggo.	7° 44.3' S 113° 13.4' E	Fl.W. period 7s fl. 1s, ec. 6s	75 23	14	White beacon; 66.	

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23689 Q 1211	--Off shore.	7° 43.0' S 113° 12.9' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	75 23	9	White beacon; 66.	
23692 Q 1212	--W. mole, head.	7° 43.0' S 113° 13.1' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	46 14	12	Green metal framework tower; 46.	During some months of the year in Probolinggo and Besuki, many sugar factories use electric lights which are visible from great distances.
23696 Q 1212.2	--E. mole, head.	7° 43.4' S 113° 13.1' E	Fl.R. period 6s fl. 0.6s, ec. 5.4s	46 14	13	Red metal framework tower; 46.	
23700 Q 1213	--Kar Keranji.	7° 42.4' S 113° 34.7' E	Fl.W. period 5s fl. 1s, ec. 4s	49 15	10	White beacon.	
23704 Q 1214	--Besuki, near river entrance.	7° 43.5' S 113° 41.2' E	Fl.W. period 4s fl. 1.5s, ec. 2.5s	46 14	5	White metal framework tower; 46.	
23708 Q 1220	-Pancarukan.	7° 41.7' S 113° 56.1' E	Fl.W. period 3s fl. 1s, ec. 2s	49 15	6	Black metal framework tower, white bands; 46.	Visible 104°-228°.
23709 Q 1218	--Pancarukan, N. of Klatakan.	7° 42.1' S 113° 55.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	33 10	7	White metal framework tower; 26.	
23710 Q 1222	Tg. Paciman.	7° 36.4' S 114° 02.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	141 43	17	White metal framework tower; 131.	
23712 Q 1223	Karang Mas.	7° 40.6' S 114° 26.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	72 22	11	ISOLATED DANGER BRB, beacon, topmark; 52.	
23714 Q 1225	-Camplong.	7° 13.0' S 113° 19.2' E	Fl.(4)W. period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 15s	69 21	16	White beacon; 69.	
23715 Q 1225.5	--E.	7° 13.1' S 113° 21.8' E	Fl.W. period 5s fl. 1s, ec. 4s	79 24	12	White beacon.	
23716 Q 1226	-Gili Dua.	7° 14.8' S 113° 40.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	65 20	13	White beacon; 66.	Radar reflector.
23718 Q 1228	Giliraja.	7° 14.2' S 113° 47.7' E	Fl.W. period 6s fl. 0.4s, ec. 5.6s	138 42	18	White beacon.	
23720 Q 1230	-Bili Genteng.	7° 11.8' S 113° 52.7' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	49 15	12	White metal framework tower; 36.	Visible 318°-244°. Obscured 066°-084° behind Gili Genteng and Gili Raja.
23724 Q 1232	-Madura Tanjung.	7° 07.9' S 113° 53.6' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	59 18	12	White metal framework tower; 43.	Visible 194°-104°. Obscured by the point N. of Tanjung of the bearing 293° and by various islands.
23728 Q 1236	-Kalianget Range, front.	7° 03.2' S 113° 56.1' E	Fl.G.	33 10	4	White metal framework tower; 26.	
23732 Q 1236.1	--Rear, 146 meters 029° from front.	7° 03.2' S 113° 56.2' E	Fl.R.	59 18	4	White metal framework tower; 43.	Obscured by trees on bearing 355°.

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23736 Q 1238	-Berths Range, front.	7° 03.4' S 113° 56.6' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	33 10	7	White metal framework structure; 26.	
23740 Q 1238.1	--Rear, 100 meters 250° from front.	7° 03.4' S 113° 56.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	39 12	7	White metal framework structure; 33.	
23742 Q 1238.5	Karang Tembaga.	7° 06.6' S 114° 09.0' E	Q.(3)W. period 10s	46 14	12	E. CARDINAL BYB, beacon, topmark.	
23744 Q 1240	Pulau Sapudi.	7° 05.6' S 114° 16.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	194 59	20	White octagonal framework tower; 194.	Visible 322°-230°. Obscured by Pulau Puteran 084°-095°, and by Gili lyang 131°-145°.
23746 Q 1241	-Gayam.	7° 09.9' S 114° 19.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15	12	White pipe beacon; 39.	
23748 Q 1242	--Pier, head.	7° 10.1' S 114° 19.5' E	Fl.R. period 7s fl. 1s, ec. 6s	49 15	6	Wooden mast; 46.	
23750 Q 1243	Batu Putih.	6° 52.2' S 113° 56.4' E	Fl.(2)W. period 15s fl. 0.4s, ec. 3.6s fl. 0.4s, ec. 10.6s	174 53	19	White metal framework tower; 131.	Visible 098°-284°.
23751 Q 1243.5	Sapulu.	6° 53.4' S 113° 06.8' E	Fl.Y. period 2s fl. 0.5s, ec. 1.5s	33 10	14	SPECIAL Y, beacon, "X" topmark.	Radar reflector.
23752 Q 1244	Punta Kamudi.	7° 06.4' S 114° 47.7' E	Fl.W. period 5s fl. 0.8s, ec. 4.2s	59 18	16	White beacon; 49.	
23754 Q 1244.5	Karang Takat.	7° 01.7' S 114° 58.4' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	46 14	13	White beacon.	
23756 Q 1245	Ketapang Bay, Patokanan.	6° 51.3' S 115° 14.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	52 16	12	White beacon; 33.	
23760 Q 1246	Kalisangka.	6° 51.0' S 115° 15.0' E	F.R.	22 7		Wooden mast; 16.	
23762 Q 1244.9	P. Mamburit.	6° 50.4' S 115° 13.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	148 45	21	White beacon.	
23764 Q 1247	Pulau Sakala.	6° 56.3' S 116° 15.9' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 11.5s	151 46	20	White metal framework tower; 131.	
23768 Q 1246.5	Pulau Sepanjang.	7° 11.5' S 115° 53.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	144 44	17	White structure.	
23770 Q 1248.5	Pulau Sesiil.	7° 05.9' S 115° 44.5' E	Fl.(2)W. period 8s fl. 0.4s, ec. 1s fl. 0.4s, ec. 6.2s	33 10	12	White beacon.	
23771 Q 1246.3	Pulau Saibus.	7° 04.0' S 115° 42.7' E	Fl.W. period 6s fl. 1s, ec. 5s	72 22	12		
23773 Q 1224	Tanjung Candiban.	7° 53.3' S 114° 27.7' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	197 60	18	White beacon.	Radar reflector.

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23774 Q 1249	Pulau Tabuan.	8° 02.2' S 114° 27.7' E	Fl.W. period 5s fl. 1s, ec. 4s	56 17	11	White metal framework tower.	
23775 Q 1282.5	Pulau Menjangan.	8° 05.6' S 114° 31.5' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	49 15	6	SPECIAL Y, beacon, "X" topmark.	
23776 Q 1250	-Tanjung Bansering Range, front.	8° 04.2' S 114° 25.5' E	Fl.W. period 4s fl. 1s, ec. 3s	49 15	9	White metal framework tower, white triangular daymark point up; 43.	Visible 215°-033°. Entering Bali Strait from the S.
23780 Q 1250.1	--Rear, 550 meters 005° from front.	8° 03.9' S 114° 25.6' E	Fl.W. period 4s fl. 1s, ec. 3s	92 28	9	White metal framework tower, white triangular daymark point down; 66.	Visible 001°-011°.
23784 Q 1256	-Tanjung Pasir.	8° 05.9' S 114° 26.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	72 22	12	White metal beacon; 43.	Visible 351°-276°. Obscured by Pulau Tabuan 201°-204°.
23788 Q 1257	-Meneng.	8° 07.7' S 114° 24.0' E	F.R.				
23791 Q 1257.5	-Gilimanuk, entrance.	8° 09.3' S 114° 26.1' E	Fl.R. period 4s fl. 1s, ec. 3s	39 12	8	Red beacon.	
23792 Q 1258	--S.	8° 09.8' S 114° 26.1' E	Fl.R. period 4s	39 12	8	PORT (A) R, beacon, topmark.	
23792.5 Q 1258.1	--Off shore.	8° 09.7' S 114° 26.2' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	39 12	8	SPECIAL Y, beacon, "X" topmark.	
23804 Q 1282	-Tanjung Pengambengan.	8° 23.9' S 114° 35.0' E	Fl.W. period 5s fl. 1s, ec. 4s	141 43	18	White metal framework tower; 131.	
23806 Q 1261	-Tanjung Sembulungan.	8° 27.3' S 114° 23.6' E	Fl.W. period 3s fl. 0.6s, ec. 2.4s	62 19	12	White beacon; 33.	
23821 Q 1261.5	-Bedadung.	8° 22.7' S 113° 27.6' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	138 42	18	Tower; 33.	
23821.2 Q 1262	Sempu.	8° 25.5' S 112° 43.0' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	75 23	12	White beacon.	
23821.3 Q 1262.5	Teluk Segoro Wegi.	8° 22.2' S 111° 43.3' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	167 51	12	White beacon.	
23821.5 Q 1262.8	Teluk Pacitan.	8° 14.7' S 111° 05.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	164 50	12	White beacon.	
23821.6 Q 1263.9	Tg. Sadeng.	8° 11.3' S 110° 47.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	33 10	12	White beacon.	
23821.61 Q 1263	-Range, front.	8° 11.7' S 110° 47.9' E	Iso.W. period 4s	75 23	12	White beacon, white triangular daymark point up.	
23821.62 Q 1263.1	--Rear, 35 meters 064°29' from front.	8° 11.6' S 110° 47.6' E	Iso.W. period 4s	82 25	12	White beacon, white triangular daymark point down.	
23821.7 Q 1264	Tanjung Gunung Batur.	8° 11.2' S 110° 41.8' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	272 83	12	White beacon.	
23821.9 Q 1264.5	Kali Opak.	8° 00.2' S 110° 15.8' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	144 44	15	White tower.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (JAWA-ADJACENT ISLANDS)							
23822 Q 1265	Wates.	7° 55.7' S 110° 06.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	104 32	12	White beacon.	
23822.2 Q 1276.5	Ketawang.	7° 50.8' S 109° 53.2' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	105 32	12	Green beacon.	
23822.4 Q 1276.2	Klirong.	7° 46.8' S 109° 38.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	138 42	15	White tower.	
23822.6 Q 1276	Tanjung Karang Batu.	7° 46.3' S 109° 24.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	207 63	12	White beacon.	
23823 Q 1267	Teluk Penyu.	7° 43.5' S 109° 01.4' E	Iso.W. period 4s	55 17	12	White beacon.	
23823.8 Q 1267.8	Penyu Bay.	7° 41.3' S 109° 05.5' E	L.Fl.W. period 5s fl. 2s, ec. 3s	49 15	15	White metal framework tower.	
CILACAP INLET:							
23824 Q 1268	-Cimiring.	7° 46.9' S 109° 02.6' E	Oc.W. period 4s fl. 3s, ec. 1s	584 178	30	White stone tower; 105.	F.R. shown during firing practice. Radar reflector.
	-RACON		K(- • -)		17		
23828 Q 1270.1	-Entrance Range, front.	7° 45.0' S 109° 01.4' E	Iso.W. period 4s	56 17	8	White tower, white triangular daymark point up.	
23832 Q 1270.11	--Rear, 475 meters 279° from front.	7° 44.9' S 109° 01.2' E	Iso.W. period 2s	75 23	8	White tower, white triangular daymark point down.	
23836 Q 1272	-Second Range, front.	7° 45.8' S 109° 01.5' E	Iso.W. period 4s	56 17	8	White tower, white triangular daymark point up.	
23840 Q 1272.1	--Rear, 125 meters 245°40' from front.	7° 45.9' S 109° 01.4' E	Iso.W. period 2s	69 21	8	White tower, white triangular daymark point down.	
23844 Q 1274	-Third Range, front, B3.	7° 45.9' S 109° 02.0' E	Iso.W. period 2s	39 12	7	Beacon, triangular daymark point up.	
23848 Q 1274.1	--Rear, B4, 89 meters 116° from front.	7° 45.9' S 109° 02.1' E	Iso.W. period 4s	56 17	7	Beacon, triangular daymark point down.	
23852 Q 1270	-Teluk Penyu.	7° 44.1' S 109° 01.2' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	59 18	12	White metal framework tower; 49.	
23856 Q 1274.6	-Tanjung Sodong Range, front.	7° 44.6' S 108° 59.4' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	95 29	7	Beacon, white triangular daymark point up; 16.	
23860 Q 1274.61	--Rear, 30 meters 180° from front.	7° 44.6' S 108° 59.4' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	98 30	7	Beacon, white triangular daymark point down; 20.	
23864 Q 1275.3	-S. end of jetty.	7° 43.9' S 108° 59.3' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	16 5	4	PORT (A) R, beacon, topmark; 16.	Radar reflector.
23868 Q 1275.4	-Jetty, N. head.	7° 43.7' S 108° 59.5' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	16 5	4	PORT (A) R, beacon, topmark; 16.	
23869 Q 1278.2	Teluk Penanjung, Cikembulan, SE.	7° 41.7' S 108° 39.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	10	White beacon.	

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23869.5 Q 1278	-Teluk Parigi.	7° 41.5' S 108° 30.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	39 12	10	White beacon.	
23870 Q 1277	Legok.	7° 48.5' S 108° 28.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	138 42	15	White tower.	
23870.5 Q 1277.5	Manuk Island.	7° 48.8' S 108° 18.0' E	Fl.(2)W. period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	164 50	20	White beacon; 98.	
23870.6 Q 1277.8	Cilacap.	7° 48.6' S 108° 14.2' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	56 17	12	White metal framework tower; 49.	
23871 Q 1279	Teluk Cilauteureum.	7° 39.7' S 107° 41.0' E	Fl.W. period 6s fl. 0.2s, ec. 5.8s	82 25	12	White beacon.	
23871.2 Q 1279.3	Cidaun.	7° 30.0' S 107° 23.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	56 17	12	White metal framework beacon; 49.	
23871.5 Q 1280	Pelabuhan Ratu.	6° 59.2' S 106° 32.6' E	Fl.W. period 7.5s fl. 0.5s, ec. 7s	105 32	16	White beacon.	

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Section 15

Borneo Including Sarawak, Sabah and Brunei

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA (SARAWAK)							
23872 <i>F 1894</i>	Tanjung Datu.	2° 04.7' N 109° 38.6' E	Fl.W. period 15s fl. 0.6s, ec. 14.4s	561 171	18	Round concrete tower; 26.	AIS (MMSI No 995330069).
23876 <i>F 1895.15</i>	Sungai Sematan Range, front.	1° 48.3' N 109° 46.7' E	Fl.R. period 4s	30 9	4		
23880 <i>F 1895.151</i>	-Rear, about 127 meters 212° from front.	1° 48.4' N 109° 46.4' E	Fl.R. period 4s	39 12	4		
23888 <i>F 1896</i>	Batu Lundu, Batu Mandi.	1° 43.7' N 109° 56.4' E	Fl.(2)W. period 10s	23 7	7	Black concrete pile, white bands.	
23892 <i>F 1904.45</i>	Kuala Moyan.	1° 35.8' N 110° 35.1' E	Fl.W. period 5s	20 6	4	White triangular daymark point up.	
23900 <i>F 1896.4</i>	Kuala Sibulaut.	1° 41.7' N 110° 12.6' E	Fl.W. period 4s	22 7	4	Concrete post.	
23906 <i>F 1896.85</i>	Tg Sipang.	1° 48.3' N 110° 20.1' E	Fl.W. period 7.5s		18		
23908 <i>F 1897</i>	Sungei Butal.	1° 41.8' N 110° 22.3' E	Fl.W. period 2s	19 6	4	Mast, white triangular daymark point up.	
SUNGEI SARAWAK:							
23910 <i>F 1897.6</i>	-Tanjung Patong.	1° 45.2' N 110° 30.1' E	Fl.(2)Y. period 5s	49 15	5	Concrete tower, three-legged pile.	
23916 <i>F 1898</i>	-Tanjung Po.	1° 43.5' N 110° 31.4' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	430 131	18	Pyramidal aluminium tower; 49.	Visible 132°-116°. Partially obscured 102°-116°. AIS (MMSI No 995330068).
23920 <i>F 1900</i>	-Tanjung Embang Range, front.	1° 37.5' N 110° 30.5' E	Fl.W. period 3s	70 21	8	Metal framework tower, red diamond daymark, yellow stripes.	Reserve light F.W.
23924 <i>F 1900.1</i>	--Rear, 762 meters 209°30' from front.	1° 37.1' N 110° 30.3' E	Fl.W. period 3s	100 30	8	Metal framework tower, red diamond daymark, yellow stripes.	Reserve light F.W.
23928 <i>F 1901</i>	-River entrance Range, front.	1° 37.5' N 110° 27.2' E	Fl.(2)G. period 6s	105 32	8	Metal framework tower, red diamond daymark, yellow stripes.	Reserve light F.W.
23932 <i>F 1901.1</i>	--Rear, 765 meters 247°18' from front.	1° 37.3' N 110° 26.8' E	Fl.(2)G. period 6s	154 47	8	Metal framework tower, red diamond daymark, yellow stripes.	Reserve light F.W.
23936 <i>F 1901.4</i>	-No 1.	1° 39.0' N 110° 29.7' E	Fl.W. period 6s	30 9	9	White tower.	
23940 <i>F 1901.6</i>	-Tg. Batu, No 2.	1° 37.9' N 110° 27.8' E	Q.G.	30 9	4	White fiberglass tower.	
23944 <i>F 1902.2</i>	-Tanjung Renard, No 3.	1° 35.5' N 110° 27.7' E	Q.G.	49 15	4	White tower.	
23952 <i>F 1902.4</i>	-Batu Blat Reach, No 5.	1° 33.1' N 110° 24.2' E	Q.R.	30 9	4	Red tower; 30.	
-Horseshoe Reach:							
23996 <i>F 1904.2</i>	--No 5.	1° 34.5' N 110° 22.3' E	Q.G.	26 8	10	Concrete structure.	

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MALAYSIA (SARAWAK)							
24016 F 1904.6	Kuala Semera.	1° 33.5' N 110° 40.2' E	Fl.W. period 3s	20	6	4	White triangular daymark point down.
24024 F 1904.75	Kampong Pendam.	1° 30.7' N 110° 44.5' E	Fl.W. period 20s	26	8	4	
24026 F 1904.88	-Pulau Burong.	1° 38.3' N 110° 48.1' E	Fl.W. period 10s				Metal mast; 90.
24028 F 1904.7	Sungai Sebangan.	1° 32.9' N 110° 45.9' E	Fl.W. period 6s	30	9	8	Metal framework tower, white triangular daymark point up.
24040 F 1904.9	Kuala Tebela.	1° 32.8' N 110° 51.5' E	Fl.W. period 6s	20	6	4	Metal mast, white triangular daymark point up.
24044 F 1905	Batang Lupar, Kampong Sebuyau.	1° 31.3' N 110° 56.2' E	Fl.R. period 2s	40	12	6	Metal mast, white triangular daymark point up.
24052 F 1905.8	Kuala Samarang.	1° 41.0' N 111° 06.3' E	Fl.R. period 4s	20	6	3	White triangular daymark point down.
24056 F 1905.6	Tg. Batang Marau.	1° 45.4' N 111° 05.1' E	Fl.W. period 4s	39	12	5	Framework tower.
24060 F 1909.6	Kuala Nyabor (Kuala Grigat).	2° 03.0' N 111° 11.0' E	Fl.W. period 4s	20	6	4	Mast, white triangular daymark point up.
24064	<i>Batang Rajang Approach Buoy.</i>	2° 10.0' N 111° 04.0' E	Fl.(2)W. period 10s				Red and white striped buoy. Radar reflector.
24068 F 1908	Tanjung Jerijeh.	2° 09.3' N 111° 10.0' E	Fl.(3)W. period 15s fl. 0.2s, ec. 1.6s fl. 0.2s, ec. 1.6s fl. 0.2s, ec. 11.2s	125	38	23	White metal framework tower, white square daymark, red and yellow checkered trapezoidal daymark; 121. AIS (MMSI No 995330073).
24076 F 1909.4	Tg. Selalang.	2° 05.6' N 111° 12.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	53	16	6	White metal framework tower, white square daymark; 55.
24078 F 1909.1	Wong Sands.	2° 06.2' N 111° 08.9' E	Fl.W. period 7.5s	36	11	18	
	RACON		R(• - •)				(3 & 10cm).
24084 F 1913	Kuala Belawi.	2° 13.9' N 111° 11.4' E	Fl.W. period 4s	20	6	4	White triangular daymark point down.
24088 F 1914	Tg. Sedi.	2° 25.9' N 111° 18.1' E	Fl.W. period 5s	33	10	6	Framework tower.
24090 F 1914.2	Tg. Pasir.	2° 26.2' N 111° 15.2' E	Fl.W. period 2s				
24093 F 1913.9	Kual Paloh.	2° 29.5' N 111° 11.7' E	Fl.(4)W. period 20s			16	Beacon.
24096 F 1915	Kampong Betanak.	2° 37.6' N 111° 17.6' E	Fl.W. period 15s	20	6	4	
24100 F 1915.5	Kampong Penipak.	2° 41.9' N 111° 17.2' E	Fl.W. period 20s	20	6	4	
24104 F 1916	Tanjung Sirik.	2° 46.8' N 111° 19.3' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	125	38	23	Metal framework tower; 118. AIS (MMSI No 995330074).
	RACON		K(- • -)				(3 & 10cm).
24105 F 1915.8	-Reef, S.	2° 48.7' N 111° 16.3' E	Fl.Y. period 5s	28	9	5	Concrete tower, three-legged pile.
24107 F 1915.9	--N.	2° 51.3' N 111° 18.4' E	Fl.(2)Y. period 5s	28	9	5	Concrete tower, three-legged pile.
24108 F 1916.4	Bruit.	2° 42.5' N 111° 22.8' E	Q.W.	20	6	5	Mast, triangular daymark point up; 20.

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MALAYSIA (SARAWAK)							
24112 <i>F 1917</i>	Tanjung Jol.	2° 41.8' N 111° 25.9' E	Fl.(3)W. period 15s	39	8	Metal mast, triangular daymark point up; 20.	
24116 <i>F 1917.4</i>	Kuala Matu.	2° 42.8' N 111° 28.0' E	Fl.(2)W. period 10s	21	5	Metal mast, white triangular daymark point up; 20.	
24120.5 <i>F 1918.4</i>	Tanjung Duga.	2° 50.1' N 111° 40.6' E	Q.W.	20	5	Beacon, white triangular daymark point up.	
24122 <i>F 1918.21</i>	Kuala Igan.	2° 51.0' N 111° 38.5' E	Fl.W. period 3s	47	5		
24124 <i>F 1920</i>	Kuala Oya, Entrance, W. side.	2° 52.5' N 111° 52.4' E	Fl.W. period 6s	30	5	Metal tripod, white triangular daymark point up.	
24125 <i>F 1920.2</i>	-Beacon.	2° 53.2' N 111° 52.2' E	Fl.W. period 7s		4	Beacon.	
24134 <i>F 1922.4</i>	Kuala Mukah Range, front.	2° 54.5' N 112° 05.6' E	Q.R.	26	9	Metal framework tower; 30.	
24134.1 <i>F 1922.41</i>	-Rear, 180°05' from front.	2° 54.1' N 112° 05.7' E	Q.R.	49	9	Metal framework tower; 30.	
24135.5 <i>F 9516.31</i>	D35 Q-A Platform RACON.	3° 45.8' N 112° 03.8' E	D(- • •)		10	Platform.	
24140 <i>F 1923.41</i>	Batang Balingian.	3° 00.9' N 112° 35.3' E	Fl.(2)W. period 6s	50	5	White metal framework tower, white triangular daymark point up; 59.	
24141 <i>F 9526.3</i>	Central Luconia Gas Field Platform.	4° 20.1' N 112° 40.7' E	Mo.(U)W. period 15s		15	Platform.	
	RACON		L(• - • •)				
24142 <i>F 1923.6</i>	Kuala Tatau, N.	3° 05.7' N 112° 47.5' E	Fl.(2)W. period 10s	16	5		
24144 <i>F 1923.7</i>	Kuala Tatau entrance Range, front.	3° 05.0' N 112° 47.7' E	Fl.W. period 4s	16	6		
24148 <i>F 1923.71</i>	-Rear, 162° from front.	3° 05.2' N 112° 47.4' E	Fl.W. period 4s	39	6		
24152 <i>F 9516.4</i>	Tanjung Kidurong Approach.	3° 15.0' N 112° 42.0' E	Mo.(U)W. period 15s			Vent stack.	
24156 <i>F 1924</i>	Kuala Bintulu Range, front.	3° 11.2' N 113° 02.0' E	F.G.	39	6		Moved to meet changes in the channel.
24160 <i>F 1924.1</i>	-Rear, 91 meters 098°30' from front.	3° 11.2' N 113° 02.1' E	F.G.	67	6	White framework tower.	Tidal signals.
24164 <i>F 1924.3</i>	Kuala Bintulu, N. side of entrance.	3° 11.3' N 113° 01.5' E	Fl.(2)W. period 10s	26	5		Fl.(2)G. 6s 5M marks stranded wreck 430 meters SSW.
24168 <i>F 1925</i>	Tanjung Kidurong.	3° 16.5' N 113° 04.0' E	Fl.(2)W. period 15s	295	23	Metal framework tower; 69.	AIS (MMSI No 995330077).
BINTULU:							
24172 <i>F 1925.2</i>	-Outer Range, front.	3° 15.3' N 113° 04.3' E	Iso.R. period 12s	98	15	White trapezoidal daymark; 98.	Radar reflector.
24176 <i>F 1925.21</i>	--Rear, 840 meters 100°04' from front.	3° 15.2' N 113° 04.8' E	Iso.R. period 12s	148	18	White trapezoidal daymark; 148.	Synchronized with front. Radar reflector.
24176.3 <i>F 1925.57</i>	-Resilient Beacon.	3° 16.4' N 112° 57.3' E	Iso.W. period 2s	33		Beacon, red and white round daymark.	Landfall mark.
	-RACON		B(- • • •)				(3 & 10cm).
24176.6 <i>F 1925.58</i>	-BPA Beacon.	3° 15.3' N 113° 02.8' E	Q.W.	20	8	White pile.	

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MALAYSIA (SARAWAK)							
24176.7 <i>F 1925.25</i>	-Outer breakwater 27.	3° 15.8' N 113° 03.0' E	Oc.R. period 6s	19 6	5	Red structure.	
24177 <i>F 1925.3</i>	-Inner Range 28A, front.	3° 15.7' N 113° 04.7' E	Iso.R. period 6s	39 12	14	Red trapezoidal daymark; 59.	Radar reflector.
24178 <i>F 1925.31</i>	--Rear 28B, 200 meters 085°04' from front.	3° 15.7' N 113° 04.8' E	Iso.R. period 6s	52 16	14	Red trapezoidal daymark; 72.	Synchronized with front. Radar reflector.
24178.5 <i>F 1925.35</i>	-LNG basin, 16.	3° 15.8' N 113° 03.7' E	Fl.R. period 2s				
24178.6 <i>F 1925.33</i>	--32.	3° 15.8' N 113° 03.4' E	Fl.R. period 2s				
24179 <i>F 1925.4</i>	-Inner breakwater, N., 26.	3° 15.7' N 113° 04.0' E	Oc.R. period 4s	10 3	5	Red structure.	
24179.5 <i>F 1925.45</i>	--S., 25.	3° 15.5' N 113° 04.0' E	Oc.G. period 4s	10 3	5	White structure.	
24180 <i>F 1925.55</i>	-Shell loading jetty, 33.	3° 15.6' N 113° 04.4' E	Oc.R. period 5s	10 3	5		
24180.5 <i>F 1925.5</i>	-Petroleum jetty 34.	3° 15.7' N 113° 04.5' E	Oc.R. period 5s	10 3	5		
24181 <i>F 1925.78</i>	-Batu Likau.	3° 22.1' N 113° 07.9' E	Fl.Y. period 5s	38 11	5	Concrete tower, four-legged pile.	
24184 <i>F 1925.8</i>	Tanjung Payong.	3° 44.2' N 113° 25.4' E	Fl.W. period 10s	75 23	16	Fiberglass beacon.	
24188 <i>F 1926</i>	Kuala Suai Range, front.	3° 47.6' N 113° 29.5' E	Fl.W. period 6s		4	White triangular daymark point up.	
24192 <i>F 1926.1</i>	-Rear, 30 meters from front.	3° 47.7' N 113° 29.4' E	Fl.W. period 6s		4	White triangular daymark point down.	
24196 <i>F 1926.6</i>	Kuala Niah.	3° 58.0' N 113° 42.3' E	Fl.W. period 6s	23 7	5		
24204 <i>F 1928</i>	Kuala Sibuti Range, front.	3° 59.4' N 113° 43.7' E	Fl.W. period 3s	16 5	4	White triangular daymark point up.	
24208 <i>F 1928.1</i>	-Rear, 30 meters from front.	3° 59.5' N 113° 43.4' E	Fl.W. period 3s	19 6	4	White triangular daymark point down.	
24212 <i>F 1929</i>	Kuala Bakam.	4° 15.8' N 113° 56.0' E	Fl.W. period 6s	20 6	4	Mast, white triangular daymark point up.	
24216 <i>F 1930</i>	Miri, Tanjung Lobang.	4° 21.7' N 113° 57.7' E	Fl.W. period 10s fl. 1s, ec. 9s	154 47	16	Gray metal framework tower; 92.	AIS (MMSI No 995330076).
24231 <i>F 1932.6</i>	Kuala Baram, NW.	4° 36.1' N 113° 56.1' E	Fl.Y. period 5s	29 9	5	Concrete tower, three-legged pile.	
24238 <i>F 1932.9</i>	Kuala Baram, SE.	4° 35.6' N 113° 57.3' E	Fl.W. period 2s				
24240 <i>F 1934</i>	Tanjung Baram.	4° 35.7' N 113° 58.6' E	Fl.(3)W. period 20s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 11.8s	128 39	23	Gray metal framework tower; 148.	AIS (MMSI No 995330075).
BRUNEI							
24241 <i>F 1934.5</i>	Kuala Belait Range, front.	4° 35.2' N 114° 10.9' E	F.G.	19 6	2		May be moved to meet changes in channel.
24241.5 <i>F 1934.51</i>	-Rear, 103°30' front.	4° 35.3' N 114° 10.7' E	F.G.	19 6	2		

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BRUNEI							
24244 F 1934.9	Sungai Tutong.	4° 46.8' N 114° 36.3' E	Fl.(2)W.	33	4	Metal mast.	
24245 F 1935	Binturan Firing Range, B1.	4° 53.2' N 114° 40.6' E	Fl.Y. period 10s			Gray beacon.	
24245.2 F 1935.2	-B2.	4° 56.0' N 114° 45.2' E	Fl.Y. period 5s			Gray beacon.	
24248 F 1934.8	Ampa Patches.	4° 57.1' N 114° 22.3' E	Fl.(4)W. period 20s	57 17	12	Metal tripod.	
24249 F 9527.48	-Magpie Oilfield.	5° 06.0' N 114° 27.0' E	Fl.(3)W. period 10s	98 30	15	Oil platform.	
	-RACON		M(- -)				(3 & 10cm).
24252 F 9527.3	Fairley Oilfield.	4° 56.7' N 114° 04.2' E	Fl.(2)W. period 10s	79 24	15	Platform.	
	RACON		F(• • - •)		20		(3 & 10cm).
BRUNEI CHANNEL:							
24256 F 1939	-North Rambler Banks, No 26.	4° 59.3' N 115° 05.8' E	Fl.R. period 4s	29 9	5	Platform, concrete pile structure, yellow square daymark, black top.	Tide gauge. Radar reflector.
24256.2 F 1939.5	-No 20.	4° 59.6' N 115° 05.5' E	Q.(3)+L.Fl.W. period 15s			Black beacon, yellow band, two triangular daymark bases together.	Radar reflector.
24257 F 1940	-Muara Bar, No 27.	4° 59.5' N 115° 05.3' E	Q.(3)W. period 10s	18 5	8	E. CARDINAL BYB, beacon, topmark.	Radar reflector.
24258 F 1940.2	-Pulau Maura Besar Range, front.	4° 59.7' N 115° 05.9' E	F.W.	33 10	10	Beacon, white triangular daymark point up.	
24259 F 1940.21	--Rear, 280 meters 051° from front.	4° 59.8' N 115° 06.0' E	F.W.	53 16	12	Beacon, white triangular daymark point down.	
24260 F 1940.3	-Badu Kang East, No 28.	4° 57.7' N 115° 03.8' E	Fl.R. period 3s	30 9	5	Three pile concrete structure, red diamond daymark.	Radar reflector.
24264 F 1940.4	-Badu Kang West, No 29.	4° 58.0' N 115° 03.4' E	Fl.G. period 3s	30 9	6	Three pile concrete structure, green diamond daymark.	Radar reflector.
24265 F 1941	-South BarBank No 30 Range, front.	4° 56.2' N 115° 01.9' E	Fl.(2)R. period 3s	29 9	4	Wooden framework tower, concrete pile structure, red square daymark.	
24266 F 1941.1	--Pulau Churmin, N. end, rear, about 880 meters 226°54' from front.	4° 55.9' N 115° 01.5' E	Fl.(2)W. period 10s	52 16	12	Metal framework tower, red and white square daymark.	
24268 F 1941.2	-Barrier Bar, No 31.	4° 56.0' N 115° 01.7' E	Q.G.	26 8	4	Concrete tripod, green square daymark.	Radar reflector.
24272 F 1941.6	-Churmin Rock No 32.	4° 56.0' N 115° 01.5' E	Q.R.	26 8	4	Concrete tripod, red square daymark.	Radar reflector.
24276 F 1941.8	-Tanjong Simasta No 33.	4° 54.3' N 115° 00.3' E	Fl.(2)G. period 3s	30 9	4	Concrete tripod, green square daymark.	
24280 F 1942	-Pelambayan No 35.	4° 53.1' N 114° 58.6' E	Fl.G. period 10s	24 7	4	Concrete tripod, green square daymark.	
24284 F 1942.4	-Buang Tawar No 36.	4° 52.5' N 114° 58.0' E	Fl.R. period 3s	30 9	4	Concrete tripod, red square daymark.	
24288 F 1942.7	-Bandar Seri Begawan, Kota Batu No 37.	4° 52.4' N 114° 57.7' E	Fl.G. period 5s	20 6	2	Concrete pile structure, green square daymark.	
24290 F 1942.9	-No 38.	4° 51.7' N 114° 56.9' E	Q.R.			Red beacon, square daymark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
BRUNEI							
24292 <i>F 1943</i>	-Pulau Sibungor, No 39.	4° 51.8' N 114° 57.3' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	30 9	4	Concrete tripod, green triangular daymark point up.	
24294 <i>F 1943.2</i>	-No 41.	4° 52.4' N 114° 57.0' E	Fl.(4)G. period 10s			Green beacon, triangular daymark point up.	
24295 <i>F 1943.3</i>	-No 38A.	4° 52.5' N 114° 56.9' E	Fl.(2)R. period 15s			Red beacon, square daymark.	
24296 <i>F 1943.4</i>	-No 40.	4° 52.8' N 114° 57.0' E	Fl.(4)R. period 10s	36 11	5	Concrete tripod, red square daymark.	
24298 <i>F 1943.5</i>	-No 42.	4° 53.0' N 114° 56.9' E	Fl.R. period 5s			Red beacon, square daymark.	
24315 <i>F 1945</i>	Tanjung Trusan.	4° 58.5' N 115° 10.7' E	Fl.W. period 6s	36 11	10	White framework tower, white triangular daymark point up.	
24316 <i>F 1938</i>	Tanjung Sapo, on Pulau Muara Besar, No 22.	4° 59.7' N 115° 07.7' E	Fl.W.R. period 10s fl. 1s, ec. 9s	91 28	10	Silver metal framework tower.	R. 153°-221°, W.-088°. Lighted beacons 60, 62, 64 and 66 mark channel to Tg. Lumba Lumba.
MUARA HARBOR:							
24328 <i>F 1936.5</i>	-Muara entrance Range, front.	5° 01.3' N 115° 05.1' E	F.G.	49 15	10	Pile, red triangular daymark point up, white stripes.	
24332 <i>F 1936.51</i>	--Rear, 1037 meters 209°37' from front.	5° 00.8' N 115° 04.8' E	F.G.	92 28	12	Framework tower, red triangular daymark point down, white stripes.	
24334 <i>F 1936.55</i>	-No 1AW.	5° 04.0' N 115° 06.5' E	Q.G.	36 11	6	Green pile beacon.	
24335 <i>F 1936.56</i>	-No 2AE.	5° 03.9' N 115° 06.7' E	Q.R.	36 11	6	Red pile beacon.	
24336 <i>F 1936.4</i>	-No 1, near W. breakwater, head.	5° 03.6' N 115° 06.3' E	Q.G.	35 11	6	Concrete pile structure, green square daymark.	Radar reflector.
24340 <i>F 1936.42</i>	-No 2, East.	5° 03.5' N 115° 06.5' E	Q.R.	36 11	6	Concrete pile structure, red square daymark.	Radar reflector.
24344 <i>F 1936.43</i>	-Training Wall No 3, West.	5° 03.1' N 115° 06.0' E	Fl.G. period 3s	30 9	6	Concrete pile structure, green square daymark.	Radar reflector.
24348 <i>F 1936.44</i>	-No 4, East.	5° 03.0' N 115° 06.2' E	Fl.R. period 3s	30 9	4	Concrete pile structure, red square daymark.	Radar reflector.
24352 <i>F 1936.45</i>	-No 5, West.	5° 02.4' N 115° 05.6' E	Fl.G. period 5s	30 9	6	Green pile.	Radar reflector.
24356 <i>F 1936.46</i>	-No 6, East.	5° 02.5' N 115° 05.9' E	Fl.R. period 5s	30 9	4	Concrete pile structure, red square daymark.	Radar reflector.
24360 <i>F 1936.6</i>	-No 7, near W. breakwater, head.	5° 02.1' N 115° 05.4' E	Fl.(3)G. period 5s	30 9	6	Platform, concrete tripod, green square daymark.	Radar reflector.
24362 <i>F 1936.47</i>	-SE. of Naval Base.	5° 01.8' N 115° 05.4' E	Q.R.		4	Red beacon.	
24364 <i>F 1937</i>	-No 12, close NW. of Tanjung Ledong.	5° 01.3' N 115° 04.6' E	Fl.(2)R. period 5s	19 6	3	Platform, piles, red and white square daymark.	Radar reflector.
24365 <i>F 1937.2</i>	-No 14.	5° 00.8' N 115° 04.5' E	Fl.R. period 10s	26 8	3	Platform, three pile concrete structure, red square daymark.	Radar reflector.
24366 <i>F 1937.25</i>	-No 16.	5° 00.3' N 115° 04.8' E	Fl.(2)R. period 15s	29 9	3	Platform, three pile concrete structure, red square daymark.	Fl.(4)Y. beacon marks sewer end 0.7 mile W. Radar reflector.
24367 <i>F 1937.3</i>	-No 18.	4° 59.9' N 115° 05.1' E	Fl.R. period 5s	29 9	3	Platform, three pile concrete structure, red square daymark.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
BRUNEI							
24368 <i>F 1936</i>	Pelong Rocks, southern summit.	5° 04.7' N 115° 03.2' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 11.5s	79 24	13	Aluminum framework tower; 36.	
24372 <i>F 9527.5</i>	-Champion Shoals. -RACON	5° 12.6' N 114° 44.7' E	Fl.(4)W. period 10s C(- • - •)		15		
MALAYSIA (SABAH)							
24375 <i>F 9536.55</i>	Ardasier Reef.	7° 37.1' N 113° 55.9' E	Fl.R.	33 10		Red beacon.	
24376 <i>F 2825.2</i>	Layang-Layang, Swallow Reef.	7° 22.5' N 113° 50.8' E	Fl.W. period 5s	26 8	10	Gray triangular concrete tower.	
24380 <i>F 2825.3</i>	Semarang Barat Besar, Royal Charlotte Reef.	6° 57.0' N 113° 36.0' E	Fl.(2)W. period 10s	26 8	10	Gray triangular concrete tower.	
24384 <i>F 2825.4</i>	Semarang Barat Kecil, Louisa Reef.	6° 20.0' N 113° 14.0' E	Fl.W. period 10s	26 8	10	Gray triangular concrete tower.	
BRUNEI BAY:							
24386.2 <i>F 1945.2</i>	-Kuala Lawas.	4° 59.2' N 115° 24.5' E	Fl.R. period 3s	20 6	5		
24387 <i>F 1946</i>	Sipitang.	5° 05.0' N 115° 32.8' E	Fl.R. period 5s			Beacon, red square daymark.	
24387.5 <i>F 1946.3</i>	-Kuala Padas.	5° 08.0' N 115° 31.7' E	L.Fl.(2)W. period 10s	23 7	5	Red pillar, white stripes, red ball topmark.	
24388 <i>F 1946.5</i>	-Teluk Padas.	5° 09.5' N 115° 31.6' E	Fl.R. period 3s	20 6	5	Pile, red square daymark.	
24390 <i>F 1946.8</i>	Batuan Keraman.	5° 12.0' N 115° 07.3' E	Fl.Y. period 5s	26 8	5	Yellow beacon, piles.	
24391 <i>F 1946.9</i>	Barat Bank.	5° 09.2' N 115° 05.4' E	Fl.R. period 3s	46 14	10	Red beacon.	
24392 <i>F 1947</i>	Pulau Kuraman.	5° 13.4' N 115° 08.1' E	Fl.W. period 5s fl. 0.4s, ec. 4.6s	215 66	24	White tower, red dome; 50.	Obscured from NE. by Pulau Labuan.
24396 <i>F 1949</i>	Pulau Papan.	5° 15.2' N 115° 16.1' E	Fl.W. period 7s	121 37	10	White metal tower, red bands.	AIS (MMSI No 005330109).
VICTORIA (LABUAN):							
24404 <i>F 1951.8</i>	-New Liberty Pier, SE. head.	5° 16.3' N 115° 14.7' E	F.R.		5	Dolphin.	
24418 <i>F 1951.6</i>	-ASB jetty, head.	5° 15.5' N 115° 14.7' E	F.R.				
24424 <i>F 1951.3</i>	-Hamilton Point, Flour Feed Mill Pier.	5° 14.8' N 115° 14.7' E	F.R.		5		F.R. on mill roof 400 meters WNW.
24440 <i>F 1948</i>	-Bethune Head.	5° 23.5' N 115° 15.1' E	Fl.(2)W. period 15s	151 46	10	White metal framework tower; 79.	
24441 <i>F 1953</i>	Sungai Klias.	5° 17.6' N 115° 19.8' E	Q.G.	43 13	5	Green pile.	
24442.1 <i>F 1953.2</i>	Sarangtieng.	5° 17.4' N 115° 22.1' E	Fl.G. period 5s	30 9	6	Five-legged metal structure, green triangular daymark point up.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA (SABAH)							
24442.2 <i>F 1953.4</i>	-Off N. end.	5° 17.9' N 115° 22.5' E	Fl.R. period 5s	30 9	5	Five-legged metal structure, red square daymark.	Visible 185°-050°.
24443 <i>F 1954.2</i>	Pine Point Shoals.	5° 33.3' N 115° 27.1' E	Fl.R. period 5s		8		
24445 <i>F 1954.5</i>	Nosong Shoals.	5° 43.1' N 115° 30.3' E	Fl.G. period 3s		4		
24446 <i>F 1955</i>	Pulau Tiga.	5° 44.0' N 115° 38.3' E	Fl.W. period 10s	236 72	15	White metal tower, red band.	AIS (MMSI No 005331913).
24448 <i>F 1955.6</i>	Dunlop Shoals.	5° 41.7' N 115° 37.7' E	Fl.G. period 3s	23 7	3	Pile beacon, green triangular daymark point up.	
24450 <i>F 1954.4</i>	Tangut Rock.	5° 38.7' N 115° 35.9' E	Fl.R. period 3s		8		
24452 <i>F 1955.7</i>	Kuala Penyu.	5° 35.0' N 115° 37.7' E	Fl.R. period 3s	20 6	5	Pile, red square daymark.	
24457 <i>F 1955.8</i>	Tanjung Papar.	5° 44.9' N 115° 54.0' E	Fl.G. period 5s	20 6	5	Pile, green triangular daymark point up.	
24460 <i>F 9537.5</i>	Dampier Shoals, KTMP-A.	6° 06.0' N 115° 36.0' E	Fl.(2)W. period 15s		10	Platform.	
24461 <i>F 9537.67</i>	Pulau Mangalum.	6° 12.4' N 115° 34.7' E	Fl.Y. period 5s	30 9	5	Concrete tower.	
24461.5 <i>F 9537.675</i>	-N.	6° 13.1' N 115° 35.5' E	Fl.(2)Y. period 5s	30 9	5	Concrete tower.	
24464 <i>F 1956</i>	Pulau Gaya.	6° 02.4' N 116° 00.7' E	Fl.W. period 10s	554 169	15	White metal tower, red band.	Visible 030°-282°. AIS (MMSI No 005331902).
24468 <i>F 1956.6</i>	Pulau Plompong.	6° 00.7' N 116° 04.4' E	Fl.G. period 3s	32 10	6	STARBOARD (A) G, structure, topmark.	
KOTA KINABALU (JESSELTON):							
24472 <i>F 1957</i>	-E. side of Grieve Reef.	6° 00.1' N 116° 04.5' E	Fl.(2)W. period 7s	42 13	6	ISOLATED DANGER BRB, column, topmark; 23.	
24476 <i>F 1957.3</i>	-No 2.	6° 00.1' N 116° 04.2' E	Fl.G. period 3s	33 10	6	STARBOARD (A) G, structure, topmark.	
24480 <i>F 1958</i>	-Gueritz Shoal.	6° 00.0' N 116° 04.8' E	Fl.W. period 2s				F.R. on radio masts 2.9 miles and 4 miles SSW. R. light on building 2 miles ENE.
24484 <i>F 1957.8</i>	-Comber Reef.	6° 00.1' N 116° 05.1' E	Q.R.		3	Red pile, square daymark.	
24488 <i>F 1957.9</i>	-Tanjong Lipat.	5° 59.9' N 116° 05.1' E	Fl.R. period 2s		3	Red pile, ball topmark.	
24492 <i>F 1957.6</i>	--Normanhurst Reef.	6° 00.2' N 116° 05.1' E	Fl.G. period 3s		3	Green pile, triangular daymark point up.	
24496 <i>F 1957.7</i>	--SW. end.	6° 00.1' N 116° 05.0' E	Fl.R. period 3s	36 11	4	Red pile, square daymark.	
24500 <i>F 1958.05</i>	-Pier, head.	6° 00.0' N 116° 05.0' E	FR.			Mooring dolphin.	
24504 <i>F 1958.2</i>	-Harris Reef.	5° 59.8' N 116° 04.4' E	Fl.G. period 2s				
24508 <i>F 1958.9</i>	-Tanjong Aru.	5° 57.6' N 116° 01.5' E	Fl.G. period 5s	18 5	5	Pile, green triangular daymark point up.	
24510 <i>F 1959.8</i>	Sapangar Bay.	6° 04.6' N 116° 07.1' E	Fl.G. period 3s	33 10	6	Beacon, green triangular daymark point up.	Fl.G. 3s on beacon 0.8 mile NE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA (SABAH)							
24510.7 <i>F 1959.46</i>	-Jetty.	6° 05.0' N 116° 06.6' E	Fl.Y. period 6s	7 2	5	Beacon, "X" topmark.	
24510.8 <i>F 1959.45</i>	-Breakwater, head.	6° 04.9' N 116° 06.5' E	Fl.Y. period 4s	7 2	5	Beacon, "X" topmark.	
24510.9 <i>F 1959.44</i>	--Elbow.	6° 04.8' N 116° 06.5' E	Fl.Y. period 2s	7 2	5	Beacon, "X" topmark.	
24511 <i>F 1959.4</i>	-Melanim Point.	6° 04.6' N 116° 06.2' E	Fl.R. period 3s	33 10	6	Beacon, red square daymark.	Fl.R. 3s on beacons 0.9 mile and 1.5 miles NE.
24513 <i>F 1959.82</i>	Tanjong Dalit.	6° 09.5' N 116° 08.4' E	Fl.W. period 5s	26 8	5		
24515 <i>F 1961.3</i>	Slime Rock.	6° 23.3' N 116° 19.2' E	Fl.R. period 5s	31 9	8	Red five-legged metal beacon, square topmark.	Visible 297°-158°.
24520 <i>F 1961.5</i>	Tanjong Nabolan.	6° 22.0' N 116° 20.0' E	Fl.G. period 5s	33 10	4	Green five-legged metal beacon, triangular daymark point up.	
24524 <i>F 1962</i>	Mantanani Islands.	6° 42.7' N 116° 18.3' E	L.Fl.W. period 10s fl. 2s, ec. 8s	155 47	15	Round stone tower; 16.	Visible 278°-258°.
24528 <i>F 9538.2</i>	South Furious Shoals, SFV-A.	6° 47.0' N 116° 14.0' E	Mo.(U)W. period 15s			Vent stack.	
24532 <i>F 1964</i>	Pulau Kalampunian.	7° 03.1' N 116° 44.7' E	Fl.W. period 10s	105 32	15	White metal tower, red band.	AIS (MMSI No 005331903).
24536 <i>F 1968</i>	-Sandilands Rock.	6° 52.3' N 116° 51.7' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8	7	Green tripod; 26.	
KUDAT HARBOR:							
24540 <i>F 1969</i>	-Gueritz Rock.	6° 52.5' N 116° 51.0' E	Q.R.	18 5	3	Pile, black and white checkered triangular daymark point up; 16.	
24544 <i>F 1970</i>	-Wharf, head.	6° 52.7' N 116° 50.7' E	Fl.R.			Dolphin.	
24545 <i>F 1974.3</i>	Sungai Murudu.	6° 36.9' N 116° 49.3' E	Fl.R. period 5s		5	PORT (A) R, beacon, topmark.	
24545.5 <i>F 1974</i>	Sungai Mattunggong.	6° 39.1' N 116° 48.8' E	Fl.G. period 5s		5	STARBOARD (A) G, beacon, topmark.	
24546 <i>F 1971</i>	Pulau Bengkoka.	6° 50.2' N 117° 00.6' E	Fl.G. period 5s			Beacon, green triangular daymark point up.	
24547 <i>F 1973</i>	Zebra Reefs.	6° 45.3' N 116° 58.1' E	Fl.G. period 5s			Beacon, green triangular daymark point up.	
24553 <i>F 1976.2</i>	South Channel Dangers.	7° 04.9' N 117° 08.8' E	Fl.R. period 5s	23 7	6	Pile, red square daymark.	
24561 <i>F 1977.5</i>	-Eastwards.	6° 59.1' N 117° 19.6' E	Fl.R. period 5s			Pile, red square daymark.	
24564 <i>F 1978.6</i>	Lubani Rock.	6° 53.8' N 117° 23.2' E	Fl.G. period 3s	23 7	4	Green pile beacon, triangular daymark point up.	
24568 <i>F 1978</i>	Pulau Kukuban.	6° 55.9' N 117° 24.4' E	Fl.W. period 10s	72 22	15	White metal tower, red bands.	AIS (MMSI No 005331904).
24569.5 <i>F 1978.7</i>	Minna Reefs.	6° 58.0' N 117° 39.7' E	Fl.Y. period 5s	30 9	5	Concrete tower, pile.	
24570 <i>F 1978.8</i>	Dampier Rock.	6° 51.5' N 117° 31.9' E	Fl.(2)W. period 8s	36 11	5	Beacon; 33.	
24580 <i>F 1979</i>	-Gibson Reef.	6° 50.3' N 117° 32.9' E	Fl.G. period 5s	23 7	5	STARBOARD (A) G, pile, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA (SABAH)							
24584 F 1978.9	Sipindung Cay.	6° 51.5' N 117° 32.9' E	Q.R.	20	3	PORT (A) R, pile, topmark.	
24585 F 1979.3	Harrison Reef.	6° 50.1' N 117° 34.4' E	Fl.R. period 5s	26	6	Pile, red square daymark.	
24587 F 1979.7	Pole Reef.	6° 45.6' N 117° 39.5' E	Fl.R. period 10s		5	Beacon; 33.	
24589 F 1979.8	Leonan Reef.	6° 44.5' N 117° 37.5' E	Fl.G. period 5s	20	5	Pile, green triangular daymark point up.	
24593 F 1981	Pulau Lankayan.	6° 31.1' N 117° 55.1' E	Fl.G. period 5s			Beacon; 33.	AIS (MMSI No 005331912).
24596 F 1982	Pulau Silingaan.	6° 10.3' N 118° 03.6' E	Fl.W. period 10s	85	15	Red metal tower, white band; 82.	AIS (MMSI No 005331905).
24604.2 F 1984.8	--SW.	5° 51.7' N 118° 08.5' E	Fl.(2)W. period 6s	23	5	ISOLATED DANGER BRB, beacon, topmark.	
24605 F 1986.5	Allard Bank.	5° 49.3' N 118° 05.9' E	Fl.G. period 5s	23	5	STARBOARD (A) G, beacon, topmark.	
24606 F 1985	Sandakan Harbor, entrance to Trusan Duyong.	5° 48.4' N 118° 08.9' E	Fl.R. period 5s			Beacon, red square daymark.	
24608 F 1986	-Reef.	5° 48.0' N 118° 04.0' E	Q.G.	16	3	Pile, green triangular daymark point up; 16.	Q.R. on radio mast 3 miles NE.
24608.2 F 1985.7	-On reef E. of Tg. Buli Luku.	5° 47.2' N 118° 03.8' E	Fl.R. period 5s		5	Beacon, red square daymark.	
24609 F 1985.3	-Pulau Bai, NE.	5° 47.8' N 118° 07.5' E	V.Q.(3)W. period 5s		6	E. CARDINAL BYB, beacon, topmark.	
24612 F 1987	Selat Kinabatangan.	5° 38.9' N 118° 36.1' E	Fl.W. period 10s	79	15	White metal framework tower, red bands.	
24614 F 1987.3	Benrinnes Reef.	5° 51.3' N 118° 44.8' E	Fl.Y. period 5s	56	10	Metal tower.	
24616 F 1987.5	Pegasus Reef.	5° 46.6' N 118° 50.0' E	Fl.(2)W. period 8s	46	9	ISOLATED DANGER BRB, structure, topmark.	
24617 F 1987.8	Pulau Tambisan, W.	5° 27.8' N 119° 05.8' E	Fl.Y. period 5s	30	5	Concrete tower.	
24620 F 1988	Tanjong Terang.	5° 25.5' N 119° 12.5' E	Fl.W. period 10s	118	15	White metal tower, red bands; 75.	AIS (MMSI No 005331907).
24624 F 1988.3	Tanjong Labian.	5° 08.5' N 119° 12.8' E	Fl.W. period 10s	118	15	White metal tower; red bands.	AIS (MMSI No 005331908).
24632 F 1989	Tanjong Membatu.	4° 56.5' N 118° 38.3' E	Fl.W. period 5s	230	15	White metal framework tower.	
24636 F 1990	Armstrong Reef.	4° 56.0' N 118° 26.0' E	Fl.(2)G. period 15s	26	7	Green framework tower.	
24640 F 1990.2	Pulau Sakar, off E. end.	4° 59.0' N 118° 23.7' E	Q.R.	18	3	Red pile; 16.	
24644 F 1990.24	About 2.8 kilometers NE. of Pulau Sakar.	4° 59.8' N 118° 24.8' E	Fl.G. period 3s	20	3	Green tripod.	
24648 F 1990.3	Halloran Reef.	4° 59.6' N 118° 21.8' E	Q.R.	15	3	Pile, red and white checkered square daymark.	
24652 F 1990.4	Voorwyk Reef.	5° 00.5' N 118° 20.9' E	Q.R.	18	3	Pile, red square daymark.	
24656 F 1990.5	Darvel Bay, Lahad Datu.	5° 01.2' N 118° 19.8' E	Fr.R.	22	6	White wooden framework tower; 20.	
24664 F 1991	Kalunaun.	4° 55.3' N 118° 16.0' E	Fl.W. period 10s	126	17	Metal framework tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA (SABAH)							
24668 F 1991.3	Rashleigh Reef.	4° 44.2' N 118° 17.4' E	Fl.G. period 3s	22 7	5	Green tripod.	
24672 F 1991.32	N. Greep Reef.	4° 43.1' N 118° 15.9' E	Q.R.	15 5	3	Red pile.	
24676 F 1991.36	SW. Greep Reef.	4° 42.3' N 118° 15.3' E	Q.R.	16 5	3	Red pile.	
24680 F 1991.38	Lloyd Reef.	4° 42.0' N 118° 16.1' E	Q.G.	17 5	3	Green column.	
24682 F 1991.72	Semprona, N. entrance.	4° 31.2' N 118° 37.3' E	Fl.(2)W. period 8s	16 5	5	ISOLATED DANGER BRB, beacon, topmark.	
24683 F 1991.84	Range, front.	4° 23.5' N 118° 35.9' E	Fl.(2)W. period 3s	16 5	5	White beacon, white square daymark.	
24683.5 F 1991.85	-Rear, 1650 meters 042°30' from front.	4° 24.2' N 118° 36.5' E	Fl.(2)W. period 5s	16 5	5	White beacon, white square daymark.	
24684 F 1991.6	Pulau Matakang.	4° 34.6' N 118° 56.9' E	Fl.W. period 20s	90 27	15	White metal framework tower; 80.	AIS (MMSI No 005331910).
	RACON		M(- -)				(3cm).
24688 F 1992	Pulau Si Amil.	4° 18.9' N 118° 52.5' E	Fl.(2)W. period 15s	350 107	15	White metal framework tower, red bands; 36.	AIS (MMSI No 005331911).
24696 F 1992.3	Cust Reef.	4° 17.1' N 118° 42.7' E	Fl.R. period 3s	17 5	5	Red tripod.	
24700 F 1992.14	Pulau Ligitan.	4° 09.8' N 118° 52.9' E	Fl.W. period 5s	33 10	11	White metal framework tower, red bands.	AIS (MMSI No 005331901).
24704 F 1992.2	Pulau Sipadan.	4° 06.7' N 118° 37.7' E	Fl.(3)W. period 20s	80 24	14	White metal framework tower, red bands; 72.	Visible 214°-110°.
	RACON		S(• • •)				(3cm).
24708 F 1992.7	Horn Reef.	4° 15.9' N 118° 25.4' E	Fl.R. period 10s	12 4	8	Red tripod; 13.	
24716 F 1993.5	Hand Rock.	4° 08.4' N 118° 10.6' E	Fl.R. period 7s	49 15	10	PORT (A) R, pile, topmark.	AIS (MMSI No 005331915).
24728 F 1994	Batu Tinagat.	4° 13.6' N 117° 58.9' E	Fl.W. period 7s	482 147	20	White tower, red stripes; 98.	AIS (MMSI No 005331914).
	RACON		T(-)		20		(3cm).
24731 F 1999.3	Sibatik Island.	4° 09.8' N 117° 53.7' E	Fl.(2)W. period 12s fl. 1.5s, ec. 2s fl. 1.5s, ec. 7s	138 42	20	White tower; 131.	
24732 F 1995.4	Wicks Rock.	4° 15.1' N 117° 52.3' E	Q.W.	12 4	3	Black beacon.	
24736 F 1997	Adolphy Point.	4° 16.5' N 117° 39.4' E	Fl.(3)Y. period 5s	52 16	9	Metal framework tower, white triangular daymark point up.	Visible 254°-274°. In line 264° with unlit beacon.
24740 F 1999	Coal Mine Reach.	4° 13.8' N 117° 38.1' E	Fl.W. period 5s	65 20	5		Visible 212°30'- 232°30'.
INDONESIA (BORNEO)							
24744 F 1999.6	Palau Nunukan Timur.	4° 03.7' N 117° 45.1' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	49 15	11	PORT (A) R, beacon, topmark; 39.	
24744.5 F 1999.75	Karang Unarang.	4° 00.6' N 118° 04.9' E	Fl.W. period 4s fl. 1s, ec. 3s	66 20	14	White metal framework tower; 49.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
24745 F 1999.7	Makasser Bank.	3° 59.6' N 117° 56.5' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	49 15	12	STARBOARD (A) G, beacon, topmark.	
24745.5 F 1999.73	-Center.	3° 59.4' N 117° 57.5' E	Fl.W. period 5s fl. 1s, ec. 4s	59 18	12	White beacon; 49.	
24746 F 1999.65	Gosong Nunukan.	3° 57.9' N 117° 51.0' E	Q.(3)W. period 10s	46 14	12	E. CARDINAL BYB, beacon, topmark.	
24747 F 1999.8	Karang Banda.	3° 49.5' N 118° 00.6' E	Fl.(2)W. period 12s fl. 0.4s, ec. 1s fl. 0.4s, ec. 10.2s	59 18	11	ISOLATED DANGER BRB, beacon, topmark.	
24748	Lighted Buoy.	3° 24.7' N 117° 56.5' E	L.Fl.W. period 10s			Red and white stripes, red ball topmark.	
24749 F 1999.9	E. of Tg Ahus.	3° 46.1' N 117° 56.5' E	Q.(3)W. period 10s	49 15	10	E. CARDINAL BYB, beacon, topmark.	
24752 F 2000	Pulau Bunyu.	3° 33.4' N 117° 54.6' E	Fl.W. period 6s fl. 0.6s, ec. 5.4s	59 18	11	White beacon.	
24753 F 2000.5	-Tanjung Arang.	3° 26.9' N 117° 52.4' E	Fl.W. period 5s	154 47	18		
24754 F 2001	Tg. Tibi.	3° 28.1' N 117° 40.2' E	Fl.W. period 7s fl. 1s, ec. 6s	43 13	12	White beacon.	
24756 F 2002	Muasa Sebangang, Palau Tiga.	3° 37.1' N 117° 25.9' E	Fl.W. period 3s fl. 1s, ec. 2s			White beacon.	
TARAKAN:							
24760	-Lighted Buoy.	3° 14.7' N 117° 53.3' E	Iso.W. period 2s			Red and white striped buoy.	Radar reflector.
24762 F 2009	-Tg. Batu.	3° 14.3' N 117° 39.2' E	Fl.G. period 5s fl. 1s, ec. 4s	43 13	12	Green beacon.	
24764 F 2008	-Lingkak approach Range, front.	3° 13.7' N 117° 37.2' E	Q.(2)R.	46 14	10	Red beacon.	
24768 F 2008.1	--Rear, about 914 meters 267° from front.	3° 13.7' N 117° 36.8' E	Fl.W. period 5s fl. 1s, ec. 4s	62 19	11	Black metal beacon, white triangular daymark point down; 49.	
24770 F 2007	-SW.	3° 10.0' N 117° 31.2' E	Fl.R. period 4s fl. 0.3s, ec. 3.7s	52 16	12	Red beacon.	
24771 F 2010.2	-Tg. Keris, SE.	3° 15.6' N 117° 33.0' E	Fl.R. period 6s fl. 0.3s, ec. 5.7s	49 15	12	PORT (A) R, beacon, topmark.	
24772 F 2010	-Tanjung Mengacu.	3° 14.5' N 117° 37.5' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	46 14	10	Green metal beacon; 26.	
24772.5 F 2014.3	Makapan.	2° 59.8' N 117° 49.7' E	Fl.W. period 6s fl. 1s, ec. 5s	46 14	10		Radar reflector.
24773 F 2015.5	Pulau Panjang.	2° 22.8' N 118° 11.9' E	Fl.W. period 5s	46 14	11	White beacon.	
24773.1 F 2014.5	Karang Balikpapan.	2° 34.8' N 118° 00.6' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s	46 14	10	White metal framework structure; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
24774 F 2015	Tg Bolituwatan.	2° 18.5' N 118° 33.9' E	Fl.(2)W. period 15s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 10.7s	180 55	18	White tower; 131.	
24775 F 2015.7	Karang Derawan.	2° 15.8' N 118° 14.1' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	46 14	8	White metal framework structure; 33.	
24775.1 F 2016.5	Karang Tidung.	2° 09.5' N 118° 10.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	46 14	10	ISOLATED DANGER BRB, structure, topmark; 33.	
24775.5 F 2019	Bakungan Island.	2° 06.0' N 118° 44.4' E	Fl.W. period 10s fl. 1s, ec. 9s	108 33	22	White beacon; 98.	
24776 F 2016	Sangkalakki.	2° 05.1' N 118° 24.7' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	49 15	11	White metal framework tower; 43.	Radar reflector.
24778 F 2024.3	Muara Pantai.	2° 01.8' N 117° 51.7' E	Fl.G. period 3s	43 13	8	Green beacon.	
24779 F 2024.2	-S.	1° 57.7' N 117° 53.6' E	Fl.W. period 7s fl. 1s, ec. 6s	43 13	12	White beacon.	
24780 F 2018	Karang Malalungan, N. point.	1° 55.6' N 118° 27.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	7	Red metal framework tower; 26.	
	RACON		K(- • -) period 40s		5		(3cm).
24782 F 2020	Karang Gongsungan.	1° 57.3' N 118° 48.7' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	42 13	10	White beacon.	
24784 F 2022	Karana Muaras, Pulau Sambit.	1° 46.4' N 119° 02.5' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	141 43	18	White tower.	
24786 F 2022.5	Karang Besar.	1° 33.5' N 118° 24.0' E	Fl.W. period 9s fl. 0.9s, ec. 8.1s	42 13	10	White beacon.	
24787 F 2022.3	Bilang Bilangan Island.	1° 33.9' N 118° 57.0' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	43 13	16	White beacon; 33.	Radar reflector.
24788 F 2024.5	Tanjung Mangkalihat.	0° 59.5' N 118° 59.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	138 42	18	White metal framework tower; 108.	Visible 180°-023°. Partially obscured by trees 000°-023° at short distances. Radiobeacon.
	RACON		T(-) period 40s		8		Azimuth coverage 180°-000°. (3cm).
24790 F 2024.6	Birahbirahan.	0° 41.6' N 118° 28.4' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	46 14	11	ISOLATED DANGER BRB, beacon, topmark.	
24792 F 2024.7	Sangkulirang.	0° 46.3' N 118° 04.3' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	43 13	8	Red metal framework structure; 26.	Radar reflector.
24792.5 F 2024.65	Pulau Miang Besar.	0° 43.0' N 118° 00.7' E	Fl.W. period 6s fl. 1s, ec. 5s	167 51	19	White lighthouse.	
24793 F 2024.73	Karang Tg Bungalun.	0° 36.7' N 117° 50.0' E	Fl.(2)W. period 6s	42 13	12	ISOLATED DANGER BRB, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
24794 F 2024.75	Sanggata.	0° 32.9' N 117° 37.2' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	430 131	16	White structure.	Radar reflector.
24794.1 F 2024.81	-Channel beacon.	0° 32.1' N 117° 46.5' E	Q.W.	23 7	7	N. CARDINAL BY, beacon, topmark.	Channel marked by lighted beacons. Radar reflector.
	-RACON		K(- • -)				(3 & 10cm).
24794.2 F 2024.82	--S.	0° 29.9' N 117° 44.6' E	Q.(6)+L.Fl.W. period 15s	23 7	4	S. CARDINAL YB, beacon, topmark.	Radar reflector.
24796 F 2024.8	Sengata Reef.	0° 19.6' N 117° 42.5' E	Fl.(2)W. period 8s	82 25	10		
LITHOU HARBOR:							
24796.6 F 2025	-Entrance Range, front.	0° 08.9' N 117° 32.0' E	Q.W.	39 12	8	White beacon, red bands, triangular daymark point up.	
24796.7 F 2025.1	--Rear, 300 meters 284° from front.	0° 09.0' N 117° 31.9' E	Iso.W. period 4s	66 20	9	White beacon, triangular daymark point down.	
24797 F 2025.4	-Batutanbu Range, front.	0° 07.9' N 117° 33.3' E	Q.W.	39 12	8	White beacon, red bands, triangular daymark point up.	
24797.1 F 2025.41	--Rear, 320 meters 148° from front.	0° 07.7' N 117° 33.3' E	Iso.W. period 4s	66 20	9	White beacon, white triangular daymark point down.	
24797.4 F 2025.6	-Segaja Range, front.	0° 09.8' N 117° 32.5' E	Q.W.	39 12	8	White beacon, black bands, triangular daymark point up.	
24797.5 F 2025.61	--Rear, 320 meters 116° from front.	0° 09.7' N 117° 32.7' E	Iso.W. period 4s	66 20	9	White beacon, white triangular daymark point down.	
24797.8 F 2025.7	-Kiampan.	0° 10.5' N 117° 31.5' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	33 10	4	STARBOARD (A) G, beacon, topmark.	
24798 F 2025.8	-On reef.	0° 10.4' N 117° 31.1' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	33 10	4	PORT (A) R, beacon, topmark.	
24799 F 2025.9	Tg. Pokoayi.	0° 10.8' N 117° 30.1' E	Mo.(U)W. period 15s fl. 0.6s, ec. 0.6s fl. 0.6s, ec. 0.6s fl. 1.8s, ec. 10.8s	49 15	6	White framework beacon.	
BONTANG HARBOR:							
24800 F 2028	-Entrance Range, front.	0° 03.8' N 117° 32.8' E	Q.W.	52 16	9	White beacon, red bands, triangular daymark point up; 52.	
24804 F 2028.1	--Rear, 600 meters 308° from front.	0° 04.0' N 117° 32.5' E	Q.W.	75 23	12	White beacon, triangular daymark point down; 75.	
24808 F 2027	-Berasbasah.	0° 03.8' N 117° 33.6' E	Fl.(3+2)W. period 20.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 5.5s fl. 1s, ec. 1.5s fl. 1s, ec. 5.5s	118 36	22		
24810 F 2028.2	-Range, front.	0° 02.4' N 117° 32.3' E	Q.W.	23 7	12	White beacon, white triangular daymark point up.	
24810.1 F 2028.21	--Rear, about 1540 meters 297° from front.	0° 02.8' N 117° 31.5' E	Iso.W. period 4s	59 18	16	White beacon, white triangular daymark point up.	
24812 F 2028.3	-Second Range, front.	0° 04.9' N 117° 32.5' E	Q.W.	52 16	9	White beacon, black bands, triangular daymark point up; 52.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
24816 F 2028.31	--Rear, 650 meters 337° from front.	0° 05.2' N 117° 32.4' E	Q.W.	75 23	12	White beacon, triangular daymark point down; 75.	
24817 F 2029	--Range, common front 3A.	0° 06.0' N 117° 30.6' E	Q.W.	52 16	9	White beacon, black bands, triangular daymark point up; 52.	
24817.2 F 2029.1	--Rear, 300 meters 045° from common front.	0° 06.1' N 117° 30.8' E	Iso.W. period 6s	75 23	12	Beacon, white triangular daymark point down.	
24817.4 F 2028.9	--Rear 3B, 600 meters 307° from common front.	0° 06.2' N 117° 30.4' E	Q.W.	75 23	12	White beacon, triangular daymark point down; 75.	
24818 F 2029.4	--Range, front 4A.	0° 05.6' N 117° 28.6' E	Q.W.	75 23	9	White beacon, red bands, triangular daymark point up; 52.	
24818.1 F 2029.41	--Rear 0D, 600 meters 269° from front.	0° 05.6' N 117° 28.4' E	Q.W.	98 30	12	White beacon, triangular daymark point down; 82.	
24818.3 F 2030.2	--MD 1.	0° 05.4' N 117° 29.5' E	Fl.Y. period 4s fl. 0.5s, ec. 3.5s	30 9	4	Dolphin, yellow "X" topmark.	
24818.4 F 2030	--MD 7.	0° 05.4' N 117° 29.3' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	30 9	4	Dolphin, yellow "X" topmark.	
24818.5 F 2029.7	--No 26.	0° 05.6' N 117° 29.0' E	Fl.R. period 2s			PORT (A) R, beacon, topmark.	
24818.7 F 2029.8	--No 28.	0° 05.6' N 117° 28.9' E	Fl.R. period 2s			Red beacon, red triangular daymark point up.	
24819 F 2031	--Range 1G, front.	0° 04.6' N 117° 29.0' E	Q.W.	52 16	9	Beacon, white triangular daymark point up.	Radar reflector.
24819.1 F 2031.1	--Rear 0G, 300 meters 229°45' from front.	0° 04.5' N 117° 28.9' E	Iso.W. period 6s	52 16	12	Beacon, white triangular daymark point down.	W. harbor entrance marked by lighted beacons. Radar reflector.
SUNGAI MAHAKAM:							
24828 Q 1462.39	--Range, front 2.	0° 57.7' S 117° 18.5' E	Q.W.	29 9	10	White beacon, white triangular daymark point up; 33.	Radar reflector.
24832 Q 1462.41	--Range, front 2A.	0° 56.4' S 117° 18.2' E	Q.W.	33 10	10	White beacon, red bands, white triangular daymark point up.	Radar reflector.
24836 Q 1462.4	--Common rear, 700 meters 316° from 2, 2,900 meters 181°35' from 2A.	0° 57.4' S 117° 18.2' E	Iso.W. period 2s	49 15	12	White beacon, white triangular daymark point down.	Radar reflector.
24840 Q 1462.2	--Range, front, 1.	0° 58.2' S 117° 19.0' E	Q.W.	33 10	10	White beacon, white triangular daymark point up; 33.	
24844 Q 1462.21	--Rear, 1,500 meters 170° from front.	0° 59.2' S 117° 19.1' E	Iso.W. period 4s	52 16	12	White beacon, white triangular daymark point down; 33.	
	--RACON		M(— —) period 30s		5		(3cm).
24844.5 Q 1460.6	--Pegah Estuary.	1° 01.1' S 117° 21.4' E	Mo.(U)Y. period 15s fl. 0.4s, ec. 0.4s fl. 0.4s, ec. 0.4s fl. 1.4s, ec. 11.9s	59 18	12	Yellow beacon, platform.	
	--RACON		Q(— — • —)				
24845 Q 1460.7	--Pecko.	1° 06.5' S 117° 22.5' E	Fl.(2)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 12s	39 12	12	White beacon; 13.	
24846 Q 1462	--Bukuan Island.	0° 51.7' S 117° 17.8' E	Fl.(2)W. period 15s	135 41	20	White metal framework structure.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
24847 Q 1459.94	Sepinggang entrance.	0° 59.1' S 117° 09.8' E	Q.R.		33 10	Red beacon, red rectangular daymark; 23.	
24848 Q 1459.95	-Entrance, SW.	0° 59.1' S 117° 09.8' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s		33 10	STARBOARD (A) G, beacon, topmark; 23.	
24852 Q 1462.6	-Range, front.	0° 47.3' S 117° 16.9' E	Q.W.		23 7	White beacon, white triangular daymark point down.	
24856 Q 1462.61	--Rear, 240 meters 320° from front.	0° 47.3' S 117° 16.9' E	Iso.W. period 2s		39 12	White beacon, white triangular daymark point down.	
24858 Q 1468.05	-Tg Bayor.	0° 42.2' S 117° 40.2' E	Fl.(4)W. period 20s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 13.5s		46 14	White beacon.	
24859 Q 1468.25	Kayumojara.	0° 41.3' S 117° 33.0' E	Fl.(3)W. period 15s fl. 0.4s, ec. 1s fl. 0.4s, ec. 1s fl. 0.4s, ec. 11.8s		62 19	White beacon.	
24860 Q 1462.8	Muara Jawa Range, No 4, front.	0° 39.4' S 117° 18.3' E	Iso.W. period 2s		23 7	White beacon, white triangular daymark point up.	
24864 Q 1462.81	-Rear 300 meters 001°30' from front.	0° 39.3' S 117° 18.3' E	Iso.W. period 4s		39 12	White beacon, white triangular daymark point down.	
24868 Q 1464	Tg. Muaraberan Range, front.	0° 35.9' S 117° 17.6' E	Q.W.		30 9	White metal structure, white triangular daymark point up.	
24872 Q 1464.1	-Rear, 300 meters 356° from front.	0° 35.7' S 117° 17.6' E	Iso.W. period 4s		46 14	White metal structure, white triangular daymark point down.	
24876 Q 1463	Sungaimariam Range, front.	0° 35.0' S 117° 16.0' E	Q.W.		23 7	Beacon, white triangular daymark point up.	
24880 Q 1463.1	-Rear, 650 meters 324°30' from front.	0° 34.3' S 117° 16.3' E	Iso.W. period 2s		39 12	Beacon, white triangular daymark point down.	
24881 Q 1468.46	Tg Tamarong.	0° 25.3' S 117° 39.1' E	L.Fl.W. period 10s fl. 2s, ec. 8s		108 33	White tower; 98.	
24882 Q 1468.5	Muara Berau.	0° 20.2' S 117° 29.9' E	L.Fl.W. period 10s fl. 2s, ec. 8s		46 14	White beacon.	
TELUK BALIKPAPAN:							
24884	-Outer Light Buoy.	1° 21.5' S 116° 56.7' E	Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	Radar reflector.
24888 Q 1459.2	-Range No 1, front.	1° 18.8' S 116° 53.0' E	Q.W.		16 5	White beacon, white triangular daymark point up; 7.	
24892 Q 1459.21	--Rear, No 2, 1445 meters 306°14' from front.	1° 18.3' S 116° 52.3' E	Iso.W. period 5s		49 15	White beacon, white triangular daymark point down; 49.	
24896 Q 1459.42	-Range, front, 012°30' from common rear.	1° 19.1' S 116° 47.5' E	Q.W.		52 16	Beacon, white triangular daymark point up; 49.	
24900 Q 1459.4	-Range No 3, front.	1° 19.6' S 116° 49.0' E	Q.W.		26 8	White beacon, white triangular daymark point up.	
24904 Q 1459.41	--Common rear, No 4, 1.61 miles 270° from No 3.	1° 19.7' S 116° 47.4' E	Iso.W. period 2s		82 25	White beacon, white triangular daymark point down.	
24908 Q 1459.6	-Range No 5, front.	1° 20.5' S 116° 50.5' E	Q.W.		21 6	White beacon, white triangular daymark point up.	
24912 Q 1459.61	--Rear, No 6, 1000 meters 140° from front.	1° 21.0' S 116° 50.8' E	Iso.W. period 4s		59 18	White beacon, white triangular daymark point down.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
24916	-Free standing drill column (pipe).	1° 20.9' S 116° 48.3' E	Q.W.	49 15	6		Q.W. 14m 6M close S, on pipe.
24918 Q 1459.8	Tanjung Manggar.	1° 12.8' S 116° 58.6' E	Fl.(3)W. period 21s	141 43	18	White metal framework structure; 131.	
24920 Q 1459	-Tanjung Tokong.	1° 16.4' S 116° 48.5' E	L.Fl.W. period 20s fl. 5s, ec. 15s	306 93	25	White dwelling; 26.	Visible 195°30'-040°. Reserve light 2 F.W. 10M. F.R. shown during firing practice.
24922 Q 1459.76	-Tanjung Jenebora.	1° 12.0' S 116° 46.4' E	Fl.R. period 4s fl. 0.6s, ec. 3.4s	52 16	12	PORT (A) R, beacon, topmark.	
24923 Q 1459.73	-Tanjung Makasar.	1° 13.0' S 116° 47.1' E	Fl.G. period 5s fl. 1s, ec. 4s	49 15	11	STARBOARD (A) G, beacon, topmark.	
24923.7 Q 1458	Tg. Maruat.	1° 37.4' S 116° 34.6' E	Fl.W. period 10s fl. 1s, ec. 9s	52 16	12	White beacon.	
24924 Q 1456	Teluk Adang.	1° 44.9' S 116° 28.3' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	49 15	8	White beacon; 49.	
24926 Q 1457.5	Karang Karangan.	1° 54.4' S 116° 33.6' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	49 15	12	E. CARDINAL BYB, beacon, topmark.	Radar reflector.
24928 Q 1455	Teluk Apar.	2° 02.7' S 116° 33.0' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	49 15	12	Red metal framework tower; 39.	Radar reflector.
24929 Q 1457	-Tanjung Giling.	2° 03.2' S 116° 28.6' E	Fl.G. period 7.5s fl. 0.8s, ec. 6.7s	52 16	12	Green beacon.	Fl.R. and Fl.G. lights marks channel upstream.
24932 Q 1454	Aru Bank.	2° 15.5' S 116° 40.2' E	Q.(3)W. period 10s	42 13	12	E. CARDINAL BYB, beacon, topmark.	Radar reflector.
24936 Q 1452	Karang Suling.	2° 22.3' S 116° 43.6' E	Fl.(2)W. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	42 13	12	ISOLATED DANGER BRB, beacon, topmark; 30.	Radar reflector.
24938 Q 1449	Karang Unarang.	2° 29.4' S 117° 03.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	49 15	12	ISOLATED DANGER BRB, beacon, topmark.	
24939 Q 1450	-Reef 17.3 miles N.	2° 11.9' S 117° 00.7' E	Q.(9)W. period 15s	49 15	12	W. CARDINAL YBY, beacon, topmark.	
24940 Q 1447	Karang Grogot.	2° 43.8' S 116° 45.6' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s	49 15	12	White beacon; 49.	
24941 Q 1446.5	Karang Demung.	2° 50.1' S 117° 04.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	46 14	11	ISOLATED DANGER BRB, beacon, topmark.	Radar reflector.
24942 Q 1487	Pulau Seturian.	2° 16.6' S 117° 39.7' E	Q.W.	43 13	12	N. CARDINAL BY, beacon, topmark.	
24944 Q 1488.5	Palau Balabalagan Islands.	2° 32.4' S 117° 56.6' E	Fl.(3)W. period 20s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	131 40	17	White metal framework tower; 141.	
24946 Q 1486.4	Pulau Ambungi.	2° 04.6' S 117° 15.9' E	Q.W.	108 33	15	N. CARDINAL BY, beacon, topmark.	
24946.5 Q 1446	Gosong Takatalu.	3° 04.5' S 117° 42.4' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	39 12	12	White beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
24947 Q 1445	Pulau Larilarian.	3° 30.6' S 117° 27.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	105 32	12	White metal framework tower; 98.	
24948 Q 1444	Kepulauan Sambergelap, on W. island.	3° 39.4' S 116° 36.3' E	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	69 21	12	White metal framework tower; 46.	Obscured by Balang Balangka 261°-266°, and by Sambergelap Island 286°- 306°.
24948.5 Q 1427.8	Sungai Cuka.	3° 52.3' S 115° 21.7' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	49 15	10	White beacon.	
24949 Q 1444.5	Tanjung Mangkok.	3° 22.2' S 116° 25.4' E	Fl.(3)W. period 14s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 9.5s	49 15	12	White beacon.	
24950 Q 1439	Tg. Batu Gemuk.	2° 58.0' S 116° 12.1' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	4	STARBOARD (A) G, beacon, topmark.	
24950.5 Q 1439.4	-Range, front.	2° 56.6' S 116° 12.4' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	16 5	4	White beacon.	
24950.6 Q 1439.6	--Rear.	2° 56.5' S 116° 12.4' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	19 6	4	White beacon.	Lights exist further up river.
24951 Q 1438.3	Selat Laut Beacon.	3° 12.5' S 116° 17.6' E	Fl.W. period 3s fl. 1s, ec. 2s	39 12	5	White beacon.	
24952 Q 1438	-Tg. Pemancingan Range, front.	3° 13.1' S 116° 16.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	12	White structure, white triangular daymark point up; 39.	
24956 Q 1438.1	-Balingkar Hill , rear, 2.8 miles 257° from front.	3° 13.8' S 116° 14.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	219 67	15	White metal framework tower, upper part red; 66.	
24957 Q 1438.22	-Tg Sarantiung.	3° 13.4' S 116° 17.1' E	Fl.W.			Post, green triangular daymark point up.	
24957.5 Q 1438.2	--S.	3° 13.6' S 116° 17.0' E	Fl.W.			Post, green triangular daymark point up.	
24960 Q 1436	-Kotabaru, mole, head.	3° 14.1' S 116° 13.9' E	Fr.	39 12	3	Wooden mast; 33.	
24961 Q 1435.7	-Gosong Payung N.	3° 18.2' S 116° 06.3' E	Q.G.	23 7	5	STARBOARD (A) G, pile, topmark.	
24961.2 Q 1435.5	-Gosong Payung S.	3° 20.8' S 116° 05.6' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	5	STARBOARD (A) G, pile, topmark.	
24962 Q 1435.6	-S. Songap.	3° 20.9' S 116° 06.1' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	23 7	5	PORT (A) R, pile, topmark.	
24963 Q 1435.4	-Beacon.	3° 25.0' S 116° 03.4' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	23 7	5	PORT (A) R, beacon, topmark.	
24963.2 Q 1435.3	-Suwangi E.	3° 26.4' S 116° 02.5' E	Q.(3)W. period 5s	23 7	5	E. CARDINAL BYB, pile, topmark.	
24963.4 Q 1435.2	-Beacon.	3° 27.4' S 116° 02.4' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	23 7	5	PORT (A) R, pile, topmark.	
24963.5 Q 1433	-Gosong Kramat.	3° 30.9' S 116° 01.1' E	Q.(3)W. period 10s	43 13	12	E. CARDINAL BYB, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
24964 Q 1432	-Tanjong Petang, W. side of S. entrance to strait.	3° 36.5' S 115° 58.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	62 19	13	White metal framework tower; 62.	Partially obscured 219°-223°.
24966 Q 1431	-Tg Pangebalan.	4° 01.2' S 116° 01.9' E	Fl.W. period 6s	59 18	12	White beacon.	
24968 Q 1430	Pulau Kunit.	4° 05.1' S 116° 02.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	443 135	18	White metal framework tower; 43.	Visible 237°-177°.
24969 Q 1442.2	Tanjung Seloka.	3° 55.0' S 116° 18.2' E	Fl.W. period 6s	36 11	12	White beacon.	
24970 Q 1442.1	Pulau Birabirahan.	4° 13.6' S 116° 07.6' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	39 12	12	White beacon.	
24972 Q 1434	-Suwangi, S. end.	3° 27.1' S 116° 01.4' E	Fl.W. period 3.5s fl. 0.5s, ec. 3s	92 28	13	White beacon.	
24973 Q 1435	-Batulicin.	3° 27.0' S 116° 00.5' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	72 22	12	White metal framework tower; 66.	
24974 Q 1427.4	Pulau Payongpayongan.	4° 22.8' S 115° 50.3' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	105 32	15	White metal framework tower; 33.	
24976 Q 1442	Sambargalang (Brothers) Islands.	4° 24.2' S 116° 10.4' E	Fl.W. period 5s fl. 1s, ec. 4s	180 55	24	White metal framework tower; 98.	Obscured 209°-219° from 2-12M.
24978 Q 1426.5	Pulau Kelambu.	4° 56.3' S 115° 38.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15	12	White beacon.	Radar reflector.
24980 Q 1442.5	Sabaru.	5° 06.1' S 117° 04.0' E	Fl.(3)W. period 16s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 10.5s	138 42	18	White metal framework tower; 131.	
24982 Q 1442.7	Kalu Kalukuang.	5° 10.4' S 117° 39.4' E	Fl.(4)W. period 30s	144 44	19	White metal framework tower; 131.	
24986 Q 1443.5	Doang Doangan Besar.	5° 24.5' S 117° 56.9' E	Fl.(3)W. period 20s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 13.5s	134 41	18	White metal framework tower.	
24987 Q 1428	Satui Muara.	3° 49.0' S 115° 28.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	59 18	12	White beacon; 49.	
24987.3 Q 1444.3	Pulau Sebuku, S. coast.	3° 39.0' S 116° 22.1' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	59 18	8	White beacon.	
24987.5 Q 1444.2	Pulau Aur.	3° 40.1' S 116° 22.8' E	Fl.W. period 4s fl. 1s, ec. 3s	89 27	12	White beacon.	Radar reflector.
24987.75 Q 1422.08	Mitratama Perkasa Asamasam.	3° 58.1' S 115° 08.6' E	Fl.W. period 10s fl. 1s, ec. 9s	33 10	12	White beacon; 26.	
24987.8 Q 1422.1	Sg. Rakin, E.	3° 57.1' S 115° 10.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	10	White framework tower; 39.	
24987.9 Q 1422.2	Pt. Mandiri.	3° 56.4' S 115° 11.7' E	Fl.W. period 2.5s fl. 0.5s, ec. 2s	39 12	6	White post; 39.	
24987.95 Q 1422.3	IMCM.	3° 56.1' S 115° 12.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	59 18	6	White framework tower; 39.	

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INDONESIA (BORNEO)							
24988 Q 1422	Tanjung Selatan.	4° 10.6' S 114° 39.0' E	L.Fl.W. period 6s fl. 2s, ec. 4s	111 34	17	White metal framework tower; 105.	Visible 274°-106°.
24989 Q 1420	Tekisung.	3° 53.3' S 114° 35.9' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	59 18	14	SPECIAL Y, beacon, "X" topmark; 49.	Radar reflector.
SUNGAI BARITO:							
24992	-Outer Lighted Buoy.	3° 39.7' S 114° 25.7' E	L.Fl.W. period 10s			SAFE WATER RW, pillar.	
24998 Q 1413.45	-Wreck MV Barito 1.	3° 36.8' S 114° 27.2' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	8	STARBOARD (A) G, beacon, topmark.	
25000 Q 1413.7	-Range, front.	3° 31.7' S 114° 29.9' E	Iso.W. period 2s	82 25	16	White beacon, black bands, white triangular daymark point up.	Visible 300°-120°.
25004 Q 1413.71	--Rear, 1700 meters 028°30' from front.	3° 30.7' S 114° 30.4' E	Iso.W. period 4s	131 40	18	White beacon, black bands, white triangular daymark point down.	Visible 300°-120°.
25012 Q 1416	Tanjung Telan.	3° 26.6' S 114° 30.1' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	8	PORT (A) R, beacon, topmark; 20.	
25014 Q 1417	-Pulau Kaget.	3° 26.4' S 114° 30.4' E	Fl.G. period 7s fl. 0.5s, ec. 6.5s	30 9	6	STARBOARD (A) G, beacon, topmark.	
25016 Q 1418	-Sungai Jinga, W. side of river.	3° 23.7' S 114° 29.6' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	23 7	8	PORT (A) R, beacon, topmark.	
25018 Q 1419	-Pulau Kembang.	3° 19.2' S 114° 33.7' E	Fl.W. period 3.5s fl. 1s, ec. 2.5s	49 15	6	White beacon.	
25026 Q 1412.5	-Range, front.	3° 21.5' S 114° 03.7' E	Fl.W. period 1.5s fl. 0.5s, ec. 1s	33 10	8	White beacon, white triangular daymark point up.	
25026.1 Q 1412.51	--Rear, 370 meters 359° from front.	3° 21.2' S 114° 04.2' E	L.Fl.W. period 5s fl. 2s, ec. 3s	59 18	10	White beacon, white triangular daymark point down.	
25028.5 Q 1411.72	Gosong Schunyer.	3° 19.4' S 113° 20.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	43 13	12	White beacon; 30.	
25029 Q 1411.75	Malatayur.	3° 48.0' S 113° 38.6' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	43 13	12	White beacon.	
25030 Q 1411.8	Tanjung Serambut Range, front.	2° 59.4' S 113° 03.2' E	Iso.W. period 2s	49 15	6	Beacon.	
25030.1 Q 1411.85	-Rear.	2° 59.2' S 113° 03.2' E	Fl.W. period 4s fl. 1s, ec. 3s	52 16	6	White beacon; 43.	
25032 Q 1411.6	Tanjung Bandaran.	3° 07.5' S 113° 03.7' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	49 15	8	White metal framework tower; 49.	Radar reflector.
25036 Q 1411.4	Tanjung Siamok.	3° 26.8' S 112° 34.3' E	Q.(2)W. period 5s	66 20	9	White metal framework tower; 49.	
25040 Q 1411.2	Tanjung Puting.	3° 30.6' S 111° 46.8' E	Fl.(3)W. period 14s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 7s	103 31	17	White metal framework tower; 98.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
25042 Q 1411.22	Sangora Banks.	3° 14.0' S 111° 39.2' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	33 10	11	Green beacon.	
25042.5 Q 1411.23	Gosong Beras Besah, S.	3° 06.6' S 111° 32.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	26 8	3	Wooden post; 20.	
25043 Q 1411.24	-N.	3° 05.6' S 111° 32.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	42 13	12	White beacon.	
25044 Q 1411	Tg. Putri.	2° 55.4' S 111° 23.5' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	43 13	12	Red beacon.	Radar reflector.
25046 Q 1411.25	Tg. Kluang.	2° 54.3' S 111° 42.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	10	White beacon.	
25047 Q 1411.3	-Tg. Pangerangan Range, front.	2° 50.1' S 111° 43.9' E	Iso.W. period 2s	29 9	10		
25047.1 Q 1411.31	--Rear, 897 meters 031°06' from front.	2° 49.7' S 111° 44.2' E	Iso.W. period 4s	52 16	12	White beacon, white triangular daymark point down.	
25048 Q 1036	Fox Banks.	3° 30.6' S 110° 10.9' E	Fl.(4)W. period 20s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 13.5s	46 14	12	White metal framework structure; 33.	
25049 Q 1410.3	Gosong Mangkut.	3° 06.6' S 110° 14.9' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 2.5s	49 15	12	White metal framework tower; 33.	
25050 Q 1410	Pulau Bawal, Tanjung Rotan.	2° 44.7' S 110° 02.7' E	Fl.(3)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	220 67	18	White metal framework structure; 98.	
25051 Q 1033.8	Karang Batuan.	3° 16.2' S 108° 58.3' E	Fl.(2)W. period 10s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 7.2s	43 13	12	ISOLATED DANGER BRB, beacon, topmark.	
25052 Q 1034	Gosong Mampango (Discovery East Bank).	3° 34.7' S 109° 10.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	43 13	12	Red and white framework structure; 66.	Radar reflector.
25053 Q 1033.6	Gosong Abadi.	3° 38.9' S 108° 44.9' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	43 13	12	ISOLATED DANGER BRB, beacon, topmark; 33.	
25054 Q 1033.5	Karang Satatan.	3° 21.9' S 108° 37.0' E	Fl.W. period 3s fl. 0.6s, ec. 2.4s	36 11	11	White fiberglass tower; 33.	Radar reflector.
25055 Q 1031	Karang Florence Adelaide.	2° 04.1' S 108° 04.6' E	Fl.(2)W. period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	43 13	12	White beacon.	
25056 Q 1033	Pulau Pesemut.	2° 29.7' S 108° 50.8' E	L.Fl.W. period 5s fl. 2s, ec. 3s	141 43	17	White metal framework structure; 131.	
25058 Q 1405.5	Karang Ontario.	1° 59.8' S 108° 38.9' E	Fl.(2)W. period 5s	49 15	12	ISOLATED DANGER BRB, column, topmark; 33.	Radar reflector.
25060 Q 1406	Palau Serutu.	1° 43.1' S 108° 41.7' E	Q.(3)W. period 10s	574 175	36	White metal framework tower; 82.	
	RACON		T(-) period 30s		8		Azimuth coverage 292°-160°. (3cm).

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INDONESIA (BORNEO)							
25064 Q 1407	Lemen Boedi.	1° 16.4' S 108° 52.3' E	Fl.(2)W. period 8s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 4.5s	157 48	15	White metal framework tower; 49.	Radar reflector.
25064.1 Q 1407.5	Pulau Layah Kecil.	1° 31.5' S 109° 20.2' E	Fl.(2)W. period 15s	235 72	22	White metal framework structure; 131.	
25064.2 Q 1407.2	Pulau Suka.	1° 20.8' S 109° 07.0' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	49 15	12	White fiberglass tower; 33.	
25064.3 Q 1407.3	Pulau Buan.	1° 28.4' S 109° 02.8' E	Fl.(2)W. period 8s fl. 0.4s, ec. 1s fl. 0.4s, ec. 6.2s	49 15	13	White fiberglass beacon; 33.	Radar reflector.
25064.4 Q 1407.7	Pulau Macan.	1° 39.2' S 109° 20.6' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	164 50	19	White fiberglass beacon; 33.	Radar reflector.
KETAPANG:							
25065 Q 1408	-Front.	1° 45.9' S 109° 56.5' E	Iso.W. period 2s	20 6	7	Black beacon, white bands, white triangular daymark point up; 20.	
25066 Q 1408.1	--Rear, 126 meters 116°30' from front.	1° 46.0' S 109° 56.7' E	Oc.W. period 4s fl. 3s, ec. 1s	26 8	7	Black beacon, white bands, white triangular daymark point down; 26.	
25066.2 Q 1409	-Range, front.	1° 45.3' S 109° 56.0' E	Fl.W. period 1.5s fl. 0.5s, ec. 1s	20 6	5	White metal framework structure, white triangular daymark point up; 20.	Visible 229°-049°.
25066.4 Q 1409.1	--Rear, 227 meters 325°30' from front.	1° 45.5' S 109° 56.1' E	Iso.W. period 4s	26 8	5	White metal framework structure, white triangular daymark point down; 26.	Visible 224°-044°.
25067 Q 1408.3	-Harbor.	1° 47.6' S 109° 57.5' E	Iso.W.G. period 2s	49 15	7		W. 145°-150°, G.-299°.
25068 Q 1402	Tanjung Padang Tikar.	0° 39.4' S 109° 14.7' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	49 15	12	White framework tower, black bands; 49.	
25068.5 Q 1402.5	Telok Air.	0° 40.4' S 109° 21.7' E	L.Fl.W. period 8s fl. 2s, ec. 6s	49 15	12	White wooden framework structure; 20.	
25068.7 Q 1400	Tanjung Putus.	0° 16.6' S 109° 04.5' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	49 15	12	White beacon; 39.	
25069 F 1872.6	-Sungei Siak.	0° 00.1' S 109° 17.6' E	Q.G.	49 15	10	White metal framework tower; 26.	
25072 F 1872	-River mouth, front.	0° 04.2' N 109° 09.9' E	Q.W.	52 16	10	White beacon, black bands, white triangular daymark point up; 49.	
			Fl.R. period 2s fl. 0.5s, ec. 1.5s		4		
	-RACON		K(- • -)		10		
25076 F 1872.1	--Rear, 1720 meters 103°30' from front.	0° 04.0' N 109° 10.8' E	Iso.W. period 4s	82 25	10	White beacon, black bands, white triangular daymark point down; 26.	
25077 F 1872.3	-Jungkat.	0° 02.9' N 109° 12.4' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	39 12	6	PORT (A) R, beacon, topmark; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
25077.2 <i>F 1872.4</i>	-Tg. Wajak.	0° 01.7' N 109° 14.5' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	39 12	6	PORT (A) R, beacon, topmark; 33.	
25077.4 <i>F 1872.5</i>	--About 1.5 miles NW. of Batu Layang.	0° 00.6' N 109° 16.8' E	Iso.R. period 2s	36 11	6	White metal framework structure; 26.	
25079 <i>F 1873.2</i>	-Oil jetty.	0° 00.4' N 109° 19.8' E	Q.(4)W. period 8s	49 15	10	White beacon; 49.	F.R. shown on beacons upstream.
25080 <i>F 1880</i>	Pulau Pengiki.	0° 14.7' N 108° 02.4' E	Fl.(3)W. period 20s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 11s	676 206	20	White framework tower; 49.	
25081 <i>F 1879</i>	Pulau Datu.	0° 07.6' N 108° 36.6' E	Fl.(3)W. period 9s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 4.2s	203 62	15	White framework structure; 98.	Visible 190°-030°.
25082 <i>F 1883</i>	Pulau Sitijan.	0° 22.0' N 108° 44.6' E	Fl.(2)W. period 15s	294 90	24	White concrete tower.	
25084 <i>F 1885</i>	Pulau Lemoekoetan.	0° 46.8' N 108° 42.1' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	1030 314	15	White metal framework tower; 59.	
25086 <i>F 1887</i>	Tambelan.	0° 58.5' N 107° 32.6' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	39 12	12	White beacon.	
25086.2 <i>F 1887.5</i>	Karang Takongmangirang.	0° 50.9' N 107° 37.3' E	Q(2).W. period 8s	49 15	12	White fiberglass tower; 33.	Radar reflector.
25086.3 <i>F 1888</i>	Pulau Jangkulan.	0° 44.8' N 107° 19.4' E	Fl.(3)W. period 15s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 10.7s	49 15	12	White fiberglass tower; 33.	
25086.4 <i>F 1888.5</i>	Tokong Kemudi.	0° 55.7' N 106° 44.1' E	Fl.W. period 5s fl. 1s, ec. 4s	427 130	12	White beacon.	
25086.5 <i>F 1889</i>	Pualu Dumdum.	1° 11.5' N 106° 53.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	49 15	13	White beacon; 39.	
25088 <i>F 1890</i>	Tg. Batu, N. extremity of Pulau Penibuengan.	1° 11.1' N 108° 58.1' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	36 11	9	STARBOARD (A) G, beacon, topmark; 36.	
25092 <i>F 1891</i>	Pulau Pekak , W. of Tg. Kalang Base.	1° 12.0' N 108° 57.4' E	Fl.(2)W. period 15s fl. 0.3s, ec. 3.5s fl. 0.3s, ec. 10.9s	433 132	23	White tower; 131.	
25094 <i>F 1892</i>	Pemangkat Range, front.	1° 11.5' N 108° 58.2' E	Iso.W. period 2s	49 15	12	White framework tower, black bands, white triangular daymark point up; 33.	
25094.2 <i>F 1892.1</i>	-Rear, 1148 meters, 094°15' from front.	1° 11.4' N 108° 58.9' E	Iso.W. period 4s	65 20	14	White framework tower, black bands, white triangular daymark point down; 46.	
25096 <i>F 1854</i>	Pulau Murih.	1° 54.1' N 108° 38.9' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	335 102	25	White metal framework tower; 66.	
	RACON		K(- • -)		10		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
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INDONESIA (BORNEO)

KEPULAUAN NATUNA:

25100 <i>F 1850</i>	-Pulau Merunding.	2° 04.2' N 109° 05.9' E	Fl.(3)W. period 15s fl. 0.7s, ec. 2.5s fl. 0.7s, ec. 2.5s fl. 0.7s, ec. 7.9s	121 37	16	White metal framework tower; 98.	
25104 <i>F 1847</i>	Serasan.	2° 29.8' N 109° 00.6' E	L.Fl.W. period 9s fl. 2s, ec. 7s	39 12	7	Tower.	
25106 <i>F 1848</i>	-Batu Pacil.	2° 28.6' N 109° 00.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	41 12	11	PORT (A) R, tower, topmark.	Fl.G. 3s 10M close E.
25107 <i>F 1845</i>	Pulau Seraja.	2° 41.1' N 108° 34.6' E	Fl.W. period 6s fl. 1s, ec. 5s	318 97	24	White beacon.	
25108 <i>F 1844</i>	-Pulau Subi-kechil.	3° 03.0' N 108° 50.9' E	Fl.W. period 5s	272 83	24	White metal framework tower; 72.	Visible 024°-337°. Obscured 040°-042° by Bakan Island.

Section 16

Sulawesi, Halmahera, Lesser Sunda Islands and New Guinea

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA SULAWESI (CELEBES)							
25111.7 F 2051	Dolangan Island.	1° 22.6' N 120° 53.1' E	Fl.W. period 6s fl. 1s, ec. 5s	75 23	12	White beacon; 49.	
25112 F 2050	Tanjung Malagka.	1° 20.2' N 120° 47.7' E	L.Fl.W. period 5s fl. 2s, ec. 3s	187 57	19	White metal framework tower; 82.	Obscured in places by Pulau Dalangan, Pulau Kapas, and the coast.
	RACON		M(- -)				(3 & 10cm).
25113 F 2052	Kandi.	1° 18.4' N 121° 27.2' E	Fl.(3)W. period 20s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 13.6s	394 120	26	Lighthouse; 131.	
25114 F 2040	Manimbaya.	0° 00.5' S 119° 36.7' E	Fl.(2)W. period 20s fl. 0.4s, ec. 9.6s fl. 0.4s, ec. 9.6s	164 50	18	Lighthouse; 131.	
25116 F 2048	Tg. Labuan Dedeh.	1° 03.2' N 120° 47.9' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	52 16	10	White metal framework tower; 49.	
25118 F 2046	Simatang.	1° 04.5' N 120° 23.4' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	102 31	16	White beacon.	
25119 F 2045	Lingian.	0° 59.6' N 120° 12.8' E	Fl.W. period 3s fl. 0.7s, ec. 2.3s	49 15	12	White beacon.	
25120 F 2044	Pulau Tugguan.	0° 34.6' N 119° 47.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	302 92	23	White metal framework tower; 65.	
	RACON		T(-)				(3 & 10cm).
25121 F 2047	Tg. Paligisan.	1° 00.9' N 120° 40.4' E	Fl.W. period 10s fl. 1s, ec. 9s	102 31	16	White beacon.	
25122 F 2047.5	Palau Latungan.	1° 02.8' N 120° 46.4' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	147 45	18	White beacon.	
25124 F 2054	Leok, at customhouse.	1° 11.2' N 121° 25.3' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	59 18	2	Mast; 49.	
25126 F 2058	Karang Baliogut.	1° 07.8' N 122° 26.6' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	39 12	8	White beacon.	
25128 F 2060	Pulau Hulawa.	0° 57.8' N 122° 53.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	131 40	12	White metal framework tower; 82.	
25129 F 2061.1	Karang Otilade.	0° 54.3' N 122° 51.0' E	Fl.W. period 12s fl. 1.2s, ec. 10.8s	39 12	12	White beacon.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS							
25132 F 2062	Teluk Kuandang.	0° 50.8' N 122° 54.1' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	39 12	12	Metal post; 26.	
25134 F 2062.5	Pulau Bangkil.	1° 02.4' N 123° 06.5' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	56 17	15	White fiberglass tower; 33.	Radar reflector.
25136 F 2063	Lubuan Boroko.	0° 56.0' N 123° 16.0' E	F.W.		1		Shown when vessel is expected.
25137 F 2063.3	Pulau Tikus.	0° 51.3' N 123° 55.5' E	Fl.W. period 3s fl. 0.4s, ec. 2.6s	49 15	12	White beacon.	
25139 F 2063.8	Tg Lobu.	0° 59.3' N 124° 13.0' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	80 24	16	White fiberglass beacon; 33.	Radar reflector.
25140 F 2064	Amurang, about 489 meters 270° from Controleur flagstaff.	1° 11.2' N 124° 34.5' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	30 9	10	White beacon; 20.	
25142 F 2064.4	Tetapaan.	1° 17.9' N 124° 30.3' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	39 12	11	PORT (A) R, beacon, topmark.	
TELUK MANADO:							
25144 F 2066	-Manado.	1° 28.5' N 124° 50.0' E	L.Fl.W. period 8s fl. 2s, ec. 6s	105 32	15	White metal framework tower; 39.	
25148 F 2068	--S. mole, head.	1° 29.4' N 124° 50.3' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	39 12	12	Green beacon.	
25152 F 2070	--N. mole, head.	1° 29.9' N 124° 50.1' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	39 12	12	Metal post; 20.	
PULAU TALISEI:							
25156 F 2072	-Tanjung Arus.	1° 53.4' N 125° 05.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	354 108	24	White metal framework tower; 65.	Visible 072°-000°.

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INDONESIA SULAWESI (CELEBES)							
25156.2 F 2070.5	Manterawu Island.	1° 45.8' N 124° 43.9' E	Fl.(2)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	164 50	20	White tower; 131.	
25156.5 F 2071	Likupang.	1° 40.6' N 125° 03.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	33 10	11	White beacon.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS							
25157 F 2079.57	Batukapal.	1° 33.1' N 125° 17.1' E	Iso.W. period 6s	115 35	17	White beacon.	
25158 F 2077	Selat Lembah, Tg Batuangus.	1° 30.9' N 125° 14.6' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	49 15	12	Green beacon; 49.	
25160 F 2078	Lembah Strait, middle part.	1° 27.8' N 125° 14.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	59 18	8	Red and white beacon; 49.	
25162 F 2079.55	Pulau Susulina.	1° 24.5' N 125° 13.3' E	Iso.W. period 6s	82 25	15	White beacon.	
25164 F 2079.5	Pulau Lembah, SW. of island on rock.	1° 23.4' N 125° 09.6' E	Fl.(2)G. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	56 17	10	Green beacon; 39.	Visible 287°30'-208°.
25168 F 2079.6	Lilang.	1° 19.4' N 125° 04.0' E	Fl.W. period 3s fl. 1s, ec. 2s	230 70	20	White metal framework tower; 98.	
25169 F 2079.7	Pakolor.	3° 38.9' N 125° 33.7' E	Fl.W. period 4.5s fl. 0.5s, ec. 4s	413 126	27	White house.	
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INDONESIA (HALMAHERA-SULAWESI (CELEBES)-ADJACENT ISLANDS)							
25172 F 2079	Tg. Labuan Compenie.	1° 25.9' N 125° 11.2' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	190 58	6	White beacon; 33.	Partially obscured E. of 035°30' by Lembah Island.
25176 F 2114	Pasige.	2° 21.2' N 125° 17.7' E	Fl.W. period 2.5s fl. 0.5s, ec. 2s	49 15	12	White metal framework tower; 49.	
25180 F 2116	Pulau Tahulandang, near flagstaff.	2° 20.5' N 125° 23.0' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	46 14	3	White metal post; 39.	
25184 F 2120	Pulau Siau, Ulu, Government wharf.	2° 43.9' N 125° 24.5' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	49 15	12		Not visible bearing less than 261°. Shown when vessel is expected.
25186 F 2119	Mahora.	2° 39.0' N 125° 29.3' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	262 80	23	White beacon.	
25188 F 2120.5	-Toade Manandoe.	3° 24.8' N 125° 31.5' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	65 20	14	White beacon.	
25190 F 2123	Tahuna.	3° 35.6' N 125° 29.1' E	Fl.W. period 3s fl. 1s, ec. 2s	426 130	25	White metal framework tower; 98.	
25192 F 2124	Pulau Sangihe.	3° 36.6' N 125° 29.5' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	105 32	16	White metal building; 30.	Visible 036°-074°. Shown when vessel is expected.
25194 F 2127	Pulau Beng.	3° 28.9' N 125° 44.1' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	348 106	16	White fiberglass beacon; 33.	

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INDONESIA (HALMAHERA-SULAWESI (CELEBES)-ADJACENT ISLANDS)							
25196 <i>F 2126</i>	-Peta, pier, head.	3° 38.9' N 125° 33.6' E	F.R.	29 9	2	Metal mast; 20.	
25196.5 <i>F 2127.5</i>	Pulau Manipa.	3° 45.2' N 125° 33.4' E	Fl.W. period 10s fl. 0.1s, ec. 9.9s	226 69	24	White beacon; 98.	
25197 <i>F 2128</i>	Salehe.	3° 52.2' N 125° 43.4' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	263 80	23	White beacon.	
25197.2 <i>F 2137</i>	Dumarehe Island.	4° 13.7' N 125° 42.1' E	Fl.W. period 4s fl. 1s, ec. 3s	112 34	15	White metal framework structure; 33.	
25197.5 <i>F 2136</i>	Palau Kawalusu.	4° 14.0' N 125° 19.3' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s	262 80	23	White beacon.	
25197.8 <i>F 2133.5</i>	Tg. Palle.	3° 44.2' N 126° 48.6' E	Fl.W. period 10s fl. 0.1s, ec. 9.9s	213 65	24	White beacon; 131.	
25198 <i>F 2133</i>	Lirung.	3° 56.4' N 126° 41.8' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	39 12	12	Beacon.	
25198.5 <i>F 2132.5</i>	Tg Salonggaka.	4° 02.9' N 126° 36.3' E	Fl.(2)W. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	66 20	14	White beacon.	
25199 <i>F 2134</i>	Karatung.	4° 44.7' N 127° 03.2' E	Fl.W. period 3s fl. 1s, ec. 2s	39 12	12	Beacon.	
25200 <i>F 2135</i>	Marore.	4° 44.2' N 125° 28.7' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 6.5s	591 180	23	White beacon; 131.	
	RACON		O(---)				(3 & 10cm).
25200.2 <i>F 2134.8</i>	Kawio Island.	4° 40.2' N 125° 25.8' E	Fl.(2)W. period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	197 60	20	White beacon; 98.	
25200.5 <i>F 2134.5</i>	Kemboing Island.	4° 39.1' N 125° 26.1' E	Fl.W. period 6s fl. 1s, ec. 5s	171 52	16	White metal framework structure; 33.	
25201 <i>F 2135.5</i>	Pulau Manutuang.	4° 26.1' N 125° 41.5' E	Fl.W. period 5s fl. 1s, ec. 4s	351 107	25	White structure.	
25202 <i>F 2132</i>	Tg. Ambora.	4° 33.1' N 126° 44.4' E	Fl.(3)W. period 20s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 13.6s	138 42	40	131.	
25204 <i>F 2130</i>	Teluk Beo, Pulau Karake long, NE. of flagstaff.	4° 14.0' N 126° 48.0' E	F.R.	62 19	2	White metal mast; 33.	Obscured when bearing 057°.
25208 <i>F 2100</i>	Ternate, pier, head.	0° 47.0' N 127° 23.0' E	Fl.W. period 3s fl. 0.8s, ec. 2.2s	75 23	10	White mast; 66.	
25210 <i>F 2107.3</i>	Pulau Makian.	0° 19.8' N 127° 20.9' E	Fl.W. period 5s fl. 1s, ec. 4s	82 25	15	White metal framework structure; 66.	

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INDONESIA (HALMAHERA-SULAWESI (CELEBES)-ADJACENT ISLANDS)							
25212 <i>F 2105</i>	-Tanjung Kahu Merah.	0° 45.6' N 127° 22.1' E	Fl.(2)W. period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	105 32	16	White framework tower; 10.	
25216 <i>F 2105.5</i>	G. Ternate, S. end of island.	0° 46.0' N 127° 19.0' E	Q.(4)W. period 8s	33 10		White beacon.	
25217 <i>F 2106</i>	Pulau Hiri.	0° 53.9' N 127° 18.3' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	377 115	18	White metal framework tower; 98.	
HALMAHERA:							
25218 <i>F 2109</i>	-Tg. Loleo.	1° 06.1' N 127° 47.3' E	Fl.(2)W. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	46 14	12	White beacon.	
25219 <i>F 2109.2</i>	-Wangeotak.	1° 07.2' N 127° 52.9' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	26 8	6	STARBOARD (A) G, beacon, topmark.	
25220 <i>F 2110.5</i>	-Kupakupa.	1° 37.4' N 127° 59.4' E	Fl.W. period 3s fl. 1s, ec. 2s	43 13	12	White beacon.	
25222 <i>F 2110</i>	-Tobelo.	1° 43.5' N 128° 00.5' E	FR.	29 9	2	White metal framework tower; 20.	
25222.3 <i>F 2110.5</i>	-Tanjung Haaka.	1° 37.3' N 127° 58.9' E	Fl.W. period 3s fl. 1s, ec. 2s	42 13	12	White beacon.	
25222.4 <i>F 2110.3</i>	-Sidanga.	1° 39.9' N 127° 29.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	305 93	18	White metal framework structure; 98.	
25222.45 <i>F 2107.8</i>	-Tanjung Bobo.	1° 02.4' N 127° 24.8' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	689 210	30	White metal framework structure; 131.	
25222.5 <i>F 2111.5</i>	Dododahohe.	1° 57.9' N 128° 12.9' E	Iso.W. period 3s	33 10	11	White beacon.	Radar reflector.
25222.55 <i>F 2111.3</i>	-Tanjung Sopi.	2° 38.4' N 128° 34.2' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	305 93	20	White metal framework structure; 131.	
25222.6 <i>F 2111.8</i>	Tanjung Sofa.	0° 02.3' N 129° 17.8' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	233 71	20	White tower; 131.	
25222.65 <i>F 2109.8</i>	Pulau Yiew.	0° 43.6' N 129° 08.2' E	Fl.(2)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	131 40	20	White tower; 131.	
25222.7 <i>F 2107.5</i>	Pasirputih.	1° 19.2' N 126° 21.5' E	Fl.W. period 3s fl. 1s, ec. 2s	131 40	15	White metal framework structure.	
25222.8 <i>F 2107.56</i>	Pulau Mayu.	1° 19.8' N 126° 24.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	108 33	17	White metal framework structure; 66.	
25223 <i>F 2108</i>	-Jailulo.	1° 03.8' N 127° 27.8' E	FR.	29 9	3	White metal post; 20.	
25224 <i>F 2107</i>	Tidore, Soasiu.	0° 39.0' N 127° 26.0' E	FR.	26 8	3	White metal post; 20.	

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INDONESIA (HALMAHERA-SULAWESI (CELEBES)-ADJACENT ISLANDS)							
25228 <i>F 2082</i>	Pulau Pardana.	0° 26.9' N 124° 28.7' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	241 73	6	White metal framework tower; 72.	Visible 232°-076°.
TELUK TOMINI:							
25232 <i>F 2083</i>	-Gorontalo, E. bank of river, N. side of gulf.	0° 30.1' N 123° 03.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	119 36	12	White metal framework tower; 19.	Visible 320°30'-049°30'.
25234 <i>F 2083.3</i>	Harbormaster's Office.	0° 30.0' N 123° 03.1' E	Fl.W. period 3s fl. 1s, ec. 2s	66 20	14	Building; 26.	
25236 <i>F 2086</i>	-Moutong	0° 28.1' N 121° 14.2' E	F.R.	39 12	12	Beacon.	
25237 <i>F 2087</i>	Tomini.	0° 30.8' N 120° 33.7' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	46 14	12	Beacon.	
25238 <i>F 2086.5</i>	Panabean.	0° 17.0' N 121° 15.0' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	102 31	16	Beacon.	
25238.5 <i>Q 1577</i>	Pulau Una-una.	0° 08.4' S 121° 38.9' E	Fl.W. period 3s fl. 1s, ec. 2s	43 13	12	Beacon.	
25239 <i>Q 1578</i>	Pasir Tengah.	0° 24.7' S 121° 38.7' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	49 15	12	White beacon.	
25240 <i>Q 1576</i>	-Parigi, on beach.	0° 48.8' S 120° 10.5' E	Fl.W. period 7s fl. 1s, ec. 6s	23 7	6	White metal framework tower; 20.	Emergency light.
25242	Labuandedeh.	1° 03.7' S 120° 48.4' E	Fl.W. period 3s	52 16	10	White beacon.	
25244 <i>Q 1575</i>	--Fuel Depot	1° 23.1' S 120° 42.7' E	Fl.W. period 5s	33 10	10		
25248 <i>Q 1574</i>	-Poso Road, pier, head.	1° 22.6' S 120° 45.6' E	Oc.W. period 3s fl. 2s, ec. 1s	52 16	10	White metal framework tower; 49.	
25248.5 <i>Q 1572.5</i>	Karang Pagaimana.	0° 47.3' S 122° 39.2' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	26 8	10	PORT (A) R, beacon, topmark.	
25249 <i>Q 1565.5</i>	Mendono.	1° 08.5' S 122° 42.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	43 13	12	White beacon.	
25252 <i>Q 1566</i>	-Luwuk Road.	0° 56.7' S 122° 47.9' E	Fl.W. period 5s fl. 1s, ec. 4s	59 18	13	White beacon.	
25256 <i>Q 1566.3</i>	--Pertamina.	0° 56.4' S 122° 48.8' E	Fl.(4)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	36 11	12	White beacon; 33.	Radar reflector.
25257 <i>Q 1566.4</i>	--Luwuk.	0° 57.1' S 122° 47.6' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	33 10	11	Red beacon.	
25258 <i>Q 1572.4</i>	Pagimana.	0° 47.9' S 122° 38.5' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	131 40	17	Beacon.	

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INDONESIA (HALMAHERA-SULAWESI (CELEBES)-ADJACENT ISLANDS)							
25260 Q 1572	-Selat Walera, drying reef, on E. side.	0° 25.4' S 122° 25.9' E	Fl.(3)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 14.5s	62 19	7	White beacon; 43.	
25260.2 Q 1571.5	Pulau Pasir.	0° 27.8' S 122° 48.5' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	49 15	12	White beacon.	
25260.5 Q 1571	Pulau Sensiri.	0° 28.7' S 122° 55.7' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	49 15	12	White beacon.	
25261 Q 1572.7	Pulau Buka-Buka.	0° 44.6' S 121° 46.0' E	Fl.(2)W. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	49 15	12	White beacon.	
25262 Q 1580	Tg Komnali.	0° 12.7' S 122° 14.7' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	164 50	19	White beacon.	
25264 Q 1563	Tomori Bay.	1° 58.9' S 121° 51.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	59 18	8	White beacon, red bands.	
25266 Q 1563.2	-Teluk Tomari.	2° 00.7' S 121° 33.6' E	Fl.R. period 4s fl. 1.5s, ec. 2.5s	46 14	12	Red beacon.	
25268 Q 1563.5	-Tanjung Bea.	1° 57.7' S 121° 37.7' E	Fl.W. period 5s	59 18	18	White metal framework tower; 49.	
25272 Q 1564	-Tanjung Mposo.	1° 56.9' S 121° 32.6' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	52 16	11	Beacon, green triangular daymark point up.	
25273 Q 1564.2	Karang Dalam Oil.	1° 54.5' S 121° 28.3' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	49 15	12	White beacon.	
25274 Q 1564.7	Kolonodale.	1° 59.3' S 121° 20.4' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	108 33	16	Metal post; 98.	
25274.2 Q 1564.8	Karang Thames.	1° 33.3' S 122° 38.4' E	Fl.R. period 4s fl. 1.5s, ec. 2.5s	46 14	12	Red beacon.	
25274.3 Q 1565	Tg. Kembani.	1° 36.0' S 122° 52.7' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	72 22	24	White beacon; 66.	
25274.6 Q 1562.93	Tg Losoni.	2° 39.5' S 122° 02.0' E	Fl.(4)W. period 10s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.9s	164 50	20	White tower.	
25275 Q 1566.6	Tg Tobo.	1° 09.7' S 123° 06.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	56 17	13	White beacon.	
25275.5 Q 1566.7	Tg Bankalanutara.	1° 09.3' S 123° 17.7' E	Fl.W. period 6s fl. 1s, ec. 5s	164 50	19	White beacon.	
25275.58 Q 1567.6	Pondipondi.	1° 12.9' S 123° 24.7' E	Fl.W. period 4s fl. 0.8s, ec. 3.2s	276 84	15	White beacon.	

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INDONESIA (HALMAHERA-SULAWESI (CELEBES)-ADJACENT ISLANDS)							
25275.6 Q 1566.8	Tg Montok.	1° 13.8' S 123° 14.8' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	29 9	9	STARBOARD (A) G, beacon, topmark.	
25275.7 Q 1567.5	Lamobuang.	1° 18.2' S 123° 17.9' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	6	STARBOARD (A) G, beacon, topmark.	
25275.8 Q 1567.7	Tanjung Sambiut.	1° 24.4' S 123° 32.3' E	Fl.W. period 4s fl. 1s, ec. 3s	46 14	12	White beacon.	
25275.9 Q 1567.8	Pulau Toulon Besar.	1° 31.7' S 123° 28.9' E	Fl.R. period 5s fl. 1s, ec. 4s	46 14	12	Red beacon.	
25276 Q 1568	Pulau Banggai, pier, foot.	1° 35.3' S 123° 29.9' E	Fl.R.	13 4	2	Mast; 26.	
25278 Q 1559.95	Karang Samaringa.	3° 23.2' S 122° 49.0' E	Fl.R. period 5s fl. 0.7s, ec. 4.3s	43 13	12	Red beacon.	
25278.5 Q 1559.97	Dehaan Island.	3° 29.0' S 122° 29.0' E	Fl.(4)W. period 10s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 3.2s	180 55	23	White concrete beacon; 33.	
25279 Q 1559.8	P. Manui.	3° 37.0' S 123° 10.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	148 45	15	White beacon.	
25280 Q 1559	Saponda on middle islet.	3° 58.3' S 122° 46.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	39 12	12	White pipe; 33.	
25284 Q 1559.5	Sappa Djawbi Bank.	3° 58.4' S 122° 40.6' E	Fl.R. period 6s fl. 0.6s, ec. 5.4s	49 15	5	Red beacon.	
25285 Q 1559.75	Karang Langgara Bugis.	4° 01.5' S 122° 58.7' E	Fl.(3)G. period 10s	23 7	6	STARBOARD (A) G, beacon, topmark.	
25286 Q 1559.74	Karang Langgara Bajo.	4° 01.3' S 122° 58.8' E	Fl.(3)R. period 10s	23 7	6	PORT (A) R, beacon, topmark.	
25288 Q 1559.7	Wowoni Island, Tg. Pemali.	3° 58.7' S 123° 00.9' E	Fl.(4)W. period 20s	144 44	25	White metal framework tower; 131.	
25289 Q 1559.9	-Tg Watutembatu.	4° 05.7' S 123° 15.4' E	Fl.(4)W. period 10s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.9s	213 65	22	White metal framework structure; 131.	
25290 Q 1560.3	Teluk Kendari Range, front.	3° 58.3' S 122° 36.2' E	Iso.W. period 4s	30 9	8	Metal framework structure, white triangular daymark point up; 20.	
25290.2 Q 1560.31	-Rear, 13 meters 256°01' from front.	3° 58.3' S 122° 36.1' E	Iso.W. period 2s	36 11	8	Metal framework structure, white triangular daymark point down; 26.	
25292 Q 1560	Bungku Toko.	3° 58.3' S 122° 36.2' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	39 12	12	PORT (A) R, post, topmark; 30.	Visible 260°-298°.
25296 Q 1560.05	-Tanjung Kendari.	3° 58.7' S 122° 36.0' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	39 12	5	Red beacon; 33.	
25300 Q 1560.2	Langi Bajo.	3° 58.5' S 122° 35.7' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	72 22	6	White beacon; 30.	

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INDONESIA (HALMAHERA-SULAWESI (CELEBES)-ADJACENT ISLANDS)							
25308 <i>Q 1562</i>	Kendari.	3° 58.3' S 122° 35.0' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	46 14	10	Beacon.	Radar reflector.
25310 <i>Q 1558.7</i>	S. Campada.	4° 11.6' S 122° 54.7' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	56 17	10	Red beacon.	
25311 <i>Q 1558.4</i>	Tg. Buton.	4° 22.6' S 123° 04.7' E	Fl.W. period 3s fl. 0.7s, ec. 2.3s	197 60	15	Fiberglass tower; 33.	
25312 <i>Q 1558.5</i>	Karang Cempada, W.	4° 12.7' S 122° 54.8' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	56 17	6	Red beacon.	
25316 <i>Q 1558.6</i>	-East.	4° 12.6' S 122° 56.0' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	10 3	4	STARBOARD (A) G, beacon, topmark.	
25317 <i>Q 1550.5</i>	Tanjung Loba.	4° 31.9' S 122° 52.3' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	105 32	15	White beacon.	
25317.2 <i>Q 1549.4</i>	Selat Tioro, Turubulu.	4° 27.0' S 122° 27.7' E	Fl.W. period 3s fl. 0.6s, ec. 2.4s	43 13	10	White beacon.	
25317.6 <i>Q 1549.7</i>	Selat Tioro, Tampo.	4° 38.0' S 122° 39.6' E	Fl.W. period 3s fl. 0.6s, ec. 2.4s	43 13	10	White beacon.	
25318 <i>Q 1550</i>	Tampo.	4° 37.8' S 122° 42.9' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	39 12	10	White framework tower; 33.	
25318.4 <i>Q 1549.15</i>	Beromadilao.	4° 33.7' S 122° 24.3' E	Fl.(2)W. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	39 12	12	White beacon.	
25318.6 <i>Q 1549.1</i>	Beromasidi.	4° 34.8' S 122° 17.8' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 12	12	White beacon.	
25318.8 <i>Q 1549.05</i>	West Pulau Maloang.	4° 38.5' S 122° 15.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	12	White pipe; 33.	
25319 <i>Q 1549.2</i>	Pulau Magenti.	4° 50.1' S 122° 11.5' E	Fl.(2)G. period 6s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 3.2s	39 12	12	STARBOARD (A) G, beacon, topmark.	
25319.05 <i>Q 1549.25</i>	Pulau Mangatah.	4° 50.8' S 122° 08.8' E	Q.(6)+L.Fl.W. period 15s	39 12	12	S. CARDINAL YB, beacon, topmark.	
25319.1 <i>Q 1549.3</i>	Karang Sapamataha.	4° 58.5' S 122° 07.9' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	39 12	12	White beacon.	
25319.3 <i>Q 1549.35</i>	Sapa Tarapimpi.	5° 03.9' S 122° 08.4' E	Fl.(2)W. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	39 12	12	White beacon.	

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INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS							
25320 Q 1551	Raha, W. side of Buton Strait.	4° 50.7' S 122° 44.4' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 2.7s	56 17	10	ISOLATED DANGER BRB, beacon, topmark.	Radar reflector.
25324 Q 1551.2	-Pier, head.	4° 50.5' S 122° 43.9' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	59 18	6	Yellow beacon; 49.	Radar reflector.
25328 Q 1551.5	-Lebutan Island.	4° 56.0' S 122° 48.0' E	Fl.(2)W. period 8s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 4.5s	66 20	12	White metal framework structure; 49.	
25329 Q 1551.6	Pulau Butong.	5° 06.1' S 122° 43.3' E	Fl.W. period 3s fl. 0.6s, ec. 2.4s	49 15	12	White tower; 33.	
25330 Q 1551.8	Tg. Batu Sori.	5° 20.9' S 122° 39.3' E	Fl.W. period 3s fl. 0.6s, ec. 2.4s	82 25	15	White beacon; 33.	Radar reflector.
25331 Q 1551.9	P. Makasar.	5° 26.3' S 122° 37.2' E	Fl.R. period 3s fl. 0.6s, ec. 2.4s	36 11	6	Red pipe; 33.	
25332 Q 1552	Baubau, extremity of E. side.	5° 27.2' S 122° 36.6' E	Fl.W. period 5s	39 12	12	White fiberglass tower; 33.	
25336 Q 1552.4	-Oil Depot.	5° 28.6' S 122° 35.1' E	Fl.W. period 8s	33 10	12	White metal mast; 33.	
25340 Q 1552.6	Tg. Bunabungi Pulau Kadatua.	5° 30.0' S 122° 30.9' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	49 15	12	White metal framework tower; 49.	

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INDONESIA (HALMAHERA-SULAWESI (CELEBES)-ADJACENT ISLANDS)							
25342 Q 1554.4	Tg. Batu Toro.	5° 41.8' S 122° 47.9' E	Fl.W. period 10s fl. 0.1s, ec. 9.9s	164 50	24	White beacon.	

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INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS							
25344 Q 1555	Tanjung Kordoa.	5° 30.8' S 122° 53.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	66 20	10	White beacon.	
25346 Q 1555.8	Tg Kanolanatumbi.	5° 16.5' S 123° 13.3' E	Fl.W. period 10s fl. 0.1s, ec. 9.9s	148 45	23	White concrete structure; 98.	
25348 Q 1558	Pulau Wangiwangi.	5° 15.4' S 123° 32.1' E	Fl.(2)W. period 12s fl. 0.5s, ec. 3s fl. 0.5s, ec. 8s	493 150	29	White metal framework tower; 69.	Visible 012°-259°. Partially obscured by Pulau Kambodi 012°-036°.
25348.5 Q 1558.2	-Midden.	5° 21.2' S 123° 32.1' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	59 18	11	White beacon.	

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INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS							
25349 Q 1558.3	Pulau Tomea, Karang Waha.	5° 43.2' S 123° 53.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	12	White beacon.	
25349.5 Q 1558.32	Ndaa.	5° 38.9' S 124° 02.9' E	Iso.W. period 2s	39 12	12	White tower; 33.	
25350 Q 1558.35	Karang Koro Maha.	5° 46.0' S 124° 11.0' E	Q.(6)+L.Fl.W. period 15s	39 12	12	S. CARDINAL YB, beacon, topmark.	
25350.4 Q 1558.34	Pulau Binongko.	6° 02.5' S 124° 03.0' E	Fl.W. period 10s fl. 0.1s, ec. 9.9s	147 45	24	White beacon.	
25351 Q 1558.33	Pulau Moromaho.	6° 08.0' S 124° 36.5' E	Fl.(4)W. period 10s fl. 0.1s, ec. 2.2s fl. 0.1s, ec. 2.2s fl. 0.1s, ec. 2.2s fl. 0.1s, ec. 3s	147 45	27	White tower.	
25352 Q 1553	-Siumpu, Popalia.	5° 41.3' S 122° 27.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	62 19	12	White metal framework tower; 62.	
25352.5 Q 1553.2	Pulau Batuata.	6° 12.4' S 122° 41.0' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	472 144	20	White beacon.	
25353 Q 1554	Tg Pising.	5° 03.6' S 121° 54.0' E	Fl.(2)W. period 6s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 3.2s	213 65	10	Beacon.	
25353.5 Q 1554.2	-Sikeli.	5° 16.8' S 121° 48.1' E	Fl.W. period 3s fl. 0.6s, ec. 2.4s	39 12	10	Beacon.	
25354 Q 1554.1	Pulau Sogori.	5° 23.3' S 121° 43.8' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 12	12	White beacon.	
25356 Q 1548	Kolaka.	4° 03.3' S 121° 34.0' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	19 6	3	Red beacon; 20.	Radar reflector.
25360 Q 1547.9	-Kolaka.	4° 03.2' S 121° 36.0' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	56 17	6	White concrete tower; 49.	Radar reflector.
25364 Q 1548.3	-Bingkuka.	4° 04.0' S 121° 33.8' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	10 3	5	Green beacon; 20.	Radar reflector.
25368 Q 1548.5	-Padamarang.	4° 02.8' S 121° 23.3' E	Fl.R. period 6s fl. 0.5s, ec. 5.5s	26 8	8	Red beacon; 20.	Radar reflector.
25370 Q 1548.6	-Lambasina Kecil.	4° 04.5' S 121° 19.0' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	197 60	15	White beacon; 98.	
25370.5 Q 1548.65	Karang Rosamari.	4° 05.5' S 121° 08.5' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 12	12	White beacon.	
25372 Q 1548.7	-Lambasina Besar.	4° 04.2' S 121° 21.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	40 12	11	White beacon; 39.	Radar reflector.
25373 Q 1549	Boeapinang.	4° 46.4' S 121° 34.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	39 12	10	White beacon.	

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INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS							
25373.5 Q 1548.9	-SW.	4° 47.4' S 121° 33.8' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	6	STARBOARD (A) G, beacon, topmark.	
25373.6 Q 1548.91	-E.	4° 47.4' S 121° 33.8' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	6	PORT (A) R, beacon, topmark.	
25374 Q 1553.5	Telaga Besar.	5° 31.6' S 122° 00.3' E	Fl.(2)W. period 15s	138 42	25	White metal framework tower; 131.	
25376 Q 1566.3	Pertamina.	0° 56.0' S 122° 49.0' E	Fl.(4)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	36 11	12	White beacon; 33.	Radar reflector.
25378 Q 1568.4	Pulau Bakakang.	1° 35.0' S 123° 27.4' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	39 12	12	Beacon.	
25379 Q 1568.5	Pulau Kenau.	1° 46.4' S 123° 31.7' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	39 12	12	White beacon.	
25380 Q 1569	Buang Buang.	2° 04.4' S 123° 54.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	92 28	15	White metal framework tower; 82.	
25384 Q 1569.5	Pulau Seku.	2° 00.1' S 124° 18.1' E	Fl.(2)W. period 15s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 11.5s	197 60	14	White beacon.	
25386 Q 1541.6	Tanjung Siwa.	3° 41.5' S 120° 26.3' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	26 8	10	PORT (A) R, beacon, topmark.	
25388 Q 1542	Tanjung Jene.	3° 14.1' S 120° 25.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15	12	White beacon; 66.	
25390 Q 1544	Palopo.	2° 58.8' S 120° 13.0' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	46 14	12	White dwelling; 26.	
25400 Q 1545.6	Bulu Pulu, W. end.	2° 48.6' S 120° 56.9' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	59 18	10	White beacon.	
25404 Q 1545	-N. side.	2° 39.9' S 121° 01.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	33 10	5	White mast; 23.	
25406 Q 1547.5	Batunon.	3° 17.3' S 120° 57.5' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	39 12	10	White beacon.	
25408 Q 1536	Pulau Pasitanete.	5° 44.7' S 120° 29.0' E	Fl.(4)W. period 20s	213 65	22	White metal framework tower; 66.	Visible 021°-322°.
25411 Q 1532.5	Bulukumba.	5° 32.8' S 120° 12.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	42 13	11	White beacon.	
25412 Q 1532	Bulukumba, Papanambeja Point.	5° 34.0' S 120° 11.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	138 42	18	White metal framework tower; 79.	Visible 270°-051°.
25414 Q 1528	Tanjung Bulu Bulu.	5° 42.1' S 119° 46.6' E	Fl.W. period 10s fl. 1s, ec. 9s	138 42	18	White metal framework tower; 131.	

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INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS							
25416 Q 1524	Takarewataya (De Bril).	6° 04.9' S 118° 54.0' E	Fl.W. period 10s	82 25	22	White octagonal metal tower, red stripes, three balconies; 75.	
	RACON		D(- • •)		5		Azimuth coverage 277°-190°. (3 & 10cm).
25416.5 Q 1325	Banawaja.	6° 49.1' S 119° 12.0' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	105 32	17	White beacon.	
25416.6 Q 1325.3	Pulau Jailamu.	6° 33.7' S 118° 48.6' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	52 16	15	White fiberglass beacon; 33.	Radar reflector.
25416.7 Q 1325.5	Pulau Longkoitang.	6° 42.1' S 118° 16.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	105 32	17	White beacon.	
25417 Q 1537	Pulau Pasi.	6° 06.0' S 120° 25.9' E	Fl.G. period 5s	43 13	10	Green beacon.	
25418 Q 1537.5	Benteng.	6° 06.7' S 120° 27.1' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	26 8	10	PORT (A) R, beacon, topmark.	

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INDONESIA SULAWESI (CELEBES)							
25420 Q 1522	Dewakang Besar.	5° 24.0' S 118° 26.1' E	Fl.W. period 5s fl. 1s, ec. 4s	108 33	15	White metal framework tower; 98.	
25421 Q 1518.5	Pulau Tanakeke.	5° 32.0' S 119° 16.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	80 24	23	White concrete tower; 66.	
25422 Q 1519	-E.	5° 29.5' S 119° 19.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15	9	White beacon.	
25423 Q 1523	Pulau Bangkauluang.	5° 29.6' S 118° 37.7' E	Fl.W. period 5s fl. 1s, ec. 4s	49 15	12	White metal framework tower; 46.	
25424 Q 1518	Pulau Dayangdayangan.	5° 23.9' S 119° 11.0' E	Fl.W. period 5s fl. 1s, ec. 4s	138 42	19	White metal framework tower; 98.	Visible 130°-120°.
	RACON		A(• -)				
25424.5 Q 1517.5	Taka Gosseiya.	5° 22.0' S 119° 00.0' E	Fl.W. period 5s fl. 1s, ec. 4s	49 15	12	White beacon.	
25425 Q 1509	Takabakang.	4° 57.8' S 118° 33.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15	12	Beacon.	
UJUNG Pandang:							
25432 Q 1517	-Kudingareng Lompo.	5° 09.1' S 119° 15.6' E	Fl.(4)W. period 27.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 19s	131 40	16	White metal framework tower; 131.	
	-RACON		K(- • -)				

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INDONESIA SULAWESI (CELEBES)							
25436 Q 1511	-Pulau Samalona.	5° 07.3' S 119° 20.5' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 2.5s	49 15	9	White beacon; 39.	Radar reflector.
25444 Q 1513	-Entrance, N. side.	5° 07.1' S 119° 23.9' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	33 10	7	PORT (A) R, beacon, topmark.	
25448 Q 1514	--S. side.	5° 07.1' S 119° 23.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	39 12	8	STARBOARD (A) G, beacon, topmark.	
25452 Q 1515	-Quay, S. end.	5° 07.3' S 119° 24.5' E	Fl.W. period 3s fl. 1s, ec. 2s	105 32	18		
25458 Q 1510.5	-Paotere.	5° 06.5' S 119° 25.4' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	10	STARBOARD (A) G, beacon, topmark.	
25460 Q 1510	-Bone Panambungang.	4° 57.7' S 119° 21.4' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	49 15	9	White metal framework tower; 49.	
25461 Q 1508.5	Pulau Lanyukang.	4° 58.9' S 119° 04.5' E	Fl.W. period 10s fl. 0.1s, ec. 9.9s	80 24	24	White beacon; 66.	
25464 Q 1509.5	-Batu Bajangang.	4° 52.8' S 119° 22.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	49 15	9	White metal framework tower; 49.	
25468 Q 1508	Pulau Kapoposang.	4° 42.0' S 118° 57.0' E	Fl.W. period 5s fl. 1s, ec. 4s	118 36	16	White metal framework tower; 108.	
	RACON		X(- • • -) period 30s		5		Azimuth coverage 328°-227°. (3cm).
25470 Q 1540	Karang Limpogoh Selatan.	4° 56.3' S 120° 45.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	49 15	12	White beacon; 49.	
25470.5 Q 1540.9	Bajowe.	4° 32.8' S 120° 25.1' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	26 8	10	PORT (A) R, beacon, topmark.	
25471 Q 1540.95	-E.	4° 32.2' S 120° 26.3' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	10	STARBOARD (A) G, beacon, topmark.	
25472 Q 1541	Totopela Reef.	4° 31.9' S 120° 27.9' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	26 8	8	Red beacon.	
25472.5 Q 1541.1	Torea.	4° 30.4' S 120° 27.4' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8	10	STARBOARD (A) G, beacon, topmark.	
25473 Q 1541.3	Tanjung Lameriki.	4° 10.3' S 120° 22.5' E	Fl.W. period 10s fl. 0.1s, ec. 9.9s	112 34	24	White beacon; 98.	
25474 Q 1506.5	Teluk Sido entrance, N.	4° 13.6' S 119° 36.1' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	26 8	8	Red beacon.	
25474.5 Q 1506.6	-S.	4° 13.9' S 119° 35.8' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8	8	Green beacon.	
25476 Q 1506	Tg. Lero.	4° 02.8' S 119° 35.8' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	46 14	11	White metal framework tower; 26.	
	RACON		M(- -)				

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INDONESIA SULAWESI (CELEBES)								
25482 Q 1507.5	Pankamandra.	4° 16.8' S 119° 17.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	49 15	12	White beacon; 33.		
25485 Q 1500	Polewali.	3° 26.4' S 119° 20.4' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	46 14	12			
25488 Q 1498	Majene, pier, head.	3° 33.1' S 118° 57.8' E	F.W.	22 7	4	White metal framework tower; 20.	Shown until 2300.	
25492 Q 1496	Tanjung Rangasa.	3° 33.7' S 118° 55.8' E	Fl.W. period 5s fl. 1s, ec. 4s	344 105	21	White metal framework tower; 82.	Visible 258°-147°.	
RACON								
25494 Q 1494	Tg. Binanga.	3° 20.3' S 118° 50.7' E	Fl.W. period 6s fl. 1s, ec. 5s	79 24	18	White beacon.		
25496 Q 1493	Tg. Ongkone.	3° 05.6' S 118° 46.6' E	Fl.W. period 4s fl. 1s, ec. 3s	46 14	12	White beacon.		
25500 Q 1490	Tg. Rangas.	2° 37.7' S 118° 49.0' E	Fl.W. period 6s fl. 1s, ec. 5s	322 98	23	White metal framework tower; 69.	Visible 030°-240° and 261°- 272°.	
RACON								
			Y(- • - -)					(3 & 10cm).
25502 Q 1491	Tg. Kai.	2° 51.8' S 118° 46.2' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	52 16	15	White fiberglass beacon; 33.		
25503 Q 1490.1	Simboro Mamuju.	2° 40.4' S 118° 52.1' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	43 13	12	STARBOARD (A) G, beacon, topmark.		
25503.5 Q 1490.15	-S.	2° 40.6' S 118° 52.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	49 15	12	White beacon.		
25503.6 Q 1489.2	Belangbelang.	2° 28.8' S 119° 06.8' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	23 7	10	STARBOARD (A) G, beacon, topmark.		
25503.65 Q 1489.1	-NE.	2° 28.6' S 119° 07.1' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	23 7	10	PORT (A) R, beacon, topmark.		
25503.7 Q 1489	-E.	2° 28.6' S 119° 07.3' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	23 7	10	PORT (A) R, beacon, topmark.		
25503.8 Q 1485	Tanjung Lalereh.	1° 59.9' S 119° 12.7' E	Fl.W. period 5s fl. 1s, ec. 4s	138 42	12	White beacon.		
25504 Q 1484	Tanjung Pasaugkajoe.	1° 10.3' S 119° 20.4' E	Fl.(3)W. period 24s fl. 1s, ec. 4s fl. 1s, ec. 4s fl. 1s, ec. 13s	184 56	20	White metal framework tower; 131.		
25508 Q 1476	Teluk Palu.	0° 38.9' S 119° 43.8' E	L.Fl.(4)W. period 25s fl. 2s, ec. 3s fl. 2s, ec. 3s fl. 2s, ec. 3s fl. 2s, ec. 8s	269 82	23	White metal framework tower; 69.	The beacon on the pierhead and Coast reef will show F.R. only when vessel is expected.	
25510 Q 1478	Donggala, pier, head.	0° 39.9' S 119° 44.6' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	43 13	12	Beacon, triangular daymark point up.	On request.	

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INDONESIA SULAWESI (CELEBES)							
25512 Q 1480	-Panteluan.	0° 42.6' S 119° 51.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	59 18	12	White beacon; 49.	
25516 Q 1482.5	Loli Qgeh.	0° 47.4' S 119° 48.1' E	Iso.W. period 8s	39 12	10	White beacon.	
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INDONESIA (LESSER SUNDA ISLANDS)							
BALI:							
25520 Q 1291.4	-Bukit Badung.	8° 49.3' S 115° 08.7' E	Fl.(3)W. period 20s fl. 0.2s, ec. 3.7s fl. 0.2s, ec. 3.7s fl. 0.2s, ec. 12s	722 220	25	White metal tower; 13.	4 F.R. about 2 miles E.
25521 Q 1291.3	-Kelan Port.	8° 45.4' S 115° 10.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	72 22	18	White lighthouse; 66.	Radar reflector.
25522 Q 1291.6	-Tanjung Mebulu.	8° 49.4' S 115° 05.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	263 80	15	White beacon.	
25524 Q 1291	-Benoa Harbor.	8° 44.8' S 115° 12.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	101 31	16	White metal framework structure; 82.	
25525 Q 1291.29	--No 9.	8° 44.9' S 115° 12.9' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	30 9	4	Green metal framework tower, piles; 20.	
25525.1 Q 1291.27	--No 7.	8° 45.0' S 115° 13.2' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	21 6	4	Green metal framework tower, piles; 20.	
25525.2 Q 1291.25	--No 5.	8° 45.1' S 115° 13.4' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	21 6	4	Green metal framework tower, piles; 20.	
25526 Q 1291.2	--Range, front.	8° 45.5' S 115° 13.6' E	Iso.W. period 4s	21 6	8	White beacon, white triangular daymark point up.	
25526.1 Q 1291.21	--Rear, 590 meters 255°30' from front.	8° 45.5' S 115° 13.3' E	Iso.W. period 6s	46 14	19	White metal framework tower, piles, black triangular daymark point down.	
25528 Q 1290	-Tanjung Serangan.	8° 43.2' S 115° 15.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	12	White metal framework structure; 33.	
25532 Q 1287	-Tanjung Sari.	8° 31.7' S 115° 30.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	148 45	15	White beacon; 23.	
25536 Q 1289	--Teluk Padang Range, front.	8° 31.7' S 115° 30.3' E	Iso.W. period 2s	43 13	12	Beacon, white triangular daymark point up; 30.	Fl.G. 3s and Fl.R. 4s mark entrance. Radar reflector.
25536.1 Q 1289.1	--Rear, 430 meters 306°30' from front.	8° 31.6' S 115° 30.3' E	Iso.W. period 8s	66 20	12	Beacon, white triangular daymark point down; 33.	
25538 Q 1286	-Pulau Gilitepekong.	8° 31.9' S 115° 35.1' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	213 65	18	White metal framework tower.	

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INDONESIA (LESSER SUNDA ISLANDS)							
25540 Q 1285	-Gili Selang.	8° 23.9' S 115° 42.3' E	Fl.(3)W. period 20s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 13s	230 70	19	White metal framework tower.	
25541 Q 1284.2	-Tg. Bungkulan.	8° 03.8' S 115° 11.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	108 33	12	White metal framework tower, black stripes; 66.	
25542 Q 1284	-Buleleng, E. of river entrance.	8° 06.1' S 115° 05.7' E	Fl.W. period 3s fl. 1s, ec. 2s	82 25	13	White metal framework tower, black stripes; 66.	Visible 071°-227°.
25543 Q 1283.5	-Beacon 1M.	8° 11.3' S 114° 50.1' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	19 6	6	ISOLATED DANGER BRB, beacon, topmark.	
25544 Q 1283	-Celukanbawang.	8° 11.0' S 114° 50.0' E	Fl.R. period 6s fl. 0.5s, ec. 5.5s	36 11	4	Red beacon; 36.	
25545 Q 1283.7	--Harbor.	8° 11.4' S 114° 49.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	105 32	12	White metal framework structure; 98.	
25546 Q 1292	Nusa Lembongan, Tanjung Taal.	8° 39.8' S 115° 27.1' E	Fl.(3)W. period 15s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 6s	88 27	16	White metal framework tower; 82.	Visible 053°-256°.
25548 Q 1294	Nusa Penida.	8° 49.0' S 115° 35.5' E	Fl.(3)W. period 15s	682 208	25	White metal framework tower; 66.	
LOMBOK:							
25551 Q 1294.5	-Tg Agaragar.	8° 12.8' S 116° 21.9' E	Fl.W. period 5.5s fl. 0.5s, ec. 5s	115 35	18	White beacon.	
25552 Q 1296	-Ampenan.	8° 34.0' S 116° 04.3' E	Fl.(3)W. period 45s fl. 1s, ec. 9s fl. 1s, ec. 9s fl. 1s, ec. 24s	105 32	16	White metal framework tower; 98.	
25554 Q 1295	Trewangan.	8° 20.7' S 116° 01.8' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	141 43	19	White metal framework tower; 131.	
RACON							
T(-)							
25555 Q 1294.9	Pulau Meno.	8° 20.6' S 116° 03.3' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	36 11	6	SPECIAL Y, beacon, "X" topmark.	(3 & 10cm).
25555.5 Q 1294.8	Pulau Aer.	8° 21.8' S 116° 04.8' E	Fl.Y. period 4s fl. 0.5s, ec. 3.5s	36 11	6	SPECIAL Y, beacon, "X" topmark.	
25560 Q 1298	Lembar Harbor.	8° 43.6' S 116° 03.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	210 64	11	White metal framework structure; 43.	
25564 Q 1298.4	-Kramat.	8° 44.4' S 116° 03.7' E	Fl.R. period 3s	59 18	12	PORT (A) R, beacon, topmark; 49.	Radar reflector.
25565 Q 1298.3	-Lembar.	8° 44.2' S 116° 03.9' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	43 13	12	STARBOARD (A) G, beacon, topmark; 26.	Radar reflector.

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INDONESIA (LESSER SUNDA ISLANDS)							
25565.5 <i>Q 1298.35</i>	--SW.	8° 44.2' S 116° 03.9' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	59 18	12	PORT (A) R, beacon, topmark; 49.	Radar reflector.
25568 <i>Q 1297</i>	-Labuan Tring Bay.	8° 43.5' S 116° 02.9' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	171 52	10	Green beacon; 39.	
25569 <i>Q 1299.5</i>	Tanjung Mangkun.	9° 00.1' S 116° 44.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	95 29	12	White beacon.	
25570 <i>Q 1299</i>	Tanjung Pandanan, S.	8° 45.1' S 115° 49.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	213 65	12	White metal framework structure; 33.	
25571 <i>Q 1296.7</i>	Pulau Gilipoh.	8° 42.5' S 115° 58.5' E	Q.(2)W. period 5s	52 16	12	White beacon.	
25571.5 <i>Q 1299.3</i>	Tanjung Bungkulan.	8° 57.1' S 116° 23.4' E	Fl.W. period 5s fl. 1s, ec. 4s	312 95	12	White beacon.	
25572 <i>Q 1300</i>	-Tanjung Ringgit.	8° 51.7' S 116° 35.2' E	Fl.(2)W. period 10s	361 110	27	White metal framework tower; 131.	
25572.7 <i>Q 1299.56</i>	Tg. Maloh.	8° 53.6' S 116° 43.9' E	Fl.W. period 7s fl. 1s, ec. 6s	413 126	12	White beacon.	
25572.8 <i>Q 1299.57</i>	Benete Range, front.	8° 53.9' S 116° 44.9' E	Q.W.	43 13	6	Beacon, white triangular daymark point up.	
25572.81 <i>Q 1299.571</i>	-Rear, 127° from front.	8° 54.0' S 116° 45.1' E	Iso.W. period 4s	52 16	6	Beacon, white triangular daymark point down.	
25573 <i>Q 1300.2</i>	Gili Lebur.	8° 29.1' S 116° 41.2' E	Q.W.	33 10	9	N. CARDINAL BY, beacon, topmark.	
25573.2 <i>Q 1300.3</i>	-Reef, W. end.	8° 29.0' S 116° 40.6' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	20 6	7	Red beacon.	
25573.3 <i>Q 1300.4</i>	Karang.	8° 29.1' S 116° 40.6' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	26 8	5	Red beacon.	
25573.4 <i>Q 1300.35</i>	Ujung Karang Labuhan Lombok.	8° 29.0' S 116° 40.4' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	16 5	5	Green beacon.	
25573.5 <i>Q 1300.1</i>	Teluk Lombok.	8° 29.1' S 116° 40.1' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	46 14	10	White structure.	
25574 <i>Q 1305</i>	Pulau Ular.	8° 30.0' S 116° 49.2' E	Q.(2)W. period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 3.5s	161 49	10	Black beacon, red bands.	
25574.4 <i>Q 1306</i>	Tanjung Tano.	8° 30.9' S 116° 49.9' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	46 14	9	Green beacon.	
25576 <i>Q 1301</i>	Gili Petagan, SE. side of the coast reef.	8° 26.1' S 116° 45.4' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	49 15	12	White metal beacon; 49.	Visible 173°-104°. Obscured by the islands to the NW. of Sumbawa.
25578 <i>Q 1322</i>	Pulau Kapoposangbali.	7° 29.7' S 117° 10.8' E	Fl.W. period 10s fl. 1s, ec. 9s	112 34	24	White beacon; 98.	
25580 <i>Q 1303</i>	Gosong Sakunci.	7° 51.1' S 117° 12.3' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	56 17	15	White metal framework tower; 49.	

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INDONESIA (LESSER SUNDA ISLANDS)							
25584 Q 1304	Pulau Medang.	8° 07.9' S 117° 23.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	164 50	19	White metal framework tower; 98.	
25584.5 Q 1323	Karang Satunggul.	7° 32.4' S 117° 59.4' E	Q.W.	49 15	12	White beacon.	
25585 Q 1324	Pelokang.	7° 10.5' S 118° 24.5' E	Q.W.	42 13	11	White beacon.	
25586 Q 1324.5	Sarege.	7° 04.8' S 118° 39.8' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s fl. 0.5s, ec. 10.5s	42 13	11	W. CARDINAL YBY, tower, topmark; 39.	
25588 Q 1309	-Tanjung Lampasapi.	8° 23.4' S 118° 42.2' E	Fl.R. period 6s fl. 0.6s, ec. 5.4s	49 15	6	Red framework tower; 49.	Radar reflector.
25592	Amoe.	8° 23.8' S 118° 41.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15			
25593 Q 1310.6	N. Amoe.	8° 23.8' S 118° 41.7' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	49 15	11	Green beacon.	
25594 Q 1310.4	S. Amoe.	8° 24.5' S 118° 41.7' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	39 12	10	Red beacon.	
25596 Q 1310.2	-Soembai.	8° 24.7' S 118° 41.4' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	49 15	12	Green beacon.	
25602 Q 1308.4	Tg. Pakijongan.	8° 05.2' S 117° 55.4' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	115 35	12	White beacon.	
25602.5 Q 1304.4	Tg. Kolo.	8° 20.1' S 117° 28.0' E	Fl.Y. period 4s fl. 0.5s, ec. 3.5s	98 30	6	SPECIAL Y, beacon, "X" topmark.	
25602.7 Q 1304.6	Tg. Ai Lancong.	8° 19.5' S 117° 33.8' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	46 14	6	SPECIAL Y, beacon, "X" topmark.	
25603 Q 1308.1	Badas, entrance.	8° 27.7' S 117° 22.3' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	43 13	12	STARBOARD (A) G, beacon, topmark.	
25604 Q 1307.3	Sumbawa Bay, Badas.	8° 28.0' S 117° 22.3' E	Fl.(2)W. period 5s	33 10	12		
25605 Q 1307.5	Badas.	8° 28.1' S 117° 22.2' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	39 12	10	White metal framework tower; 26.	
25606 Q 1308.5	Batu Besar.	8° 14.5' S 118° 29.7' E	Fl.W. period 10s fl. 0.9s, ec. 9.1s	82 25	22	White lighthouse.	
25608 Q 1310	-Bima.	8° 26.9' S 118° 42.8' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	108 33	12	White beacon.	
25610 Q 1309.5	Lawata.	8° 28.5' S 118° 42.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	33 10	11	White beacon.	
25613 Q 1310.7	Sangeang Island.	8° 07.8' S 119° 04.9' E	Fl.W. period 10s fl. 0.9s, ec. 9.1s	69 21	22	White beacon.	
25614 Q 1310.8	Tg. Naru.	8° 18.8' S 119° 00.3' E	Fl.(2)W. period 15s	144 44	18	White metal framework tower; 131.	

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INDONESIA (LESSER SUNDA ISLANDS)							
25616 Q 1311	Toronaganuri.	8° 33.9' S 119° 01.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	197 60	12	White metal framework tower; 49.	Visible 196°-271°.
25617 Q 1311.2	Nisa Sanai.	8° 33.5' S 119° 02.4' E	Fl.R. period 4s fl. 1s, ec. 3s	46 14	10	Red beacon.	
25618 Q 1311.5	Bajo.	8° 34.4' S 119° 01.2' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	39 12	10	White beacon.	
25620 Q 1312	-Pulau Kelapa Range, front.	8° 39.8' S 119° 13.6' E	Fl.W. period 2s	456 139	20	White framework tower; 13.	Visible 167°-177°.
25624 Q 1312.1	--Rear, 242 meters 172° from front.	8° 40.1' S 119° 13.6' E	Fl.W. period 11s	489 149	18	White metal framework tower; 66.	
25626 Q 1315	Pulau Komodo.	8° 43.8' S 119° 23.0' E	Q.(2)W. period 5s	230 70	22	White beacon.	
25628 Q 1314	-Toro Jampang.	8° 44.8' S 118° 58.2' E	Fl.(2)W. period 15s fl. 1s, ec. 3s fl. 1s, ec. 10s	312 95	22		
FLORES:							
25628.3 Q 1315.5	-Pulau Gililawa Laut.	8° 26.6' S 119° 34.8' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	98 30	10	White beacon.	
25628.5 Q 1329	-Sabolan Kecil.	8° 23.5' S 119° 47.9' E	Fl.W. period 1.5s fl. 0.5s, ec. 1s	92 28	11	White beacon.	
25629 Q 1329.5	-Toro Besi.	8° 13.9' S 120° 25.4' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	98 30	15	White metal framework structure; 98.	
25629.2 Q 1330	-Reo.	8° 16.6' S 120° 27.1' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	39 12	10	White framework tower; 36.	
25629.4 Q 1330.2	--Oil depot.	8° 16.7' S 120° 27.1' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	52 16	10	White beacon.	
25629.7 Q 1330.4	-Mborong.	8° 48.3' S 120° 36.1' E	Fl.W. period 1.5s fl. 0.5s, ec. 1s	39 12	11	White beacon.	
25630 Q 1331.5	-Marapoko.	8° 31.6' S 121° 19.1' E	Fl.(3)W. period 3s fl. 0.5s, ec. 2.5s	39 12	12	White beacon.	
25631 Q 1332	-Tg. Karterbileh.	8° 28.3' S 121° 37.8' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	417 127	27	White beacon.	
25632 Q 1337	-Ende.	8° 50.7' S 121° 38.7' E	Fl.W. period 3s	141 43	14	White metal framework tower; 33.	
25638 Q 1338	-Appi.	8° 50.8' S 121° 40.2' E	Q.(4)W. period 8s	36 11	8	White beacon; 26.	
25639 Q 1334.5	-Gosong Unjuran.	8° 28.7' S 122° 08.7' E	Fl.G. period 5s	49 15	12	Green beacon.	Radar reflector.
25639.3 Q 1335	Teluk Maumere.	8° 37.5' S 122° 13.3' E	Fl.(3)W. period 20s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 15.5s	361 110	25	White metal framework structure; 131.	

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INDONESIA (LESSER SUNDA ISLANDS)							
25639.5 Q 1334	-Gosong Boni.	8° 23.4' S 122° 14.0' E	Fl.R. period 6s fl. 0.5s, ec. 5.5s	46 14	12	Red beacon.	
25640 Q 1340	-Larantuka.	8° 20.6' S 122° 59.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	56 17	11	White metal framework; 36.	
25642 Q 1339	Nusa Lobetobi.	8° 36.2' S 122° 50.7' E	Q.W.	148 45	9	White metal framework tower; 49.	
25643 Q 1339.5	Tg. Lawawolo.	8° 36.5' S 122° 53.6' E	Q.W.	75 23	15	White beacon.	
25644 Q 1340.5	--NE.	8° 20.5' S 122° 59.5' E	Fl.W. period 3s	33 10	10		
25648 Q 1341	Tanjuns Sarbete.	8° 19.2' S 123° 01.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	105 32	12	White metal framework structure; 98.	
25650 Q 1341.6	Tanjung Mas.	8° 09.0' S 123° 01.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	131 40	12	White metal framework tower; 49.	
25651 Q 1343	Kawula.	8° 13.3' S 123° 41.9' E	Fl.W. period 4s fl. 0.3s, ec. 3.7s	170 52	18	White metal framework tower; 98.	
25651.5 Q 1343.5	Pulau Lapan.	8° 13.1' S 124° 01.9' E	Fl.(2)W. period 15s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 11.5s	111 34	10	White metal framework tower; 98.	
25651.6 Q 1343.7	Blang Merang Bay.	8° 21.6' S 124° 05.8' E	Fl.W. period 2s fl. 0.8s, ec. 1.2s	46 14	12	White beacon.	
25651.7 Q 1342.5	Tg. Tuak.	8° 18.4' S 123° 20.9' E	Fl.W. period 4s fl. 0.3s, ec. 3.7s	42 13	12	White beacon.	
25652 Q 1342	Pulau Adonara, outer of wharf near Waiwerang village.	8° 23.5' S 123° 09.9' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	59 18	8	White metal structure; 16.	
25653 Q 1318	Tanjung Sasar.	9° 16.9' S 119° 56.3' E	Fl.(3)W. period 22s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 13.5s	279 85	24	White metal framework tower; 131.	
25653.1 Q 1318.7	Waikelo.	9° 23.6' S 119° 12.9' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	46 14	12	White beacon.	
25653.2 Q 1321.5	Tg. Karaso.	9° 33.4' S 118° 55.9' E	L.Fl.W. period 8s fl. 2s, ec. 6s	49 15	12	White beacon.	
25653.5 Q 1317	- Tg Umdu.	10° 05.1' S 120° 49.0' E	Fl.(3)W. period 20s	138 42	17	White metal framework tower; 131.	
25656 Q 1321	Pulau Mangudu.	10° 20.0' S 120° 06.4' E	L.Fl.W. period 5s fl. 2s, ec. 3s	49 15	12	White beacon.	
25658 Q 1319	Waingapu Reef.	9° 37.3' S 120° 15.5' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	6	PORT (A) R, beacon, topmark.	
25658.1 Q 1319.2	Sumba, Waingapu.	9° 38.0' S 120° 15.4' E	Fl.G. period 5.2s fl. 0.7s, ec. 4.5s	23 7	6	STARBOARD (A) G, tower, topmark; 16.	

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INDONESIA (LESSER SUNDA ISLANDS)							
25658.2 Q 1319.4	--Approach E. side.	9° 38.1' S 120° 15.6' E	Fl.R. period 6s fl. 0.6s, ec. 5.4s	23 7	6	PORT (A) R, tower, topmark; 16.	
25660 Q 1320.2	-Maingapoe.	9° 37.6' S 120° 15.5' E	Fl.W. period 7s fl. 1s, ec. 6s	39 12	10	White metal framework tower; 30.	
25661.3 Q 1326	Karang Nambolaki.	6° 41.7' S 120° 16.9' E	Fl.W. period 10s	39 12	11	White beacon.	
25662 Q 1327	Pulau Kayuadi.	6° 46.8' S 120° 47.6' E	Fl.(2)W. period 30s fl. 1s, ec. 2s fl. 1s, ec. 26s	43 13	11	White beacon.	
25662.1 Q 1327.1	Pulau Latondu Kecil.	6° 31.5' S 120° 57.2' E	Fl.Y. period 4s fl. 0.5s, ec. 3.5s	36 11	6	SPECIAL Y, beacon, "X" topmark.	
25662.2 Q 1327.2	Palau Belangbelang.	6° 24.3' S 121° 06.0' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	52 16	15	White fiberglass beacon; 33.	
25662.5 Q 1327.5	Ujung Perumang.	7° 08.1' S 120° 45.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	36 11	12	White beacon.	
25663 Q 1328	Bone Rate Island.	7° 22.9' S 121° 05.0' E	Fl.(3)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	210 64	20	White metal framework tower; 82.	
25664 Q 1327.7	Pulau Raja.	7° 05.3' S 121° 07.2' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	39 12	12	White beacon.	
25664.5 Q 1327.3	Pulau Ampalasa.	6° 54.8' S 121° 17.0' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	36 11	6	SPECIAL Y, beacon, "X" topmark.	
25665 Q 1327.8	Karang Sangi Sangiang.	7° 07.4' S 121° 26.7' E	L.Fl.W. period 11s fl. 2s, ec. 9s	39 12	11	White beacon.	
25666 Q 1328.5	Pulau Kakabia.	6° 54.5' S 122° 13.0' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	36 11	12	White fiberglass tower; 33.	
25668 Q 1328.7	Pulau Kaunadi.	7° 25.7' S 122° 05.5' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	39 12	11	White beacon.	
PULAU SAWU:							
25672 Q 1350	-Kali Menia.	10° 26.4' S 121° 52.3' E	Fl.(3)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 3s	108 33	20	White stone pyramid; 33.	Visible 052°-243°, obscured in places 052°-060°.
25676 Q 1352	-Seba.	10° 29.7' S 121° 50.5' E	Fl.W. period 6s fl. 1s, ec. 5s	141 43	19	White metal framework tower; 131	Visible 062°-189°.
25676.2 Q 1352.5	-Tanjung Liegeta.	10° 32.5' S 121° 58.9' E	Fl.W. period 7s fl. 0.5s, ec. 6.5s	377 115	26	White metal framework structure; 131.	
25677 Q 1353	Pulau Raijua, NW. coast.	10° 36.2' S 121° 37.4' E	Fl.W. period 1.5s fl. 0.2s, ec. 1.3s	46 14	12	White beacon.	

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INDONESIA (LESSER SUNDA ISLANDS)							
25678 Q 1354	Ria Jua.	10° 37.9' S 121° 31.9' E	Fl.(2)W. period 16s fl. 0.5s, ec. 5s fl. 0.5s, ec. 10s	220 67	19	White beacon.	
25680 Q 1356	Pulau Roti.	10° 43.6' S 123° 02.8' E	Fl.(2)W. period 12s fl. 1.5s, ec. 2s fl. 1.5s, ec. 7s	154 47	19	Concrete tower; 148.	Visible 090°-211°. A F.W. light is shown at the head of the pier when ships are expected.
25681 Q 1358	-Tanjung Pukuatu.	10° 25.9' S 123° 22.8' E	Fl.(2)W. period 5.4s fl. 0.7s, ec. 1s fl. 0.7s, ec. 3s	43 13	12	White beacon.	
25682 Q 1365.5	Tanjung Oisina.	10° 21.3' S 123° 27.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	66 20	12	White beacon; 33.	
25684 Q 1360	Tanjung Kurong.	10° 07.5' S 123° 26.7' E	Oc.(2)W. period 30s	417 127	27	White metal framework structure; 52.	Visible 046°-293°.
	RACON		B(- • • •)				
25686 Q 1360.5	-Pulau Kera.	10° 05.3' S 123° 33.2' E	Iso.W. period 2s	43 13	11	White fiberglass tower.	
	TIMOR:						
25688 Q 1362	-Kupang, Fort Concordia.	10° 09.7' S 123° 34.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	95 29	15	White metal framework tower; 49.	Obscured in bay by Kera Island.
25692	--Pier, head.	10° 09.7' S 123° 34.5' E	F.G.		8	Wooden post.	Shown May to October. Occasional.
25700 Q 1365	-Tenau.	10° 11.4' S 123° 31.8' E	Fl.W. period 3s fl. 1s, ec. 2s	144 44	15	Fiberglass tower; 33.	
25701 Q 1365.6	-Pulau Batek.	9° 15.4' S 123° 59.6' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	328 100	20	White beacon.	
25702 Q 1365.7	-Oekusi.	9° 11.3' S 124° 23.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	102 31	16	White tower.	
25703 Q 1365.8	-Batu Putih.	9° 03.2' S 124° 42.5' E	Fl.W. period 3.5s fl. 1s, ec. 2.5s	66 20	12	White metal framework tower; 52.	
25704 Q 1366	-Atapupu.	8° 59.5' S 124° 51.9' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	52 16	10	White beacon.	
25705 Q 1366.2	--Entrance, NW.	8° 59.3' S 124° 51.5' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	46 14	10	Green beacon.	Radar reflector.
25705.5 Q 1366.4	---SE.	8° 59.4' S 124° 51.6' E	Fl.R. period 6s fl. 0.5s, ec. 5.5s	46 14	12	Red beacon.	
25708 Q 1368	-Dili Harbor.	8° 32.9' S 125° 34.1' E	Fl.W. period 6s	62 19	12	Metal framework tower on white stone base, blue bands; 56.	
25708.5 Q 1369	-Harbor.	8° 33.2' S 125° 34.7' E	Fl.R. period 4s		6	Metal framework tower, two white triangular daymarks points together.	
25709 Q 1368.2	-Beacon.	8° 32.7' S 125° 34.3' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	39 12	12	Red beacon.	

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INDONESIA (LESSER SUNDA ISLANDS)							
25709.5 Q 1368.3	--W.	8° 32.8' S 125° 34.2' E	Fl.G. period 5s	39 12	10	Green beacon.	Radar reflector.
25709.7 Q 1369.5	-Oil Depot.	8° 32.6' S 125° 32.9' E	Fl.(4)W. period 8s	33 10		White concrete structure.	
25709.8 Q 1369.6	--NW.	8° 32.5' S 125° 32.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	52 16	10	White beacon.	
25710 Q 1347	Laisumbu.	8° 19.2' S 125° 08.2' E	Fl.(2)W. period 28s fl. 1s, ec. 6s fl. 1s, ec. 20s	197 60	29	Lighthouse; 131.	
25711 Q 1347.5	Tg. Babi.	8° 08.6' S 124° 57.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	85 26	15	White metal framework tower.	
25711.5 Q 1348	Pulau Sika.	8° 07.0' S 124° 37.0' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	39 12	11	White beacon.	
PULAU ALOR:							
25711.7 Q 1345	-Tg. Jalono.	8° 17.6' S 124° 24.7' E	Fl.W. period 7s fl. 1.5s, ec. 5.5s	115 35	16	White fiberglass tower; 98.	
25712 Q 1344	-Kalabahi, landing pier.	8° 13.1' S 124° 31.1' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	75 23	15	White metal framework tower; 66.	
25712.5 Q 1344.5	--SW.	8° 13.7' S 124° 29.5' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	52 16	10	White beacon.	
25714 Q 1346	-Tanjung Margeta.	8° 27.5' S 124° 25.1' E	Fl.W. period 7.5s fl. 1s, ec. 6.5s	180 55	15	White tower.	
25716 Q 1372	Pulau Liran.	8° 03.2' S 125° 44.3' E	Fl.(4)W. period 40s fl. 0.5s, ec. 6.5s fl. 0.5s, ec. 6.5s fl. 0.5s, ec. 6.5s fl. 0.5s, ec. 18.5s	279 85	23	White metal framework building; 131.	Visible 228°-150°. Obsured 031°-056°.
25716.3 Q 1372.3	Tanjung Tutuneden.	7° 58.5' S 126° 28.0' E	Fl.(2)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	164 50	20	White metal framework tower; 131.	
25716.5 Q 1372.4	Gunung Api.	6° 38.2' S 126° 39.5' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	49 15	12	White beacon.	
25716.6 Q 1372.5	Tanjung Tutunhatoloi.	7° 39.6' S 126° 48.8' E	Fl.W. period 7s fl. 0.5s, ec. 6.5s	295 90	22	White metal framework structure; 98.	
25717 Q 1371	Kun Range, front.	8° 21.8' S 127° 03.9' E	Iso.W. period 2s	36 11	10		
25717.1 Q 1371.1	-Rear, 431 meters 175°56' from front.	8° 21.9' S 127° 03.8' E	Fl.(3)W. period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	115 35	16		
25718 Q 1373	Kisar, Wonroli.	8° 04.4' S 127° 08.8' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	39 12	5	White metal framework tower; 33.	

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INDONESIA (LESSER SUNDA ISLANDS)							
25718.5 Q 1373.5	Pulau Nyata.	7° 31.4' S 127° 16.7' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	115 35	15	White beacon.	
25719 Q 1374	Tg. Tutpateh.	8° 12.9' S 127° 36.1' E	Fl.(3)W. period 10s	138 42	18	White metal framework structure.	
	RACON		T(-)				
25720 Q 1376	Meatij Mirang.	8° 20.0' S 128° 29.7' E	Fl.(3)W. period 29s fl. 1s, ec. 5.5s fl. 1s, ec. 5.5s fl. 1s, ec. 15s	79 24	27	White metal framework tower; 79.	
	RACON		T(-)				
25721 Q 1376.5	-Tanjung Arousu.	8° 20.4' S 130° 45.4' E	Fl.W. period 10s fl. 1s, ec. 9s	112 34	18	White concrete tower; 98.	
25722 Q 1378	Selaru, Pulau Batarkusu.	8° 20.3' S 130° 49.0' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	46 14	13	White metal framework tower; 33.	
25724 Q 1379	Asoetoeboen.	8° 03.4' S 131° 16.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	56 17	12	White metal framework tower; 49.	
25728 Q 1380.3	Depot Pertamina.	7° 59.8' S 131° 17.4' E	Q.(4)W. period 8s	36 11	10		
25732 Q 1380	Saumlaki.	7° 59.0' S 131° 17.8' E	Fl.(2)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	108 33	16	White beacon; 20.	
25734 Q 1380.2	-SW.	7° 59.2' S 131° 17.3' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	46 14	12	STARBOARD (A) G, beacon, topmark.	
25736 Q 1382	Ritabel, W. end of Larat.	7° 09.3' S 131° 42.9' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	46 14	12	White metal framework tower; 30.	Shown only when vessels are expected.
25738 Q 1382.8	Pulau Latur.	7° 08.2' S 131° 42.7' E	Fl.G. period 6s fl. 0.5s, ec. 5.5s	46 14	12	Green beacon.	
25740 Q 1383	Watidal.	7° 07.6' S 131° 43.0' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	33 10	4	Red metal framework tower; 33.	
25741 Q 1384	Tg Warlangir.	6° 59.3' S 132° 00.4' E	Fl.W. period 6s fl. 1s, ec. 5s	243 74	22	White metal framework tower; 131.	
25741.2 Q 1384.5	Kalbur Island.	6° 39.3' S 131° 35.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	197 60	22	White metal framework structure; 131.	
25742 Q 1592	Tg. Dehekalano.	1° 49.3' S 126° 29.1' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	213 65	20	White metal framework structure; 131.	
	RACON		M(- -)				(3 & 10cm).
25744 Q 1596	Leksula.	3° 46.9' S 126° 31.0' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	26 8	12	White metal framework tower; 20.	Radar reflector.

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INDONESIA (LESSER SUNDA ISLANDS)							
25746 Q 1597	Pulau Fogi.	3° 17.2' S 126° 00.6' E	Fl.(2)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 12.5s	502 153	40	White metal framework structure; 131.	
BURU:							
25748 Q 1594	-Namlea, Teluk Kaveli.	3° 16.8' S 127° 05.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	108 33	16	White metal framework tower; 98.	
25750 Q 1599	-Tanjung Kerbau.	3° 16.4' S 127° 07.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	46 14	10	White beacon.	
25751 Q 1599.5	Tanjung Bartutui.	3° 54.2' S 127° 12.8' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	381 116	25	White metal framework structure, white building; 131.	
25752 Q 1600	Pulau Sunggi.	3° 18.1' S 127° 28.4' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	308 94	23	White metal framework tower; 69.	Visible 310°-220°. Irregular during strong winds. <i>Reported extinguished (Oct. 1984).</i>
25754 Q 1600.5	Pulau Niene.	2° 54.8' S 127° 54.4' E	Fl.(2)W. period 15s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 11.5s	197 60	30	White beacon.	
25754.5 Q 1601.15	Tanjung Waka.	2° 28.5' S 126° 03.0' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	164 50	20	White tower.	
25755 Q 1601.1	Tanjung Fatmok.	2° 27.2' S 126° 04.1' E	Fl.(3)W. period 10s	72 22	12	White beacon.	
25756 Q 1601	Sanana.	2° 03.7' S 125° 59.2' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	59 18	8	Red metal framework tower 49.	
25756.5 Q 1601.3	-In harbor.	2° 03.3' S 125° 59.4' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	46 14	12	Green beacon.	
25760 Q 1601.5	Sakita.	1° 59.3' S 125° 57.3' E	Fl.(4)W. period 8s	33 10	10		
25764 Q 1603	Pulau Lawin.	1° 31.3' S 128° 45.0' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	112 34	15	White metal framework structure; 98.	
25766 Q 1591	Pulau Obi, Tanjung Wok.	1° 27.8' S 127° 53.8' E	L.Fl.W. period 12s fl. 5s, ec. 7s	56 17	17	White beacon; 56.	
25769 Q 1587.5	Babang.	0° 37.8' S 127° 36.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	46 14	10	White beacon.	
25770 Q 1588	Pokal.	0° 26.4' S 127° 43.3' E	Fl.(2)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 12.5s	360 110	25	White beacon.	
25771 Q 1582	Lata Lata.	0° 15.5' S 127° 00.7' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	46 14	13	White metal framework structure; 33.	

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INDONESIA (LESSER SUNDA ISLANDS)							
25772 Q 1620	Tanjung Nusanive.	3° 47.2' S 128° 05.7' E	Fl.W. period 5s fl. 1s, ec. 4s	397 121	26	White metal framework tower; 98.	Visible 254°-195°.
25773 Q 1619	P. Nusatelu, P. Ela.	3° 39.1' S 127° 54.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	197 60	10	White beacon; 33.	
25776 Q 1621	Tandjung Sikula.	3° 43.3' S 128° 05.2' E	Fl.R. period 10s fl. 1s, ec. 9s	43 13	7	White metal framework tower; 33.	
25780 Q 1621.4	Tandjung Wainitu.	3° 42.1' S 128° 09.8' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	56 17	8	Green beacon.	
25782 Q 1622	Ambon.	3° 41.7' S 128° 10.5' E	Fl.W. period 3s fl. 0.8s, ec. 2.2s	82 25	12	White mast; 10.	
25783 Q 1622.5	-N. of Batumerah.	3° 40.7' S 128° 11.3' E	Fl.W. period 3s fl. 1s, ec. 2s	39 12	8	White beacon; 33.	
25784 Q 1623	Halong.	3° 39.6' S 128° 12.6' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	6	Green beacon; 16.	
25788 Q 1623.5	Martafonds.	3° 39.4' S 128° 12.0' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	26 8	6	Red beacon; 16.	
25791 Q 1624.5	Tg. Kailolo.	3° 31.4' S 128° 25.5' E	Q.(6)+L.Fl.W. period 15s	33 10	5	White beacon.	
25791.4 Q 1624.7	Pelauw.	3° 30.2' S 128° 26.4' E	Fl.(3)W. period 10s	33 10	5	White beacon.	
PULAU SERAM:							
25794 Q 1605.5	-Teluk Hatiling.	2° 47.1' S 129° 31.1' E	Fl.R. period 3s fl. 0.6s, ec. 2.4s	46 14	10	Red beacon.	
25796 Q 1605	--NW.	2° 46.7' S 129° 30.7' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	46 14	10	Green beacon.	
25797 Q 1607	-Bula.	3° 06.2' S 130° 30.1' E	Fl.(4)W. period 8s		10		
25798 Q 1610.5	-Tanjung Namalen.	3° 57.1' S 131° 25.3' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	46 14	12	Red beacon.	
25800 Q 1608	-Pulau Geser, pier, head.	3° 52.7' S 130° 54.1' E	Fl.R.	33 10	2	White metal framework tower; 20.	Visible 334°30'-008° and 136°-244°. Exhibited when ships are expected.
25802 Q 1610.7	-Karang Madorang.	3° 38.6' S 131° 03.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	46 14	12	White beacon.	
25803 Q 1611.8	Teluk Elpaputih, Tg. Kuako.	3° 19.8' S 128° 54.8' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	55 17	10	White metal framework tower; 49.	
25803.5 Q 1612	-Teluk Amahai.	3° 20.3' S 128° 55.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	55 17	10	White metal framework tower; 30.	
25803.7 Q 1612.5	-Haruru.	3° 17.7' S 128° 57.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	46 14	12	White beacon.	

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INDONESIA (LESSER SUNDA ISLANDS)							
25804 Q 1616	Sapura Bay, landing pier, head.	3° 34.6' S 128° 39.6' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	46 14	12		
25806 Q 1613	Teluk Piru, Pulau Kasa.	3° 19.0' S 128° 08.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	10	White beacon.	
25808 Q 1625	Saanggi.	4° 19.4' S 129° 42.5' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	400 122	25	White metal framework tower; 49.	
25810 Q 1598	Bingkudu Island.	5° 20.6' S 127° 46.7' E	Fl.W. period 5s fl. 1s, ec. 4s	82 25	15	White concrete beacon tower; 66.	
PULAU BANDA:							
25812 Q 1626	-Pulau Naira, S. side, pier, head.	4° 31.5' S 129° 53.8' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	46 14	12	White metal framework structure; 33.	Radar reflector.
25816 Q 1626.5	--Tg. Batu Mati.	4° 30.2' S 129° 53.6' E	Fl.R. period 10s fl. 1s, ec. 9s	42 13	7	Red beacon; 33.	
25820 Q 1626.3	-Pulau Kraka.	4° 30.2' S 129° 53.2' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	36 11	7	Green beacon; 33.	
25824 Q 1628	Bui.	5° 06.8' S 131° 59.8' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	49 15	12	White metal framework tower; 49.	
25828 Q 1628.5	Pulau Koer.	5° 18.7' S 132° 00.4' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 11.5s	393 120	40	White metal framework tower; 131.	
25830 Q 1628.8	Kaitanimbar.	6° 00.5' S 132° 26.2' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	197 60	20	White tower.	
25832 Q 1629	-Tual.	5° 34.2' S 132° 40.3' E	Fl.R. period 3s fl. 0.6s, ec. 2.4s	59 18	4	White metal framework tower; 49.	
25833 Q 1629.3	Selat Doe Rowa, NW. of Oeboer.	5° 34.5' S 132° 42.7' E	Fl.G. period 6s fl. 0.5s, ec. 5.5s	27 8	6	STARBOARD (A) G, beacon, topmark.	
25833.5 Q 1630.4	Pulau Duroa, SE. end.	5° 32.9' S 132° 45.5' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8	6	White beacon.	
25834 Q 1629.36	-Ngadi.	5° 34.6' S 132° 45.3' E	L.Fl.W. period 5s fl. 2s, ec. 3s	59 18	7	White beacon; 49.	Fl.Y. 1.5s 7m 5M light 300 meters W and Fl.Y. 2.5s 7m 5M light 300 meters N. Radar reflector.
25836 Q 1629.6	Oeboer.	5° 35.8' S 132° 43.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	33 10	4	White metal framework tower; 33.	
25837 Q 1629.8	Mangon.	5° 36.2' S 132° 44.0' E	Fl.R. period 3s fl. 0.6s, ec. 2.4s	27 8	4	PORT (A) R, beacon, topmark; 20.	
25840 Q 1630	-Kai Duloh Tual.	5° 38.2' S 132° 44.5' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	33 10	5	White metal framework tower; 30.	

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25844 Q 1630.6	-Tegal Reef.	5° 28.5' S 132° 49.3' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	46 14	10	White metal framework tower.	
25848 Q 1631	-Elat, pier, head.	5° 38.9' S 132° 59.8' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	26 8	10	White metal framework tower; 20.	
25850 Q 3341	-Tg Aika.	4° 52.6' S 136° 44.6' E	Q.(2)W. period 10s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 8.6s	102 31	17	Beacon.	
25852 Q 3342.4	Aika River Range, front.	4° 53.2' S 136° 46.6' E	Q.W.	23 7	6	Beacon; 23.	
25856 Q 3342.41	-Rear, 056°29' from front.	4° 52.0' S 136° 47.0' E	Oc.W. period 4.5s lt. 3s, ec. 1.5s	47 14	6	Beacon; 46.	
25860 Q 3342.6	Inner Aika River Range, front.	4° 50.0' S 138° 47.0' E	Q.W.	23 7	6	Beacon; 20.	
25864 Q 3342.61	-Rear, 013°30' from front.	4° 50.0' S 136° 47.0' E	Oc.W. period 4s lt. 3s, ec. 1s	42 13	6	Beacon; 43.	Channel marked by lights.
25868	Aika River.	4° 50.0' S 136° 50.0' E	Fl.W. period 4s	36 11	6	Beacon.	

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NEW GUINEA (IND.)							
25872 Q 1632	Kepulauan Aru, Pulau Wamar, on Ular Point.	5° 45.3' S 134° 11.9' E	L.Fl.W. period 5s fl. 2s, ec. 3s	73 22	12	White metal framework tower; 43.	Visible 018°-271°.
25876 Q 1633	-Pulau Warilau, N. end.	5° 20.2' S 134° 34.2' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	98 30	15	White metal framework tower; 92.	
	-RACON		K(- • -)				
25884 Q 1632.4	-Dobo, pier, head.	5° 45.5' S 134° 14.6' E	FR.	26 8	4	White metal framework tower; 20.	Shown when vessels are expected.
25886 Q 1632.6	-Fuel Depot.	5° 49.3' S 134° 15.0' E	Fl.W. period 3s	33 10			
25886.3 Q 1632.7	-Pulau Kultubai.	6° 49.9' S 134° 47.2' E	Fl.(2)W. period 12s fl. 1.5s, ec. 2s fl. 1.5s, ec. 7s	115 35	20	White beacon; 98.	
25886.5 Q 1632.8	-Enu Island.	7° 05.3' S 134° 29.0' E	Fl.W. period 10s fl. 1s, ec. 9s	151 46	23	White concrete tower; 131.	
25887 Q 3336	Sungai Torasi.	9° 07.9' S 141° 01.2' E	Fl.W. period 3s fl. 0.4s, ec. 2.6s	46 14	15	Framework tower.	
25888 Q 3338	Tg. Mimiabe.	8° 30.3' S 140° 22.2' E	Fl.(4)W. period 20s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 7s	144 44	27	White metal framework tower; 131.	
25890 Q 3339.2	-Sungai Merauke.	8° 28.7' S 140° 23.4' E	Fl.W. period 6s fl. 1s, ec. 5s	82 25	20	White beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
NEW GUINEA (IND.)							
25892 Q 3339	-Range, front.	8° 27.6' S 140° 21.7' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	46 14	10	Beacon, white triangular daymark point up; 33.	
25896 Q 3339.1	--Rear, 300 meters 035° from front.	8° 27.4' S 140° 21.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	69 21	12	White metal framework tower, white triangular daymark point down; 52.	
25897.5 Q 3338.4	Pelabuhan Merauke.	8° 30.7' S 140° 18.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	42 13	12	Red beacon.	
25898 Q 3338.5	-Merauke.	8° 29.8' S 140° 19.3' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	39 12	10	Beacon, red rectangular daymark.	
25899 Q 3338.7	-Merauke Inner.	8° 28.6' S 140° 21.1' E	Fl.G. period 5s fl. 1s, ec. 4s	44 13	10	Green metal framework structure.	
25900 Q 3339.6	Yatum.	8° 26.9' S 140° 18.9' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	82 25	10	White metal framework structure; 82.	
25902 Q 3339.8	Tanjung Mawal.	8° 07.0' S 139° 57.1' E	Fl.W. period 3s fl. 0.6s, ec. 2.4s	43 13	15	White beacon.	
25904 Q 3340	Habee.	8° 14.6' S 139° 27.0' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	115 35	24	White metal framework tower; 26.	Visible 242°-110°.
	RACON		M(- -) period 30s		5		Azimuth coverage 295°-072°. (3cm).
25906 Q 3340.5	Selat Muli.	8° 23.5' S 138° 58.6' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	39 12	10	Red metal framework tower.	
25906.1 Q 3340.51	-NW.	8° 21.2' S 138° 57.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	46 14	10	Green beacon.	
25906.3 Q 3340.52	-Kimaan.	8° 00.7' S 138° 53.6' E	Fl.W. period 6s fl. 1s, ec. 5s	75 23	19	White beacon.	
25906.7 Q 3340.55	Tanjung Kolff.	7° 23.2' S 138° 31.8' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	43 13	12	White beacon.	
25907 Q 3340.7	Sungai Digul.	6° 56.1' S 138° 31.7' E	Iso.W. period 2s	39 12	10	White metal framework tower.	
25907.1 Q 3340.65	-S. estuary.	7° 10.4' S 138° 48.7' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	43 13	12	Red fiberglass tower; 33.	
25907.15 Q 3340.67	Habeeaman.	7° 11.6' S 138° 57.7' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	46 14	15	Green beacon.	
25907.2 Q 3340.68	-Modderhock.	7° 11.5' S 138° 38.7' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	43 13	12	Green fiberglass tower; 33.	
25907.25 Q 3340.94	Atay.	5° 51.1' S 138° 09.2' E	Fl.R. period 5s fl. 1s, ec. 4s	46 14	10	PORT (A) R, beacon, topmark.	
25907.3 Q 3340.95	Kampung River, entrance.	5° 51.8' S 138° 15.4' E	Fl.G. period 3s fl. 0.4s, ec. 2.6s	43 13	12	STARBOARD (A) G, beacon, topmark.	
25907.4 Q 3340.8	Flamingo Bay.	5° 36.6' S 137° 57.9' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	43 13	12	Green beacon.	
25907.6 Q 3340.85	-Agats.	5° 33.1' S 138° 01.7' E	Iso.W. period 2s	43 13	12	White beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
NEW GUINEA (IND.)							
25907.62 Q 3340.87	--Sungai Utumbuwe.	5° 32.9' S 138° 08.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	75 23	10	White beacon.	
25907.65 Q 3340.9	-Utumbuwe River, entrance.	5° 33.7' S 138° 03.9' E	Fl.G. period 3s fl. 0.6s, ec. 2.4s	43 13	12	Green beacon.	
25907.8	Amampare, buoy A.	4° 55.7' S 136° 40.1' E	Mo.(A)W.			Conical buoy.	
	RACON		O(---)				
25908 Q 3343	Nime.	4° 45.1' S 136° 31.1' E	Fl.(2)W. period 12.5s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	52 16	12	White metal framework tower; 49.	Radar reflector.
25910 Q 3345.4	Pulau Nusurumi.	3° 50.5' S 134° 05.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	187 57	12	White beacon.	
25912 Q 3345.5	Palau Adi.	4° 18.7' S 133° 38.2' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	98 30	16	White metal framework tower; 66.	
25914 Q 3343.5	Pulau Keliwala.	3° 59.3' S 133° 30.5' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	43 13	12	White beacon.	Radar reflector.
25916 Q 3345.3	Bitsyaru.	3° 43.4' S 133° 48.8' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	115 35	14	White metal framework structure; 49.	
25917 Q 3345	Kaimana.	3° 40.0' S 133° 45.3' E	F.R.	19 6	2	Red beacon; 20.	
25917.5 Q 3344.7	Tanjung Simora.	3° 40.4' S 133° 41.8' E	Fl.W. period 3s fl. 0.6s, ec. 2.4s	89 27	12	White beacon.	
25918 Q 3344.5	Serotte Island.	3° 34.4' S 133° 38.7' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	164 50	12	Red beacon.	
25920 Q 3346	Pulau Panjong, E. end.	2° 59.5' S 132° 19.4' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	112 34	7	White metal framework tower; 43.	Visible 139°30'-094°30'.
25922 Q 3347.6	Pulau Ekka.	2° 58.2' S 132° 06.8' E	Fl.(2)W. period 10s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 8.2s	164 50	20	White beacon.	
25923 Q 3347.5	Meti Meti.	2° 56.9' S 132° 17.8' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	49 15	6	PORT (A) R, beacon, topmark.	
25924 Q 3347	Fakfak.	2° 56.0' S 132° 18.8' E	Fl.W. period 3s fl. 1s, ec. 2s	39 12	5	White beacon.	
25925 Q 3347.7	Batu Putih, W. end.	2° 56.4' S 131° 58.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	180 55	12	White beacon.	Radar reflector.
25926 Q 3356	Tg. Putus.	2° 03.2' S 132° 03.6' E	Fl.W. period 3s fl. 0.6s, ec. 2.4s	46 14	12	White beacon.	
25928 Q 3349	Tanjung Sabra.	2° 16.4' S 132° 18.4' E	Fl.W. period 5s fl. 1s, ec. 4s	118 36	18	White metal column, concrete base; 98.	

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NEW GUINEA (IND.)							
25930 Q 3352	Tg. Karakra.	2° 17.1' S 132° 41.9' E	Fl.W. period 3s fl. 0.6s, ec. 2.4s	43 13	12		
25932 Q 3354	Tanjung Tanahmerah.	2° 26.3' S 133° 08.4' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	165 50	18	White metal framework tower; 33.	Visible 078°-253°.
25936 Q 3350	Kokas.	2° 41.7' S 132° 26.3' E	Fl.Y. period 2s fl. 0.5s, ec. 1.5s	26 8	4	Framework tower; 33.	
25938 Q 3348.7	Tanjung Wetin.	2° 41.5' S 132° 06.9' E	Fl.W. period 3s fl. 0.6s, ec. 2.4s	102 31	12	White beacon.	
25940 Q 3348.4	Pulau Sabuda, NE. point.	2° 37.3' S 131° 40.0' E	Fl.(2)W. period 18s fl. 0.5s, ec. 3s fl. 0.5s, ec. 14s	328 100	12	White metal framework tower; 56.	Visible 090°-034°.
25944 Q 3358	Jef Joes.	1° 45.1' S 131° 08.9' E	Fl.W. period 7.5s fl. 0.5s, ec. 7s	108 33	16	White metal framework tower; 66.	Visible 060°-018°.
25948 Q 3360	Umpe Island, W. end.	1° 28.4' S 130° 59.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	36 11	7	White metal framework tower; 33.	Visible 311°-150°.
25948.5 Q 3357.5	Pulau Nampale.	1° 47.4' S 129° 37.3' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	151 46	20	White beacon; 131.	
25948.7 Q 1603.5	Pulau Boo Besar.	1° 10.3' S 129° 18.1' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	112 34	15	Concrete tower; 98.	
25949 Q 3361	Pulau Kofiau.	1° 10.5' S 129° 58.5' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	151 46	20	White beacon; 131.	
	RACON		D(- • •)		12		
	SELAT SELE:						
25956 Q 3373.3	-Pulau Buaya.	0° 50.2' S 131° 12.6' E	Fl.(4)W. period 25s fl. 0.6s, ec. 3s fl. 0.6s, ec. 3s fl. 0.6s, ec. 3s fl. 0.6s, ec. 13.6s	282 86	22	White beacon; 66.	
	-RACON		K(- • -)				
25960	-Sorong Approach Lighted Buoy, N. side of 1 3/4 fathom shoal.	0° 52.0' S 131° 13.7' E	Fl.W. period 10s			Red and white striped buoy.	Radar reflector.
25964 Q 3374	Doom Island.	0° 53.1' S 131° 14.2' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	23 7	5	Concrete beacon, green triangular daymark point up.	
25968 Q 3366	-Dopior Islet.	0° 52.6' S 131° 14.3' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	33 10	5	PORT (A) R, tower, topmark; 16.	
25972 Q 3368	-Sorong Range, about 1.9 kilometers SE. of Tanjoeng Noejew, common front.	0° 53.0' S 131° 15.5' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	33 10	6	White metal framework tower, white triangular daymark point down; 26.	
25976 Q 3368.1	--Rear, 1.9 kilometers 102°30' from front.	0° 53.2' S 131° 16.5' E	Iso.W. period 4s	196 60	8	Metal framework tower, white triangular daymark topmark point down; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
NEW GUINEA (IND.)							
25980 Q 3367.9	--Rear, 841 meters 032° from front.	0° 52.6' S 131° 15.8' E	Iso.W. period 4s	79 24	6	White metal framework tower, white triangular daymark point down; 16.	
25984 Q 3368.5	-Karang Dua.	0° 53.5' S 131° 15.6' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	23 7	5	ISOLATED DANGER BRB, beacon, topmark.	
25988 Q 3372	-Pulau Tsióf.	0° 53.8' S 131° 11.1' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	36 11	6	White metal framework tower; 33.	Visible 295°-207°.
25992 Q 3379	-Balbili Island.	1° 05.3' S 131° 10.9' E	Fl.(2)W. period 12.5s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	26 8	6	White metal framework tower; 16.	Visible 130°-015°.
26000 Q 3381	-Segarou Island, on reef northward, front.	1° 10.1' S 131° 06.9' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	6	Red column; 13.	
26004 Q 3381.1	--Rear, 7.4 kilometers 195°30' from front.	1° 14.0' S 131° 05.8' E	Fl. G. period 5s fl. 0.5s, ec. 4.5s	46 14	6	STARBOARD (A) G, tower, topmark; 33.	
26008 Q 3382	-Unaginim.	1° 11.3' S 131° 07.3' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	5	Beacon, green triangular daymark point up; 16.	
26012 Q 3384	-Kampong Wijam.	1° 16.9' S 131° 00.0' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	20 6	5	Red beacon; 16.	
26016 Q 3386	-Membok Island, on reef, NE.	1° 24.3' S 130° 54.8' E	Fl.R. period 10s fl. 1s, ec. 9s	43 13	8	PORT (A) R, tower, topmark; 39.	
26017 Q 3387.5	-Tanjung Sele.	1° 27.3' S 130° 55.2' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	43 13	6	STARBOARD (A) G, beacon, topmark; 33.	
26020 Q 3362	Selat Sagewin, Pulau Batanta, S. side.	0° 54.6' S 130° 36.6' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	378 115	12	White metal framework tower; 33.	Visible 261°-077°.
26021 Q 3362.5	Pulau Agusta.	0° 38.8' S 130° 34.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	72 22	15	White concrete tower.	
26022 Q 3363	Saonek Besar.	0° 28.1' S 130° 47.2' E	Fl.W. period 7.5s fl. 0.5s, ec. 7s	203 62	15	White beacon.	
26024 Q 3376	Mios Su (Amsterdam).	0° 20.7' S 132° 10.3' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	56 17	14	White metal framework tower; 52.	Visible 089°-272°.
26028 Q 3376.5	Saoekorem.	0° 33.1' S 133° 08.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	105 32	14	White metal framework structure; 98.	
26032 Q 3389	Tg. Memori.	0° 51.7' S 134° 08.1' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	52 16	12	White metal framework tower; 56.	Visible 132°-343°.
26036 Q 3391	Butsiuri Reef, Menukwari Road.	0° 52.5' S 134° 05.3' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	36 11	7	White metal beacon; 13.	
26040 Q 3390	Manukwari Coal Depot Range, front.	0° 51.8' S 134° 04.8' E	F.G.	17 5	4	White triangular daymark point up; 13.	Occasional.
26044 Q 3390.4	Manokwari, pier.	0° 51.8' S 134° 04.8' E	Fl.R.	33 10	4	Red metal mast; 23.	Occasional.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
NEW GUINEA (IND.)							
26048 Q 3390.1	-Rear, 85 meters 006°30' from front.	0° 51.9' S 134° 04.5' E	Iso.W. period 2s	30 9	14	White triangular daymark point down; 20.	Occasional.
26052 Q 3392	Palau Numfoor.	0° 56.5' S 134° 49.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	147 45	18	White metal framework tower; 52.	Visible 060°-238°, partially obscured-255°.
26053 Q 3391.5	Pulau Bepondi.	0° 24.4' S 135° 15.8' E	Fl.W. period 5s fl. 1s, ec. 4s	75 23	20	White beacon.	
26055 Q 3392.75	Teluk Wabudori.	0° 40.0' S 135° 36.3' E	Fl.W. period 6s fl. 0.6s, ec. 5.4s	49 15	12	White beacon.	
26056 Q 3392.7	Rani.	0° 57.8' S 135° 30.3' E	Fl.W. period 3s	56 17	12	White beacon; 49.	
26058 Q 3392.8	Pulau Miosmbi.	1° 04.5' S 136° 23.3' E	L.Fl.W. period 8s fl. 2s, ec. 6s	52 16	18	White beacon.	
26060 Q 3393	Sorido Outer Range, front.	1° 11.2' S 136° 05.6' E	Iso.W. period 2s	49 15	15	White metal framework tower, white triangular daymark point up; 33.	
26064 Q 3393.1	-Rear, about 260 meters 322° from front.	1° 11.3' S 136° 05.5' E	Iso.W. period 2s	75 23	15	White mast, white triangular daymark point down; 49.	
26068 Q 3393.3	-Inner Range, front.	1° 10.9' S 136° 04.3' E	Iso.W. period 8s	56 17	15	White mast, white triangular daymark point up; 33.	
26072 Q 3393.31	--Rear, 240 meters 295° from front.	1° 11.0' S 136° 04.2' E	Iso.W. period 8s	56 17	15	White mast, white triangular daymark point down; 49.	
26076 Q 3393.5	-Biak AVIATION LIGHT.	1° 11.5' S 136° 08.3' E	L.Fl.W. period 5s fl. 2s, ec. 3s	331 101	12	White metal framework tower; 16.	Visible 268°-094° except where obscured by islands.
26080 Q 3395.1	Tanjung Oransbari.	1° 20.9' S 134° 16.5' E	Oc.W. period 4s lt. 3s, ec. 1s	164 50	21	White metal framework tower; 66.	
26081 Q 3395.15	Tg. Yanimerai.	1° 44.2' S 134° 12.2' E	Fl.Y. period 4s	79 24	6	SPECIAL Y, beacon, "X" topmark.	
26082 Q 3395.2	Tg. Wandoswaar.	2° 00.5' S 134° 21.7' E	Fl.Y. period 4s	49 15	6	SPECIAL Y, beacon, "X" topmark.	
26084 Q 3394.5	Serui, W. pier, inner head.	1° 53.0' S 136° 15.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	52 16	4	Yellow metal framework tower; 49.	
26088 Q 3393.6	Rasi Island, S. end.	1° 20.3' S 136° 37.3' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	46 14	12	White metal framework tower; 43.	Visible 226°-106°.
26092 Q 3396.8	Pulau Kumamba Liki.	1° 34.8' S 138° 43.0' E	L.Fl.W. period 5s	144 44	21	White metal framework tower; 131.	
26096 Q 3395	Tg. Woka, W. extremity of Jopen Island.	1° 36.0' S 135° 24.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	131 40	12	White metal beacon; 33.	
26100 Q 3395.6	Nabire.	3° 06.3' S 135° 32.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	66 20	12	White metal framework tower; 33.	
26101 Q 3395.59	Pulau Notabari.	3° 06.1' S 135° 09.6' E	Fl.Y. period 4s	79 24	6	SPECIAL Y, beacon, "X" topmark.	
26104 Q 3395.8	Teluk Kimi.	3° 14.1' S 135° 34.9' E	Fl.(2)W. period 8s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 4.5s	75 23	12	White metal framework tower; 66.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
NEW GUINEA (IND.)							
26104.5 Q 3395.9	Tanjung Kamengsenu.	2° 41.8' S 136° 01.2' E	Fl.W. period 4s fl. 1s, ec. 3s	174 53	18	White beacon.	
26105 Q 3396	-Naufi.	2° 14.2' S 136° 15.6' E	L.Fl.W. period 10s fl. 3s, ec. 7s	115 35	15	White beacon.	
26105.5 Q 3396.2	Tanjung Worisanua.	2° 12.4' S 136° 25.3' E	Fl.W. period 6s fl. 1s, ec. 5s	75 23	12	White beacon.	
26106 Q 3395.3	-Karang-Karang Tydeman.	2° 08.2' S 135° 18.7' E	Fl.W. period 6s fl. 1s, ec. 5s	36 11	6	White beacon.	
26106.5 Q 3395.35	Pulau Matas.	2° 12.5' S 134° 45.8' E	Fl.Y. period 4s	46 14	6	SPECIAL Y, beacon, "X" topmark.	
26107 Q 3395.4	-Pulau Kubuai.	2° 32.8' S 134° 53.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	108 33	14	White metal framework structure; 98.	
26107.5 Q 3395.5	-Yop.	2° 32.0' S 134° 23.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	15	Green beacon.	
26107.7 Q 3395.55	-Teluk Wandamen, Mie.	2° 43.6' S 134° 30.1' E	L.Fl.W. period 10s fl. 2s, ec. 8s	42 13	12	White beacon.	
26108 Q 3393.7	Tg. Rainbawa.	1° 47.7' S 136° 54.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	85 26	12	White metal framework tower, white diamond topmark; 66.	Visible 165°-055°.
26112 Q 3396.6	Mamberamo.	1° 27.6' S 137° 53.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	102 31	12	White metal framework tower; 52.	
26115 Q 3396.9	Pulau Armo.	1° 42.6' S 138° 48.0' E	Q.(6)+L.Fl.W. period 15s	52 16	18	S. CARDINAL YB, beacon, topmark.	Radar reflector.
26116 Q 3397	Sarmi.	1° 50.5' S 138° 44.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	59 18	6	White metal framework tower; 52.	
26117 Q 3397.5	Holmaffin.	1° 57.6' S 138° 52.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	12	White beacon.	
26118 Q 3397.6	Jamna.	2° 00.3' S 139° 14.3' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	75 23	18	White beacon.	
26119 Q 3397.8	Tg. Kamdara.	2° 19.1' S 140° 06.7' E	Iso.W. period 10s	141 43	17		
26119.5 Q 3397.95	Tg. Kelapa.	2° 26.4' S 140° 36.7' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	39 12	14	White beacon.	
26120 Q 3398	Soeadja Moko.	2° 31.7' S 140° 44.8' E	Fl.(2+1)W. period 24s fl. 1s, ec. 3s fl. 1s, ec. 9s fl. 1s, ec. 9s	705 215	18	White metal framework tower; 66.	
26123 Q 3398.8	Hollandia Baai, NW. of Entsjau.	2° 32.5' S 140° 43.2' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	44 13	12	PORT (A) R, beacon, topmark.	Radar reflector.
26123.5 Q 3398.9	-N. side of harbor.	2° 32.3' S 140° 42.8' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	44 13	12	STARBOARD (A) G, beacon, topmark.	Radar reflector.
26124 Q 3399	-Noebae Han, front.	2° 32.4' S 140° 42.4' E	Q.W.	56 17	6	White metal framework tower, red bands, white triangular daymark point up; 49.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
NEW GUINEA (IND.)							
26128 <i>Q 3399.1</i>	--Rear, 150 meters 255° from front.	2° 32.5' S 140° 42.4' E	Oc.W. period 4s fl. 3s, ec. 1s	72 22	6	White wooden post, white triangular topmark point down; 82.	
26129 <i>Q 3399.8</i>	Oinake.	2° 36.7' S 141° 00.0' E	Fl.W. period 10s fl. 1s, ec. 9s	656 200	20	White structure.	
PAPUA NEW GUINEA							
26130 <i>K 3400</i>	Cape Concordia.	2° 40.8' S 141° 18.5' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	223 68	10	White framework tower; 30.	
26132 <i>K 3400.15</i>	Stein Reef.	3° 07.8' S 142° 21.8' E	Fl.(2)W. period 10s	20 6	3	White concrete column; 13.	
26134 <i>K 3400.18</i>	Walis Island.	3° 14.6' S 143° 18.2' E	Fl.(2)W. period 6s	20 6	9	White column.	
26136 <i>K 3400.2</i>	Unei Island.	3° 22.7' S 143° 24.6' E	Fl.(4)W. period 16s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 9.5s	20 6	9	White pile structure.	
26140 <i>K 3400.4</i>	Cape Samein.	3° 26.1' S 143° 32.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	30 9	10	Black pile structure.	
26142 <i>K 3400.6</i>	Wewak.	3° 33.8' S 143° 38.8' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	4	White pile.	
26142.1 <i>K 3400.7</i>	-W. side.	3° 33.4' S 143° 37.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	16 5	4	White pile.	
26144 <i>K 3401</i>	Cape Moem.	3° 33.1' S 143° 42.1' E	Fl.(3)W. period 12s	52 16	10	White framework tower; 49.	
26152 <i>K 3401.4</i>	Condor Point.	4° 07.1' S 144° 51.7' E	Fl.(2)W. period 8s fl. 0.4s, ec. 1s fl. 0.4s, ec. 6.2s	50 15	10	White framework tower; 52.	
26156 <i>K 3401.6</i>	Cap Gourdon.	4° 23.2' S 145° 19.4' E	Fl.(3)W. period 9s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 6.1s	50 15	10	White framework tower; 62.	
26160 <i>K 3401.8</i>	Cape Croisilles.	4° 50.9' S 145° 48.3' E	Fl.(2)W. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	72 22	10	White framework tower; 72.	Visible 135°-338°.
26164 <i>K 3403</i>	Madang Entrance Range, front, on Beliau Island.	5° 12.2' S 145° 48.4' E	Fl.W. period 1.5s	24 7	10	Black pile, white triangular daymark point up.	
26168 <i>K 3403.1</i>	-Rear, 115 meters 300° from front.	5° 12.2' S 145° 48.3' E	Oc.W. period 4s	48 15	7	White framework tower, white triangular daymark point down.	
26169 <i>K 3403.4</i>	Kranket Island Range, front.	5° 12.2' S 145° 48.9' E	Q.W.	10 3	4	White pile.	
26169.5 <i>K 3403.41</i>	-Rear, 30 meters 073°30' from front.	5° 12.2' S 145° 48.9' E	Fl.W. period 5s	16 5	4	White pile.	
26170 <i>K 3403.2</i>	-Boyes Reef.	5° 12.4' S 145° 48.9' E	Fl.G. period 3s	18 5	7	White pile, green triangular daymark point up.	
26172 <i>K 3402</i>	Coast Watchers.	5° 12.7' S 145° 48.9' E	Fl.W. period 15s fl. 0.2s, ec. 14.8s	92 28	12	White concrete tower; 89.	Tower floodlit for 30 minutes every 3 hours.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PAPUA NEW GUINEA							
26176 K 3404	AVIATION LIGHT, 3.1 kilometers 276°30' from Kalibobo Point.	5° 12.6' S 145° 47.2' E	Fl.W. period 9.5s fl. 0.3s, ec. 9.2s	60 18	25		
26184 K 3405.4	Kitumala Point.	6° 19.2' S 147° 48.4' E	Fl.(2)W. period 8s fl. 0.4s, ec. 1s fl. 0.4s, ec. 6.2s	85 26	10	White fiberglass tower; 13.	Visible 170°-318°.
26188 K 3406	Nussing Island, Cape Cretin.	6° 39.4' S 147° 51.8' E	Fl.W. period 6s fl. 0.6s, ec. 5.4s	70 21	10	White framework tower; 66.	Visible 187°-060°, except where obscured by Tami Island.
26192 K 3408	Cape Gerhards.	6° 44.5' S 147° 34.5' E	Fl.(3)W. period 12s	71 22	10	White framework tower; 75.	
26212 K 3415	Burnung Point.	7° 01.0' S 147° 04.1' E	Fl.(2)W. period 20s fl. 1s, ec. 3s fl. 1s, ec. 15s	151 46	10	White column; 13.	Visible 140°-300°.
26213.1 K 3422	Cape Ward Hunt.	8° 03.7' S 148° 07.6' E	Fl.W. period 4s	213 65	10		
26214 K 3422.5	Raymonde Shoal.	8° 12.9' S 148° 17.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	52 16	10	Black pile structure.	
26216 K 3423	Eve Shoal.	8° 30.9' S 148° 25.1' E	Fl.(2)W. period 8s fl. 0.4s, ec. 1s fl. 0.4s, ec. 6.2s	52 16	10	White beacon, gray bands.	
26220 K 3424	Oro Bay Range, front.	8° 54.0' S 148° 28.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	390 119	18	White metal tower.	
26224 K 3424.1	-Rear, 244 meters 240°42' from front.	8° 54.0' S 148° 28.0' E	Fl.W. period 10s fl. 0.2s, ec. 9.8s	436 133	18	White metal tower.	
26228 K 3426	Spear Island.	8° 59.5' S 149° 08.2' E	Fl.W. period 6s	63 19	10	White metal tower.	
26232 K 3428	Hall Point.	9° 02.4' S 149° 18.8' E	Fl.(2)W. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	66 20	9	White hut; 10.	Visible 150°-330°.
TUFU HARBOR:							
26236 K 3430	-Range, front.	9° 05.1' S 149° 19.3' E	Oc.W. period 3s lt. 2s, ec. 1s	100 30	10	White square daymark, black stripe; 30.	Visible 260°-345°.
26240 K 3430.1	--Rear, 1.65 miles 308°30' from front.	9° 04.1' S 149° 18.0' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	400 122	10	White square daymark, black stripe; 20.	Visible 280°-330°, partially obscured 175°-280°.
26244 K 3429	Veale Reef.	9° 11.8' S 149° 28.5' E	Fl.W. period 2.5s fl. 0.5s, ec. 2s	30 9	10	White column; 39.	
26248 K 3429.6	Ham Reef.	9° 11.9' S 149° 26.6' E	Fl.W. period 10s fl. 1s, ec. 9s	30 9	10	Black pile structure; 30.	
26252 K 3429.4	Greaves Reef.	9° 10.6' S 149° 26.9' E	Fl.(3)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	36 11	10	White column; 39.	
26256 K 3429.8	Stewart Reef.	9° 07.7' S 149° 23.5' E	Fl.R. period 1.5s fl. 0.2s, ec. 1.3s	23 7	4	White pile; 23.	
26260 K 3432	Ipoteto Island.	9° 37.7' S 150° 01.4' E	Fl.(2)W. period 8s	75 23	10	White framework tower; 82.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PAPUA NEW GUINEA							
26264 K 3438	Kegawam Island.	10° 21.2' S 151° 23.1' E	Fl.W. period 6s fl. 0.4s, ec. 5.6s	26 8	10	Beacon.	
26268 K 3446	Hastings Island.	10° 20.5' S 151° 52.1' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	28 9	10	Black and white pile, green triangular daymark point up; 13.	Visible 298°-204°24'. Radar reflector.
26272 K 3449	Lunn Island.	10° 47.2' S 152° 00.3' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	48 15	10	Black and white pile, red square daymark; 49.	Visible 164°30'-035°42'.
26276 K 3450	Pana Waipona Island.	11° 15.2' S 152° 08.1' E	Fl.W. period 10s fl. 0.1s, ec. 9.9s	79 24	10	Black and white pile, green triangular daymark point up; 69.	
26280 K 3450.3	Misima Island, Bwagaoia Harbor.	10° 41.5' S 152° 50.9' E	Fl.W. period 5s	13 4	10	White pile.	
26282 K 3450.44	--E. side.	10° 41.7' S 152° 47.6' E	Fl.(3)W. period 9s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 6.1s	36 11	2		
26283 K 3450.46	--W. side.	10° 41.7' S 152° 47.5' E	Q.R.	33 10	2		
26284 K 3450.5	Adele Island.	11° 26.9' S 154° 24.0' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s	141 43	16	Framework tower; 102.	
26288 K 3440	Shortland Reef.	10° 30.5' S 151° 07.9' E	Fl.(3)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	36 11	10	White pile structure; 33.	
26292 K 3444	Bright Island, N. end.	10° 31.9' S 151° 12.8' E	Fl.W. period 2.5s fl. 0.5s, ec. 2s	52 16	10	White tower; 46.	Visible 016°-317°.
26296 K 3448	Strathord Islands, N. islet.	10° 13.3' S 151° 52.0' E	Fl.(3)W. period 12s	26 8	10	Beacon.	Visible 032°30'-327°30'.
26304 K 3451.24	-S. side.	10° 15.0' S 150° 56.5' E	Fl.R. period 2s fl. 0.2s, ec. 1.8s	23 7	4	Pile, red square daymark.	Radar reflector.
26308 K 3451.23	-N. side.	10° 14.7' S 150° 56.6' E	Fl.G. period 2s fl. 0.2s, ec. 1.8s	23 7	4	Pile, green triangular daymark point up.	Radar reflector.
26312 K 3451	Meimeiara Island.	10° 13.5' S 150° 53.0' E	Fl.W. period 2.5s fl. 0.5s, ec. 2s	114 35	10	White hut; 13.	
26316 K 3456	Brumer Island.	10° 45.3' S 150° 22.9' E	Fl.(3)W. period 15s	686 209	10	White square concrete tower; 23.	Visible 293°-283°. Partly obscured 283°-293°.
26320 K 3456.5	Ava Point.	10° 34.1' S 149° 52.8' E	Fl.W. period 12s fl. 0.2s, ec. 11.8s	616 188	10	White square concrete tower; 20.	
26324 K 3455	Weka Una Rock.	10° 36.1' S 150° 36.5' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	33 10	10	White column, concrete base; 20.	
26328 K 3453	Sariba Island, N. extremity, 2.9 kilometers 018° from Mount Bilo Bilo summit.	10° 34.3' S 150° 42.1' E	Fl.W. period 5s	23 7	6	Beacon.	
26332 K 3452	Isulailai Point.	10° 33.5' S 150° 41.7' E	Fl.(2)W. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	55 17	9	White framework tower; 13.	Visible 167°-031°.
26336 K 3451.4	Sanderson Bay.	10° 18.5' S 150° 27.0' E	Q.R.	31 9	3		Visible 330°-065°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PAPUA NEW GUINEA							
26340 K 3454	Samarai Island, off N. end.	10° 36.3' S 150° 39.8' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	20 6	6	Black and white pile, green triangular daymark point up; 20.	Radar reflector.
26344 K 3456.7	Rothery Passage, W. Reef, E. end.	10° 21.2' S 148° 41.4' E	Fl.(3)W. period 15s	72 22	10	White framework tower; 72.	
26348 K 3457	Hood Point.	10° 06.2' S 147° 43.7' E	Q.(2)W. period 8s	26 8	10	Beacon.	
PORT MORESBY:							
26352 K 3458	-Basilisk Passage, Nateara Reef.	9° 32.3' S 147° 08.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	30 9	10	White pile structure; 30.	Radar reflector.
	-RACON		G(- - •) period 128s		10		(3cm).
26360 K 3459	-Basilisk Passage Range, front.	9° 29.9' S 147° 11.1' E	Oc.W. period 4s lt. 2.5s, ec. 1.5s	125 38	15	Square beacon, two white rectangular daymarks, black stripes; 10.	Visible 029°-089°.
26364 K 3459.1	--Rear, 445 meters 054° 30' from front.	9° 29.8' S 147° 11.3' E	Oc.W. period 6s lt. 4.5s, ec. 1.5s	294 90	10	White square concrete tower, two white rectangular daymark, black stripes; 23.	Visible 309°-116°, intensified 309°-101°.
26368 K 3461	-Logolu Motu Motu Reef, S. end.	9° 28.6' S 147° 08.5' E	Fl.G. period 2.5s fl. 0.5s, ec. 2s	15 5	4	White column, green band.	
26372 K 3461.2	--N. end.	9° 28.5' S 147° 08.6' E	Fl.(2)G. period 8s	15 5	6	White column, green band.	
26381 K 3460.2	Port Moresby Restricted Area, S. side.	9° 27.6' S 147° 07.2' E	Fl.R. period 4s				
26381.2 K 3460.205	Port Moresby Restricted Area, N. side.	9° 27.4' S 147° 07.2' E	Fl.R. period 2s				
26381.4 K 3460.21	Napa Napa.	9° 27.4' S 147° 07.1' E	Fl.R. period 4s				R. Lt. on flare stack 0.2M W.
26381.6 K 3460.211	Esade Motu Motu.	9° 27.2' S 147° 07.1' E	Q.(6)+L.Fl.W. period 15s			S. CARDINAL YB, beacon, topmark.	
26382 K 3460.3	-Vahunabada Reef.	9° 27.8' S 147° 08.4' E	Q.G.		3	White pile, black bands.	
26384 K 3464	Idihi Island.	9° 25.8' S 146° 53.0' E	Fl.(2)W. period 5s	75 23	10	White round tower.	
26388 K 3463.4	Haidana Island, reef off W. side.	9° 27.3' S 147° 01.9' E	Fl.R. period 5s	23 7	4	White pile, red square daymark.	
26392 K 3463.8	Boera Head.	9° 23.4' S 147° 00.9' E	Fl.W. period 2.5s	108 33	10	White hut; 7.	
26396 K 3464.4	Redscar Head.	9° 15.9' S 146° 54.0' E	Fl.W. period 10s	254 77	10	White hut, white square daymark; 10.	
26400 K 3465	Yule Island.	8° 49.6' S 146° 32.1' E	Fl.(3)W. period 15s	178 54	8	White square concrete tower; 23.	
26404 K 3469.7	Kumul.	8° 03.8' S 144° 33.7' E	Mo.(U)W. period 15s	62 19	15	Platform.	Shown from each corner. Horn: Mo.(U) 30s.
	RACON		Q(- - • -)				(3 & 10cm).
26408 K 3469	Bristow Island.	9° 06.0' S 143° 17.0' E	Fl.(2)W. period 8s	20 6	10	White tower; 23.	
26411 K 3470	Daru Island, NE.	9° 03.7' S 143° 13.1' E	Fl.W. period 2.5s	20 6	6		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PAPUA NEW GUINEA							
26416 K 3436	Bomatu Point.	8° 24.0' S 151° 07.0' E	Fl.(3)W. period 15s	102 31	10	White framework tower; 62.	Visible 097°-290°.
26420 K 3437	Kitava Island.	8° 38.7' S 151° 20.2' E	Fl.W. period 7.5s fl. 0.5s, ec. 7s	350 107	10	White framework tower; 49.	Visible 232°-080°, partially obscured 080°-110°.

Section 17

Burma, Bangladesh, India, Sri Lanka and Andaman Sea Including Andaman Islands, Nicobar Islands and Maldive Islands

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-BAY OF BENGAL							
NICOBAR ISLANDS:							
-Great Nicobar:							
26424 F 1224	--Indira Point.	6° 45.3' N 93° 49.7' E	Fl.(2)W. period 20s	115 35	10	White round metal tower, red diagonal stripes; 114.	
	--RACON		G(- - •)		10		Azimuth coverage 244°-103°. (3 & 10cm).
26426 F 1227.1	--Rosen Point.	6° 57.3' N 93° 56.7' E	Fl.W. period 10s	75 23	13	Trestle tower, square masonry tower, black bands; 69.	
26428 F 1225	--Chisen.	6° 59.2' N 93° 55.6' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 6.5s	148 45	6	White square masonry tower; 20.	
26432 F 1226	--Campbell Bay Range, front.	7° 00.4' N 93° 55.1' E	Q.W.	36 11	5	White rectangular tower, red triangular daymark point up; 26.	
26436 F 1226.1	--Rear, 200 meters 319°30' from front.	7° 00.6' N 93° 55.2' E	Fl.W. period 5s	75 23	5	White square concrete tower, red bands, white triangular daymark point up; 62.	
26436.5 F 1224.9	--Campbell Bay.	7° 00.9' N 93° 56.0' E	Fl.(2)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	138 42	10	White trestle tower; 39.	
26437 F 1224.1	--Kabra Island.	7° 17.4' N 93° 50.8' E	Fl.(3)W. period 20s	203 62	20	White framework tower, black bands; 39.	
-Little Nicobar:							
26439 F 1223.8	--Menchal Island.	7° 23.7' N 93° 46.2' E	Fl.W. period 10s	154 47	10	Framework tower; 98.	
26440 F 1223.6	--Pulo Milo.	7° 24.5' N 93° 41.5' E	Fl.W. period 15s fl. 1s, ec. 14s	174 53	8	White framework tower; 46.	
26446 F 1223	-Katchall Island, East Bay.	8° 00.4' N 93° 24.5' E	Fl.W. period 5s	141 43	10	Red and white metal framework tower; 79.	
26448 F 1223.4	--West Bay.	7° 55.5' N 93° 19.9' E	Fl.(3)W. period 15s	56 17	10	Black and white metal framework tower; 39.	
26450 F 1222.65	Cape Connaught.	7° 55.8' N 93° 34.6' E	Fl.(2)W. period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 13s	72 22	10	Square masonry tower, black bands; 39.	
26451.1 F 1222.58	-Trinkat Island.	8° 02.4' N 93° 35.7' E	Fl.(4)W. period 20s	36 11		White round masonry tower.	
26451.2 F 1222.8	-Tillanchang Island.	8° 28.3' N 93° 37.5' E	Fl.W. period 10s	374 114	25	White framework tower, black bands.	
26451.3 F 1222.55	-Bompoka Island.	8° 13.5' N 93° 14.8' E	Fl.(2)W. period 20s fl. 1s, ec. 2s fl. 1s, ec. 16s	141 43	16	Red metal framework tower, white bands; 39.	
26451.4 F 1222.5	-Chowra Island.	8° 27.5' N 93° 03.3' E	Fl.W. period 15s	85 26	9	White metal framework tower; 39.	
	--RACON		B(- •••)				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-BAY OF BENGAL							
26452 F 1222.4	-Batti Malv.	8° 50.2' N 92° 51.5' E	Fl.(4)W. period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 15s	69 21	8	White metal framework tower; 46.	
	-Car Nicobar:						
26464 F 1220	--Keating Point.	9° 15.3' N 92° 46.5' E	Fl.W. period 10s fl. 0.4s, ec. 9.6s	121 37	26	White round metal tower, red bands; 121.	
	--RACON		O(- - -)		20		Azimuth coverage 052°-319°. (3 & 10cm).
26476 F 1211	Rutland Island.	11° 20.8' N 92° 36.6' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	34 10	10	Square concrete tower; 10.	
26480 F 1212	-North Cinque Island.	11° 19.7' N 92° 43.3' E	Fl.W. period 10s	501 153	20	White rectangular stone tower, red bands; 36.	
26481 F 1212.5	North Brother Island.	10° 59.3' N 92° 40.0' E	Fl.(2)W. period 20s	46 14	10	White metal framework tower.	
26482 F 1212.8	South Sentinel Island.	10° 58.9' N 92° 13.6' E	Fl.W. period 15s	121 37	10	White metal framework tower, red bands; 118.	
26484 F 1214	Little Andaman.	10° 30.7' N 92° 30.3' E	Fl.W. period 10s fl. 0.2s, ec. 9.8s	167 51	20	White tower, black bands; 151.	
26488 F 1213	Hut Bay, breakwater.	10° 35.9' N 92° 33.3' E	V.Q.Y.			Post.	
ANDAMAN ISLANDS:							
26492 F 1205	-North Point.	11° 42.3' N 92° 45.3' E	Fl.(2)W. period 12s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s	235 72	20	White round metal tower, red diagonal stripes; 114.	
	-RACON		K(- • -)				(3 & 10cm).
26496 F 1207	-Perseverance Point.	11° 41.4' N 92° 44.7' E	Fl.W. period 10s	33 10	10	White tower, orange bands; 16.	
26500 F 1208	-Command Point.	11° 41.7' N 92° 43.7' E	Fl.(2)W. period 10s	36 11	5	White concrete tower; 20.	
26501 F 1208.5	-Blair Reef, E.	11° 41.0' N 92° 44.2' E	Fl.R. period 6s	10 3	6	Beacon.	
26502 F 1209.5	-Atlanta Point.	11° 40.6' N 92° 44.8' E	Fl.W. period 5s	108 33	6	White square masonry tower, red band; 33.	
26504 F 1210	-Mount Haughton, AVIATION LIGHT.	11° 39.0' N 92° 44.8' E	F.R.	528 161	3	Gray round tower, round conspicuous building; 18.	
26508 F 1204	-Ross Island.	11° 40.9' N 92° 46.0' E	Fl.W. period 15s	39 12	10	White round masonry tower, black band; 39.	
26512 F 1203	-Sir Hugh Rose Island.	11° 47.3' N 93° 05.0' E	Fl.W. period 7s fl. 1s, ec. 6s	187 57	20	White round metal tower, red bands; 72.	
26513 F 1210.5	-Chidiyatapu.	11° 28.7' N 92° 42.7' E	Fl.(2)W. period 10s	171 52	10	White concrete tower, black bands; 121.	
26514 F 1202.9	-Havelock Island, Stowe Point.	12° 03.0' N 92° 57.9' E	Fl.W. period 5s	26 8	10	White concrete tower; 26.	
26516 F 1202.8	-Baratang Island, S. end.	12° 05.0' N 92° 47.5' E	Fl.W. period 5s	177 54	8	White metal framework tower, black bands; 46.	Visible 216°-006°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-BAY OF BENGAL							
26518 <i>F 1202.68</i>	Wilson Island.	12° 08.8' N 92° 57.4' E	Fl.(2)W. period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 18s		10	White framework tower, red bands; 39.	
26520 <i>F 1202.66</i>	Strait Island.	12° 11.9' N 92° 56.0' E	Fl.(3)W. period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 16.5s	92 28	8	White framework tower; 46.	
26524 <i>F 1202.64</i>	South Button Island.	12° 13.5' N 93° 01.2' E	Fl.W. period 15s fl. 0.5s, ec. 14.5s	85 26	8	White metal framework tower, red bands; 46.	
26528 <i>F 1202.62</i>	Middle Button Island.	12° 16.7' N 93° 01.7' E	Fl.(2)W. period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 18s	125 38	8	White framework tower, black bands; 46.	
26532 <i>F 1202.6</i>	North Button Island.	12° 19.1' N 93° 04.1' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	190 58	8	White framework tower, black bands; 46.	
26539 <i>F 1202.58</i>	North Passage Island, Cape Portman.	12° 18.6' N 92° 56.0' E	Fl.W. period 5s	95 29	10		
26542 <i>F 1202.3</i>	Interview Island.	12° 53.2' N 92° 40.1' E	Fl.(2)W. period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 18s	171 52	10	White square masonry tower; 39.	
26544 <i>F 1202.45</i>	Aves Island.	12° 54.8' N 92° 56.3' E	Fl.(2)W. period 7s	115 35	11	Red masonry tower, white bands; 49.	
26548 <i>F 1202.4</i>	Square Rock.	12° 55.5' N 92° 58.5' E	Fl.W. period 15s	42 13	10	Beacon.	
26552 <i>F 1201</i>	East Island.	13° 37.8' N 93° 02.9' E	Fl.W. period 15s	292 89	24	White round metal tower, red bands; 121.	
	RACON		D(- • •)				(3 & 10cm).
BURMA-ANDAMAN SEA							
26556 <i>F 1202</i>	Port Cornwallis, Ross Island, Bo pung.	13° 18.0' N 93° 04.5' E	Fl.(2)W. period 20s fl. 1s, ec. 2s fl. 1s, ec. 16s	134 41	10	White square masonry tower; 23.	
26557 <i>F 1202.2</i>	-Brush Islet.	13° 17.6' N 93° 03.0' E	Fl.W. period 5s	42 13	5	White round concrete structure.	
26560 <i>F 1201.1</i>	Narcondam Island.	13° 27.3' N 94° 15.7' E	Fl.(3)W. period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 16.5s	200 61	8	White metal framework tower; 46.	Visible 058°-179°.
26564 <i>F 1200</i>	Table Island.	14° 11.1' N 93° 21.7' E	Fl.(4)W. period 25s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 12s	195 59	20	White round tower, red bands; 91.	Visible 013°-031° and 039°-348°.
26570 <i>F 1158</i>	Pulau Palin.	9° 58.3' N 98° 29.9' E	Fl.W. period 5s	52 16	12	Square framework tower; 53.	
MERGUI HARBOR:							
26572 <i>F 1138</i>	-Kalwin Point.	12° 29.5' N 98° 35.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	41 12	8	Red metal framework tower, yellow bands, platform, concrete piles.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
BURMA-ANDAMAN SEA							
26576 <i>F 1144</i>	-Seikkantha.	12° 26.7' N 98° 35.8' E	Q.W.		48 15	12 White metal framework tower, wooden framework tower, white ball topmark; 61.	
26580 <i>F 1136</i>	Cornwall Point.	13° 04.8' N 98° 20.0' E	Fl.W. period 5s		20 6	7 Black and white checkered framework tower; 13.	
26584 <i>F 1132</i>	Mibya Kyun (Reef Island), W. side of entrance to Tavoy River.	13° 36.6' N 98° 12.2' E	Fl.W. period 5s		299 91	12 White square masonry tower, round lantern; 31.	Visible 164°-007°.
26588 <i>F 1131</i>	Kyaukpyn Kyun.	13° 46.6' N 97° 55.2' E	Fl.W. period 7s fl. 0.7s, ec. 6.3s		175 53	7 Black and white checkered framework tower; 13.	Visible 188°-139°.
26592 <i>F 1128</i>	Double Island, center.	15° 52.5' N 97° 35.1' E	Fl.W. period 5s		140 43	13 White masonry tower; 66.	Visible 353°-173°.
26596 <i>F 1126</i>	Green Island.	16° 03.8' N 97° 33.1' E	Fl.(2)W. period 10s		135 41	19 White masonry tower, red bands; 65.	
RANGOON:							
26620 <i>F 1088</i>	-Eastern Grove Flats.	16° 30.1' N 96° 23.2' E	Oc.W. period 6s lt. 4s, ec. 2s		93 28	15 Red pile structure, black and white lantern; 105.	Visible 307°-037°.
26640 <i>F 1100.9</i>	-Thilawa Range, front, 256 meters 193°45' from common rear.	16° 39.1' N 96° 15.8' E	Q.W.		27 8	5 White metal column; 15.	
26644 <i>F 1101</i>	--Common Rear Range.	16° 39.2' N 96° 15.9' E	Fl.W. period 4s fl. 1.5s, ec. 2.5s		59 18	5 White framework tower; 53.	
26648 <i>F 1101.2</i>	-Front, 210 meters 290° from common rear.	16° 39.2' N 96° 15.7' E	Q.W.		26 8	5 White metal column; 25.	
26660 <i>F 1106</i>	-Thetkaikwin (D'Silva) Range, front.	16° 39.8' N 96° 13.4' E	Q.W.		30 9	5 White metal framework tower; 28.	
26664 <i>F 1106.1</i>	--Rear, 306 meters 177° from front.	16° 39.6' N 96° 13.4' E	Fl.W. period 4s fl. 1.5s, ec. 2.5s		50 15	5 White metal framework tower; 47.	
26680 <i>F 1074</i>	SANDA LIGHTSHIP.	15° 32.0' N 95° 38.0' E	Fl.W. period 6s				Q.W. riding light. Radar reflector.
26688 <i>F 1068</i>	Alguda Reef.	15° 42.3' N 94° 12.0' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s		161 49	13 Black granite tower, white bands; 160.	Visible 260°-175°.
26692 <i>F 1070</i>	Thamihla Kyun (Diamond Island) Bassein River entrance.	15° 52.0' N 94° 16.7' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s		80 24	12 White metal framework tower, red band; 40.	Visible 135°-027°.
26704 <i>F 1067</i>	Gorangyi Kyun.	16° 32.0' N 94° 14.7' E	Fl.W. period 15s		217 66	12 Black wooden framework tower, white bands.	Visible 010°-180°. Radar reflector.
BURMA-BAY OF BENGAL							
26708 <i>F 1065</i>	Lontha (Andrew Bay).	18° 22.1' N 94° 20.3' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s		136 41	12 Black and white checkered tower; 36.	Visible 016°-113° and 144°-160°.
26712 <i>F 1066</i>	Nantha Kyun (Foul Island), W. side.	18° 03.9' N 94° 05.4' E	Q.W.		554 169	7 Black and white checkered tower; 10.	
26716 <i>F 1064.5</i>	Obntapin Kyun (Unguan Island), S. summit of island.	18° 26.2' N 93° 54.2' E	Fl.W. period 12s fl. 1s, ec. 11s		145 44	12 Black and white checkered tower; 16.	
26720 <i>F 1064.3</i>	Ohnchaung.	18° 50.9' N 93° 44.3' E	Fl.W. period 5s		30 9	8 Gray metal framework tower; 24.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
BURMA-BAY OF BENGAL							
26724 <i>F 1064</i>	Mun Aug (Beacon Island), E. summit.	18° 55.9' N 93° 27.1' E	Fl.(3)W. period 20s	122 37	20	Red metal tower, white top; 119.	Visible 334°-273°.
26728 <i>F 1061</i>	Thanta (North Terrible Rock).	19° 26.6' N 93° 18.2' E	Fl.W. period 8s fl. 0.8s, ec. 7.2s	54 16	7	Black metal framework tower, white bands; 45.	
26732 <i>F 1062</i>	Paungnetkyi (Laws Island), W. side.	19° 26.6' N 93° 36.1' E	Fl.(4)W. period 5s	109 33	7	Red metal framework tower, white top; 39.	Visible 084°-110°.
26736 <i>F 1060.5</i>	Wetkyun (James I).	19° 31.6' N 93° 31.9' E	Fl.W. period 5s	24 7	8	Square metal framework tower.	
SITTE (AKYAB) HARBOR:							
26744 <i>F 1059</i>	-Sittwe.	20° 06.9' N 92° 53.8' E	Fl.W. period 10s fl. 1s, ec. 9s	90 27	20	White metal framework tower; 88.	Visible 293°-096°.
26748 <i>F 1058</i>	Oyster Island.	20° 11.9' N 92° 32.4' E	Oc.W.R. period 15s lt. 10s, ec. 5s	130 40	17	Black metal tower, white bands; 141.	R. 310°-325°, W.-310°.
BANGLADESH							
26752 <i>F 1057</i>	St. Martins Island.	20° 37.9' N 92° 19.2' E	Fl.W. period 37s	128 39	20	Framework tower, red and white rectangular daymark.	
	RACON		M(- -)				(3 & 10cm).
26756 <i>F 1056.4</i>	Cox's Bazar.	21° 25.9' N 91° 58.4' E	Fl.W. period 15s fl. 0.7s, ec. 14.3s	177 54	21	Framework tower, orange dome; 23.	
	RACON		C(- • - •)				(3 & 10cm).
26760 <i>F 1054</i>	Kutubdia Island.	21° 51.9' N 91° 50.6' E	Fl.(3)W. period 10s	128 39	20	Metal framework tower, red and white rectangular daymark.	
	RACON		K(- • -)		18		(3 & 10cm).
CHITTAGONG, KARNAPHULI RIVER:							
26764 <i>F 1048</i>	-Normans Point.	22° 10.8' N 91° 49.2' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	39 12	17	Red and white framework tower.	Visible 019°-130°. Storm signals.
	-RACON		T(-)				
26772 <i>F 1050</i>	-AVIATION LIGHT.	22° 15.5' N 91° 49.6' E	Al.FI.W.G. period 10s W. fl. 1s, ec. 4s G. fl. 1s, ec. 4s				
26776 <i>F 1050.4</i>	-Outer Bar Range, front.	22° 13.9' N 91° 48.3' E	Q.R.	46 14		Red and white beacon, circular daymark.	
26780 <i>F 1050.41</i>	--Rear, 350 meters 037°06' from front.	22° 14.0' N 91° 48.4' E	Q.R.	66 20		Red and white beacon, diamond daymark.	
26784 <i>F 1051</i>	-Inner Bar Range, front.	22° 14.8' N 91° 50.2' E	Q.W.	62 19		Red and white beacon.	
26788 <i>F 1051.1</i>	--Rear, 390 meters 054°11' from front.	22° 14.9' N 91° 50.4' E	Q.W.	118 36		Red and white beacon.	
26792 <i>F 1049</i>	-Patenga.	22° 13.6' N 91° 48.0' E	Fl.R. period 10s fl. 0.3s, ec. 9.7s	66 20	13	White metal framework tower, black bands; 79.	
26804 <i>F 1052</i>	-Gupta Crossing Range, front.	22° 15.8' N 91° 50.4' E	Q.W.	30 9		Red and white beacon, cross in circlular daymark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
BANGLADESH							
26808 F 1052.1	--Rear, 150 meters 024°48' from front.	22° 15.9' N 91° 50.4' E	Q.W.		59 18	Red and white beacon, white triangular daymark point up.	
26812 F 1053	-Active Spit Range, front.	22° 15.4' N 91° 50.3' E	Q.W.		36 11	Red and white beacon.	
26816 F 1053.1	--Rear, 140 meters 155°45' from front.	22° 15.3' N 91° 50.3' E	Q.W.		59 18	Red and white beacon.	
26820 F 1053.4	-Gupta Crossing Range, front.	22° 15.8' N 91° 50.4' E	Q.W.		33 10	Red and white beacon.	
26824 F 1053.41	--Rear, 190 meters 114°18' from front.	22° 15.7' N 91° 50.5' E	Q.W.		66 20	Red and white beacon.	
26826 F 1053.8	-Custom mark, front.	22° 19.6' N 91° 49.8' E	F.R.		69 21		
26826.1 F 1053.81	--Rear, 750 meters 051°42' from front.	22° 19.7' N 91° 50.0' E	F.R.		92 28	Dome.	
PURSUR RIVER:							
26828	-Mongla Fairway Buoy.	21° 26.9' N 89° 34.4' E	L.FI.W. period 10s			SAFE WATER RW, pillar, topmark.	Radar reflector.
26838	-Buoy B18.	21° 46.6' N 89° 30.0' E	FI.R. period 10s			PORT (A) R, can, topmark.	
26840 F 1045.5	-Hiran Point.	21° 47.8' N 89° 28.4' E	FI.(2)W. period 20s		115 35	16 Gray metal framework tower, triangular daymark point up.	
INDIA-BAY OF BENGAL							
HUGLI RIVER:							
26842 F 1018	-EASTERN CHANNEL LIGHTSHIP.	21° 04.2' N 88° 11.1' E	FI.W. period 15s		12	Red hull.	
			O(---)				
26846 F 1023	-INTERMEDIATE LIGHTSHIP.	21° 10.7' N 88° 12.7' E	FI.(2)W. period 10s			Red hull.	
26847 F 1024.5	-TALENT LIGHTSHIP.	21° 17.5' N 88° 11.2' E	FI.(2)W. period 10s			Red hull.	
26852 F 1024	-LOWER GASPER LIGHTSHIP.	21° 22.1' N 88° 10.0' E	FI.W. period 8s	49 15	8	Red hull.	Q.W. riding light.
26860 F 1028	-Sagar Island.	21° 39.5' N 88° 02.8' E	FI.W. period 3s fl. 0.3s, ec. 2.7s	84 26	17	Red round tower, white bands; 79.	Visible 315°-180°. AIS (MMSI No 004194446). Signal station.
26861 F 1029	-Dariapur.	21° 47.5' N 87° 51.8' E	FI.(2)W. period 20s fl. 1.4s, ec. 1.9s fl. 1.4s, ec. 15.3s	98 30	19	White round concrete tower, black bands; 85.	
			G(---•)				
26862 F 1031.45	-Sandia Column.	21° 58.9' N 88° 02.0' E	FI.W. period 10s	56 17	6	Round masonry tower.	
26863 F 1031.46	-Inner Column.	21° 58.4' N 88° 01.4' E	FI.W. period 15s	59 18	6	Round masonry tower.	
26865 F 1032.7	-Haldia channel, S.	22° 00.1' N 88° 02.9' E	FI.W. period 10s			Framework tower.	
26868 F 1034	-Nayachara, outer column.	22° 01.3' N 88° 08.4' E	FI.W. period 10s	45 14			

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-BAY OF BENGAL							
26869 F 1034.5	--Inner column.	22° 01.1' N 88° 08.0' E	Fl.W. period 1.5s	60	18		
26892 F 1035	-Diamond Harbor, near customhouse.	22° 11.0' N 88° 11.4' E	Fl.W.R. period 2s				W. 327°-115°, R.-125°.
26900 F 1006	False Point.	20° 19.9' N 86° 44.4' E	Fl.(2)W. period 20s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 14.8s	125	38	27 White round masonry tower, red bands; 125.	Visible 205°-045°.
PARADIP:							
26908 F 1005.2	-S. breakwater, head.	20° 15.5' N 86° 40.8' E	Fl.R. period 5s	33	10	7 Red metal column, white bands; 26.	
26912 F 1005.4	-N. breakwater, head.	20° 15.8' N 86° 40.8' E	Fl.G. period 5s	26	8	7 Green metal column, white bands; 26.	
26916 F 1005.6	-Entrance Range, front.	20° 16.1' N 86° 40.1' E	Fl.W. period 2s	98	30	6 Black and white bands.	Channel limits marked by lights in line.
26918 F 1005.605	--Middle, 740 meters 300°18' from front.	20° 16.3' N 86° 39.7' E	Fl.W. period 5s	148	45	8 Black and white bands.	
26920 F 1005.61	--Rear, 1.026 miles 300°18' from front.	20° 16.6' N 86° 39.0' E	Iso.W. period 10s	197	60	12 Black and white bands.	
26921 F 1005.611	-Starboard Range, front.	20° 16.1' N 86° 40.2' E	Fl.G. period 2s	66	20	6 Green and white bands.	Marks starboard side of the channel.
26921.5 F 1005.612	--Rear, 345 meters 300°18' from front.	20° 16.2' N 86° 40.0' E	Fl.G. period 10s	98	30	6 Green and white bands.	
26922 F 1005.613	-Port Range, front.	20° 16.0' N 86° 40.2' E	Fl.R. period 2s	66	20	6 Red and white bands.	Marks port side of channel.
26922.5 F 1005.614	--Rear, 395 meters 300°18' from front.	20° 16.1' N 86° 40.0' E	Fl.R. period 10s	98	30	6 Red and white bands.	
26924 F 1005.8	-Inner harbor, turning circle Range front.	20° 16.7' N 86° 40.1' E	Fl.W. period 2s	164	50	8 Gray metal framework tower; 164.	Channel limits marked by lights in line, 2 F.G. on NE. side, Fl.R. 3s and F.R. on SW. side.
26928 F 1005.81	--Rear, 200 meters 332°42' from front.	20° 16.8' N 86° 40.0' E	Fl.W. period 5s	197	60	8 Gray metal framework tower; 197.	
26932 F 1005.9	-W. side of turning circle.	20° 16.2' N 86° 40.1' E	Fl.G. period 2s	49	15	6 White concrete tower, black stripes.	
26936 F 1005.92	-W. side of turning circle, inner.	20° 16.3' N 86° 40.0' E	Fl.(9)R. period 15s	49	15	6 Gray mast, building.	
26937 F 1004.4	Paradip.	20° 15.3' N 86° 39.4' E	Fl.(3)W. period 30s	131	40	28 White round masonry tower, black bands.	AIS (MMSI No 004194444).
RACON			K(- • -)				
26940 F 1003	Chandrabhaga.	19° 52.0' N 86° 06.5' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	122	37	26 White round masonry tower, red bands; 98.	AIS (MMSI No 004194443).
26944 F 1002	Puri.	19° 47.3' N 85° 48.3' E	Fl.(3)W. period 20s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	95	29	10 Black tower, white bands; 82.	AIS (MMSI No 004194442).
26946 F 1000	Pryagi.	19° 28.0' N 85° 10.0' E	Fl.(2)W. period 10s	131	40	19 White round tower, red bands; 105.	
26948 F 0988	Gopalpur.	19° 15.4' N 84° 54.5' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	148	45	26 White round masonry tower, red bands; 105.	AIS (MMSI No 004194441).
RACON			S(•••)				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-BAY OF BENGAL							
26951 <i>F 0985</i>	Baruva.	18° 52.1' N 84° 35.1' E	Fl.W. period 15s	98 30	20	White tower, black bands.	AIS (MMSI No 004194440).
26956 <i>F 0982</i>	Kalingapatnam.	18° 20.4' N 84° 07.3' E	Fl.(3)W. period 15s	115 35	25	Hexagonal masonry tower; 101.	AIS (MMSI No 004194439).
26960 <i>F 0980</i>	Santapilli.	18° 04.0' N 83° 38.2' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	138 42	23	White round masonry tower, black bands; 72.	AIS (MMSI No 004194438).
26964 <i>F 0978</i>	Bhimunipatnam, near port office.	17° 53.4' N 83° 27.4' E	Fl.W. period 9s fl. 0.3s, ec. 8.7s	35 11	8	White round masonry tower; 75.	Storm signals.
VISHAKHAPATNAM:							
26972 <i>F 0970</i>	-Dolphins Nose.	17° 40.6' N 83° 17.5' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	567 173	32	White square tower, black bands; 62.	AIS (MMSI No 004194437).
-RACON			O(- - -)				
26976 <i>F 0971</i>	-AVIATION LIGHT.	17° 43.3' N 83° 13.4' E	Al.W.G. period 4s	39 12	W. 27 G. 23	Tower.	Occasional.
26980 <i>F 0974.4</i>	-Sector.	17° 41.2' N 83° 17.6' E	Dir.W.R.G.	95 29	7		F.R. 248°42'-250°42', F.W.- 252°42', Al.FI.W.G.- 259°42', F.G.-267°42', F.W.-271°42', F.R.- 273°42'.
26988 <i>F 0973.12</i>	-Fishing Harbour, front.	17° 41.7' N 83° 18.2' E	Fl.R. period 1.5s	43 13			
26992 <i>F 0973.14</i>	--Rear, 129 meters 234°30' from front.	17° 41.7' N 83° 18.1' E	Oc.R. period 3s	56 17			
26996 <i>F 0973.02</i>	-N. breakwater, S. head.	17° 41.9' N 83° 18.3' E	Oc.W.R.G. period 3s	29 9	6		W. 265°30'-099°30', R.- 237°30', G.-265°30'.
27000 <i>F 0973.04</i>	-E. breakwater, N. head.	17° 41.8' N 83° 18.5' E	Fl.(2)R. period 10s	29 9	3		
27004 <i>F 0973.06</i>	--S. head.	17° 41.3' N 83° 18.4' E	Fl.(3)G. period 10s	34 10	5		
27010 <i>F 0969.2</i>	Gangavaram Entrance Range, front.	17° 37.5' N 83° 13.8' E	Q.W.		12	White four-sided framework tower, red bands; 46.	
27010.5 <i>F 0969.21</i>	-Rear, 550 meters 267° from front.	17° 37.5' N 83° 13.5' E	Q.W.		12	White four-sided framework tower, red bands; 95.	
27012 <i>F 0968</i>	Pudimadaka.	17° 29.3' N 83° 00.2' E	Fl.(2)W. period 15s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 10.8s	115 35	27	White square masonry tower, red bands; 85.	
27016 <i>F 0966</i>	Pentakota.	17° 17.9' N 82° 37.1' E	Fl.W. period 15s fl. 1.5s, ec. 13.5s	59 18	15	White square masonry tower, black bands; 59.	AIS (MMSI No 004194436).
27020 <i>F 0964</i>	Vakalapudi.	17° 00.9' N 82° 17.0' E	Fl.(3)W. period 15s	148 45	22	White round concrete tower, red bands; 148.	AIS (MMSI No 004194435).
RACON			G(- - •)				
KAKINADA BAY:							
27024 <i>F 0960</i>	-Sand Spit.	16° 59.4' N 82° 19.6' E	Fl.W. period 15s	23 7			
27026 <i>F 0962.5</i>	-W. jetty.	16° 58.9' N 82° 17.1' E	Fl.R.G. period 5s	20 6	4		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-BAY OF BENGAL							
27027 F 0962.4	-Terminal, N. point.	16° 58.6' N 82° 17.0' E	Fl.Y.		7 2		
27028 F 0962	-Canal, N. training wall.	16° 57.1' N 82° 16.6' E	Fl.(2)W. period 10s		26 8	9 White metal framework tower, black bands; 7.	
27032 F 0958	Sacramento.	16° 35.1' N 82° 16.6' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s		140 43	24 Masonry tower; 148.	Visible 225°-045°. AIS (MMSI No 004194434).
27036	<i>Sacramento Shoal Lighted Buoy.</i>	16° 32.0' N 82° 20.0' E	Fl.W. period 4s			Red buoy.	
27040 F 0957	Narasapur.	16° 19.0' N 81° 43.5' E	Fl.(2)W. period 15s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 10.8s		95 29	27 White square masonry tower, red bands; 85.	AIS (MMSI No 004194433).
	RACON		B(- • • •)				
27044 F 0955	Machilipatnam.	16° 14.9' N 81° 14.0' E	Fl.(3)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 14.5s		161 49	26 White round concrete tower, black bands; 164.	AIS (MMSI No 004194432).
27052 F 0953	Nagayalanka.	15° 47.1' N 80° 59.2' E	Fl.W. period 15s fl. 1.2s, ec. 13.8s		112 34	24 White square masonry tower, red stripes; 121.	AIS (MMSI No 004194431).
27054 F 0952.8	Nizampatam.	15° 53.0' N 80° 38.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s		118 36	23 White round tower, red bands; 102.	
27055 F 0952.9	Vedarevu.	15° 47.7' N 80° 24.7' E	Fl.(2)W. period 15s fl. 0.6s, ec. 1.9s fl. 0.6s, ec. 11.9s		112 34	25 White round concrete tower, black bands; 98.	AIS (MMSI No 004194429).
27056 F 0952.5	Ramayapatnam.	15° 03.0' N 80° 02.9' E	Fl.W. period 10s		115 35	26 White hexagonal concrete tower, red bands; 121.	AIS (MMSI No 004194430).
	RACON		K(- • -)				(3 & 10cm).
27057 F 0952.3	Iskapalle.	14° 44.1' N 80° 05.9' E	Fl.(2)W. period 10s		112 34	15 White round concrete tower, red stripes; 98.	
27060 F 0952	Krishnapatnam.	14° 17.1' N 80° 08.3' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s		112 34	18 White hexagonal concrete tower, black bands; 98.	AIS (MMSI No 004194428).
	RACON		C(- • - •)				
27064 F 0951	Armagon Shoal.	13° 53.7' N 80° 12.3' E	Fl.W. period 15s fl. 0.4s, ec. 14.6s		108 33	26 White round concrete tower, red bands; 121.	AIS (MMSI No 004194427).
27068 F 0950	Pulicat.	13° 25.3' N 80° 19.6' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s		174 53	26 White hexagonal concrete tower, black bands; 164.	AIS (MMSI No 004194426).
	RACON		B(- • • •)				
MADRAS HARBOR:							
27071 F 0947	Ennur, N. breakwater, head.	13° 15.3' N 80° 21.2' E	Fl.G. period 6s		36 11	8	
	RACON		K(- • -)				
27072 F 0936	-Madras.	13° 02.4' N 80° 16.8' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s		187 57	28 White triangular tower, red bands; 151.	AIS (MMSI No 004194425).
	-RACON		K(- • -)				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-BAY OF BENGAL							
27076 F 0940	-N. arm, outer head.	13° 06.1' N 80° 18.3' E	Fl.R. period 8s	33	6	White round stone tower, red stripes; 16.	
27078 F 0941	-E. breakwater.	13° 06.3' N 80° 18.2' E	Fl.(3)G. period 8s				
27080 F 0942	-Dufferiu, outer arm, head.	13° 06.4' N 80° 18.6' E	Fl.(2)R. period 6s	43	14		
27084 F 0944	-W. side of entrance, breakwater, head.	13° 05.9' N 80° 18.1' E	Fl.G. period 2s	25	1	Square concrete column.	2 F.R. on radio tower 1.26 km. W., Fl.R. and 3 F.R. on T.V. tower 4.12 km. SW.
27096 F 0943	-E. side of entrance.	13° 05.9' N 80° 18.2' E	Fl.R. period 2s	25	1	Square concrete column.	
27100 F 0935	AVIATION LIGHT 17.4 kilometers 229° from Madras Light.	12° 59.1' N 80° 10.0' E	Al.W.G. period 7.5s		W. 20 G. 15	Control tower.	Occasional.
27104 F 0934	AVIATION LIGHT 18.9 kilometers 226° from Madras Light.	12° 58.3' N 80° 09.6' E	Fl.R. period 1.9s	555	169		
27108 F 0932	Mahabalipuram.	12° 36.9' N 80° 11.5' E	Fl.W. period 10s fl. 0.4s, ec. 9.6s	137	30	Round masonry tower; 85.	AIS (MMSI No 004194424).
27110 F 0929	Alam Parai Fort.	12° 16.5' N 80° 00.7' E	Fl.(3)W. period 20s fl. 2s, ec. 3s fl. 2s, ec. 3s fl. 2s, ec. 8s	118	20	White masonry tower, red bands; 98.	
27112 F 0926	Pondicherry.	11° 55.0' N 79° 49.9' E	Fl.(2)W. period 15s fl. 0.5s, ec. 3.2s fl. 0.5s, ec. 10.8s	157	26	White hexagonal tower, black bands; 151.	AIS (MMSI No 004194423).
	RACON		D(- • •)				
27120 F 0920	Cuddalore.	11° 42.4' N 79° 46.6' E	Fl.W. period 5s	59	12	White round concrete tower.	
27126 F 0919.1	-Marine terminal.	11° 38.4' N 79° 46.3' E	Fl.(3)W. period 10s				
	-RACON		C(- • - •)				
27132 F 0919	Porto Novo.	11° 30.3' N 79° 46.3' E	Fl.W. period 15s fl. 0.4s, ec. 14.6s	118	26	White round concrete tower, red bands; 121.	AIS (MMSI No 004194422).
	RACON		B(- • • •)				
27134 F 0918	Pumpukar.	11° 08.6' N 79° 51.4' E	Fl.(4)W. period 15s	108	20	Tower; 98.	
27136 F 0916	Karikal, 201 meters from mouth of Arselar.	10° 55.0' N 79° 51.2' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	59	13	White round concrete tower; 56.	
27138 F 0915.1	-Chemplast pier, N. head.	10° 50.9' N 79° 51.8' E	Fl.G. period 4s		3	White round tower, green bands.	
27138.1 F 0915	--S. head.	10° 50.9' N 79° 51.8' E	Fl.R. period 4s		3	White round tower, red bands.	
27139 F 0914.531	Karaikal Port, N. breakwater.	10° 50.5' N 79° 51.4' E	Fl.(2)G. period 5s	30	5	Concrete structure; 10.	
27139.1 F 0914.53	-S. breakwater.	10° 50.2' N 79° 51.4' E	Fl.(2)R. period 5s	30	5	Concrete structure; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-BAY OF BENGAL							
27140 <i>F 0914</i>	Nagappattinam.	10° 46.0' N 79° 50.9' E	Fl.(2)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 17s	158 48	26	White round masonry tower, black bands; 163.	AIS (MMSI No 004194421). Radiobeacon.
	RACON		G(- - •)				
27144 <i>F 0910</i>	Calimere Point.	10° 17.5' N 79° 52.1' E	Fl.(3)W. period 10s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 6.1s	44 13	15	White round masonry tower; 52.	
	RACON		K(- • -) period 95s		20		Azimuth coverage 175°-100°. (3cm).
27145 <i>F 0902</i>	Kodikkarai.	10° 16.9' N 79° 49.5' E	Fl.W. period 10s	148 45	20	White round masonry tower, red bands; 147.	AIS (MMSI No 004194420).
27148 <i>F 0901.9</i>	Mallipattinam.	10° 16.3' N 79° 18.8' E	Fl.W. period 5s	157 48	22	Tower; 148.	
27150 <i>F 0901.7</i>	Ammappattinam.	10° 00.8' N 79° 13.7' E	Fl.(2)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	161 49	19	Black round concrete tower, white bands; 148.	AIS (MMSI No 004194419).
27151 <i>F 0901.5</i>	Pasipattanan.	9° 48.3' N 79° 04.6' E	Fl.(3)W. period 10s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 6.1s	161 49	19	White round tower, red bands; 148.	
27152 <i>F 0901</i>	-Mandapam Range front.	9° 16.6' N 79° 08.8' E	F.R.	39 12		Beacon.	
27156 <i>F 0901.1</i>	--Rear, 350 meters 338° from front.	9° 16.8' N 79° 08.8' E	F.R.	53 16		Beacon.	
27160 <i>F 0904</i>	-N. approach to Mandapam Range, front.	9° 17.0' N 79° 09.6' E	Q.W.				Occasional.
27164 <i>F 0904.1</i>	--Rear, 124 meters 206° from front.	9° 16.9' N 79° 09.7' E	Q.W.				Occasional.
27167 <i>F 0906</i>	-Rameswaram.	9° 19.1' N 79° 19.8' E	Fl.(2)W. period 20s fl. 0.8s, ec. 2s fl. 0.8s, ec. 16.4s	54 16	13	White square concrete tower, red diagonal stripes; 49.	
27168 <i>F 0900</i>	-Pamban Channel.	9° 17.3' N 79° 13.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	94 29	9	White masonry tower, black bands; 66.	AIS (MMSI No 004194418). Storm signal.
27172 <i>F 0738</i>	Kilakkarai.	9° 13.5' N 78° 46.8' E	Fl.W. period 15s	115 35	19	White hexagonal concrete tower, red bands; 98.	AIS (MMSI No 004194417).
27176 <i>F 0734</i>	Pandiyan Tivu.	8° 47.1' N 78° 11.8' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	157 48	28	White round concrete tower, black stripes; 75.	AIS (MMSI No 004194416). Storm signal.
	RACON		O(- - -)				
27180 <i>F 0736</i>	--Tuticorin Range, front.	8° 48.1' N 78° 09.6' E	Q.W.	30 9	9	Metal framework tower.	
27184 <i>F 0736.1</i>	--Rear, 259 meters 277°30' from front.	8° 48.1' N 78° 09.5' E	Q.W.	44 13		Metal framework tower.	
27188 <i>F 0735.5</i>	-N. breakwater, head.	8° 44.9' N 78° 13.7' E	L.Fl.W. period 5s	29 9	10		
27189 <i>F 0735.6</i>	--Spur.	8° 45.0' N 78° 13.6' E	Q.G.				
27189.1 <i>F 0735.7</i>	-E. breakwater, head.	8° 44.9' N 78° 13.5' E	Q.R.				
27192 <i>F 0735</i>	-Tuticorin Harbor Range, front.	8° 45.4' N 78° 13.1' E	Q.W.	66 20	8	White framework tower, red bands.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-BAY OF BENGAL							
27196 F 0735.1	--Rear, 1.47 miles 311°30' from front.	8° 46.3' N 78° 12.0' E	Oc.W. period 10s	194 59	12	White metal framework tower, black bands.	
27200 F 0730	Manappad Point.	8° 22.3' N 78° 03.8' E	Fl.(2)W. period 10s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 8.1s	148 45	23	White round masonry tower, red diagonal stripes.	Visible 115°-070°. AIS (MMSI No 004194415).
	RACON		G(- - •)				
SRI LANKA (CEYLON)							
27204 F 0876	Delft Island, NE. side.	9° 31.7' N 79° 43.1' E	F.W.	25 8	5	Metal beacon.	Fishing light.
27208 F 0875	Fort Hammenhiel.	9° 42.7' N 79° 50.9' E	Fl.R. period 5s	35 11	11		
27212 F 0874	Kovilan Point, NW. point of Karaitivu Island.	9° 45.7' N 79° 51.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	100 30	11	White masonry tower; 97.	
27216 F 0877	Punkudutivu.	9° 34.2' N 79° 51.3' E	Fl.W. period 5s	35 11	11	Stone building.	
27220 F 0878	Jaffna, Jaffnapatam Channel.	9° 37.7' N 80° 02.1' E	Fl.(3)W. period 15s	20 6	13	White concrete tower.	
27228 F 0870	Point Pedro.	9° 49.6' N 80° 15.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	102 31	10	White masonry tower; 105.	Visible 090°-330°. A F.R. light of low power is shown from end of customhouse pier.
27232 F 0866	Mullaittivu, near mouth of Vattuvakalaru.	9° 16.3' N 80° 49.2' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	67 20	10	Metal framework tower; 65.	
27236 F 0864.2	Pulmoddai, pier.	8° 56.7' N 81° 00.1' E	Fl.R.	20 6	5		F.W. shown N. and S. of pier, on shore.
TRINCOMALEE:							
27244 F 0852	-Round Island, summit.	8° 30.8' N 81° 13.6' E	Fl.(3)W.R. period 15s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 0.8s fl. 0.5s, ec. 12s	103 31	10	White round tower; 69.	R. 090°-165°, W.-170°, R.- 226°, W.-247°, R.-020°.
27252 F 0862	-Back Bay, NW. corner of customhouse.	8° 34.7' N 81° 14.1' E	F.R.	27 8		Mast.	Only shown during SW. monsoon. F.R. lights are shown from beacon on head of jetty at No. 1 oiling berth and from the roof of the building about 500 yards south westward.
27256 F 0857	-Pepperpot Pier.	8° 33.7' N 81° 14.0' E	F.G.				
27260 F 0846	Batticaloa.	7° 45.3' N 81° 41.2' E	Fl.W. period 3s	89 27	10	White tower; 93.	
27264 F 0844	Sangamankanda Point.	7° 01.7' N 81° 52.7' E	Fl.W. period 5s		10	White concrete tower, brown base.	
27268 F 0842	Little Basses Reef.	6° 24.5' N 81° 43.8' E	V.Q.(2)W. period 10s	110 34	27	White granite tower, black band, cupola, two galleries; 125.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SRI LANKA (CEYLON)							
27272 F 0840	Great Basses Reef.	6° 10.9' N 81° 28.8' E	Fl.W. period 15s fl. 0.4s, ec. 14.6s	110 34	25	White granite tower, conical roof, two galleries 66 feet apart; 125.	
	RACON		O(---)				
27276 F 0836	Dondra Head.	5° 55.3' N 80° 35.6' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	153 47	28	White octagonal tower; 160.	Obscured by Nilawelli Point when bearing less than 253°. Reserve light range 18M.
	RACON		C(- • - •)		20		(3 & 10cm).
27282 F 0832	Koggala Lake.	5° 59.6' N 80° 20.1' E	2 F.R. (vert.)		12		
27284 F 0830	Point De Galle.	6° 01.5' N 80° 13.2' E	Fl.(2)W. period 15s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 11.7s	93 28	25	White round tower; 87.	Signal station (by day). F.R. range lights shown from head of No. 1 pier.
	RACON		G(- - •)				(3 & 10cm).
27288 F 0826	Barberyn.	6° 27.8' N 79° 58.1' E	Fl.W. period 20s fl. 0.5s, ec. 19.5s	150 46	27	White round tower; 111.	
27292 F 0824	Ratmalana AVIATION LIGHT.	6° 49.3' N 79° 53.2' E	Al.FI.W.G.	73 22		Control tower.	Occasional. Aero Radiobeacon 0.5 mile S.
27296 F 0820	Mount Lavinia, front.	6° 50.6' N 79° 51.8' E	F.R.	30 9		White concrete beacon; 20.	Fishing light.
27300 F 0820.1	-Rear, 55 meters 099° from front.	6° 50.6' N 79° 51.8' E	F.R.	35 11		Coconut tree.	Fishing light.
COLUMBO HARBOR:							
27303 F 0783	-W. breakwater, head.	6° 57.9' N 79° 49.9' E	Fl.G. period 6s	66 20	5	Green metal column, white bands.	
27303.3 F 0784	-E. breakwater, head.	6° 57.6' N 79° 50.3' E	Fl.R. period 6s	66 20	5	Red metal column, white bands.	
27304 F 0785	-SW. breakwater, head.	6° 57.4' N 79° 50.7' E	Oc.G. period 5s	56 17	13	Concrete tower; 62.	
27308 F 0787	--Spur.	6° 57.2' N 79° 50.7' E	Q.G.	26 8	5	Metal column.	Visible 161°-015°.
27312 F 0786	--Elbow.	6° 57.2' N 79° 50.7' E	Fl.G. period 3s	50 15	5		Visible 155°-270°. Pilot signal station.
27316 F 0788	-NW. breakwater, S. head.	6° 57.3' N 79° 50.8' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	42 13	10	Round stone tower; 39.	
27318 F 0789	--Center.	6° 57.4' N 79° 50.9' E	Dir.W.R.G.		W. 7 R. 5 G. 5		F.G. 132°-134°42', F.W.- 137°24', F.R.-140°06'.
27320 F 0790	--N. head.	6° 57.7' N 79° 51.1' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	42 13	10	Round stone tower; 36.	
27324 F 0791	-NE. breakwater, head.	6° 57.7' N 79° 51.2' E	F.R.	44 13	10	Concrete tower; 33.	F.R. lights on flour mill 370 meters E.
27328 F 0795	-N. pier.	6° 57.5' N 79° 51.2' E	F.R.	7 2	1	Pedestal.	
27332 F 0804	-Colombo.	6° 56.2' N 79° 50.4' E	Fl.(3)W. period 10s	85 26	25	Black and white checkered round stone tower; 49.	Visible 349°-189°.
27336 F 0793	-Fishery Harbor, mole, head.	6° 57.9' N 79° 51.6' E	F.R.		5	Metal column.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SRI LANKA (CEYLON)							
27340 <i>F 0805</i>	-New customhouse.	6° 56.2' N 79° 50.7' E	F.G.	50 15	3	White mast.	
27344 <i>F 0800</i>	-Marine railway, guide jetty, head.	6° 56.4' N 79° 50.9' E	F.W.	17 5			
27364 <i>F 0884</i>	Mannar Island, W. extremity.	9° 06.5' N 79° 43.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	55 17	10	White concrete tower; 64.	Visible 090°-270°.
27368 <i>F 0886</i>	Talaimannar, N. pier, outer head.	9° 06.6' N 79° 43.8' E	Oc.W. period 10s lt. 7s, ec. 3s	25 8	5	Metal column; 20.	Shown when pier is in use.
INDIA-WEST COAST							
27372 <i>F 0764.4</i>	Raatushi.	5° 38.9' N 73° 17.4' E	Fl.(2)W. period 20s	50 15	10	Gray framework tower, black rectangular daymark; 39.	
27376 <i>F 0764</i>	Wa-Faru.	5° 38.5' N 72° 50.5' E	Fl.W. period 10s	50 15	10	Gray framework tower, black rectangular daymark; 39.	
27380 <i>F 0764.2</i>	Bodutaru.	5° 31.8' N 72° 48.0' E	Fl.(2)W. period 10s	50 15	10	Gray framework tower, black rectangular daymark; 39.	
27384 <i>F 0764.6</i>	Kanifushi.	5° 21.9' N 73° 20.2' E	Fl.(2)W. period 10s	50 15	10	Gray framework tower, black rectangular daymark; 39.	
27388 <i>F 0764.8</i>	Veligili.	5° 03.8' N 72° 50.5' E	Fl.(2)W. period 20s	50 15	10	Gray framework tower, black rectangular daymark; 39.	
27392 <i>F 0764.85</i>	Karidu.	4° 57.5' N 73° 28.4' E	Fl.W. period 5s	50 15	12	Gray framework tower, black rectangular daymark.	
27394 <i>F 0762.9</i>	Turakuna.	7° 06.5' N 72° 53.5' E	Fl.W. period 5s	49 15	10		
27396 <i>F 0763.15</i>	-Warifuri, No 16.	6° 56.0' N 73° 08.9' E	Fl.W. period 6s	16 5	7	Gray framework tower; 16.	
27400 <i>F 0763.2</i>	-Tiladummati, No 13.	6° 35.8' N 72° 52.5' E	Fl.W. period 6s	16 5	7	Gray framework tower, concrete base; 16.	
27402 <i>F 0763.4</i>	Makunudu Atoll.	6° 24.6' N 72° 42.6' E	Fl.W. period 10s	49 15	10		
27404 <i>F 0763.6</i>	-Miladummadulu, No 12.	6° 10.5' N 72° 59.6' E	Fl.W. period 6s	16 5	7	Gray framework tower, concrete base; 16.	
MALDIVE ISLANDS:							
27408 <i>F 0764.9</i>	-Male Island, No 1.	4° 35.9' N 73° 29.9' E	Fl.Y. period 6s	16 5	7	Gray framework tower, concrete base; 16.	
27411 <i>F 0765.1</i>	-Hulule, S. breakwater, N. head.	4° 11.5' N 73° 31.5' E	Fl.G. period 6s				R. lights on radio masts 300 meters E. Al.Fl.W.G. 6s on control tower 500 meters ESE.
27411.1 <i>F 0765.11</i>	--Middle.	4° 11.2' N 73° 31.5' E	Fl.G. period 4s		3	Green beacon.	
27411.2 <i>F 0765.13</i>	Funadhoo.	4° 11.0' N 73° 31.1' E	Fl.R. period 4s		3	Red beacon.	
27412 <i>F 0765</i>	-Male Island, each side of 4 entrances through breakwater.	4° 10.8' N 73° 30.7' E	Fl.R.				Fl.R. and Fl.G. mark either side of entrances.
27412.1 <i>F 0765.12</i>	Airport, S. end.	4° 10.6' N 73° 31.6' E	Fl.G. period 4s		3	Green beacon.	
27414 <i>F 0765.2</i>	-Ari Atoll, Gongehe.	4° 13.1' N 72° 45.3' E	Fl.W. period 5s	49 15	10		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
27415 F 0765.4	--Mandu.	3° 35.9' N 72° 43.0' E	Fl.(2)W. period 10s	49 15	10		
27416 F 0765.5	-Felidhu.	3° 40.9' N 73° 25.1' E	Fl.(2)W. period 10s	50 15	10	Gray framework tower, black rectangular daymark; 39.	
27420 F 0765.6	-Felidu, No 2.	3° 30.7' N 73° 17.1' E	Fl.W. period 6s	16 5	7	Gray framework tower; 16.	
27424 F 0765.65	-Foteo.	3° 27.7' N 73° 45.5' E	Fl.(2)W. period 10s	50 15	10	Gray framework tower, black rectangular daymark; 39.	
27428 F 0765.8	-Furana.	3° 16.8' N 72° 59.6' E	Fl.W. period 6s	15 5	7	Gray framework tower; 16.	
27432 F 0766	-Maavaru.	3° 05.3' N 72° 50.5' E	Fl.(2)W. period 20s	50 15	10	Gray framework tower, black rectangular daymark; 39.	
27436 F 0766.6	-Raimandu.	3° 05.4' N 73° 38.3' E	Fl.W. period 10s	50 15	10	Gray framework tower, black rectangular daymark; 39.	
27440 F 0766.2	-Meedhu.	3° 00.1' N 73° 00.5' E	Fl.W. period 6s	15 5	7	Gray framework tower; 16.	
27444 F 0766.65	-Delufuri.	2° 45.8' N 73° 25.3' E	Fl.(2)W. period 10s	50 15	10	Gray framework tower, black rectangular daymark; 39.	
27448 F 0766.4	-Kudahavadhoo.	2° 40.1' N 72° 52.3' E	Fl.(2)W. period 10s	50 15	10	Gray framework tower, black rectangular daymark; 39.	
27452 F 0766.8	-Wiiifuri.	2° 30.7' N 73° 18.6' E	Fl.W. period 5s	50 15	10	Gray framework tower, black rectangular daymark; 39.	
27456 F 0767	-Guradu.	2° 19.2' N 73° 19.0' E	Fl.W. period 6s	15 5	7	Gray framework tower; 16.	
27460 F 0767.2	-Waduni.	2° 01.3' N 73° 21.4' E	Fl.W. period 6s	16 5	7	Gray framework tower; 16.	
27464 F 0767.05	-Isdu.	2° 07.9' N 73° 35.2' E	Fl.(2)W. period 10s	49 15	10	Gray framework tower, black rectangular daymark; 39.	
27466 F 0767.6	-Suvadiva Atoll, Kudalafari.	0° 53.9' N 73° 21.2' E	Fl.W. period 5s	49 15	10		
27467 Q 0813.2	-Addu Atoll, Bushy Islet.	0° 36.7' S 73° 08.9' E	Fl.(2)W. period 10s	16 5	7	Framework tower, concrete base.	
27468 F 0758	Minicoy Island.	8° 16.0' N 73° 01.6' E	Fl.W. period 15s fl. 0.7s, ec. 14.3s	153 47	26	White round masonry tower; 157.	Obscured by foliage 223°-226° within 6 miles, 238°-246° within 4 miles and 270°-273° within 2 miles. Storm signal.
	RACON		G(— — •) period 93s		18		Azimuth coverage 192°-150°. (3cm).
27470 F 0758.1	-E. side.	8° 17.2' N 73° 03.9' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	72 22	12	White masonry tower, blue bands; 72.	
27472 F 0724	Muttum Point.	8° 07.3' N 77° 19.0' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	141 43	23	White hexagonal masonry tower, black bands; 66.	Visible 285°-115°.
	RACON		M(— —)				
27476 F 0720	Kolachel, base of flagstaff.	8° 10.3' N 77° 14.9' E	F.R.	59 18	7	White platform.	Visible 286°-107°. Occasional.
27480 F 0722	-663 meters 094° from flagstaff.	8° 10.3' N 77° 15.2' E	F.W.	30 9	5	Wooden platform, white masonry column, black bands; 16.	Shown Sep. 14 to May 15.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
27484 F 0726	Cape Comorin.	8° 04.8' N 77° 32.7' E	Fl.(2)W. period 20s fl. 0.7s, ec. 3.3s fl. 0.7s, ec. 15.3s	207 63	29	White square masonry tower, red bands; 98.	AIS (MMSI No 004192248).
	RACON		C(- • - •)				
27488 F 0727	-Kanniya Kumari.	8° 04.8' N 77° 32.8' E	F.W.	162 49		Concrete tower; 33.	Fishing light.
27492 F 0718	Vilinjani.	8° 23.0' N 76° 58.8' E	Fl.W. period 15s fl. 0.5s, ec. 14.5s	186 57	31	White round masonry tower, red bands; 118.	AIS (MMSI No 004192247).
	RACON		O(- - -)				
27496 F 0717	Trivandrum AVIATION LIGHT.	8° 28.7' N 76° 55.0' E	Al.W.G. period 4s	50 15	20	Tower.	F.R. lights on radio masts 4.7 miles ENE. and 3.8 miles NNW. Occasional.
27502 F 0715	Anjengo.	8° 40.4' N 76° 45.3' E	Fl.(2)W. period 20s	125 38	19	White round concrete tower, black bands; 118.	
27504 F 0712	Quilan.	8° 52.8' N 76° 33.9' E	Fl.(3)W. period 15s fl. 0.1s, ec. 3.7s fl. 0.1s, ec. 3.7s fl. 0.1s, ec. 7.3s	138 42	18	White round masonry tower, red diagonal stripes; 135.	AIS (MMSI No 004192246).
27512 F 0710	Kovilthottam.	8° 59.1' N 76° 31.5' E	Fl.W. period 5s	64 20	15	White square masonry tower, black bands; 62.	Signal station.
27516 F 0706	Alleppey.	9° 29.6' N 76° 19.3' E	Fl.W. period 15s fl. 0.8s, ec. 14.2s	108 33	25	White round masonry tower, red bands; 93.	F.R. shown from monsoon anchorage at Pathiankara, 17 miles S. of Alleppey, from about June 15 to Sept. 16; position varies in accordance with shifting of mud banks. AIS (MMSI No 004192245).
27517 F 0706.5	Tottapalli.	9° 19.2' N 76° 22.8' E	Fl.(2)W. period 10s	49 15	15	White galvanized trestle tower; 49.	
27520 F 0705	Manakkodam.	9° 44.9' N 76° 17.2' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	112 34	20	White square concrete tower; 112.	
	COCHIN:						
27528 F 0698	-Cochin.	9° 59.9' N 76° 13.3' E	Fl.(4)W. period 20s fl. 0.4s, ec. 2.9s fl. 0.4s, ec. 2.9s fl. 0.4s, ec. 2.9s fl. 0.4s, ec. 9.7s	161 49	28	White round concrete tower, red bands; 151.	AIS (MMSI No 004192244).
	-RACON		K(- • -)				
27540 F 0700	-Range, front, 498 meters 258°36' from common rear.	9° 58.5' N 76° 15.9' E	Q.W.	52 16	11	White metal framework tower, red bands.	
27544 F 0703	-Ernakulam Channel Range, front, 468 meters 141°06' from common rear.	9° 58.3' N 76° 16.3' E	Q.W.	22 7	11	White metal framework tower, red bands.	
27548 F 0700.1	--Common Rear.	9° 58.5' N 76° 16.1' E	2 Iso.W. period 4s	85 26 39 12	11	White metal framework tower, red bands.	
27552 F 0702	-Range, front.	9° 58.0' N 76° 16.7' E	Q.W.	30 9	11	White metal framework tower, red bands.	
27556 F 0702.1	--Rear, 360 meters 107°30' from front.	9° 58.0' N 76° 16.9' E	Iso.W. period 4s	49 15	11	White metal framework tower, red bands.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
27560 <i>F 0694.5</i>	Periyar River.	10° 12.2' N 76° 09.5' E	Fl.(3)W. period 20s	98	24	White square concrete tower, black bands; 112.	
	RACON		D(- • •)				
27564 <i>F 0693</i>	Chetwai.	10° 33.1' N 76° 01.1' E	Fl.(2)W. period 20s fl. 0.4s, ec. 2.9s fl. 0.4s, ec. 16.3s	108	18	White round concrete tower, red bands; 98.	
27572 <i>F 0752</i>	Kiltan Island, N. end.	11° 29.6' N 73° 00.1' E	Fl.(2)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	33	11	White square brick masonry tower; 30.	Visible 344°-267°.
27574 <i>F 0752.5</i>	-NW. reef.	11° 29.5' N 72° 59.8' E	Fl.G. period 3s	10	7	White lattice pillar beacon, green bands.	
27576 <i>F 0754</i>	--S. end.	11° 28.2' N 73° 00.6' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	134	18	White round stone tower, red bands; 135.	
	--RACON		O(- - -)				
27580 <i>F 0750</i>	-Bitra.	11° 35.7' N 72° 11.5' E	Fl.(2)W. period 10s	108	9	White metal framework tower, red bands; 98.	
27588 <i>F 0749</i>	-Chetlat Island.	11° 41.7' N 72° 43.0' E	Fl.(3)W. period 30s	118	8	White framework tower, black band; 98.	Radiobeacon.
27592 <i>F 0754.2</i>	-Kadmat Island.	11° 15.2' N 72° 47.4' E	Fl.(4)W. period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 15s	112	8	White framework tower; 98.	
	-RACON		G(- - •)				
27596 <i>F 0754.4</i>	-Amini Island.	11° 06.7' N 72° 43.3' E	Fl.W. period 15s fl. 0.5s, ec. 14.5s	108	11	Black metal framework tower, white bands; 98.	
27598 <i>F 0754.6</i>	Thinnakara Islet.	10° 56.6' N 72° 19.0' E	Fl.W. period 5s	39	9	Beacon.	
27600 <i>F 0754.7</i>	-Agatti Island, N. end.	10° 52.5' N 72° 12.4' E	Fl.(3)W. period 30s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 21s	115	10	White framework tower; 98.	
	-RACON		B(- • • •)				
27604 <i>F 0756</i>	Suheli Par, Cheriyakara Islet.	10° 02.4' N 72° 17.0' E	Fl.(2)W. period 20s	118	19	White metal column, red band; 121.	Visible 207°-199°.
	RACON		O(- - -) period 95s		18		Azimuth coverage 285°-250°. (3cm).
27608 <i>F 0755.6</i>	-Valiyakara Islet.	10° 08.2' N 72° 19.7' E	Fl.W. period 15s	43	6	White wooden framework tower; 39.	Visible 000°-325°.
27612 <i>F 0757</i>	-Kalpeni.	10° 05.0' N 73° 39.0' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3.4s fl. 0.5s, ec. 3.4s fl. 0.5s, ec. 11.7s	144	18	White round stone tower, black bands; 131.	Visible 195°-190°.
27616 <i>F 0755</i>	-Androth Island.	10° 48.7' N 73° 42.2' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	144	16	White square masonry tower, black bands; 108.	
	-RACON		D(- • •)				
27620 <i>F 0755.2</i>	--W. end.	10° 48.7' N 73° 39.7' E	Fl.W. period 15s	49	16	White concrete column; 33.	Visible 041°-247°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
27624 F 0755.5	Kavarat Island.	10° 33.6' N 72° 38.8' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	131 40	18	White concrete tower; 125.	
	-RACON		K(- • -)				
27632 F 0692	Ponnani.	10° 46.5' N 75° 55.1' E	Fl.W. period 15s fl. 0.5s, ec. 14.5s	108 33	26	White round concrete tower, black bands; 98.	AIS (MMSI No 004192243).
27636 F 0689	Bey pore.	11° 09.4' N 75° 48.3' E	Fl.(2)W. period 15s	105 32	24	White octagonal masonry tower, red bands; 98.	AIS (MMSI No 004192242). Storm signal.
	RACON		G(- - •)				
	CALICUT:						
27640 F 0686	-Calicut.	11° 15.5' N 75° 46.2' E	Fl.(2)W. period 6s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 4s	56 17	10	White masonry tower; 50.	Storm signals. Night morse signals from sunset to 2400 and 0400 to sunrise.
27652 F 0682	Kadalur Point.	11° 28.1' N 75° 38.2' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	187 57	23	White round masonry tower, black bands; 115.	
27660 F 0678	Mahe, S. side of river entrance.	11° 42.1' N 75° 31.8' E	Fl.(2)W. period 10s	98 30	12	White mast, masonry base; 43.	
27664 F 0674	Tellicherry, fort wall.	11° 44.9' N 75° 29.2' E	Fl.(3)W. period 9s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 5.1s	89 27	10	White masonry tower.	Visible 322°-120°.
27668 F 0672	Cannanore.	11° 51.7' N 75° 21.4' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	115 35	18	White round concrete tower, red bands; 75.	
27672 F 0671	Azhikal.	11° 56.5' N 75° 18.2' E	Fl.(2)W. period 8s	89 27	10		Storm signal.
27676 F 0669.5	Kotte Kunnu.	12° 00.4' N 75° 12.1' E	Fl.(2)W. period 20s	203 62	22	White masonry tower, red bands; 59.	AIS (MMSI No 004192241).
	RACON		K(- • -)				
27680 F 0668.5	Kasaragod.	12° 30.3' N 74° 58.4' E	Fl.(3)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 14.5s	118 36	26	White octagonal concrete tower, black bands; 98.	AIS (MMSI No 004192240). Storm signal.
27684 F 0668	Mangalore, S. part of Marine Yard.	12° 50.9' N 74° 50.3' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	33 10	11	White round masonry tower, black bands; 36.	Visible 018°-153°. Storm signals.
27688 F 0666	-New Mangalore Range, front.	12° 55.8' N 74° 49.3' E	Q.W.	56 17	6	White square concrete tower.	
27692 F 0666.1	--Rear, 630 meters 078°54' from front.	12° 55.8' N 74° 49.6' E	Oc.W. period 10s	89 27	6	Red square concrete tower, white bands.	
27696 F 0664	-Airfield, AVIATION LIGHT.	12° 57.7' N 74° 53.4' E	Al.W.G. period 7.5s	374 114	28	Control tower.	Occasional.
27700 F 0660	Suratakal Point.	13° 00.3' N 74° 47.4' E	Fl.W. period 10s fl. 0.4s, ec. 9.6s	144 44	31	White square masonry tower, red bands; 118.	AIS (MMSI No 004192239).
	RACON		C(- • - •)				
27704 F 0658	Kap.	13° 13.5' N 74° 44.1' E	Fl.(3)W. period 20s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 11.8s	140 43	24	White masonry tower, black bands; 89.	AIS (MMSI No 004192238).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
27708 F 0655	Malpe.	13° 20.7' N 74° 41.0' E	Fl.W. period 3s	94 29	16	White square masonry tower.	
27709 F 0656	-N. breakwater.	13° 20.9' N 74° 41.5' E	Fl.R. period 3s	36 11	3		Shown Sep. 1 to May 31.
27710 F 0657	-S. breakwater.	13° 21.0' N 74° 41.6' E	Fl.G. period 3s	36 11	3		Shown Sep. 1 to May 31.
27712 F 0652	Coondapoor , S. side of river.	13° 37.4' N 74° 40.2' E	Fl.(2)W. period 10s	115 35	18	White round concrete tower, red bands; 105.	
27716 F 0651	-Tippu Sultan Gudda.	13° 39.6' N 74° 39.5' E	Fl.(2)W. period 10s	98 30	18	Concrete tower; 98.	
27724 F 0648	Bhatkal.	13° 57.9' N 74° 32.0' E	Fl.(2)W. period 20s	184 56	27	White square masonry tower on fort; 46. Secondary structure: Metal mast; 6.	Visible 310°-129°, 132°-160°. AIS (MMSI No 004192237). Storm signal.
	Auxiliary light.		F.R.	118 36	17		Visible 319°-012°.
27732 F 0644	Honavar , in hospital compound.	14° 16.6' N 74° 26.4' E	Fl.W. period 15s	135 41	18	Red octagonal tower, white bands; 79.	 AIS (MMSI No 004192236).
27744 F 0638	Tadri , N. side of entrance.	14° 30.9' N 74° 20.5' E	Fl.(3)W. period 20s	124 38	18	White hexagonal stone tower, black bands; 26.	
27748 F 0637	Kukra Island.	14° 42.5' N 74° 14.4' E	Fl.(3)W. period 10s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 5.7s	217 66	9	White tower, black bands.	Shown Sep. 16 to May 15.
KARWAR BAY:							
27752.1 F 0636.2	-Karwar Harbor, Anjadip Island, E. Head.	14° 45.2' N 74° 07.4' E	Fl.R. period 3s	33 10	5		
27752.2 F 0636.5	--Round Island, S. Breakwater.	14° 45.5' N 74° 07.7' E	Fl.G. period 3s	39 12	5	Green beacon.	
27752.3 F 0636.6	--Range, front.	14° 46.5' N 74° 07.5' E	Q.W.	59 18	5	Red and white tower; 33.	
27752.4 F 0636.7	---Rear, 420 meters 000° from front.	14° 46.8' N 74° 07.5' E	Fl.W. period 5s	105 32	5	Red and white tower; 72.	
27752.5 F 0636.8	Kwada Bay, Breakwater.	14° 45.0' N 74° 09.9' E	Fl.R. period 5s	30 9	7	White square masonry tower; 13.	
27752.6 F 0636.9	-Kwada Island.	14° 44.1' N 74° 09.9' E	Fl.G. period 5s	43 13	7	Red square masonry tower; 13.	
27756 F 0634	-Oyster Rocks.	14° 49.2' N 74° 03.6' E	Fl.W. period 10s fl. 0.2s, ec. 9.8s	208 63	26	White round masonry tower, red bands, red cupola; 62.	 AIS (MMSI No 004192235).
	-RACON		D(- • •)				
27758	Betul.	15° 08.7' N 73° 57.5' E	Fl.W. period 15s	289 88	20		
GOA:							
27760 F 0622	-Marmagao , breakwater, N. head.	15° 25.1' N 73° 47.5' E	Fl.W.R.G. period 5s fl. 1.5s, ec. 3.5s	85 26	W. 20 R. 16 G. 16	White concrete tower; 75.	W. 080°-120°, R.-197° 30', W.-304°, G.-080°. Radar reflector.
27764 F 0622.2	-Mole, head.	15° 25.1' N 73° 47.6' E	Fl.W. period 10s fl. 1s, ec. 9s	26 8	10	White masonry tower; 20.	Fl.R. 3s mark mooring dolphins SE.
27764.4 F 0623	-Vasco Bay, W. transit, front.	15° 24.0' N 73° 48.6' E	F.G.	26 8		Beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
27764.41 <i>F 0623.1</i>	--Rear.	15° 24.0' N 73° 48.6' E	F.G.		33 10	Beacon.	
27764.5 <i>F 0623.2</i>	--E. transit, front.	15° 24.0' N 73° 48.6' E	F.R.		26 8	Beacon.	
27764.51 <i>F 0623.3</i>	---Rear.	15° 24.0' N 73° 48.6' E	F.R.		33 10	Beacon.	
27768 <i>F 0628</i>	-St. George Island.	15° 21.2' N 73° 45.8' E	Fl.(4)W.R. period 20s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 13.5s	306 93	W. 9 R. 6	White round concrete tower, black stripes; 52.	R. 185°-225°, W.-185°.
-Aguada Bay:							
27772 <i>F 0606</i>	--Aguada.	15° 29.5' N 73° 46.4' E	Fl.(3)W. period 20s fl. 0.4s, ec. 3.5s fl. 0.4s, ec. 3.5s fl. 0.4s, ec. 11.8s	279 85	27	White rectangular concrete tower; 72.	AIS (MMSI No 004192234).
--RACON							
O(- -)							
27776 <i>F 0607</i>	---SE. of Aguada.	15° 29.4' N 73° 46.4' E	Fl.R. period 3s	86 26	12	White round tower; 39.	Shown Sep. 1 to May 31.
27780 <i>F 0610</i>	--Panaji entrance Range, front.	15° 29.7' N 73° 49.0' E	Fl.W. period 3s	75 23	6	White round masonry tower; 72.	Shown Sep. 1 to May 31.
27784 <i>F 0610.1</i>	---Rear, 1.17 miles 053°54' from front.	15° 30.4' N 73° 50.0' E	Fl.W. period 3s	184 56	8	White concrete tower, white triangular daymark point up, red band; 36.	Shown Sep. 1 to May 31.
27788 <i>F 0613</i>	--Tejo Range, front.	15° 29.3' N 73° 48.6' E	Q.R.	36 11	5	White concrete columns, white round concrete tower, black bands; 30.	Shown Sep. 15 to May 31.
27792 <i>F 0613.1</i>	---Rear, 90 meters 191°18' from front.	15° 29.3' N 73° 48.6' E	F.R.	46 14	8	White pyramidal concrete tower, white square concrete tower, black bands, white triangular daymark point up; 39.	Shown Sep. 15 to May 31.
27796 <i>F 0614</i>	---Raaj-Magus.	15° 30.0' N 73° 48.7' E	Fl.G. period 1.5s	42 13	3	White round tower; 39.	Shown Sep. 15 to May 15.
27800 <i>F 0600</i>	Vengurla.	15° 51.3' N 73° 36.9' E	Fl.R. period 5s fl. 0.3s, ec. 4.7s	269 82	24	White hexagonal masonry tower, black bands; 43.	Storm signals. AIS (MMSI No 004192233).
27804 <i>F 0598</i>	Vengurla Rocks (Burnt Islands).	15° 53.4' N 73° 27.7' E	Fl.(2)W. period 20s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 14.7s	162 49	26	White metal tower, red bands; 66.	Partially obscured by islands in the vicinity.
RACON							
D(- • •)							
MALVAN BAY:							
27808 <i>F 0597</i>	-Sindhudrug Janjira.	16° 02.4' N 73° 27.6' E	Fl.W. period 5s	43 13	5		Shown Sep. 1 to May 31.
27820 <i>F 0596</i>	-On beach, E. side of bay, front.	16° 03.0' N 73° 28.2' E	F.R.	33 10	4	White mast; 13.	Shown Sep. 16 to Jun. 15, weather permitting.
27824 <i>F 0596.1</i>	--Rear, 220 meters 075°32' from front.	16° 03.0' N 73° 28.3' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	59 18	8	White and red checkered metal framework tower; 46.	Shown Sep. 16 to Jun. 15, weather permitting.
27828 <i>F 0590</i>	Devgarh Harbor.	16° 23.3' N 73° 22.3' E	Fl.(4)W. period 23s	138 42	25	White round masonry tower, black bands; 36.	Storm signals. F.R. light close SSW. AIS (MMSI No 004192232).
27832 <i>F 0592</i>	Achra Point.	16° 12.0' N 73° 25.8' E	Fl.(2)W. period 6s	162 49	8	Framework tower; 30.	Shown Sep. 1 to May 31.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
27836 <i>F 0588</i>	Vijayadurg Harbor, NE. corner of fort.	16° 33.7' N 73° 19.9' E	L.F.I.W.R.G. period 9s fl. 2s, ec. 7s	52 16	5	White metal tower, red bands; 20.	G. 270°-045° partially obscured by trees, R.-090°, W.-270°.
27840 <i>F 0586</i>	Rajapur, Wagapur Point.	16° 36.3' N 73° 19.3' E	Fl.W. period 15s fl. 0.4s, ec. 14.6s	150 46	29	White square concrete tower, black bands; 66.	Storm signals. AIS (MMSI No 004192231).
27844 <i>F 0587</i>	Musargagi Point.	16° 37.2' N 73° 20.0' E	Fl.(2)W. period 7.5s	114 35	8	Framework tower; 30.	Shown Sep. 1 to May 31.
27850 <i>F 0583</i>	Pawas Point.	16° 53.6' N 73° 16.7' E	Fl.(2)W. period 15s	36 11	4	White metal structure, red bands.	
27856 <i>F 0580</i>	Ratnagiri.	16° 59.3' N 73° 16.4' E	Fl.(2)W. period 10s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 7.6s	336 102	28	White round concrete tower, black bands; 49. Secondary structure: Concrete pedestal.	Visible 256°-166°. Storm signals. AIS (MMSI No 004192230).
	Auxiliary light.		F.R.	285 87	9		Visible 303°-357°.
	RACON		G(- - •)				
27864 <i>F 0579</i>	Warori Bluff.	17° 11.7' N 73° 14.3' E	Fl.W. period 10s	165 50	8	Framework tower; 30.	Shown Sep. 1 to May 31.
27868 <i>F 0578</i>	Jaigarh.	17° 17.9' N 73° 11.4' E	Fl.(4)W. period 20s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 11.4s	133 41	24	Red metal tower, white bands; 69.	Visible 303°30'-242°30'. Storm signals.
27880 <i>F 0577</i>	Boria Bay.	17° 23.1' N 73° 11.4' E	Fl.R. period 5s	123 37	6	Framework tower; 30.	Shown Sep. 1 to May 31.
27884 <i>F 0576</i>	Palshet.	17° 26.6' N 73° 11.3' E	Fl.(2)W. period 6s	192 59	8	Framework tower; 30.	Obscured when bearing more than 141°. Shown Sep. 1 to May 31.
27886	Kathalwadi Platform.	17° 32.0' N 73° 04.8' E	Fl.Y.				Gong: Mo.(U) 15s.
PORT DABHOL:							
27888 <i>F 0566</i>	-Tolkeshwar Point.	17° 34.0' N 73° 08.5' E	Fl.(3)W. period 15s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 8.6s	342 104	21	White square masonry tower; 45.	 AIS (MMSI No 004192229).
27892 <i>F 0570</i>	-Fort Anjanwel, N. point front.	17° 34.3' N 73° 09.3' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	30 9	5	Concrete post, triangular daymark point up; 10.	Shown Sep. 1 to Jun. 30.
27896 <i>F 0570.1</i>	--Yeldur Hill, rear, 1335 meters 081° from front.	17° 34.4' N 73° 10.0' E	Q.R.	98 30	8	White metal tower; 13.	Shown Sep. 1 to Jun. 30.
27904 <i>F 0564</i>	Harnai (Herni) Promontory.	17° 48.6' N 73° 05.3' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	95 29	8	White masonry tower; 33.	Visible 280°-154°. Storm signals.
27908 <i>F 0562</i>	Nanwell Point.	18° 16.8' N 72° 56.2' E	Fl.(3)W. period 15s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 9.7s	217 66	18	White octagonal masonry tower, red bands; 62.	 AIS (MMSI No 004192228).
	Auxiliary Light.		F.R.	174 53	4		Visible 057°-075°.
27912 <i>F 0563</i>	Srivardhan Bay.	18° 03.1' N 72° 59.7' E	Q.(4)W. period 5s	152 46	8	Framework tower; 30.	Shown Sep. 1 to May 31.
27916 <i>F 0559</i>	Janjira, on Bandar Hill.	18° 18.9' N 72° 57.6' E	Fl.(2)W. period 15s	261 80	8	Framework tower; 30.	Shown Sep. 1 to May 31.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
27924 F 0557.6	Chaul Kadu Reefs.	18° 35.8' N 72° 50.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	55 17	4	White round masonry tower; 56.	
27928 F 0558	Chaul.	18° 32.3' N 72° 54.4' E	Fl.W. period 3s fl. 1s, ec. 2s	108 33	13	White square masonry tower, black bands; 52.	AIS (MMSI No 004192227).
	RACON		O(---)				
27932 F 0557	Alibag, Kolaba Fort.	18° 38.1' N 72° 51.9' E	F.W.G.	32 10	5		Shown Sep. 1 to May 31. G. 340°-070°, W.-145°. Storm signals. Fishing light.
27936 F 0556	Khanderi Island.	18° 42.2' N 72° 48.8' E	Fl.(2)W.R. period 10s fl. 0.3s, ec. 2.6s fl. 0.3s, ec. 6.8s	154 47	W. 25 R. 22	Octagonal tower, building; 98.	R. 336°-001°, W.-201°.
27940 F 0556.5	-Landing Place Range, front.	18° 42.3' N 72° 48.9' E	F.R.	52 16			Occasional.
27944 F 0556.51	--Rear, 168° from front.	18° 42.2' N 72° 49.9' E	F.R.	62 19			Occasional.
	BOMBAY:						
27952 F 0514	-Prongs Reef.	18° 52.7' N 72° 48.0' E	Fl.W. period 10s	135 41	23	Round tower, red, white and black bands; 171.	Visible 232°-171°.
	RACON		G(---•)				
27956 F 0516	-Sunk Rock.	18° 53.4' N 72° 50.0' E	Fl.(2)W.R. period 6s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 4s	65 20	W. 13 R. 7	Red and yellow checkered round tower; 92.	W. 186°-209°, R.-015°, W.- 031°, R.-069°.
27960 F 0515	-Gull Island.	18° 50.1' N 72° 53.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	85 26	7	Aluminum framework tower; 66.	
27968 F 0520	-Dolphin Rock.	18° 54.9' N 72° 50.2' E	Fl.(4)W.R. period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 15s	36 11	W. 11 R. 5	Gray masonry tower; white cupola; 59.	R. 147°-236°, W.-270°, R.- 000°.
27972 F 0521	-Naval Dockyard, S. breakwater, head.	18° 55.6' N 72° 50.7' E	Fl.R. period 3s	49 15	5	Mast, building; 43.	
27976 F 0523	-Breakwater pier, E. head.	18° 55.7' N 72° 50.4' E	F.R.	27 8	5	Metal column; 16.	
27984 F 0528	-Indira Dock Range, front.	18° 56.0' N 72° 50.6' E	F.R.	26 8	7	Framework structure, white double ball topmark, black border.	
27988 F 0528.1	--Rear, 120 meters 305° from front.	18° 56.1' N 72° 50.5' E	2 F.R. (vert.)	39 12	7	Mast, white double ball topmark, black border.	
27992 F 0532	-N. Channel.	18° 57.1' N 72° 51.1' E	Oc.R. period 5s lt. 3s, ec. 2s	19 6	8	White beacon, red bands; 26.	Visible 070°-320°.
27996 F 0534	-Victoria Dock.	18° 57.1' N 72° 50.8' E	F.R.		6	Framework tower.	Occasional.
28004 F 0546	-Tucker.	18° 56.1' N 72° 52.5' E	Oc.W.R. period 5s lt. 3s, ec. 2s	70 21	13	White framework tower, red masonry beacon, black and white bands.	W. 007°30'-036°30', R.- 007°30'.
28008 F 0547	-Elephanta Island Range, front.	18° 57.4' N 72° 55.7' E	Q.W.	39 12			
28012 F 0547.1	--Rear, 150 meters 055° from front.	18° 57.6' N 72° 56.0' E	Q.W.	72 22			

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
28014 <i>F 0552.3</i>	-Sheva Island Range, front.	18° 56.7' N 72° 56.3' E	Q.R.	177 54	20		
28014.5 <i>F 0552.31</i>	--Rear, 1.1 miles 084° from front.	18° 56.8' N 72° 57.5' E	Iso.R. period 6s	217 66	20		
28016 <i>F 0548</i>	-Uran Range, front.	18° 56.2' N 72° 54.2' E	Q.W.	22 7		Black metal framework beacon.	Visible 043°-003°.
28020 <i>F 0548.1</i>	--Rear, 0.5 mile 202°42' from front.	18° 55.7' N 72° 54.0' E	Q.W.	39 12	5	Black round beacon.	Visible 077°-000°.
28024 <i>F 0549</i>	-Butcher.	18° 56.9' N 72° 54.3' E	Fl.(4)W.R. period 10s	30 9		Beacon.	R. 055°-206°, W.-055°.
28040 <i>F 0551</i>	-Pir Pau Bulk Oil Pier.	18° 59.5' N 72° 54.6' E	Fl.R.	15 5			A Fl.R. 5M light is shown from center of pier when oil vessels are discharging. A Fl.R. 1M light is shown at W. end of pier.
28044 <i>F 0502</i>	Uarashi.	19° 04.5' N 72° 48.6' E	Fl.R. period 10s fl. 1s, ec. 9s	33 10	5	Beacon; 33.	Shown Oct. 1 to May 31. Two Fl. R. 5s 8m 4M lights on dolphins 1.9 miles SSW. Two Fl. R. 5s 8m 4M lights on dolphins 4.5 miles SSW.
28048 <i>F 0501</i>	Santa Cruz AVIATION LIGHT.	19° 05.5' N 72° 52.0' E	Al.FI.W.G. period 4s	82 25	W. 27 G. 25	Control tower.	
28052 <i>F 0500</i>	Vesava.	19° 08.8' N 72° 48.2' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	45 14	5	White mast; 49.	Visible 003°-040°. Storm signals.
28056 <i>F 0498</i>	Bassein, on rocks 366 meters from pier.	19° 19.5' N 72° 49.2' E	Q.R.	16 5	2	Metal post, masonry base.	
28060 <i>F 0499</i>	Utan.	19° 16.7' N 72° 46.8' E	Fl.(2)W. period 15s fl. 0.2s, ec. 3.5s fl. 0.2s, ec. 11.1s	175 53	24	White square masonry tower, red bands; 49.	Storm signals. AIS (MMSI No 004192226).
28064 <i>F 0496</i>	Donghri Point, S. side of entrance to Bassein Creek.	19° 18.6' N 72° 47.6' E	F.G.	46 14	6	Metal column; 7.	Visible 095°-240°. Shown Sep. 16 to Jun. 15.
28068 <i>F 0494</i>	Arnala, on mainland, near Arnala custom house.	19° 27.4' N 72° 44.9' E	Fl.(3)W.R. period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 11.5s	60 18	8	White metal framework tower; 49.	R. 048°-091°, W.-098°, W. 100°-114°. Storm signals.
28072 <i>F 0493</i>	Kelve (Kelwa) Mahim.	19° 36.1' N 72° 44.2' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	43 13	3	White mast; 49.	Visible 058°-152°. Storm signals.
28076 <i>F 0492</i>	Satpati.	19° 43.3' N 72° 42.2' E	Fl.(2)W. period 20s	98 30	20	RCC tower; 98.	Storm signals.
28080 <i>F 0491.8</i>	Nowapur.	19° 47.4' N 72° 41.4' E	F.W.	35 11	6	Mast.	Storm signals.
28084 <i>F 0491.5</i>	Tarapur.	19° 50.8' N 72° 39.4' E	Fl.(3)W. period 30s fl. 0.4s, ec. 5.6s fl. 0.4s, ec. 5.6s fl. 0.4s, ec. 17.6s	82 25	23	White square masonry tower, black bands; 75.	Storm signals. AIS (MMSI No 004192225).
			Fl.R.	33 10	9		
28088 <i>F 0491</i>	Dahanv.	19° 58.6' N 72° 43.0' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	43 13	10	White metal framework tower; 39.	Storm signals.
28092 <i>F 0489</i>	Umbargaon.	20° 11.8' N 72° 44.9' E	Fl.W. period 15s fl. 1.3s, ec. 13.7s	115 35	19	White concrete tower, red bands; 98.	Storm signals. AIS (MMSI No 004192224).
	RACON		M(- -)				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
28096 <i>F 0488</i>	Maroli.	20° 17.9' N 72° 46.6' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	40 12	5	White metal framework tower; 36.	Shown Sep. 16 to Jun. 15.
PORT DAMAN:							
28100 <i>F 0484</i>	-Rio Sandalcalo.	20° 24.6' N 72° 49.9' E	Fl.W. period 10s	115 35	21	White round concrete tower, black bands; 102.	Storm signals. A F.R. light is located 0.2 mile northward on N. side of river.
28108 <i>F 0480</i>	Bulsar Khari, S. side of entrance to Auranga River.	20° 37.8' N 72° 53.2' E	Fl.(4)W. period 20s	105 32	14	White metal trestle; 98.	
28112 <i>F 0479</i>	Kanai Creek.	20° 48.7' N 72° 49.7' E	Fl.(2)W. period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 16s	111 34	17	White round concrete tower, black bands; 98.	AIS (MMSI No 004192223).
28116 <i>F 0478</i>	Warsi Borsi.	20° 56.1' N 72° 45.6' E	Fl.W. period 7s	118 36	17	White square concrete tower, red bands; 112.	
GULF OF KHAMBHAT:							
28120 <i>F 0476</i>	-Hazira.	21° 05.5' N 72° 38.5' E	Fl.(3)W. period 15s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 9.6s	128 39	24	White round masonry tower; 82.	AIS (MMSI No 004192222).
-RACON							
			K(- • -)				
28122 <i>F 9307</i>	-Sutherland Channel, Reliance SPM.	21° 09.0' N 72° 34.4' E	Mo.(U)W. period 15s			Superbuoy.	Horn: Mo.(U) 30s.
-RACON							
			U(• • -)				
28124 <i>F 0472</i>	-Dandi Point, entrance to Bhagwa Creek.	21° 18.8' N 72° 36.8' E	L.Fl.W. period 10s fl. 2s, ec. 8s	82 25	10	Metal framework tower; 85.	Visible 355°-180°.
28128 <i>F 0470</i>	-Luhara Point, N. side of Narbada River entrance.	21° 39.6' N 72° 32.9' E	Fl.W. period 15s	92 28	11	White metal tower, red spiral; 79.	AIS (MMSI No 004192221).
-RACON							
			D(- • •)				
28128.5 <i>F 0469.95</i>	-Luhara Production Platform, TB1.	21° 39.7' N 72° 30.8' E	Fl.Y. period 4s		10		
28129 <i>F 0469.9</i>	--TB2.	21° 39.9' N 72° 30.8' E	Fl.Y. period 4s		10		
28129.5 <i>F 0469.8</i>	--Petronet LNG, S. jetty, S. head.	21° 40.0' N 72° 30.6' E	Fl.Y. period 4s				
28129.55 <i>F 0469.7</i>	---N. head.	21° 40.2' N 72° 30.6' E	Fl.Y. period 4s				
28130 <i>F 0469.5</i>	--GCPTCL terminal control light.	21° 41.5' N 72° 30.6' E	Fl.R. period 5s	115 35	10	Control tower.	
28132 <i>F 0468</i>	-Devjagan, N. bank of Dhadar River entrance.	21° 55.0' N 72° 33.0' E	F.W.	30 9	10	Stone column; 43.	Visible 294°-181°. Shown Sep. to Jun.
-Bhavnagar:							
28156 <i>F 0456</i>	--Ruvapari, W. side of channel.	21° 46.8' N 72° 14.0' E	Fl.W. period 12s fl. 0.5s, ec. 11.5s	65 20	10	Gray hut, piles.	
28160 <i>F 0455</i>	--Bhavnagar New Port Range, front.	21° 45.5' N 72° 13.6' E	FR.				
28164 <i>F 0455.1</i>	---Rear, 1020 meters 251°07' from front.	21° 45.4' N 72° 13.1' E	F.W.				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
28168 F 0455.6	--Bhaunagar New Port.	21° 45.0' N 72° 14.0' E	Fl.R. period 8s fl. 0.5s, ec. 7.5s	66 20	8	White metal framework tower.	
28176 F 0452	-Ghogha Bandar, S. side of entrance.	21° 41.5' N 72° 16.7' E	Oc.R. period 15s lt. 11s, ec. 4s	59 18	10	White square masonry tower, red bands; 52.	
28180 F 0448	-Piram Island.	21° 35.9' N 72° 21.1' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	150 46	27	White round masonry tower, black bands; 89.	AIS (MMSI No 004192220).
	-RACON		B(- • • •)				
28184 F 0449	<i>Perigee light vessel.</i>	21° 42.1' N 72° 18.3' E	Fl.W. period 7s	39 12	8	Red hull.	Q.W. riding light. Bell. Radar reflector.
28188 F 0446	-Alang.	21° 24.2' N 72° 11.0' E	Fl.W. period 3s fl. 0.4s, ec. 2.6s	128 39	14	White hexagonal masonry tower, black bands; 79.	
	-RACON		C(- • - •)				
28192 F 0444	-Gopnath Point.	21° 12.2' N 72° 06.5' E	Fl.(3)W. period 20s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 11.7s	135 41	18	Red and white square masonry tower; 112.	AIS (MMSI No 004192219).
	-RACON		G(- - •)				
28196 F 0442	-Jhanjmer.	21° 10.8' N 72° 03.7' E	Fl.W. period 10s	148 45	12	White concrete column, hut; 10.	
28200 F 0438	Jegri Island.	21° 02.4' N 71° 48.1' E	Fl.(2)W. period 20s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 15.7s	187 57	27	Black square masonry tower, white bands; 95.	AIS.
28204 F 0436	Savai Bet.	20° 54.2' N 71° 31.6' E	Fl.(4)W. period 30s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 14.7s	144 44	21	White square masonry tower, red bands; 46.	
28208 F 0432	-Jafarabad Harbor.	20° 51.5' N 71° 22.9' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	95 29	24	White round tower, hexagonal masonry tower, square base; 62.	Storm signals. AIS (MMSI No 004192218).
28212 F 0432.2	-Islet E. of harbor.	20° 51.4' N 71° 23.0' E	F.R.	26 8	14	Hut; 10.	Visible 248°-267°.
28216 F 0432.4	-650 meters ENE of harbor.	20° 51.7' N 71° 23.2' E	F.R.	56 17	5	Metal framework tower, concrete platform.	
28232 F 0430.6	Rajpura.	20° 47.6' N 71° 12.3' E	Fl.W. period 5s fl. 1s, ec. 4s	80 24	7	Stone column, hut; 16.	
28236 F 0430	Simar.	20° 46.5' N 71° 09.1' E	Fl.W. period 10s fl. 1s, ec. 9s	112 34	7	Red framework tower, white bands; 98.	
	DIU:						
28244 F 0426	-Nawabandar.	20° 44.4' N 71° 04.9' E	Fl.(4)W. period 12s fl. 0.8s, ec. 1s fl. 0.8s, ec. 1s fl. 0.8s, ec. 1s fl. 0.8s, ec. 5.8s	89 27	16	White round tower; 49.	Storm signal.
28256 F 0422	-Forte do Mar.	20° 43.2' N 70° 59.8' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	56 17	6	White round tower; 23.	Shown Sep. 1 to May 31.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
28260 F 0424	-Couraca.	20° 42.9' N 70° 59.9' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	20 6	6	White four-sided tower; 13.	Shown Sep. 1 to May 31.
28264 F 0420	Cavaleiro.	20° 42.8' N 70° 59.8' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	148 45	20	White round concrete tower, black bands; 49.	Storm signals.
28266 F 0414.2	Vanakbava.	20° 42.5' N 70° 52.7' E	Fl.(3)W. period 10s		12	White concrete structure; 30.	
28268 F 0414	Diu Head.	20° 41.5' N 70° 49.7' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	194 59	32	White hexagonal masonry tower, red bands; 121.	AIS (MMSI No 004192217).
	RACON		D(- • •)				
28270 F 0407	Sutrapada.	20° 50.2' N 70° 28.9' E	Fl.W. period 7s fl. 0.8s, ec. 6.2s	20 6	8	White square masonry tower; 13.	
28272 F 0410	Veraval Roads.	20° 54.7' N 70° 21.2' E	Oc.W. period 15s lt. 10s, ec. 5s	108 33	24	White masonry tower, black bands; 112.	AIS (MMSI No 004192216).
	RACON		K(- • -)				
28276 F 0412	-Bhirria.	20° 53.9' N 70° 23.0' E	Fl.R. period 10s fl. 0.5s, ec. 9.5s	30 9	4	White square masonry tower, black bands; 20.	
28280 F 0406	Mangrol.	21° 06.5' N 70° 06.4' E	Fl.(2)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 17s	118 36	18	White hexagonal concrete tower, red bands; 115.	AIS (MMSI No 004192215).
28282 F 0406.1	-W. breakwater.	21° 06.3' N 70° 06.0' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	43 13	6	Square concrete tower; 13.	
28284 F 0404	Navibandar.	21° 26.9' N 69° 47.0' E	Fl.W. period 10s fl. 1s, ec. 9s	60 18	6		AIS (MMSI No 004192214).
28288 F 0400	Porbandar.	21° 37.4' N 69° 37.0' E	Fl.W. period 5s	154 47	18	White round concrete tower, black bands; 135.	AIS (MMSI No 004192213).
	RACON		D(- • •)				Azimuth coverage 140°- 300°30'.
28290 F 0401	-Breakwater, head.	21° 37.1' N 69° 35.5' E	Fl.W. period 5s		5		
28296 F 0398	Navadra.	21° 57.0' N 69° 14.1' E	Fl.(3)W. period 10s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 5.8s	180 55	18	White round concrete tower, red bands; 115.	AIS (MMSI No 004192212).
28300 F 0396	Dwarka Point.	22° 14.3' N 68° 57.5' E	Fl.(2)W. period 20s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 14.7s	156 48	30	White square stone tower, black bands; 141.	AIS (MMSI No 004192211). Storm signals.
	RACON		G(- - •)		18		Azimuth coverage 273°30'- 225°.
28304 F 0397	Kachchigadh.	22° 19.8' N 68° 56.9' E	Fl.(4)W. period 15s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 8.9s	112 34	18	White round concrete tower, red bands; 98.	
	RACON		K(- • -)		10		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
GULF OF KUTCH:							
28308 <i>F 0390</i>	-Okha Port, Samiani Island.	22° 29.3' N 69° 05.2' E	Fl.W.R. period 5s fl. 1s, ec. 4s	71 22	11	White round stone tower; 66.	W. 057°-217°, R.-247°, W.-260°, R.-290°, W.-009°.
28312 <i>F 0388</i>	-Humani Point.	22° 28.6' N 69° 04.2' E	Fl.(3)W. period 25s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 14.7s	86 26	25	White square masonry tower, red bands; 75.	
	-RACON		O(---)		15		Azimuth coverage 355°30'-311°30'.
28316 <i>F 0389</i>	-Samiani Island, NE. reef, outer end.	22° 29.5' N 69° 05.5' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	39 12	5	White masonry tower, black bands; 33.	
28320 <i>F 0393</i>	-Mithapur, about 10.2 meters SW. of Vomani Point.	22° 24.4' N 69° 00.7' E	F.R.	174 53	10	Building; 164.	
28324	- <i>Ranwara Shoals Lighted Buoy.</i>	22° 42.0' N 69° 21.0' E	Fl.R. period 10s			Red can buoy.	
28328 <i>F 0386.5</i>	-Chanka Reef, NW. end.	22° 32.6' N 69° 16.2' E	Q.W.	49 15	9	White round tower; 39.	
	-RACON		D(-••)				
28332 <i>F 0386</i>	-Chanka Island 1.9 km. NNE. of island.	22° 32.8' N 69° 24.6' E	Fl.W. period 15s fl. 1s, ec. 14s	39 12	11	White four-sided concrete tower, black bands.	
28336 <i>F 0384</i>	-Karumbhar Island.	22° 26.3' N 69° 35.2' E	Fl.(3)W. period 15s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 8.2s	89 27	12	White round stone tower; 66.	
28340 <i>F 0383</i>	-Pathfinder Inlet, No 1.	22° 27.8' N 69° 40.3' E	Fl.(2)R. period 5s	32 10	5	Green framework beacon, white hut, piles.	
28344 <i>F 0383.5</i>	--No 2.	22° 27.6' N 69° 39.8' E	Fl.(2)G. period 5s	32 10	5	Red framework beacon, white hut, piles.	
28347 <i>F 0382.5</i>	-Sikka Range, front.	22° 29.5' N 69° 50.9' E	F.R.		4		
28347.5 <i>F 0382.51</i>	--Rear, 130°30' from front.	22° 29.3' N 69° 51.1' E	F.R.		4		
28352 <i>F 0380</i>	-Pirothan Island.	22° 36.2' N 69° 57.2' E	Fl.W. period 20s fl. 0.4s, ec. 19.6s	85 26	24	White round concrete tower, black bands.	Radar reflector.
	-RACON		K(-•-)				
28356 <i>F 0378</i>	-Beacon, NE. of Pirothan Island.	22° 37.2' N 69° 58.3' E	Fl.R. period 10s fl. 1s, ec. 9s	18 5	5	White pyramidal concrete tower, red bands; 26.	
28358.8 <i>F 0367.2</i>	-Sathsaida Range, front.	22° 57.8' N 70° 16.0' E	Fl.W. period 3s	30 9	8		
28358.81 <i>F 0367.3</i>	--Rear, 889 meters 050°30' from front.	22° 58.1' N 70° 16.4' E	Iso.W. period 3s	46 14	8		
28359 <i>F 0367.6</i>	-Kandla Creek Approach Range, front, 788 meters 215°30' from rear.	22° 58.3' N 70° 15.7' E	Q.R.	26 8	6	White metal framework tower, black bands, triangular daymark point up; 16.	Forms range 035°30' with 28359.5.
28359.3 <i>F 0367.62</i>	--Range, front, 770 meters 217°30' from rear.	22° 58.3' N 70° 15.7' E	Q.W.	26 8	8		In line 037°30' with 28359.5.
28359.5 <i>F 0367.61</i>	---Common rear.	22° 58.7' N 70° 16.0' E	Iso.R. period 1.5s	43 13	7	White framework tower, black bands, white triangular daymark point up; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
28366 <i>F 0367.8</i>	-Mungra Reef.	22° 45.6' N 70° 11.0' E	Fl.(2)W. period 15s	23 7	10	White round concrete tower, red bands; 33.	
28368 <i>F 0368</i>	-Jodiya Bandar.	22° 43.5' N 70° 16.7' E	Fl.W. period 10s fl. 1s, ec. 9s	102 31	11	Framework tower; 98.	
28376 <i>F 0370</i>	-Navlakhi Island, NW. end.	22° 57.7' N 70° 26.6' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	98 30	12	White round concrete tower, red bands; 98.	
	-RACON		B(- • • •)				
28378 <i>F 0365</i>	-Bhadreswar.	22° 54.5' N 69° 54.8' E	Fl.(3)W. period 20s	253 77	16	White masonry tower; 197.	
28380 <i>F 0366</i>	-Tekra.	22° 55.7' N 70° 07.2' E	Fl.W. period 7s fl. 0.3s, ec. 6.7s	55 17	17	Metal column, black masonry tower, white bands; 46.	
28396 <i>F 0362</i>	-Navinar Point.	22° 43.9' N 69° 42.4' E	Fl.(2)W. period 15s fl. 0.3s, ec. 3.5s fl. 0.3s, ec. 10.9s	105 32	19	White structure, black bands; 98. Marine control tower.	
	-RACON		C(- • - •)				
28398 <i>F 0361.8</i>	-Mundra Port, No 1, front.	22° 45.1' N 69° 42.1' E	Q.G.	62 19	10		
28398.5 <i>F 0361.81</i>	--No 2, rear, 306°30' from front.	22° 45.5' N 69° 41.6' E	Oc.G.	112 34	10		
28404 <i>F 0360</i>	-Raval Pir.	22° 48.8' N 69° 23.5' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	52 16	3	White concrete column, white square concrete tower; 23.	
	MANDVI:						
28408 <i>F 0358</i>	-Breakwater, head.	22° 49.0' N 69° 20.9' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	25 8	5	White square concrete column, red top; 23.	
28411 <i>F 0357</i>	-Mandvi.	22° 49.7' N 69° 20.9' E	Fl.(3)W. period 30s fl. 1s, ec. 5s fl. 1s, ec. 5s fl. 1s, ec. 17s	207 63	16	White round concrete tower, red bands; 98.	
	-RACON		G(- - •)				
28416 <i>F 0356</i>	-Chachi.	22° 57.2' N 69° 00.1' E	Fl.(3)W. period 15s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 9.7s	106 32	24	White masonry tower, black bands; 89.	
28420 <i>F 0355</i>	-Jakhau.	23° 14.4' N 68° 36.4' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	150 46	18	White round concrete tower, red bands; 135.	
28420.5 <i>F 0354</i>	Koteswar.	23° 40.4' N 68° 31.6' E	Fl.(2)W. period 15s	197 60	18	White RRC tower, black bands.	

Section 18

Pakistan, Gulf of Oman and Persian Gulf

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PAKISTAN							
28421 <i>D 7850</i>	Kajhar Creek.	23° 48.1' N 68° 02.2' E	Fl.W. period 12s	151 46	25		
28422 <i>D 7800</i>	Turshian.	24° 04.6' N 67° 24.0' E	Fl.(3)W. period 20s	151 46	20		
PORT MUHAMMAD BIN QASIM:							
28424 <i>D 7760</i>	-Khuddi Island.	24° 33.6' N 67° 13.1' E	Fl.(4)W. period 30s	132 40	17	White round concrete tower, black bands.	
28427 <i>D 7760.09</i>	-Ahsan Channel Range, front.	24° 38.0' N 67° 06.3' E	Q.W.	39 12	11	Black metal pipe, platform.	
28428 <i>D 7761</i>	--Rear, 032°26' from front.	24° 39.4' N 67° 07.3' E	Oc.W.	102 31	16	Black metal pipe.	Visible 029°54'-034°54'.
28436 <i>D 7761.5</i>	-Bundal Island, No 4.	24° 41.3' N 67° 08.3' E	Fl.Y. period 4s	33 10	5	Black metal pipe, platform.	
28441 <i>D 7763.1</i>	-Phitti Creek Range, front.	24° 43.6' N 67° 09.0' E	Q.W.	26 8	5	Black metal pipe, platform.	
28441.1 <i>D 7763.11</i>	--Rear, 010°21' from front.	24° 44.0' N 67° 09.1' E	Iso.W. period 4s	66 20	6	Black metal pipe, platform.	
28442 <i>D 7763.5</i>	-Kunni Range, front.	24° 45.6' N 67° 12.2' E	Q.W.	26 8	5	Black metal pipe, platform.	
28442.1 <i>D 7763.51</i>	--Rear, 056°48' from front.	24° 45.9' N 67° 12.8' E	Fl.W. period 4s	66 20	6	Black metal pipe, platform.	
28445 <i>D 7763.9</i>	-Hasan Point, No 7.	24° 46.8' N 67° 14.1' E	Iso.Y. period 4s	33 10	5	Black metal pipe, green top, platform.	
28446 <i>D 7763.91</i>	-No 8A.	24° 47.1' N 67° 14.2' E	F.W.	33 10	1	Black metal pipe, red top, platform.	
KARACHI HARBOR:							
28472 <i>D 7750</i>	-Manora Point.	24° 47.6' N 66° 58.7' E	Fl.W. period 7.5s fl. 0.3s, ec. 7.2s	156 48	26	Red round tower, white bands, black base, white cupola; 125.	Storm signals.
28480 <i>D 7751.1</i>	-Karachi.	24° 47.6' N 66° 59.9' E	Oc.W. period 7s lt. 5s, ec. 2s	66 20	14	Framework tower.	
28492 <i>D 7756</i>	-Pundit AVIATION LIGHT.	24° 52.9' N 66° 56.5' E	Mo.(MA)R. period 6s	46 14	12		
28497 <i>D 7754</i>	-Training wall.	24° 50.0' N 66° 58.0' E	Fl.W. period 10s			White beacon; 16.	
28500 <i>D 7745</i>	Ras Muari.	24° 49.6' N 66° 39.9' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 6.9s	162 49	25	Black concrete tower, white bands; 167.	Visible 277°-138°.
28504 <i>D 7742</i>	Ormara.	25° 11.3' N 64° 41.3' E	Fl.(2)W. period 20s	746 227	19	Gray metal framework tower, white base; 26.	
28508 <i>D 7740</i>	Astola Island.	25° 07.5' N 63° 50.6' E	Fl.W. period 15s	292 89	19		
28512 <i>D 7736</i>	Pasni.	25° 12.4' N 63° 29.7' E	Fl.(3)W. period 30s		17		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PAKISTAN							
28516 <i>D 7734</i>	Gwadar.	25° 06.0' N 62° 20.9' E	Fl.(2)W. period 15s	276 84	19		
28517 <i>D 7734.1</i>	-Mini Port, jetty, head.	25° 06.9' N 62° 20.1' E	Fl.R. period 5s				
28517.5 <i>D 7734.2</i>	-Deep Water Port, E. end.	25° 06.7' N 62° 20.7' E	F.R.				
28518 <i>D 7734.3</i>	-Range, front.	25° 06.9' N 62° 19.8' E	Iso.G. period 2s	105 32	12		
28518.1 <i>D 7734.35</i>	--Rear, 750 meters 270° from front.	25° 06.9' N 62° 19.4' E	Fl.G. period 3s	148 45	12		
28520 <i>D 7731</i>	Jiwani.	25° 01.8' N 61° 48.6' E	Fl.W. period 10s	459 140	19		
28524 <i>D 7730</i>	Jiwani AVIATION LIGHT.	25° 04.2' N 61° 48.2' E	Al.Fl.W.G. period 5s	214 65		Control tower; 30.	
28526 <i>D 7725</i>	-Damagheh-ye Pas Bandar.	25° 03.8' N 61° 25.4' E	Fl.(2)W. period 15s	49 15	12	Framework tower.	
GULF OF OMAN							
IRAN:							
28533 <i>D 7720.2</i>	-Damagheh-ye Chababar, Behashti.	25° 17.2' N 60° 36.6' E	Fl.(3)W. period 10s	125 38	12		
28534 <i>D 7723</i>	--Kalantari.	25° 18.9' N 60° 36.9' E	Fl.(3)G. period 6s	30 9	5		
28540 <i>D 7713</i>	-Jask.	25° 38.2' N 57° 45.9' E	Fl.(2)W. period 15s	105 32	12	Red metal framework tower.	Aeromarine light.
28540.5 <i>D 7714</i>	--Breakwater.	25° 39.1' N 57° 45.9' E	Fl.(3)G. period 10s	23 7	5	Beacon.	
28544 <i>D 7712</i>	-Kuh-e Mubarak.	25° 50.3' N 57° 18.5' E	Fl.W. period 10s	148 45	18	Metal framework tower; 66.	
	-RACON		O(---)				
28548 <i>D 7711</i>	-Bandar-e Sirik.	26° 30.1' N 57° 05.4' E	Fl.(3)W. period 20s	125 38	28	Red round daymark.	Radar reflector.
OMAN:							
28552 <i>D 7335</i>	-Didamar.	26° 28.6' N 56° 32.2' E	Fl.(2)W. period 10s fl. 0.2s, ec. 1.6s fl. 0.2s, ec. 8s	196 60	23	White framework tower; 79.	Light and Racon obscured by As Salamah Island 133°-142°30' and Fanaku Island 156°-160°45'.
	-RACON		Q(---)		25		(3 & 10cm). Obscured by lighthouse 000°-012°.
UNITED ARAB EMIRATES:							
28556 <i>D 7333</i>	-Diba, E. breakwater.	25° 36.9' N 56° 17.8' E	Oc.R. period 2.5s lt. 1.5s, ec. 1s	42 13	9	Post.	
28556.2 <i>D 7334</i>	--W. breakwater.	25° 36.8' N 56° 17.7' E	Fl.G. period 5s fl. 1.2s, ec. 3.8s	30 9	5	Post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GULF OF OMAN							
28556.4 <i>D 7334.4</i>	--Fishing harbor, main breakwater.	25° 37.2' N 56° 16.6' E	Fl.R. period 5s fl. 0.3s, ec. 4.7s	24 7	5	Framework tower; 10.	
28556.6 <i>D 7334.5</i>	---Lee breakwater.	25° 37.1' N 56° 16.5' E	Fl.G. period 5s fl. 0.3s, ec. 4.7s	23 7	5	Framework tower; 10.	
28558 <i>D 7332.3</i>	-Jabal Dadnah.	25° 31.4' N 56° 21.9' E	Q.R.			Red and white framework structure; 121.	
28559 <i>D 7332.36</i>	-Badiyah, breakwater, head.	25° 25.8' N 56° 21.9' E	Fl.(2)R. period 5s	16 5	5		
28559.1 <i>D 7332.367</i>	--Lee breakwater, head.	25° 25.8' N 56° 21.9' E	Fl.(2)G. period 5s	16 5	5		
28560 <i>D 7332</i>	-Lulayyah, E. breakwater.	25° 23.6' N 56° 22.0' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	16 5	5	Post.	
28564 <i>D 7331</i>	-Khawr Fakkan, Container Terminal, N. end.	25° 21.5' N 56° 21.9' E	Q.R.				
28565.5 <i>D 7329.8</i>	-Merbeh.	25° 15.6' N 56° 22.0' E	Iso.R. period 2s	121 37	15	Red and white metal trestle structure.	
28566 <i>D 7330</i>	--Fishing Harbor, breakwater.	25° 16.0' N 56° 22.4' E	Fl.W. period 5s fl. 1s, ec. 4s	16 5	5	Post.	
28566.2 <i>D 7332.45</i>	-Fujayrah Naval Base, breakwater, head.	25° 15.2' N 56° 22.4' E	Fl.(3)G. period 10s		8		
28566.3 <i>D 7332.46</i>	--Lee breakwater, head.	25° 15.3' N 56° 22.3' E	Fl.(3)R. period 10s		8		
28567 <i>D 7329.6</i>	-Vopak ENOC Fujayrah Terminal, S. Berth 2.	25° 12.1' N 56° 22.2' E	2 F.G. (vert.)	59 18	3	Pipe, dolphin; 26.	
28567.2 <i>D 7329.65</i>	--Middle.	25° 12.3' N 56° 22.2' E	F.R.G. (vert.)	59 18	3	Pipe, walkway, pipe support structure, piles.	
28567.4 <i>D 7329.7</i>	--N. Berth 1.	25° 12.4' N 56° 22.2' E	2 F.R. (vert.)	46 14	3	Pipe, dolphin; 26.	
28570 <i>D 7329.1</i>	--AVIATION LIGHT.	25° 11.4' N 56° 20.3' E	2 Fl.W. period 2s	896 273	30	Red and white tower.	
28574 <i>D 7329.5</i>	-Oil Terminal 2.	25° 11.1' N 56° 22.6' E	Fl.R. period 2.5s	39 12	5	White metal column, red bands; 33.	
28576 <i>D 7329.4</i>	-N. breakwater.	25° 10.5' N 56° 22.1' E	Fl.G. period 3s	46 14	8	Green tower, white bands; 13.	
	-RACON		T(-)		16		(3 & 10cm).
28580 <i>D 7329.3</i>	-S. breakwater.	25° 10.6' N 56° 21.9' E	Fl.R. period 3s	46 14	8	Red tower, white bands; 13.	
28584 <i>D 7328</i>	-Gurah, jetty, head.	25° 07.8' N 56° 21.6' E	Fl.R. period 5s	16 5	5		Fl.W. 5s 5m 5M marks inner breakwater.
28584.1 <i>D 7328.1</i>	--W. breakwater.	25° 07.8' N 56° 21.5' E	Fl.G. period 5s	16 5	5		
28586 <i>D 7327</i>	-Kalba, fishing harbor, outer breakwater, head.	25° 04.9' N 56° 21.8' E	Fl.(2)R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	16 5	5		
OMAN:							
28587 <i>D 7326.5</i>	-Shinas.	24° 44.9' N 56° 28.6' E	Fl.R. period 5s	19 6	5	Metal post, red square daymark; 7.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GULF OF OMAN							
28587.5 <i>D 7326.6</i>	--N. breakwater.	24° 44.8' N 56° 28.4' E	Fl.G. period 5s	20 6	3	Metal post, green triangular daymark point up; 3.	
28588	-Sohar, <i>Fairway Buoy</i> .	24° 34.9' N 56° 38.0' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	
	-RACON		Q(- - • -)				
28588.1 <i>D 7326.25</i>	--E. breakwater, 180°.	24° 29.6' N 56° 37.7' E	Dir.W.R.G.	49 15	10	Gray metal framework tower.	F.G. 178° 24'-179° 24', Al.G.W.-179° 42', F.W.- 180°, Al.W.R.-180° 18', F.R.-181° 18'. Range 4M by day.
28588.2 <i>D 7326.34</i>	--Entrance, E. side.	24° 30.7' N 56° 37.9' E	Fl.(2)R. period 4s	33 10	5	Metal post; 10.	
28588.4 <i>D 7326.33</i>	---W. side.	24° 30.6' N 56° 37.6' E	Fl.(2)G. period 4s	33 10	5	Metal post; 10.	Iso.G. 4s and Iso.R. 4s lights mark entrance to Harmool harbor 1.4 miles NW.
28588.6 <i>D 7326</i>	--Majis jetty.	24° 29.2' N 56° 38.7' E	Iso.R. period 4s	16 5	3	White metal post; 7.	
	SOHAR:						
28588.8 <i>D 7326.28</i>	-Vale Terminal, head.	24° 31.8' N 56° 37.5' E	Iso.W. period 4s	30 9	9	Metal post; 10.	
28588.81 <i>D 7326.282</i>	--No 3.	24° 31.6' N 56° 37.1' E	Fl.(2+1)Y. period 6s	30 9	3	Metal post; 3.	
28588.82 <i>D 7326.283</i>	--No 2.	24° 31.5' N 56° 37.0' E	Fl.Y. period 5s	23 7	3	Metal post; 3.	
28588.84 <i>D 7326.325</i>	-Berth 14.	24° 31.1' N 56° 36.4' E	Mo.(N)Y. period 8s	16 5	4	Gray metal post, yellow "X" topmark; 7.	
28588.85 <i>D 7325.95</i>	--East breakwater.	24° 22.9' N 56° 44.6' E	Fl.R. period 5s	20 6	5	Metal post; 10.	
28589 <i>D 7325.9</i>	--AVIATION LIGHT.	24° 19.1' N 56° 42.9' E	Fl.W. period 3s fl. 1s, ec. 2s	361 110	25	Mast; 197.	
			4 F.R. (vert.)				15 meters apart.
28589.5 <i>D 7325.8</i>	-Saham.	24° 09.2' N 56° 54.6' E	Fl.(3)W. period 12s	26 8	5	White post, green stripes; 10.	
28589.8 <i>D 7325.74</i>	-Al Khaburah, fishing harbor, entrance.	23° 58.3' N 57° 07.5' E	Fl.(2)G. period 5s	16 5	3	Metal post; 10.	Surrounding breakwater marked by 3 W. lights and 1 G. light.
28589.9 <i>D 7325.26</i>	-As Suwayq, fishing harbor, W. breakwater, head.	23° 51.4' N 57° 26.6' E	L.Fl.G. period 6s	23 7	5	Gray metal post, green triangular daymark point up.	L.Fl.R. 6s marks E. breakwater.
28590 <i>D 7324.4</i>	-Wudam, Said bin Sultan Naval Base, N. breakwater, head.	23° 49.9' N 57° 32.1' E	Iso.W. period 4s	33 10	7	Gray metal mast; 13.	Fl.G. and Fl.R. beacons mark entrance channel.
28590.2 <i>D 7324.5</i>	--Directional Light 204°.	23° 49.1' N 57° 32.2' E	Dir.W.R.G. period 2s	43 13	5	Black pile, black diamond daymark.	Iso.G. 202°54'-204°06', Iso.W.-205°24', Iso.R.- 208°. Range 3M by day.
28590.4 <i>D 7325.2</i>	--270°.	23° 49.8' N 57° 31.5' E	Dir.W.R.G. period 2s	43 13	4	Black pile, white diamond daymark.	Iso.G. 267°30'-268°48', Iso.W.-270°48', Iso.R.- 271°42'.
28591 <i>D 7324.835</i>	-Wudam, breakwater, head.	23° 48.5' N 57° 34.3' E	Fl.(3)W. period 10s	13 4	5	Gray metal post; 7.	
28592 <i>D 7324</i>	-Jaza'ir Daymaniyat.	23° 51.3' N 58° 03.9' E	Fl.W. period 10s	102 31	15	Metal framework tower; 16.	
	-RACON		M(- -)		25		(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GULF OF OMAN							
28596 <i>D 7323</i>	-Bayt al Barakat, jetty.	23° 43.0' N 58° 05.5' E	F.R.		3	Metal post; 16.	
	-RACON		M(- -)				
28597 <i>D 7322.8</i>	-Seeb Fishing Harbor, W. breakwater, head.	23° 41.6' N 58° 11.0' E	L.F.I.G. period 6s	16 5	5	Gray metal post, green triangular daymark point up; 10.	
28597.5 <i>D 7322.85</i>	--E. breakwater.	23° 41.5' N 58° 10.9' E	L.F.I.R. period 6s	16 5	5	Gray metal post, red square daymark; 10.	
28597.8 <i>D 7322.71</i>	Wave Project Marina, S. breakwater.	23° 38.3' N 58° 16.1' E	Iso.W.R.G. period 4s	26 8	3	Steel beacon; 10.	G. 130°-140°, W.-205°, R.- 285°.
28597.81 <i>D 7322.76</i>	--NW. breakwater, head.	23° 38.4' N 58° 15.8' E	Fl.(9)W. period 15s	33 10	5	Steel beacon, two black triangular daymarks points up; 10.	
28597.82 <i>D 7322.55</i>	--SE. breakwater, head.	23° 37.8' N 58° 16.7' E	Fl.(2)W. period 8s	39 12	5	Steel beacon; 13.	
28598 <i>D 7322.5</i>	-Ghubrah, Desalination Plant.	23° 36.6' N 58° 24.7' E	Q.W.	16 5	3	N. CARDINAL BY, column, topmark.	
28600 <i>D 7322</i>	-Jazirat Al Fahl.	23° 40.8' N 58° 30.0' E	Fl.W. period 15s	313 95	7	Metal framework tower, white triangular daymark point up; 13.	
28604.4 <i>D 7322.25</i>	--Breakwater.	23° 38.3' N 58° 30.6' E	Iso.G. period 2s	29 9	3	Metal post; 10.	
28605 <i>D 7321.6</i>	-Port Sultan Qaboos, breakwater, head.	23° 37.6' N 58° 34.3' E	Iso.G. period 8s	30 9	7	Gray post, green triangular daymark point up; 10.	R. Lt. on Riyam tower 830 meters SE. R. Lts. on radio mast 0.88 mile SE.
28605.1 <i>D 7321.62</i>	-NW.	23° 37.7' N 58° 34.3' E	F.G.	7 2	3	Wall.	
28605.2 <i>D 7321.7</i>	--Jetty, head, NE. corner.	23° 37.6' N 58° 34.1' E	Fl.R. period 5s	7 2	3	Wall.	
28605.3 <i>D 7321.72</i>	--SW. corner.	23° 37.5' N 58° 34.1' E	F.G.	7 2	3	Wall.	
28605.5 <i>D 7321.74</i>	--Berth No 11.	23° 37.4' N 58° 33.9' E	Q.R.	7 2	3		Can be obscured by background shore lights.
28605.7 <i>D 7321.76</i>	--Ship lift.	23° 37.4' N 58° 33.9' E	F.G.	7 2	3		F.G. 2M marks ship lift close NNW.
28608 <i>D 7320</i>	-Masqat , N. summit.	23° 37.6' N 58° 35.8' E	Fl.W. period 12s fl. 1s, ec. 11s	312 95	19	White square tower, round lantern house; 16.	Visible 042°-320°.
	-RACON		N(- •)		25		(3 & 10cm).
28608.2 <i>D 7320.2</i>	--Fisher's Rock.	23° 37.8' N 58° 35.7' E	Fl.R. period 3s	13 4	5	PORT (A) R, post, topmark; 10.	
28609 <i>D 7319</i>	-Sidab, breakwater.	23° 36.0' N 58° 35.9' E	F.R.	20 6	3	White metal post; 10.	
28609.2 <i>D 7319.2</i>	--Ship lift.	23° 36.0' N 58° 35.9' E	F.G.	20 6	5	White metal post; 10.	
28610 <i>D 7318.4</i>	-Bandar Al Rowdha, E. breakwater.	23° 35.0' N 58° 36.5' E	Fl.(2)R. period 5s	30 9	3	Metal post; 7.	
28610.2 <i>D 7318.5</i>	--N. breakwater.	23° 35.1' N 58° 36.5' E	Fl.(4)G. period 15s	23 7	3	Metal post; 3.	
28611 <i>D 7318.32</i>	-As Sifah, breakwater.	23° 25.0' N 58° 47.6' E	Fl.R. period 5s	30 9	5	Metal post, red square daymark; 10.	
28612 <i>D 7318.2</i>	-Qurayat, S. breakwater.	23° 16.0' N 58° 55.8' E	Iso.R. period 4s	23 7	4	Red metal post; 10.	

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GULF OF OMAN							
28612.2 <i>D 7318.22</i>	--N. breakwater.	23° 16.0' N 58° 55.8' E	Iso.G. period 4s	23	7	4 Green metal post; 10.	
28612.4 <i>D 7318.24</i>	--Groin.	23° 16.4' N 58° 55.5' E	Q.(3)W. period 10s	16	5	3 E. CARDINAL BYB, post, topmark; 10.	
28614 <i>D 7318.13</i>	-Fishery Harbor, N. breakwater.	22° 34.8' N 59° 32.0' E	Fl.G. period 5s	30	9	4 Green metal post; 10.	
28615 <i>D 7318.14</i>	--E. breakwater.	22° 34.7' N 59° 31.8' E	Fl.R. period 5s	30	9	4 Red metal post; 10.	
28616 <i>D 7318.171</i>	Qalhat , Fisherman's Warning Light.	22° 39.9' N 59° 24.1' E	Fl.W. period 8s	72	25		Visible 153°-291°. Vessels to stop fishing and clear the area, imminent tanker movement at LNG terminal. Range 6M by day. Occasional.
			Fl.G. period 8s	72	22	10	Visible 153°-291°. Vessels to stay clear of area, tanker movement in progress. Range 1M by day. Occasional.
ARABIAN SEA AND GULF OF ADEN							
28616.5 <i>D 7315.4</i>	Dawhat Sawqirah, Lakbi.	18° 11.0' N 56° 33.0' E	Fl.W. period 10s fl. 1s, ec. 9s	39	12	8 Gray metal post; 7.	
28617 <i>D 7315.8</i>	Duqm, E. breakwater, head.	19° 41.6' N 57° 43.7' E	Iso.R. period 4s	23	7	6 PORT (A) R, post, topmark; 10.	
28617.1 <i>D 7315.81</i>	-N. breakwater, head.	19° 41.4' N 57° 43.3' E	Iso.G. period 4s	23	7	6 STARBOARD (A) G, post, topmark; 10.	
28617.3 <i>D 7315.85</i>	-Government Berths.	19° 40.8' N 57° 42.5' E	Q.G.	10	3	5 Steel beacon; 3.	
28617.5 <i>D 7315.9</i>	-Drydock, jetty.	19° 40.1' N 57° 43.1' E	Iso.W. period 4s	23	7	5 Metal post; 10.	
28617.7 <i>D 7315.92</i>	-Commercial Quay, S. corner.	19° 40.0' N 57° 43.4' E	Mo.(V)W.	23	7	3 Metal post; 7.	
28617.9 <i>D 7315.96</i>	--N. corner.	19° 41.1' N 57° 43.6' E	Q.R.	10	3	5 Steel beacon; 3.	
28618 <i>D 7318.1</i>	Sur, Ra's Ayqah.	22° 34.1' N 59° 32.4' E	Fl.W. period 5s	65	20	10 Ornamental tower; 59.	Visible 122°-268°.
PERSIAN GULF							
28620 <i>D 7710</i>	Khowr-e Minab approach.	27° 04.9' N 56° 48.1' E	Fl.W. period 3s	7	2	7 Beacon.	
28622 <i>D 7709.8</i>	Shahid Haghani.	27° 10.2' N 56° 16.7' E	Fl.(2)W. period 6s	10	3	5 ISOLATED DANGER BRB, beacon, topmark.	
28623 <i>D 7709.75</i>	Suru.	27° 09.1' N 56° 14.1' E	Fl.(2)W. period 6s	10	3	5 ISOLATED DANGER BRB, beacon, topmark.	
28624 <i>D 7709</i>	Bandar 'Abbas, E. breakwater.	27° 07.8' N 56° 12.4' E	Fl.G. period 5s	16	5	7 Green tower.	
28628 <i>D 7709.2</i>	-W. breakwater.	27° 07.7' N 56° 12.1' E	Fl.R. period 5s	16	5	7 Red tower.	
28632 <i>D 7709.4</i>	-Entrance Range, front.	27° 09.3' N 56° 12.2' E	Iso.W. period 4s	49	15	10 Red, white and blue metal framework tower; 33.	

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PERSIAN GULF							
28636 D 7709.41	--Rear, 500 meters 000° from front.	27° 09.6' N 56° 12.2' E	Iso.W. period 4s	98	10	Red, white and blue metal framework tower; 49.	
28640 D 7709.7	-Inner Harbor, E. side.	27° 08.3' N 56° 12.3' E	Fl.G. period 5s	10	3	Green pile beacon.	
28644 D 7709.6	--W. side.	27° 08.3' N 56° 12.2' E	Fl.R. period 5s	10	3	Red pile beacon.	
SHAHID RAJA'I:							
28647 D 7707	-Entrance Range, front.	27° 05.7' N 56° 02.4' E	Iso.W. period 6s	79	18		
28647.1 D 7707.1	--Rear, 2130 meters 284° from front.	27° 06.0' N 56° 01.2' E	Iso.W. period 6s	144	18		
28648 D 7708	-E. breakwater, head.	27° 05.4' N 56° 04.4' E	Fl.G. period 5s			Framework tower.	
28652 D 7708.2	-W. breakwater, head.	27° 05.2' N 56° 04.2' E	Fl.R. period 5s			Framework tower.	
28656 D 7708.4	-E. inner breakwater, head.	27° 05.5' N 56° 04.1' E	Fl.(2)G. period 9s			Framework tower.	
28660 D 7708.5	-W. inner breakwater, head.	27° 05.3' N 56° 03.9' E	Fl.(2)R. period 9s			Framework tower.	
28669 D 7337.5	Jazireh-ye Larak, N. coast.	26° 53.2' N 56° 21.4' E	Fl.(2)W. period 10s	66	12		
28684.1 D 7339.5	Jazireh-ye Hengam , S. coast.	26° 37.4' N 55° 53.2' E	Fl.W. period 10s	49	18		
28685 D 7335.5	Keshal Rock.	26° 23.7' N 56° 24.7' E	Fl.(2)W. period 5s	10	5	ISOLATED DANGER BRB, beacon, topmark.	
28686 D 7340.2	Ghabnat Karban.	26° 22.0' N 56° 21.7' E	Q.(6)+L.Fl.W. period 15s	10	3	S. CARDINAL YB, beacon, topmark.	
28687 D 7340.4	-Jetty, NE.	26° 22.0' N 56° 21.7' E	Fl.G. period 5s	20	5	Gray metal post, building.	
28687.2 D 7340.5	--SW.	26° 22.0' N 56° 21.7' E	L.Fl.G. period 10s	20	5	Gray metal post; 7.	
28688 D 7340	Khawr Al Quway.	26° 21.9' N 56° 21.6' E	Fl.(4)G. period 10s	20	3	Gray metal post; 7.	
28690 D 7334.8	Bukha, N. breakwater.	26° 09.0' N 56° 08.8' E	Iso.G. period 2s	23	4	Black metal post; 7.	
28690.1 D 7334.85	-E. breakwater.	26° 09.0' N 56° 08.8' E	Iso.R. period 2s	20	4	Black metal post; 7.	
28691 D 7340.65	MGP breakwater, head.	26° 03.5' N 56° 05.1' E	Fl.G. period 4s		5	Green metal framework tower, green triangular daymark point up; 10.	
28692 D 7341	Al Jeeb, breakwater.	26° 02.6' N 56° 04.9' E	Fl.(2)Y. period 10s	21	5		
28696 D 7344	Ghalilah, breakwater.	26° 00.1' N 56° 04.3' E	Fl.(3)Y. period 15s	21	5		
28700 D 7342	Sha'am, breakwater.	26° 01.8' N 56° 04.7' E	Fl.Y. period 5s	21	5		
28704 D 7346	Rams, N. Training Wall.	25° 53.4' N 56° 00.4' E	Fl.(3)R. period 15s	21	5		
28708 D 7346.2	-S. Training Wall.	25° 53.3' N 56° 00.3' E	Fl.G. period 5s	21	5		
28715 D 7348	Ras al Khaymah, boat harbor.	25° 46.0' N 55° 54.9' E	Q.W.		2		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
28716 D 7349	Jazirat Al Hamra.	25° 43.4' N 55° 47.9' E	Fl.W. period 7s fl. 1s, ec. 6s	13	6		
28720 D 7350	Umm al Qaywayn, breakwater, head.	25° 36.6' N 55° 34.7' E	Fl.Y. period 5s fl. 0.5s, ec. 4.5s	16	6		Lighted beacons mark entrance channel.
28724 D 7703	Jazireh-ye Tonb-e Bozorg.	26° 16.2' N 55° 17.9' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	246 75	18	Metal framework tower; 82.	Obscured 077°-080° by peak on Jazireh-ye-Tonb-e Kuchek.
	RACON		O(---)				
28732 D 7700	Ras Dastakan.	26° 32.4' N 55° 17.0' E	Fl.(3)W. period 12s	40 12	7	White beacon.	
28740 D 7704	Jazireh-ye Tonb-e Kuchek.	26° 14.5' N 55° 09.2' E	Fl.W. period 10s	82 25	12	White beacon.	
28744 D 7706	Jazirat Abu Musa.	25° 53.1' N 55° 02.1' E	Fl.W. period 8s	427 130	9		
28756 D 7699	Lingeh, E. breakwater.	26° 32.8' N 54° 53.3' E	Fl.G. period 5s	30 9	8		
28760 D 7699.2	-W. breakwater.	26° 32.9' N 54° 53.2' E	Fl.R. period 5s	30 9	10		
28764 D 7698	Bostaneh.	26° 30.6' N 54° 36.6' E	Fl.(3)W. period 10s	82 25	12	White beacon, red bands.	
28768 D 7695	Jazireh-ye Forur.	26° 17.6' N 54° 30.1' E	Fl.(2)W. period 10s	558 170	12	White metal framework tower, red bands, 56.	
	RACON		M(---)				(3 & 10cm).
28772 D 7696	Jazireh-ye Bani Forur.	26° 07.1' N 54° 26.7' E	Fl.W. period 5s	146 44	8		
28776 D 7697	Jazireh-ye Sirri.	25° 54.3' N 54° 33.1' E	Fl.(3)W. period 15s	100 30	10		
28784 D 7697.2	Jazireh-ye Sirri, E. breakwater.	25° 53.7' N 54° 32.2' E	Fl.(2)G. period 10s	19 6	5		
28788 D 7697.4	Jazireh-ye Sirri, W. breakwater.	25° 53.6' N 54° 32.2' E	Fl.(2)R. period 10s	19 6	5		
28790 D 7694	Bandar-e Charak.	26° 43.1' N 54° 16.6' E	Fl.(2)R. period 5s	16 5	7	Red pile, red square daymark.	
28790.1 D 7694.1	-E. beacon.	26° 43.2' N 54° 17.0' E	Fl.(2)G. period 5s	16 5	7	Green pile, green triangular daymark point up.	
28792 D 7692	Jazireh-ye Kish.	26° 30.6' N 53° 58.8' E	Fl.(3)W. period 7s	128 39	15	Red and white framework tower.	
	RACON		O(---)				
28800.5 D 7692.15	-Dih, W. breakwater, head.	26° 34.4' N 54° 00.4' E	Fl.G. period 5s				
28800.7 D 7692.2	-W. breakwater, E. head.	26° 34.1' N 53° 59.9' E	Fl.G. period 5s	16 5	3		
28800.8 D 7692.3	-Masheh, N. head.	26° 34.1' N 54° 00.0' E	Fl.R. period 5s		7		
28801 D 7692.3	--E. breakwater, head.	26° 34.3' N 54° 00.6' E	Fl.R. period 5s				
28803 D 7690.1	Aftab, E. breakwater, head.	26° 43.1' N 53° 55.7' E	Fl.G. period 4s			Beacon.	
28803.1 D 7690.2	-W. breakwater, head.	26° 43.1' N 53° 55.7' E	Fl.R. period 4s			Beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
28804 D 7690	Bandar-e Chiru.	26° 42.2' N 53° 43.7' E	Fl.W. period 5s		8	Concrete column; 7.	
28808 D 7691	Jazireh-ye Hendorabi.	26° 40.6' N 53° 38.5' E	Fl.(3)W. period 10s	190	10	Beacon.	
28812 D 7689	Ra's-e Nakhilu.	26° 51.4' N 53° 29.4' E	Fl.(3)W. period 18s	26	10	Beacon.	
28813 D 7681.5	Bandar-e Moqam.	26° 58.3' N 53° 28.3' E	Fl.W. period 5s	66	8		
28816 D 7685	Jazireh-ye Lavan.	26° 48.3' N 53° 21.2' E	Fl.(3)W. period 12s	177	15	Brown metal framework tower.	F.R. on radio tower close NW.
28820 D 7685.4	-Main.	26° 48.5' N 53° 19.1' E	Oc.R. period 3s	405	20	Radio tower; 328.	
2 F.R.							
28824 D 7685.8	-Boat Harbor, breakwater.	26° 48.0' N 53° 23.0' E	Fl.R. period 10s		5		
28832 D 7686	-Pipeline Range, front.	26° 47.7' N 53° 20.2' E	F.R.	112	12	Metal framework tower.	Visible 356°37'-006°37'.
28836 D 7686.1	--Rear, 850 meters 001°37' from front.	26° 48.1' N 53° 20.2' E	F.R.	187	12	Metal framework tower.	Visible 356°37'-006°37'.
28840 D 7686.3	-Range, front.	26° 47.6' N 53° 20.4' E	F.R.		12		
28844 D 7686.31	--Rear, 680 meters 055° from front.	26° 47.8' N 53° 20.7' E	F.R.		12		Visible 051°-061°.
28848 D 7686.5	-Oil loading dock Range, front.	26° 47.6' N 53° 19.7' E	Q.R.			White post.	F.R. (occas) marks head and elbow of dock.
28852 D 7686.51	--Rear, about 230 meters 303°48' from front.	26° 47.7' N 53° 19.6' E	Q.W.			White post.	
28856 D 7685.6	-Cargo ship anchorage Range, front.	26° 47.7' N 53° 22.6' E	Q.R.				
28860 D 7685.61	--Rear, about 222 meters 325°44' from front.	26° 47.8' N 53° 22.6' E	Q.W.				
28864 D 7688	Jazireh-e Shitvar.	26° 47.7' N 53° 24.2' E	Fl.(2)W. period 10s		10	White beacon.	
28875	Al Shaheen Oilfield, Platform AS-AB.	26° 35.5' N 52° 00.1' E	Mo.(U)W. period 15s				
	RACON		U(• • -)				
28875.2	-Platform AS-BA.	26° 38.2' N 51° 57.0' E	Mo.(U)W. period 15s				
	-RACON		B(- • • •)				
28875.4	-Platform AS-CA.	26° 35.0' N 51° 55.5' E	Mo.(U)W. period 15s				
	-RACON		C(- • - •)				
28876 D 7683	Shah Allum Shoal.	26° 25.4' N 52° 29.9' E	Fl.(2)W. period 6s	98	18	ISOLATED DANGER BRB, beacon, topmark.	
28878 D 7681	Bandare Shiu.	27° 04.8' N 53° 08.6' E	Fl.(2)W. period 6s	56	8	Red and white metal tower.	
28879 D 7680.5	-NW.	27° 07.7' N 53° 00.1' E	Fl.(2)W. period 10s		10		
28880 D 7680	Ra's-e Nay Band.	27° 23.2' N 52° 34.8' E	Fl.W. period 5s	95	15		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
28881 <i>D 7680.3</i>	Bandar Nay Band.	27° 24.1' N 52° 38.2' E	Fl.(2)W. period 8s	30	8		
28881.1 <i>D 9162.6</i>	Bandar-e Pais, chemical port.	27° 32.3' N 52° 32.7' E	Fl.(2)G. period 6s	39	8	Green beacon.	
28881.2 <i>D 9162.65</i>	--Outer breakwater.	27° 32.0' N 52° 32.6' E	Fl.(2)R. period 6s	39	8	Red beacon.	
28881.3 <i>D 9162.7</i>	-Logistic Port.	27° 31.3' N 52° 33.5' E	Fl.(2)G. period 6s	39	8	Green beacon.	
28881.4 <i>D 9162.75</i>	--Outer breakwater.	27° 31.1' N 52° 33.3' E	Fl.(2)R. period 6s	39	8	Red beacon.	
28882 <i>D 7679.5</i>	Taheri.	27° 39.1' N 52° 21.5' E	Fl.W. period 10s		12		
28883 <i>D 7679.3</i>	Tombak.	27° 43.3' N 52° 10.5' E	Fl.(2)W. period 10s		12		
28883.1 <i>D 7679</i>	Kangan, outer breakwater.	27° 49.8' N 52° 03.3' E	Fl.G. period 5s	39			
28883.2 <i>D 7679.2</i>	-Inner breakwater.	27° 49.9' N 52° 03.3' E	Fl.R. period 5s	39			
28883.5 <i>D 7678</i>	Deyyer, outer breakwater.	27° 49.6' N 51° 55.6' E	Fl.(3)G. period 10s	13			
28883.6 <i>D 7678.2</i>	-Inner breakwater.	27° 49.6' N 51° 55.6' E	Fl.(3)R. period 10s	13			
28884	Platform, SW. of Ra's ol Motaf.	27° 38.3' N 51° 31.2' E	Fl.R. period 5s		5	Platform.	
28888	Ra's ol Motaf RACON.	27° 36.3' N 51° 26.7' E	T(-)				(3 & 10cm).
28892 <i>D 7676</i>	Jabrin.	27° 51.4' N 51° 26.6' E	Fl.(2)W. period 8s		10		
28893 <i>D 7974.6</i>	Shilat.	27° 59.8' N 51° 22.8' E	Fl.W. period 5s	33	8	Tower.	
28895 <i>D 7674.5</i>	Lavar-e Saheli.	28° 15.3' N 51° 16.0' E	Fl.(2)W. period 6s	98	10		
28897 <i>D 7674</i>	Kalat.	28° 25.1' N 51° 08.1' E	Fl.W. period 5s	98	10	Beacon.	
BUSHEHR:							
28902 <i>D 7670.5</i>	-Ra's osh Shatt.	29° 08.7' N 50° 49.6' E	Fl.W. period 6s	69	18		
28904 <i>D 7671</i>	-Outer Range, front, A.	29° 01.8' N 50° 48.7' E	Iso.W. period 2s		6	Pile beacon.	Channel to Bushehr marked by lit buoys and beacons. Radar reflector.
28908 <i>D 7671.1</i>	--Rear, B, 1,350 meters 043° from front.	29° 02.2' N 50° 49.2' E	Iso.W. period 4s		7	Pile beacon.	Radar reflector.
28916 <i>D 7664.4</i>	Jazireh-ye Khark.	29° 12.9' N 50° 19.3' E	Fl.(2)W. period 12s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	295	17	Aluminum lattice tower; 46.	Obscured 151°-160° within 7 miles.
28924 <i>D 7665.2</i>	-Sea Island Terminal, S.	29° 13.5' N 50° 17.2' E	3 F.R. (vert.)				
28928 <i>D 7665.3</i>	-Sea Island Terminal N., 549 meters NNW. of S. light.	29° 13.7' N 50° 17.1' E	3 F.R. (vert.)				
28930 <i>D 7668.4</i>	-I.P.A.C. Boat Harbor, breakwater, elbow.	29° 13.2' N 50° 20.0' E	Q.W.		5		The dredged area in the harbor is marked by lights.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
28940 D 7666	-Kharg Harbor, W. breakwater, head.	29° 16.0' N 50° 19.7' E	Fl.(3)G. period 10s				<i>Light reported unreliable (1989).</i>
28944 D 7666.2	--E. breakwater, head.	29° 16.0' N 50° 19.7' E	Fl.(3)R. period 10s				Aero Radiobeacon 0.6 mile SW.
28948 D 7663	Jazireh-ye Kharku, island, N. head.	29° 20.4' N 50° 21.4' E	Fl.(3)W. period 10s	59 18	10	Aluminum framework tower; 52.	Visible 041°-011°.
28950 D 7662.8	Bandar-e Rig, breakwater, head.	29° 26.3' N 50° 37.3' E	Fl.(2)R. period 6s	43 13	8		
28951 D 7662.51	Bandar-e Kanaveh, N. breakwater.	29° 33.5' N 50° 29.9' E	Fl.(2)R. period 6s		7		
28951.1 D 7662.5	-S. breakwater.	29° 33.3' N 50° 30.0' E	Fl.(2)G. period 6s		7		
28954 D 7661.1	Bandar-e Deylam, S. breakwater.	30° 03.5' N 50° 08.3' E	Fl.(2)G. period 6s	16 5	7	Pile.	
28954.1 D 7661	-N. breakwater.	30° 03.6' N 50° 08.3' E	Fl.(2)R. period 6s	16 5	7	Pile.	
28956 D 7648	<i>KHOWR-E MUSA LIGHTFLOAT.</i>	29° 37.0' N 49° 34.0' E	Fl.W. period 12s		21	Red light vessel.	
28957.5	-Buoy No 9.	29° 55.0' N 49° 09.6' E	Fl.G. period 3s			STARBOARD (A) G, pillar, topmark.	
	-RACON		M(- -)				(3 & 10cm).
MARJAN/ZULUF TSS							
28958	-Oilfield North Approach RACON.	28° 32.0' N 49° 30.2' E	N(- •)		16		(3 & 10cm).
28959	-Oilfield South Approach Buoy.	28° 15.0' N 49° 18.6' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	
	-RACON		G(- - •)		11		
28972 D 7613	Khawr al Amaya Terminal.	29° 46.9' N 48° 48.5' E	Fl.W. period 5s	154 47	14	Radio tower, pile structure.	4 F.R. mark corners of terminal.
	AVIATION LIGHT.		F.R.				
SHATT AL ARAB:							
28976 D 7612	-No 2 Beacon.	29° 48.2' N 48° 44.5' E	Fl.G. period 6s				<i>Destroyed (2007).</i>
28992 D 7621	-E. Approach Beacon.	29° 54.0' N 48° 44.1' E	Fl.W. period 4s	18 5	2	Pile structure, black framework topmark.	
28996 D 7616	-Outer Bar Reach Range, front Beacon B.	29° 51.1' N 48° 45.1' E	Q.W.	18 5	6	Beacon, white triangular daymark point up.	<i>Reported destroyed (1993).</i>
29000 D 7616.1	--Rear Beacon A, 1463 meters 121° from front.	29° 50.7' N 48° 45.9' E	F.W.	55 17	13	Beacon, black triangular daymark point up.	Intensified 118°-124°. <i>Reported destroyed (1993).</i>
-Rooka Channel:							
29004 D 7623	-Inner Bar Range, front.	29° 52.8' N 48° 41.8' E	Q.W.	18 5	6	Pile structure, white triangular daymark, column.	Visible 119°-299°.
			Q.G.				
29008 D 7623.1	--Rear, 0.8 mile 123°50' from front.	29° 52.3' N 48° 42.7' E	F.W.	55 17	5	Pile structure, black framework tower, black triangular daymark.	Visible 120°-130°.
29012 D 7615	--Turning beacon.	29° 52.1' N 48° 43.6' E	I.Q.Y. period 8s	18 5	4	White column, black bands, piles.	<i>Reported destroyed (1993).</i>

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29016 D 7618	--Beacon No 4, S. side of channel.	29° 52.8' N 48° 43.9' E	Fl.W. period 4s fl. 1s, ec. 3s	18	5	Red pile structure.	
29020 D 7619	--Beacon No 5.	29° 53.3' N 48° 42.5' E	Fl.W. period 6s fl. 1s, ec. 5s	18	5	Black pile structure.	
29024 D 7622	--W. Channel Range, front.	29° 53.5' N 48° 41.7' E	Q.W.	18	5	Beacon, white triangular daymark point up.	Visible 303°-309°.
29028 D 7622.1	--Rear, 549 meters 306° from front.	29° 53.9' N 48° 41.2' E	Oc.W. period 8s lt. 6s, ec. 2s	25	10		Visible 303°-309°.
29032 D 7614	Outer Bar Reach Range, front, Beacon C.	29° 52.9' N 48° 42.0' E	Q.W.	18	5	Pile beacon, white triangular daymark point up.	<i>Reported destroyed and replaced by buoy showing Q.W.</i>
29036 D 7614.1	--Beacon D, rear, about 1512 meters 304° from front.	29° 53.3' N 48° 41.3' E	Oc.W. period 8s lt. 5s, ec. 3s	55	17	Framework tower, piles, black triangular daymark point up.	
29044 D 7620	--Rooka Inner Beacon.	29° 54.2' N 48° 38.3' E	Fl.W. period 4s	18	5	Black framework tower, pile structure, black triangular daymark point down.	Visible 282°-287°.
29048 D 7617	--Outer Bar Reach Range, front Beacon E.	29° 54.6' N 48° 38.6' E	Q.W.	18	5	Pile structure, white triangular daymark point up.	
29052 D 7617.1	--Rear Beacon F, about 1509 meters 301° from front.	29° 55.0' N 48° 37.8' E	Oc.W. period 8s Fl.(2)G. period 11s	55	17	Pile structure, white round daymark.	Visible 028°-304°.
29056 D 7624	--Inner Bar Reach Range, front.	29° 56.9' N 48° 34.8' E	Q.W.	19	6	White round columns, pile structure, white triangular daymark.	Visible 259°-349°.
29060 D 7624.1	--Rear, 640 meters 303°50' from front.	29° 57.1' N 48° 34.4' E	Oc.W. period 8s lt. 6s, ec. 2s	50	15	White framework tower, pile structure, black daymark.	Visible 294°-314°.
29064 D 7625	--Tide gauge and control tower.	29° 56.3' N 48° 35.5' E	Q.R.	20	6		Tide gauge.
29068 D 7626	--Outer Fao Reach Range, front.	29° 56.3' N 48° 36.1' E	Q.W.	15	5		Visible 062°-152°.
29072 D 7626.1	--Rear, 1097 meters 107° from front.	29° 56.2' N 48° 36.8' E	Oc.W. period 8s lt. 6s, ec. 2s	39	12		Visible 097°-117°.
29076 D 7627	--Fao Reach Range, front.	29° 57.6' N 48° 30.7' E	Q.Y.	10	3	White round beacon.	Visible 278°-286°.
29080 D 7627.1	--Rear, 823 meters 281°30' from front.	29° 57.6' N 48° 30.2' E	L.Fl.Y. period 7.5s fl. 2s, ec. 5.5s	33	10	White metal framework tower.	Visible 278°-286°.
29084 D 7630	--Middle Fao Reach Range, front.	29° 57.3' N 48° 31.5' E	Q.W.	12	4	White metal framework tower, white triangular daymark point up.	Visible 077°-170°.
29088 D 7630.1	--Rear, 878 meters 123° from front.	29° 57.0' N 48° 32.0' E	Oc.W. period 8s	63	19	White framework tower, black daymark.	Visible 120°-126°.
29092 D 7629	--Fao Reach (Al Faw) Range, front.	29° 58.2' N 48° 29.4' E	Q.W.	30	9	White framework tower.	Visible 246°-335°.
29096 D 7629.1	--Rear, 1653 meters 290°30' from front.	29° 58.5' N 48° 28.4' E	Oc.W.R. period 8s lt. 6s, ec. 2s	75	23	Black framework tower, triangular daymark point up.	W. 143°-150°, R.-241°, W.-294°. Traffic and tide signals.
29100 D 7632.9	--Range, front, 677 meters 123° from common rear.	29° 59.6' N 48° 27.3' E	Q.W.	16	5	Pile structure, column, white triangular daymark.	Visible 288°-318°. In line 303° with common rear.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29104 D 7633	-Qasbat Reach, common rear.	29° 59.9' N 48° 26.9' E	Oc.W. period 8s lt. 6s, ec. 2s	54 16	6	White framework tower, black top, black triangular daymark point up.	Visible 138°-318°.
29108 D 7633.1	--Range, front, 347 meters 358° from common rear.	30° 00.0' N 48° 26.9' E	Q.W.	29 9	8	White metal framework, white diamond daymark.	Visible 168°-188°. In line 178° with common rear.
29112 D 7635	--Beacon A.	30° 00.7' N 48° 26.5' E	Q.W.R.G.	20 6			W. sector indicates anchorage.
29116 D 7635.2	--Beacon B.	30° 01.0' N 48° 26.5' E	Q.W.R.G.	20 6			W. sector indicates anchorage.
29120 D 7635.6	--Beacon C.	30° 01.2' N 48° 26.4' E	Q.W.R.G.	20 6			W. sector indicates anchorage.
29124 D 7635.8	--Beacon D.	30° 01.5' N 48° 26.4' E	Q.W.R.G.	20 6			W. sector indicates anchorage.
29128 D 7637	-Brick Kiln, W. side of channel.	30° 07.8' N 48° 22.8' E	Fl.W.R. period 6s	45 14	7	White metal mast, black bands.	W. 217°-224°, R.-334°30', W.-347°30'.
29132 D 7640	-Range, front.	30° 13.5' N 48° 22.5' E	Q.W.	25 8			Visible 132°-312°.
29136 D 7640.1	--Rear, 732 meters 141° from front.	30° 13.2' N 48° 22.8' E	Oc.W. period 8s	80 24	10		Visible 132°-151°.
29140 D 7639	-W. Bank.	30° 14.5' N 48° 21.4' E	Fl.G. period 2s	17 5	5	Pile structure, white column, black bands.	
KHAWR 'ABD ALLAH:							
29143 D 7604.4	-Khawr Al Qayd, N23.	29° 45.9' N 48° 26.9' E	Fl.(3)G. period 5s	10 3	5	Green beacon.	
29143.1 D 7604.5	--N21.	29° 47.6' N 48° 25.6' E	Fl.(2)G. period 5s	10 3	5	Green pile beacon, platform.	
29143.2 D 7604.6	--N22.	29° 54.2' N 48° 17.6' E	Fl.R. period 5s	10 3	5	Red beacon.	
29143.3 D 7604.7	--N20.	29° 56.8' N 48° 14.5' E	Fl.(2)R. period 5s	10 3	5	Red pile beacon, platform.	
29143.4 D 7604.8	--N18.	29° 58.6' N 48° 11.7' E	Fl.(3)R. period 5s	10 3	5	Red pile beacon, platform.	
29144 D 7605	-Warbah Spit.	30° 00.6' N 48° 12.1' E	Q.W.	12 4		White triangular daymark point up.	
29146 D 7605.5	-Khawr Bubiyan, N16.	29° 58.0' N 48° 03.7' E	Fl.(3)R. period 5s	10 3	5	Red beacon.	
29146.1 D 7605.4	--N17.	29° 58.6' N 48° 06.4' E	Q.W.	10 3	5	Black beacon, yellow base.	
29146.2 D 7605.3	--N19.	30° 00.0' N 48° 08.2' E	Fl.(3)+L.Fl.Y.	10 3	5	Yellow beacon.	
29176 D 7573	Al Kubr.	29° 04.3' N 48° 29.6' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	91 28	18	White framework tower, black bands.	AIS (MMSI No 994471000).
RACON			K(- • -)		18		(3 & 10cm).
29180 D 7573.2	-M35.	29° 04.8' N 48° 29.0' E	Q.W.			Yellow beacon, black top.	
29184 D 7588	Jazirat Auhuh.	29° 22.6' N 48° 26.4' E	Fl.(3)W. period 10s	75 23	5	White metal framework tower, black bands; 66.	AIS (MMSI No 994471001).
29184.3 D 7589.52	-No 2.	29° 18.8' N 48° 24.2' E	V.Q.(6)+L.Fl.W. period 10s			Yellow and black beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29185 <i>D 7590</i>	Jazirat Faylakah, As Zawr, Boat Harbor, N. entrance, E. side.	29° 25.8' N 48° 16.0' E	Fl.R.				
29185.1 <i>D 7590.2</i>	---W. side.	29° 25.7' N 48° 16.0' E	Fl.G.				
29185.3 <i>D 7590.4</i>	--S. entrance, W. side.	29° 25.5' N 48° 16.2' E	Fl.R.				
29185.4 <i>D 7590.5</i>	---E. side.	29° 25.6' N 48° 16.3' E	Fl.G.				
29186 <i>D 7591</i>	-Ra's Al Qihah, Ferry Harbor, N. breakwater.	29° 25.8' N 48° 16.0' E	Fl.R.				
29186.1 <i>D 7591.2</i>	--S. breakwater.	29° 25.7' N 48° 16.0' E	Fl.G.				
KHALIJ AL KUWAIT:							
29188 <i>D 7595</i>	-Beacon.	29° 24.8' N 47° 59.7' E	Q.W.R.	20	7	Beacon.	W. 180°-290°, R. 180°.
29192 <i>D 7595.5</i>	-Fasht al Hadiba.	29° 24.9' N 47° 58.6' E	Fl.(3)W. period 10s	20	8	Beacon.	
29196 <i>D 7596</i>	-Outer Entrance Channel Range, front.	29° 22.5' N 47° 56.3' E	Fl.Bu. period 2.5s	36	11	5 Framework tower.	
29200 <i>D 7596.1</i>	--Rear, 808 meters 224°30' from front.	29° 22.2' N 47° 56.0' E	Dir.W.R.G. period 2s		10		F.G. 222°-224°, F.W.-225°, F.R.-227°.
29202 <i>D 7598.7</i>	-AVIATION LIGHT.	29° 22.1' N 47° 58.5' E	Q.W.			Radio tower; 1220.	
F.R.							
29209 <i>D 7599</i>	-Ash Shuwaykh, breakwater, head.	29° 21.5' N 47° 56.0' E	Fl.Y. period 3s	13	4	3	Dolphins close S marked by F.G. and F.R. lights. Berths marked by Q.G. and Q.R. lights.
29210 <i>D 7601</i>	-Ra's Al Akaz.	29° 23.7' N 47° 56.3' E	Fl.W. period 3s	10	3		Black and yellow beacon.
29211 <i>D 7602.9</i>	-Mina ad Dawhah.	29° 22.8' N 47° 48.0' E	Fl.(3)W. period 20s			15	White beacon.
29212 <i>D 7594.4</i>	-Medina Island.	29° 23.9' N 47° 59.5' E	Fl.W. period 5s	18	5	8	Black steel tower, white bands; 10.
29216 <i>D 7594</i>	-Ras Ajuza.	29° 23.5' N 47° 59.8' E	Mo.(KHC)G. period 30s	98	10	30	Visible 020°-340°.
29220 <i>D 7592</i>	-Ra's al Ard.	29° 21.1' N 48° 06.1' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	86	16	26	Black metal framework tower, white bands; 72. AIS (MMSI No 994471002).
-RACON							
			Q(- - • -)			22	(3 & 10cm).
29220.2 <i>D 7593</i>	-Al Bida Marina, S. breakwater.	29° 19.3' N 48° 05.6' E	Fl.R.				
29220.4 <i>D 7593.2</i>	--N. breakwater.	29° 19.5' N 48° 05.7' E	Fl.G.				
29221 <i>D 7593.4</i>	-Ra's Al Ard, Ferry Harbor, E. breakwater.	29° 21.1' N 48° 05.9' E	Fl.R.				
29221.4 <i>D 7593.6</i>	-Ash-Shaab Marina, E. breakwater.	29° 20.7' N 48° 03.0' E	Fl.R.				
29221.6 <i>D 7593.7</i>	---W. breakwater.	29° 20.7' N 48° 03.0' E	Fl.G.				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29222 D 7593.8	-Al Kuwait Marina, S. breakwater.	29° 22.8' N 48° 00.5' E	Fl.R.				
29222.2 D 7593.9	--N. breakwater.	29° 22.8' N 48° 00.5' E	Fl.G.				
29224 D 7603	-Mashjan.	29° 29.1' N 48° 15.1' E	Q.(4)W. period 30s	35 11	10	Black metal framework steel tower; 36.	
29226 D 7603.3	--Off W. end.	29° 29.0' N 48° 14.3' E	Q.(9)W. period 15s	10 3	5	Yellow beacon, black band.	
29228 D 7604	--Maskan Reef.	29° 30.0' N 48° 14.7' E	Q.W.	16 5	5		
29232	-Ahmadi RACON.	28° 56.2' N 48° 53.0' E	M(- -)		16		(3 & 10cm).
29236 D 7571	-Mudayrah Reef.	28° 56.2' N 48° 46.3' E	Fl.R. period 5s fl. 1s, ec. 4s	35 11	11	Metal tripod, white pedestal, red bands.	Radar reflector.
29240 D 7572	-Taylor Rock Beacon.	29° 01.5' N 48° 34.6' E	Q.(6)W. period 10s	35 11	7	Metal tripod, white pedestal, black bands.	Radar reflector.
29246 D 7580	Mina' Abdullah Range, front.	29° 00.2' N 48° 09.7' E	F.W.			Beacon.	Occasional.
29246.5 D 7580.1	-Rear 730 meters 247° from front.	29° 00.1' N 48° 09.3' E	F.W.			Beacon.	Occasional.
29248 D 7580.4	-S. jetty.	29° 01.0' N 48° 09.7' E	Fl.R.		1		
29248.1 D 7580.3	-N. jetty.	29° 01.0' N 48° 09.7' E	F.G.				
29249 D 7582.7	Mina Ash Shu'aybah, Petroleum Products Pier.	29° 02.5' N 48° 10.4' E	Fl.R. period 5s				Horn: 1 bl. ev. 20s (bl. 2s, si. 18s).
29249.1 D 7582.6	-N. head.	29° 02.6' N 48° 10.3' E	Fl.R. period 3s	16 5	4	Dolphin.	
29249.2 D 7582.8	-S. head.	29° 02.3' N 48° 10.6' E	Fl.G. period 3s	16 5	4	Dolphin.	
29252 D 7582.4	-N. breakwater, head.	29° 02.7' N 48° 09.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	29 9	4	Metal mast; 13.	
29252.1 D 7582	-S. breakwater, E. head.	29° 02.6' N 48° 10.0' E	Fl.R. period 3s	20 6	4		R. light 51m on control tower 60 meters W. Fl.R. 4M near Berth "2", 260 meters SW.
29252.2 D 7582.2	--W. head.	29° 02.6' N 48° 10.0' E	Fl.R.	16 5	4		
29252.3 D 7582.5	-Barge Quay.	29° 02.3' N 48° 09.8' E	2 Fl.G. (vert.)		3		
29264 D 7585.6	-Mina'al Ahmadi oil pier, S. head.	29° 03.8' N 48° 09.8' E	F.W.				3 Fl.R. lights on S. end of pier. 3 Fl.R. lights on N. end of pier 0.6 mile NW. Diaphone: 1 bl. ev. 60s (bl. 3s, si. 57s).
29268 D 7586.7	-Bitumen pier, head.	29° 04.1' N 48° 09.4' E	3 Fl.G. period 10s				Lights in shape of a triangle at N. and S. ends of pier. Horn: 1 bl. ev. 20s (bl. 2s, si. 18s).
29269 D 7587	-Al Fuhaihil Marina, E. breakwater.	29° 05.6' N 48° 08.5' E	Fl.R.				
29269.1 D 7587.2	W. breakwater.	29° 05.6' N 48° 08.5' E	Fl.G.				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29270 <i>D 7587.62</i>	Abu Hulayfah, N. pier, N. head.	29° 07.9' N 48° 08.9' E	F.R.				
29270.1 <i>D 7587.63</i>	-S. head.	29° 07.5' N 48° 09.1' E	F.R.				F.R. 100 meters S. Diaphone: 3 bl. ev. 60s. (bl. 2.5s, si. 3s, bl. 2.5s, si. 3s, bl. 2.5s, si. 46.5s). 225 meters N.
29271 <i>D 7585</i>	Mina Al Ahmadi Sea Island Terminal.	29° 07.0' N 48° 17.5' E	Mo.(U)W. period 15s				Diaphone: 2 bl. ev. 90s.
			Mo.(U)R. period 15s				
29271.1 <i>D 7585.1</i>	-N. end.	29° 07.1' N 48° 17.5' E	Fl.W.R.				
29271.2 <i>D 7585.15</i>	-S. end.	29° 06.9' N 48° 17.6' E	Fl.W.				
			Mo.(U)W. period 15s				
29273 <i>D 7587.8</i>	Qit'at Funaitis.	29° 13.8' N 48° 07.0' E	Q.W.		10 3	5 Black beacon, yellow base.	
29276 <i>D 7603.8</i>	Jazirat Faylakah, M26.	29° 29.4' N 48° 17.9' E	Q.W.			Yellow beacon, black top.	
29276.6 <i>D 7589.7</i>	-M27.	29° 27.5' N 48° 22.5' E	Fl.(3)W. period 10s		10 3	5 Black beacon, yellow band.	
29276.8 <i>D 7589.8</i>	-M28.	29° 31.1' N 48° 36.1' E	Fl.(3)+L.Fl.Y.		16 5	10 Yellow pile structure.	
29278 <i>D 7589</i>	-No M31, off SW. end.	29° 25.1' N 48° 15.8' E	V.Q.(6)+L.Fl.W. period 10s			Black beacon, yellow top.	
29280 <i>D 7589.52</i>	-M30, off SE. end.	29° 22.6' N 48° 23.4' E	V.Q.(6)+L.Fl.W. period 10s			Black beacon, yellow top.	
29284 <i>D 7589.6</i>	-No M29, off E. end.	29° 23.4' N 48° 28.2' E	V.Q.(3)W. period 5s			Black beacon, yellow band.	
29285 <i>D 7603.5</i>	Al Wakir, M22.	29° 28.4' N 48° 16.3' E	Fl.(3)+L.Fl.Y.		10 3	5 Yellow beacon.	
29285.2 <i>D 7603.6</i>	-M21.	29° 28.9' N 48° 16.9' E	Fl.(3)+L.Fl.Y.		10 3	5 Yellow beacon.	
29288 <i>D 7607.8</i>	Khawr as Sabiyan, No 2.	29° 32.8' N 48° 14.5' E	Fl.(3)R. period 5s			Red beacon.	Several lights mark Khawr as Sabiyan.
29292 <i>D 7579</i>	Qitat Urayfiyan.	28° 59.9' N 48° 15.7' E	Q.(3)W. period 10s			Black pile, yellow band.	
29296 <i>D 7578.2</i>	Ras al Qulay'ah, M40.	28° 56.0' N 48° 21.8' E	Q.(3)W. period 10s			Black pile, yellow band.	
29296.1 <i>D 7578.4</i>	-M41.	28° 54.3' N 48° 16.2' E	Q.W.			Yellow beacon, black top.	Occasional.
29300 <i>D 7578</i>	-M39.	28° 55.3' N 48° 20.0' E	Fl.(2)W. period 15s			Black pile, red band.	
29301 <i>D 7577.4</i>	Kuwait Naval Base, W. breakwater, head.	28° 51.9' N 48° 17.2' E	Fl.G. period 2s				
29301.1 <i>D 7577.3</i>	-E. breakwater, head.	28° 52.0' N 48° 17.4' E	Fl.(3)R.		10		Horn: 1 bl. ev. 20s.
29301.5 <i>D 7577.2</i>	-Beacon No 7.	28° 52.1' N 48° 17.4' E	Fl.G. period 3s			Beacon, green square daymark.	
29302	-L1A.	28° 52.1' N 48° 17.0' E	Fl.W.R.G.				G. 264°-266°, W.-267°, R.-269°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29303.2 <i>D 7575.655</i>	Dawahat Az Zawr, S1.	28° 51.1' N 48° 17.1' E	Q.W.			Black beacon, yellow base.	
29303.3 <i>D 7575.66</i>	-S2.	28° 50.8' N 48° 17.3' E	V.Q.(6)+L.FI.W. period 10s			Yellow beacon, black base.	
29303.4 <i>D 7575.665</i>	-S3.	28° 50.6' N 48° 18.0' E	V.Q.(6)+L.FI.W. period 10s			Yellow beacon, black base.	
29303.5 <i>D 7575.67</i>	-S4.	28° 50.2' N 48° 18.7' E	V.Q.(6)+L.FI.W. period 10s			Yellow beacon, black base.	
29303.6 <i>D 7575.675</i>	-S5.	28° 48.2' N 48° 20.3' E	Q.W.			Black beacon, yellow base.	
29303.7 <i>D 7575.68</i>	-S7.	28° 45.7' N 48° 20.9' E	Q.W.			Black beacon, yellow base.	
29304 <i>D 7575.6</i>	Raz az Zawr.	28° 48.7' N 48° 25.9' E	Q.(3)W. period 10s		5	Black pile, yellow band.	
29308 <i>D 7576</i>	Mina Su'ud, jetty, head.	28° 41.5' N 48° 23.4' E	5 Mo.(U)G. period 15s				Lights mark pier head. Horn: 4 bl. ev. 60s. (bl. 3s, si. 3s, bl. 3s, si. 3s, bl. 3s, si. 3s, bl. 3s, si. 39s).
29310 <i>D 7575.4</i>	Az Zawr Beacon.	28° 44.7' N 48° 24.2' E	Q.(6)+L.FI.W. period 15s	10 3		2 S. CARDINAL YB, beacon, topmark.	
29312 <i>D 7575</i>	Ra's Az Zawr.	28° 44.5' N 48° 23.7' E	Oc.W.R. period 5s		5	White tower, red stripes; 23.	W. 155°-245°, R.-265°, W.-355°.
29312.1 <i>D 7575.7</i>	-No 1.	28° 45.2' N 48° 24.9' E	Q.(3)W. period 10s	16 5		5 E. CARDINAL BYB, beacon, topmark.	
29312.2 <i>D 7575.75</i>	-No 2.	28° 45.6' N 48° 25.0' E	V.Q.(3)W. period 5s	16 5		5 E. CARDINAL BYB, beacon, topmark.	
29312.3 <i>D 7575.8</i>	-No 3.	28° 45.9' N 48° 24.8' E	Q.W.	16 5		5 N. CARDINAL BY, beacon, topmark.	
29312.4 <i>D 7575.85</i>	-No 4.	28° 45.9' N 48° 24.4' E	V.Q.W.	16 5		5 N. CARDINAL BY, beacon, topmark.	
29312.5 <i>D 7575.9</i>	-No 5.	28° 45.8' N 48° 23.2' E	Q.(9)W. period 15s	16 5		5 W. CARDINAL YBY, beacon, topmark.	
29312.6 <i>D 7575.65</i>	-No 136.	28° 47.7' N 48° 23.3' E	Fl.(2)W. period 5s			Black beacon, red band.	
29313 <i>D 7575.5</i>	--Offshore structure.	28° 46.0' N 48° 26.1' E	Fl.(4)W. period 15s	19 6		5 White metal structure; 20.	
29316 <i>D 7569</i>	Jazirat Quaru.	28° 49.1' N 48° 46.5' E	Fl.W. period 10s	45 14		5	
29320 <i>D 7569.2</i>	-NNW.	28° 50.2' N 48° 45.9' E	Q.W.			Yellow beacon, black top.	
29324 <i>D 7568</i>	Umm Al Maradim.	28° 40.7' N 48° 39.1' E	Fl.(2)W. period 15s	75 23		10	
29328 <i>D 7568.2</i>	-NW.	28° 42.9' N 48° 37.9' E	Q.W.			Yellow beacon, black top.	
29330 <i>D 7568.4</i>	Qit'at al Bunayyah.	28° 37.1' N 48° 25.7' E	Q.W.			5 Black beacon, yellow base.	
29332	Ras Al Khafji Approach Buoy No 1.	28° 36.0' N 49° 10.0' E	Iso.W. period 10s			SAFE WATER RW, pillar, topmark.	Several lighted buoys are shown westward toward Ras al Khafji.
29336 <i>D 7500</i>	Khafji Terminal, control platform.	28° 27.1' N 48° 35.8' E	Fl.R. period 10s	52 16		10 Platform.	
29340 <i>D 7505</i>	-Range, front.	28° 24.7' N 48° 31.3' E	F.R.	52 16		4	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29344 D 7505.1	--Rear, 335 meters 234°42' from front.	28° 24.6' N 48° 31.1' E	F.R.	75 23	7		
29344.5 D 7505.4	-N. side of entrance.	28° 25.1' N 48° 31.7' E	Fl.G. period 3s		5	Concrete block; 3.	
29346 D 7457.6	Fasht Buldani, FBN.	28° 16.8' N 49° 05.0' E	Fl.W. period 10s				Radar reflector.
	RACON		Q(- - • -)				(3 & 10cm).
29347 D 7457.3	-FBE.	28° 07.2' N 49° 10.3' E	Fl.G. period 10s				Radar reflector.
29348 D 7457	-FBS.	27° 54.1' N 49° 20.0' E	Fl.W. period 10s				Radar reflector.
29352 D 7462	Bandar Al Mish'ab.	28° 06.8' N 48° 38.0' E	Oc.W. period 2.3s			Silo; 156.	Oc.W. 2.3s lights shown from 5 silos.
	AVIATION LIGHT.		F.R.				F.R. lights shown from floodlit towers.
	RA'S AL MISHA'AB:						
29364 D 7455	-Jazireh-ye Farsi.	27° 59.5' N 50° 10.3' E	Fl.W. period 15s	92 28	16	Black metal framework tower, white band; 75.	
	-RACON		M(- -)		24		(3 & 10cm).
29368 D 7454	-Al Arabiyah.	27° 46.6' N 50° 10.5' E	2 Fl.(2)W. (vert.) period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	75 23	15	Red and white metal framework tower.	Q.R. 3m 3M marks jetty head 102 meters W.
29369 D 7452	-Range, front.	27° 47.0' N 48° 52.4' E	Iso.W. period 2s			Red metal pile, white bands.	
29370 D 7452.1	--Rear, 390 meters 270° from front.	27° 47.0' N 48° 52.1' E	Iso.W. period 4s			Red metal piles, white bands.	
29372 D 7456	Harqus.	27° 56.2' N 49° 40.9' E	Fl.W. period 10s	29 9	8	Beacon; 13.	
29376 D 7447	Al Qiran.	27° 43.2' N 49° 49.6' E	Fl.W. period 10s	13 4	8	Metal tripod.	<i>Reported Fl.(2)W. 10s 4m 8M (1985).</i>
29384 D 7450	Beacon TE-1.	27° 45.3' N 49° 24.3' E	Fl.G. period 10s				Channel marked by beacons.
	RACON		K(- • -)		18		(3 & 10cm).
29388 D 7449	-NW. Beacon.	27° 42.9' N 49° 21.3' E	Fl.W. period 7s		3	Beacon.	
29392 D 7450.4	-SW. Beacon.	27° 44.0' N 49° 11.7' E	Fl.W. period 7s		2		
29396 D 7446	Al Qurayyin.	27° 38.9' N 49° 49.2' E	Fl.G. period 10s	13 4	2	Metal tripod.	<i>Reported Fl.(2)G. 10s 4m 8M (1985).</i>
29400 D 7445	Janah.	27° 22.2' N 49° 53.9' E	Fl.W. period 10s	13 4	8	Metal tripod.	
29402 D 7435	Essa Reef.	27° 02.1' N 49° 56.1' E	Fl.(2)W. period 10s			Metal column; 26.	
29404 D 7436	Ra's al Ghar Range, front.	26° 52.5' N 49° 50.9' E	Iso.R.	13 4	4		Radar reflector.
29408 D 7436.1	-Rear, 300 meters 214° from front.	26° 52.4' N 49° 50.8' E	Iso.R.	13 4	6		Radar reflector.
29410 D 7434.7	Ra's al Ju'aymah, entrance.	26° 51.9' N 49° 54.6' E	Fl.G. period 5s				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29416 D 7443.1	Jazirat Al Jurayd, radar tower.	27° 11.8' N 49° 57.5' E	F.R.			Tower.	
	RACON		D(- • •)				
AL JUBAYL:							
29418 D 7437	-Small boat harbor.	26° 59.7' N 49° 40.4' E	Fl.G. period 3s		5		
29419 D 7437.5	-Fishing Harbor, breakwater, head.	27° 00.7' N 49° 40.8' E	Fl.R. period 4.5s		2	Pole.	
29420 D 7438	-S. breakwater, S. head.	27° 00.6' N 49° 40.9' E	Fl.G. period 2s		5	Pole; 39.	
29424 D 7438.4	--N. head.	27° 01.8' N 49° 42.0' E	Fl.W.R. period 2s		12	Metal framework tower.	Horn: Mo.(A).
29428 D 7438.6	-E. breakwater, S. head.	27° 02.1' N 49° 42.5' E	Fl.W.G. period 3s		4	Metal post.	G. 201°54'-080°48', W.- 201°54'.
29432 D 7438.8	--N. head.	27° 04.1' N 49° 41.9' E	Fl.W.R. period 4s		4	White metal tower, red bands.	W. 140°12'-225°, R.-310°, W.-338°18', R.-019°48', W.-092°, R.-140°12'.
29440 D 7439	-N. Breakwater, S. head.	27° 04.3' N 49° 42.2' E	Fl.W.G. period 2s	29 9	3	White metal tower, red bands.	W. 100°12'-306°42', G.- 100°12'.
29444 D 7439.4	-O.S.T.T. Pier, S. head.	27° 04.3' N 49° 43.6' E	Q.(6)+L.Fl.W. period 15s	36 11			
29448 D 7439.5	--Center.	27° 04.8' N 49° 43.3' E	Q.R.	42 13		Gray pole.	Horn: Mo.(U).
29452 D 7439.6	--N. head.	27° 05.3' N 49° 43.0' E	Fl.(2)R. period 5s	36 11	1	Gray pole.	
29460 D 7439.8	-Causeway.	27° 04.8' N 49° 40.1' E	Fl.Y. period 3s	16 5	1	Gray pole.	
29464 D 7441.6	-King Abdul Aziz Naval Base, N. breakwater, E1.	26° 58.9' N 49° 42.0' E	Fl.(2)G. period 10s		3	STARBOARD (A) G, post, topmark.	
29468 D 7441.4	--Detached breakwater, N. head, E2.	26° 58.8' N 49° 42.2' E	Fl.(2)R. period 10s		3	PORT (A) R, post, topmark.	
29472 D 7441.5	---S. head, E3.	26° 58.3' N 49° 42.4' E	Fl.(3)G. period 10s		3	STARBOARD (A) G, post, topmark.	
29476 D 7441	--Range, front, RL2.	26° 57.9' N 49° 41.6' E	Q.R.		7		
29480 D 7441.1	---Rear, RL1, 400 meters 203° from front.	26° 57.7' N 49° 41.5' E	Oc.R. period 8s		7		
29484 D 7442.5	--Range, front, RL4.	26° 57.0' N 49° 42.4' E	Fl.Y. period 2s		5		
29488 D 7442.51	---Rear, RL3, 600 meters 203° from front.	26° 56.7' N 49° 42.2' E	Oc.Y. period 5s		5		
JU'AYMAH APPROACH:							
29500	-Ju'aymah RACON.	27° 12.6' N 50° 38.9' E	Z(- - • •)		16		(3 & 10cm).
29504 D 7425	Ju'aymah, No 1.	27° 02.3' N 50° 07.9' E	Q.(3)W. period 10s			Black and white beacon.	Radar reflector.
29508	<i>Hair Abu Athama Shoal Buoy.</i>	26° 53.0' N 50° 58.0' E	Fl.(2)W. period 10s			ISOLATED DANGER BRB, pillar, topmark.	
29511 D 7420	Pipe.	27° 16.7' N 51° 03.0' E	Fl.R. period 4s		5	Black metal pole, orange and white bands.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
RA'S AT TANNURA APPROACH:							
29520	-Ras Tannurah Buoy.	27° 06.1' N 50° 57.5' E	L.FI.W. period 10s			SAFE WATER RW, pillar, topmark.	Radar reflector.
	-RACON		K(- • -)		16		(3 & 10cm).
29532 D 7424	-Garibah.	26° 59.5' N 50° 13.0' E	Q.(6)+L.FI.W. period 15s	30 9	10	S. CARDINAL YB, beacon, topmark.	
	-RACON		B(- • • •) period 72s		20		(3cm).
29533 D 7434.6	-Ras al Ju'aymah, LPG Terminal Range, front.	26° 51.7' N 50° 02.5' E	FI.R. period 10s				
29533.1 D 7434.61	--Rear, 300 meters 244°42' from front.	26° 51.7' N 50° 02.4' E	FI.G. period 10s				
29534 D 7427	-RTN beacon.	26° 42.0' N 50° 10.1' E	FI.W. period 7s	29 9	5	Red pile structure.	Radar reflector.
29535 D 7428.6	-S. on shallow patch.	26° 40.8' N 50° 09.6' E	FI.W. period 10s			Pile structure.	
29536 D 7428	-Range, front.	26° 39.4' N 50° 09.7' E	Q.R.	20 6		Red four-pile beacon, black stripe, white round topmark.	Visible 220°42'-348°42'.
29540 D 7428.1	--Rear, 310 meters 284°40' from front.	26° 39.5' N 50° 09.5' E	Q.G.	26 8		Red four-pile beacon, black stripe, white round topmark.	Visible 220°42'-348°42'.
29544 D 7428.8	-Range, front.	26° 38.4' N 50° 09.7' E	FR.			Black wooden framework tower, white stripe; 13.	
29548 D 7428.81	--Rear, 213 meters 271°45' from front.	26° 38.4' N 50° 09.6' E	FG.			Aluminum tank, black round topmark.	
29552 D 7429.8	-North pier, N. head.	26° 39.1' N 50° 10.1' E	FR.			Tower.	
29556 D 7429.6	--Beacon, center of pier.	26° 38.9' N 50° 10.0' E	FI.R. period 10s				F.R. on same structure. Radar reflector.
29560 D 7429.5	--Beacon, S. head.	26° 38.8' N 50° 10.1' E	FI.R. period 10s				Radar reflector.
29564 D 7429.3	-South pier, N. head.	26° 38.3' N 50° 10.2' E	FI.Y. period 10s				
29568 D 7429.2	--Beacon, S. head.	26° 38.2' N 50° 10.2' E	FI.Y. period 10s				
29572 D 7428.4	-Sea Island, No 15, N. end.	26° 40.5' N 50° 11.0' E	FR.	29 9		Dolphin.	F.R. lights on crane 1.3 miles S.
29573 D 7428.45	--No 1, S. end.	26° 39.6' N 50° 11.0' E	FR.	29 9		Dolphin.	
29576 D 7429	--S. end.	26° 37.6' N 50° 09.8' E	FI.W. period 10s fl. 1s, ec. 9s			Black metal framework tower, white band; 49.	1 FI.R. light on tower close N.
AD DAMMAM:							
29580 D 7431	-Abd al Aziz Port, Najwah Shoal.	26° 34.2' N 50° 14.5' E	FI.W.R. period 10s	36 11	W. 10 R. 7	White framework tower, red bands.	W. 015°-206°, R.-015°.
29584 D 7432	-No 1 Range, front.	26° 30.0' N 50° 13.5' E	Q.W.	46 14	7	White framework tower, red bands.	Visible 131°-145°.
29588 D 7432.1	--Rear, No 2, 370 meters 138° from front.	26° 29.9' N 50° 13.7' E	FI.W. period 4s	82 25	7	White framework tower, red bands.	Visible 131°-145°.
			FI.(2)W. period 5s				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29592 D 7432.4	-W. mole, NE. corner.	26° 31.5' N 50° 11.9' E	Fl.G. period 5s			Green and white pillar.	
29596 D 7432.8	--Berth 38.	26° 29.8' N 50° 11.4' E	Fl.W. period 4s			Green and white beacon.	
29600 D 7433	-Center mole, NW. corner.	26° 30.9' N 50° 11.9' E	Fl.(2)W.R.G. period 9s			Green and white beacon.	W. 149°-256°, R.-042°, G.-149°.
29604 D 7433.2	--NE. corner.	26° 30.6' N 50° 12.4' E	Fl.W. period 4s			Green and white beacon.	
29608 D 7433.4	-E. mole, NW. corner.	26° 30.2' N 50° 12.5' E	Fl.(4)W.R.G. period 10s			Green and white beacon.	W. 157°-260°, R.-072°, G.-157°.
29612 D 7433.5	--NE. corner.	26° 30.1' N 50° 12.7' E	Fl.(2)G. period 10s			Green and white beacon.	
29616 D 7434.4	-Small craft harbor pier.	26° 29.0' N 50° 12.0' E	Fl.(3)W. period 10s			Green and white beacon.	
29616.4 D 7434.25	--No 4.	26° 29.3' N 50° 12.7' E	Fl.(2)R. period 4s			Red beacon.	
29616.6 D 7434.3	--No 6.	26° 29.0' N 50° 12.7' E	Fl.(2)R. period 10s			Red beacon.	
29620	<i>Five Fathom Patch Lighted Buoy.</i>	26° 31.0' N 51° 18.0' E	Fl.(2)W. period 12s			ISOLATED DANGER BRB, pillar, topmark.	
29636 D 7398	Fasht ad-Dibal.	26° 17.4' N 50° 57.5' E	Q.W.	12 4	7	Metal pedestal, concrete base.	
29640 D 7398.4	Fasht ad-Dibal, E. side.	26° 16.7' N 50° 58.7' E	Fl.(2)W. period 10s	13 4	7	Metal pedestal, concrete base.	
29642 D 7399.5	Jaww, SE.	25° 58.5' N 50° 37.7' E	F.R.			Red and white beacon.	
29644 D 7413	Fasht Al Jarim.	26° 32.6' N 50° 32.4' E	Fl.Y. period 5s		7	White beacon.	
29648 D 7414.7	-Khor Fasht, reef, NE. end.	26° 21.3' N 50° 27.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	12 4	7	Metal pedestal, concrete base.	
29649 D 7415	-Azizayah Channel.	26° 16.6' N 50° 21.0' E	Fl.G. period 5s			White beacon.	
29650 D 7415.2	--Range, front.	26° 16.3' N 50° 20.5' E	Q.W.			Red and white beacon.	
29650.5 D 7415.21	--Rear, 250 meters 248° from front.	26° 16.2' N 50° 20.4' E	Fl.W. period 3s	16 5		Red and white beacon.	
29656 D 7417	Saudi Arabia-Bahrain Causeway.	26° 13.2' N 50° 13.5' E	F.G.	23 7	5		R. lights on piles east side of spans, G. lights on piles west side of spans, visible 20° either side of a line at right angles to the bridge span. The piles are floodlit from above.
29660 D 7417.2	-Bridge No 3, W. side.	26° 12.1' N 50° 17.1' E	Oc.G. period 5s	16 5	5		Shown from either side. E. side marked by Oc.R. 5s on either side.
29664 D 7417.3	-Bridge No 4, W. side.	26° 10.9' N 50° 21.0' E	F.G.	23 7	5		Shown from either side. E. side marked by F.R. on either side.
29668 D 7417.4	-Bridge No 5, W. side.	26° 10.1' N 50° 25.7' E	F.G.	23 7	5		Shown from either side. E. side marked by F.R. on either side.
29672 D 7417.5	-Channel beacon, No 1.	26° 12.9' N 50° 17.5' E	Fl.G. period 4s	16 5	5	Beacon.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29676 <i>D 7417.6</i>	-Channel beacon, No 2.	26° 12.9' N 50° 17.6' E	Fl.R. period 4s	16 5	5	Beacon.	Radar reflector.
29680 <i>D 7417.7</i>	-Channel beacon, No 3.	26° 12.5' N 50° 17.3' E	Fl.G. period 8s	16 5	5	Beacon.	Radar reflector.
29684 <i>D 7417.8</i>	-Channel beacon, No 4.	26° 12.5' N 50° 17.4' E	Fl.R. period 8s	16 5	5	Beacon.	Radar reflector.
29688 <i>D 7417.9</i>	-Channel beacon, No 5.	26° 11.7' N 50° 17.0' E	Fl.G. period 8s	16 5	5	Beacon.	Radar reflector.
29692 <i>D 7418</i>	-Channel beacon, No 6.	26° 11.7' N 50° 17.1' E	Fl.R. period 8s	16 5	5	Beacon.	Radar reflector.
29696 <i>D 7418.2</i>	-Channel beacon, No 7.	26° 11.3' N 50° 16.9' E	Fl.G. period 4s	16 5	5	Beacon.	Radar reflector.
29700 <i>D 7418.3</i>	-Channel beacon, No 8.	26° 11.3' N 50° 17.0' E	Fl.R. period 4s	16 5	5	Beacon.	Radar reflector.
29703.5 <i>D 7419.2</i>	-Beacon No 21.	26° 51.8' N 50° 08.8' E	Fl.G. period 5s				
29704 <i>D 7399</i>	Katah ad Jaradeh.	26° 10.5' N 50° 54.0' E	Fl.W. period 5s	10 3	8	Beacon.	
MINA SALMAN:							
29707 <i>D 7400.9</i>	-Kawkab Umm Al Sawali, water tower.	26° 13.3' N 50° 40.9' E	F.R.	148 45	10		
29709 <i>D 7400.95</i>	-Khalifa Port, breakwater.	26° 10.7' N 50° 42.8' E	F.G.	20 6	5		
29710	- <i>Sitrah Buoy.</i>	26° 10.4' N 50° 43.3' E	Q.(6)+L.Fl.W. period 15s			S. CARDINAL YB, pillar, topmark.	AIS (MMSI No 994081017).
	-RACON		X(- • • -)				(3 & 10cm).
29712 <i>D 7402</i>	S. Shoal beacon.	26° 09.5' N 50° 41.8' E	Fl.(2)R. period 4s	20 6		Framework beacon.	
29720 <i>D 7402.5</i>	--S. Range beacon.	26° 09.3' N 50° 41.0' E	Fl.R. period 4s fl. 0.2s, ec. 3.8s	20 6		Framework beacon; 23.	
29724 <i>D 7401</i>	-G.I.I.C. Range, front.	26° 11.6' N 50° 41.0' E	Q.W.	26 8	6	Framework tower, black triangular daymark point up, white stripes.	Visible 327°48'-337°48'.
29728 <i>D 7401.1</i>	--Rear, 190 meters 332°52' from front.	26° 11.7' N 50° 40.9' E	Q.(2)W. period 2s	49 15	6	Framework tower, white triangular daymark point up, double triangular daymark points together.	Visible 327°48'-337°48'.
29732 <i>D 7409</i>	-Jetty, S. head.	26° 07.3' N 50° 38.1' E	F.G.	13 4	1	Post.	
29736 <i>D 7409.2</i>	-S. breakwater, head.	26° 07.2' N 50° 38.1' E	2 F.R. (vert.)				
29737 <i>D 7409.5</i>	-Bahrain Yacht Club.	26° 06.8' N 50° 38.0' E	Q.W.	33 10	5		Q.G., Fl.G. 2s, Q.R. and Fl.R. 2s lights mark entrance.
29738 <i>D 7400</i>	-Hayyan.	26° 03.2' N 50° 39.0' E	Fl.W. period 3s	10 3	7	Red beacon.	
29738.5 <i>D 7399.3</i>	-Umm Jalid.	26° 01.1' N 50° 46.4' E	Fl.W. period 5s	16 5		Red beacon.	
29740 <i>D 7404</i>	-Range, front.	26° 11.0' N 50° 39.4' E	Q.W.	16 5		Metal tripod, aluminum triangular daymark point up; 13.	
29744 <i>D 7404.1</i>	--Rear, 370 meters 323°43' from front.	26° 11.2' N 50° 39.3' E	I.Q.W. period 8s fl. 3s, ec. 5s	29 9		Metal tripod, triangular daymark point up, double triangular daymark points together; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29746 D 7404.3	-Diwan Beacon.	26° 10.8' N 50° 39.7' E	Fl.G. period 2.5s	26 8		Green pile.	
29748 D 7404.5	-Range, front.	26° 11.7' N 50° 39.5' E	Q.W.	16 5		Metal tripod, aluminum triangular daymark point up; 13.	
29752 D 7404.51	--Rear, 835 meters 356°45' from front.	26° 12.2' N 50° 39.5' E	Q.(4)W. period 8s	30 9		Metal tripod, aluminum triangular daymark point down between two red triangular daymarks point up; 26.	
29754 D 7404.8	-Triad.	26° 11.2' N 50° 39.4' E	Q.R.	23 7		7 Red pile.	
29756 D 7405	-Range, front.	26° 11.3' N 50° 39.7' E	Q.W.	15 5		Dolphin, white triangular daymark point up.	
29760 D 7405.1	--Rear, 106°53' from front.	26° 11.2' N 50° 39.9' E	Q.(4)W. period 8s	30 9		Post, white triangular daymark point down.	
29764 D 7406	---287°03'.	26° 12.1' N 50° 36.6' E	Dir.W.R.G.	137 42		Silo.	V.Q.G. 283°54'-286°42', V.Q.W.-287°30', V.Q.R.- 290°12'.
29768 D 7407	Al Manamah, marina.	26° 14.3' N 50° 36.2' E	Fl.W. period 2s			Beacon.	Fl.R. 3s and Fl.G. 6s on breakwater 0.2 mile S.
29769 D 7407.6	Al Muharraq, boat harbor.	26° 14.2' N 50° 36.9' E	Fl.G. period 3s	13 4		Green and white post.	
29769.5 D 7407.7	--W. side of entrance.	26° 14.3' N 50° 36.7' E	Fl.R. period 10s			Red and white post, square daymark.	
29776 D 7410	-Ra's Zurawin.	26° 15.3' N 50° 33.5' E	Fl.R. period 2s	20 6		4 Metal structure, white base.	
29792 D 7395	Ra's Rakan.	26° 11.8' N 50° 13.2' E	Fl.W. period 5s fl. 1s, ec. 4s	45 14		18 Metal framework tower, piles; 45.	
29794 D 7394.5	Ra's Umm Hasah.	26° 06.1' N 51° 21.5' E	V.Q.(3)W. period 5s	39 12		10 White beacon.	
29796 D 7393.881	Ras Laffan, N. breakwater, head, RB1.	25° 55.6' N 51° 39.5' E	Q.G.	52 16		6 Beacon; 30.	
29796.03 D 7393.892	--Spur, SB2.	25° 55.8' N 51° 38.4' E	Fl.W. period 5s fl. 1s, ec. 4s	39 12		6 Beacon; 23.	
29796.05 D 7393.885	--Elbow, RB5.	25° 56.5' N 51° 37.6' E	Fl.W. period 2s	52 16		6 Beacon; 30.	Visible 090°-300°.
29796.1 D 7393.882	-Detached breakwater, N. head, RB2.	25° 55.3' N 51° 39.2' E	Fl.R. period 2s	49 15		6 Beacon; 30.	
29796.15 D 7393.883	--S. head, RB3.	25° 54.8' N 51° 39.3' E	Fl.G. period 3s	49 15		6 Beacon; 30.	
29796.17 D 7393.891	-S. breakwater, head, SB1.	25° 54.6' N 51° 39.2' E	Fl.R. period 3s fl. 0.4s, ec. 2.6s	43 13		6 Beacon; 23.	
29796.2 D 7393.884	--Spur, RB4.	25° 54.5' N 51° 39.5' E	Fl.R. period 2s	46 14		6 Beacon; 30.	
29796.25 D 7393.886	--Elbow, RB6.	25° 54.0' N 51° 39.6' E	Fl.W. period 2s	52 16		6 Beacon; 30.	
29796.3 D 7393.887	--RB7.	25° 53.3' N 51° 38.5' E	Fl.W. period 2s	49 15		6 Beacon; 30.	Visible 240°-060°.
29796.35 D 7393.975	-Doha Dock, head, JB5.	25° 55.8' N 51° 37.2' E	Q.G.	39 12		3 Beacon; 16.	
29796.4 D 7393.893	-Wakra Dock, Liquid Products Berth, breakwater, head, SB3.	25° 55.0' N 51° 38.2' E	Oc.G. period 3s lt. 2s, ec. 1s	43 13		6 Beacon; 23.	

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PERSIAN GULF							
29796.45 <i>D 7393.894</i>	--Elbow, SB4.	25° 55.4' N 51° 38.0' E	Oc.W. period 3s lt. 2s, ec. 1s	43 13	6	Beacon; 23.	
29796.46 <i>D 7393.895</i>	---SB5.	25° 55.5' N 51° 37.5' E	Iso.R. period 3s	33 10	6	Beacon; 23.	
29796.47 <i>D 7393.898</i>	---Spur, SB8.	25° 54.9' N 51° 37.0' E	Oc.G. period 5s lt. 3s, ec. 2s	33 10	6	Beacon; 23.	
29796.48 <i>D 7393.9005</i>	--Container Terminal, breakwater, spur, SB9.	25° 54.6' N 51° 37.1' E	Oc.R. period 5s lt. 3s, ec. 2s	33 10	6	Beacon; 23.	Q.G. 3M lights mark berth 1200 meters E. Q.R. 3M lights mark Rayyan Dock 1870 meters SE.
29796.5 <i>D 7393.9</i>	--Range, front, FL2.	25° 55.0' N 51° 36.9' E	V.Q.W.		15		Reserve light V.Q.W.
29796.51 <i>D 7393.9001</i>	---Rear, 279° from front, RL2.	25° 55.1' N 51° 36.5' E	V.Q.W.		15		Reserve light V.Q.W.
29796.6 <i>D 7393.95</i>	-Al-Khor Dock, S. breakwater, SB6.	25° 55.5' N 51° 37.1' E	Fl.R. period 5s fl. 0.3s, ec. 4.7s	43 13	6	Beacon; 23.	Fl.R. 2s lights mark 3 Liquid Petroleum Berths close W. 2 Q.G. lights mark Cargo Berths 106 and 107 1500 meters W. 3 Q.G. lights mark Service Berths Pier 2300 meters W. Q.G. light mark Service Berth Jetty 2050 meters W.
29796.65 <i>D 7393.97</i>	--N. breakwater, SB7.	25° 55.8' N 51° 37.2' E	Fl.G. period 5s fl. 0.3s, ec. 4.7s	36 11	6	Beacon; 23.	Q.Y. marks LNG Berth No. 1 1950 meters W. Q.G. marks SE end of Cargo Berth 1480 meters SW. Q.R. marks NW end of Cargo Berth 1720 meters W.
29796.7 <i>D 7393.92</i>	--Range, front, FLE.	25° 55.8' N 51° 36.0' E	Q.R.	36 11	8	White beacon, orange triangular daymark point up.	
29796.71 <i>D 7393.93</i>	---Rear, 900 meters 278° from front, RLE.	25° 55.8' N 51° 35.5' E	Q.R.	72 22	8	White beacon, orange triangular daymark point down.	R. lights on flare towers 60 meters 0.6 mile NE., 72 meters 0.9 mile SW., 136 meters 4 miles SW. and 169 meters 0.3 miles NE.
29796.8 <i>D 7393.91</i>	--Range, front, FL1.	25° 55.9' N 51° 35.8' E	V.Q.W.		15		Reserve light V.Q.W.
29796.81 <i>D 7393.911</i>	---Rear, 875 meters 279° from front, RL1.	25° 55.9' N 51° 35.3' E	V.Q.W.		15		Reserve light V.Q.W.
29800 <i>D 7383</i>	Sharaiwah.	25° 02.9' N 52° 13.3' E	Fl.Y. period 10s			Beacon; 13.	
29804 <i>D 7384</i>	Al Ashat.	24° 44.6' N 51° 35.6' E	Fl.W. period 4s			Beacon; 13.	
29805 <i>D 7384.3</i>	Al Qaffay, E.	24° 34.4' N 51° 43.9' E	Fl.W. period 9s				
29805.1 <i>D 7384.4</i>	-Breakwater, E.	24° 34.6' N 51° 43.8' E	Fl.R.				
29805.2 <i>D 7384.5</i>	--W.	24° 34.6' N 51° 43.7' E	Fl.G. period 9s				
29806 <i>D 7384.05</i>	Jazirat Huwaysat, N.	24° 24.2' N 51° 30.4' E	Q.W.	39 12	5	Beacon.	
29806.1 <i>D 7384.1</i>	-S.	24° 23.5' N 51° 30.2' E	Q.W.	39 12	5	Beacon.	
29808	<i>Qatar Buoy.</i>	25° 40.1' N 51° 56.5' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	Radar reflector.
	RACON		Q(- - -)		16		(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29812 D 7393	Ra's al Matbakh.	25° 40.9' N 51° 34.7' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	55 17	W. 21 R. 18	Tripod; 36.	R. 275°-290° over Fasht Ard an Nawt, W.-275°.
29814 D 7384.65	Yasat Ali.	24° 22.4' N 52° 00.9' E	Fl.W.R. period 10s fl. 0.2s, ec. 9.8s	98 30	W. 20 R. 16	Yellow tower, multi piled base, jetty; 105.	W.185°-350°, R.-185°. Q.R. and Q.G. lights are shown on jetty at the base of Yasat Ali. AIS (MMSI No 994701040). Reserve light range 12/10.
	Range light.		Fl.G. period 10s fl. 1s, ec. 9s	98 30	14		Visible 225°-231°.
29816 D 7378	Halul.	25° 40.4' N 52° 24.6' E	Fl.W.R. period 12s	220 67	W. 19 R. 9	Black lantern, white base; 16.	W. 030°-300°, R.-030° over pipeline area.
29820 D 7378.2	-AVIATION LIGHT.	25° 40.1' N 52° 24.5' E	Al.Fl.W.G.				
29822 D 9206.9	Platform DP1.	25° 56.5' N 52° 41.5' E	4 Mo.(U)W. period 15s		10		
29836 D 7367	Zaqqum Buoy.	25° 06.6' N 53° 25.1' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	Radar reflector.
	RACON		Z(- - • •)		16		(3 & 10cm).
29843 D 7375.6	Das Island, W. end, off shore.	25° 08.5' N 52° 48.5' E	Mo.(U)W. period 15s	39 12	10	Well head tower.	Horn: Mo.(U) ev. 30s.
29848.2 D 7375.7	-Loading Platform No 2, N. end.	25° 08.8' N 52° 53.3' E	2 F.G. (vert.)	56 17			
29848.4 D 7375.8	--S. end.	25° 08.5' N 52° 53.4' E	2 F.G. (vert.)	56 17			
29849.2 D 7376.2	--S. end.	25° 09.4' N 52° 53.2' E	2 F.G. (vert.)	62 19	2		F.R. marks N. and S. end of pier. 2 F.R. (vert.) marks N. and S. end of sulphur berth 0.5 mile S.
29849.4 D 7376.3	--N. end.	25° 09.5' N 52° 53.2' E	2 F.G. (vert.)	52 16	2		
29850 D 7376.6	-Oil Loading Terminal, SBM.	25° 09.0' N 52° 54.1' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s		4	Green, red, blue and yellow quarters, black top.	Radar reflector.
29868 D 7366.6	Qarnayn Island.	24° 56.3' N 52° 50.9' E	Fl.W. period 5s	194 59	8		
29872 D 7366	Zirkuh Island.	24° 53.1' N 53° 04.2' E	Fl.W. period 10s fl. 1s, ec. 9s	653 199	18	NE corner of radio mast.	Visible 025°-000°.
	RACON		B(- • • •)		16		(3 & 10cm).
29876 D 7366.3	-Zarqa Sea intake.	24° 53.0' N 53° 05.4' E	V.Q.(3)W. period 5s	30 9	9	E. CARDINAL BYB, beacon, topmark.	
29880 D 7366.2	-Jetty, head.	24° 52.4' N 53° 05.6' E	F.Fl.G. period 10s fl. 1s, ec. 9s	33 10	F. 7 Fl. 9		Visible 150°-070°.
29881 D 7366.4	-E. of small craft anchorage.	24° 51.2' N 53° 07.4' E	Fl.(2+1)W. period 15s		10	Platform.	Effluent water disposal platform. Horn: 2 bl. ev. 18s.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
DOHA:							
29892	-LIGHTSHIP	25° 16.4' N 51° 45.1' E	Mo.(D)W. period 12s	19 6	8	Red hull and tower.	Inner and outer channel marked by lit buoys and beacons.
	-RACON		D(- • •) period 48s		16		(3 & 10cm).
29893 D 7389.2	-Island S. of outer channel, NW. point.	25° 17.9' N 51° 38.5' E	Q.R.	23 7		Beacon.	
29893.5 D 7389.4	--SE. point.	25° 17.6' N 51° 38.7' E	Q.R.	23 7		Beacon.	
29899 D 7390.8	-Container Terminal.	25° 18.4' N 51° 33.2' E	F.W.R.G.	33 10	W. 19 R. 16 G. 16	Red metal pole, white bands; 20.	G. 330°-332°30', W.-337°30', R. 340°. Shown 24 hours. Reserve by day 3/1M.
29900 D 7390.9	-Jetty, N. outer corner.	25° 18.3' N 51° 33.1' E	Fl.(2)R. period 6s				
29904 D 7390.95	--S. outer corner.	25° 17.7' N 51° 33.4' E	Fl.G. period 3s				Fl.(2)R. 5s and Fl.G. 3s mark Naval Harbor breakwater heads 1.15 miles 075°. Fl.G. 3s on beacon 0.9 mile E.
29905 D 7391.6	-Diplomatic Area.	25° 19.6' N 51° 32.9' E	Q.(3)G. period 5s			Beacon.	Beacon Fl.R. 3s 0.3 mile W.
29908.1 D 7388.66	Umm al Hul, N. breakwater.	25° 03.9' N 51° 37.6' E	Fl.(3)G. period 10s				
29908.2 D 7388.65	-S. breakwater.	25° 03.8' N 51° 37.3' E	Fl.(3)R. period 10s				
29912 D 7382	Halat Umm Al Khayfan.	25° 09.1' N 51° 57.6' E	Fl.(2)W. period 20s	43 13	18	White fiberglass tower, red stripes.	
UMM SA'ID:							
29914	-Mishut Lighted Buoy.	25° 16.0' N 51° 46.8' E	Q.(9)W. period 15s			W. CARDINAL YBY, pillar, topmark.	
29915	-Wakrah Lighted Buoy.	25° 09.3' N 51° 41.9' E	V.Q.(9)W. period 10s			W. CARDINAL YBY, pillar, topmark.	
29916	-Hul Lighted Buoy.	25° 02.9' N 51° 41.9' E	Q.(9)W. period 15s			W. CARDINAL YBY, pillar, topmark.	The channel east of Fajht Al Arrif Shoals marked by lighted buoys.
	-RACON		T(-)		10		(3 & 10cm).
29918 D 7384.9	-Fasht Al Arif.	24° 55.0' N 51° 41.6' E	Q.Y.		2	Beacon.	
29920	-SE. Arif Lighted Buoy.	24° 54.0' N 51° 43.0' E	V.Q.(3)W. period 5s			E. CARDINAL BYB, pillar, topmark.	
	RACON		B(- • • •) period 48s				(3cm).
29924	-S. Arif Lighted Buoy.	24° 51.0' N 51° 41.0' E	V.Q.(6)+L.Fl.W. period 10s			S. CARDINAL YB, pillar, topmark.	The channel SW. of Fajht Al Arrif Shoals is marked by lighted buoys.
29928	-Turning Lighted Buoy.	24° 54.8' N 51° 39.2' E	V.Q.W.			N. CARDINAL BY, pillar, topmark.	
29930 D 7387.7	Umm Said, boat harbor, W. side.	24° 56.5' N 51° 35.0' E	Fl.W. period 3s				2 meters apart.
F.R.							

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29930.2 <i>D 7387.8</i>	-E. side.	24° 56.4' N 51° 35.0' E	F.R.				
29932 <i>D 7385</i>	-QAFCO, jetty, head.	24° 55.0' N 51° 34.5' E	Oc.R. period 5.5s		13 4		
29934 <i>D 7385.2</i>	--S.	24° 54.7' N 51° 34.4' E	Oc.R. period 5.5s		13 4		
29944 <i>D 7385.4</i>	-LPG, jetty.	24° 54.1' N 51° 33.4' E	F.R.			Red diamond daymark, white stripes.	Mo.(U)W. marks end of pipeline 0.9 mile SSE. F.W. on dolphin 560 meters E. F.R. on dolphin 850 meters NE.
29945 <i>D 7385.6</i>	-Gas Liquids Plant.	24° 54.3' N 51° 33.6' E	F.G.			Beacon, round daymark.	
29948	-North Berth Buoy.	24° 53.7' N 51° 35.0' E	Fl.W. period 3s		5	Orange single point mooring buoy.	
29952 <i>D 7368</i>	<i>Creagh Shoal Buoy.</i>	24° 43.1' N 52° 43.0' E	Q.(9)W. period 15s			W. CARDINAL YBY, pillar, topmark.	
	RACON		C(- • - •)		16		(3 & 10cm).
29953 <i>D 7368.2</i>	-Jazirat Arzanah, jetty, head.	24° 46.6' N 52° 34.0' E	Iso.Y. period 3s				L.Fl.W. 5s light also marks jetty.
29953.1 <i>D 7368.4</i>	--Harbor Entrance.	24° 46.1' N 52° 33.9' E	Iso.W. period 3s				
29956 <i>D 7369</i>	<i>Dalma Light Buoy.</i>	24° 32.4' N 52° 27.7' E	Q.(9)W. period 15s			W. CARDINAL YBY, pillar, topmark.	
	RACON		N(- •)		16		(3 & 10cm).
29960	<i>Gasha Light Buoy.</i>	24° 25.8' N 52° 34.5' E	Q.(9)W. period 15s			W. CARDINAL YBY, pillar, topmark.	
29964 <i>D 7370</i>	Price Shoal.	24° 17.5' N 52° 42.2' E	Fl.W. period 5s		39 12	14 Red metal pile, white lantern.	
	RACON		T(-)		20		(3 & 10cm).
29968 <i>D 7370.4</i>	South Alaq.	24° 13.9' N 52° 41.6' E	Fl.W. period 5s		22 7	8 White metal framework tower, red bands.	
29991 <i>D 7371.35</i>	<i>Az Zannah, Berth 2.</i>	24° 12.8' N 52° 40.4' E	Mo.(U)W. period 15s			Yellow SBM.	Horn: Mo.(U) ev. 30s.
29994 <i>D 7371.4</i>	-SBM.	24° 12.1' N 52° 41.3' E	Mo.(U)W. period 15s		3		Horn: Mo.(U) ev. 30s.
30004 <i>D 7371.7</i>	Az Zannah, jetty.	24° 11.4' N 52° 37.8' E	2 V.Q.R. (vert.)		3		2 meters apart.
30006 <i>D 7372</i>	Ar Ruways, Liquid Products, Jetty, NW. head.	24° 10.6' N 52° 42.6' E	2 F.G. (vert.)				2 F.G. (vert.) marks SE. end.
30006.4 <i>D 7372.2</i>	-Coastal Tanker, jetty, head.	24° 09.7' N 52° 42.7' E	2 F.R. (vert.)				
30006.8 <i>D 7372.4</i>	-LNG, jetty, NW. head.	24° 10.0' N 52° 43.3' E	2 F.G. (vert.)				2 F.G. (vert.) marks SE. end.
30008	<i>Mubarraz Approach Lighted Buoy.</i>	24° 56.9' N 53° 18.4' E	Fl.R. period 5s			Red buoy.	Channel to oil terminal marked by lighted buoys.
30013 <i>D 7365.2</i>	-Fishing Harbor, N. breakwater, head.	25° 13.2' N 54° 14.4' E	Fl.G. period 5s fl. 1s, ec. 4s	23 7	5	Metal post; 7.	
30013.5 <i>D 7365.3</i>	--S. breakwater, head.	25° 13.2' N 54° 14.4' E	Fl.R. period 5s fl. 1s, ec. 4s	23 7	5	Metal post; 7.	
30015 <i>D 7364.8</i>	Crescent Island.	25° 18.7' N 54° 39.6' E	Fl.W. period 10s	36 11	11	Metal post.	Island marked by 6 FL Y 3M lights.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
30020 <i>D 7363</i>	Abu Dhabi, Mina Zayid, W. breakwater, head.	24° 32.4' N 54° 23.0' E	Iso.Y. period 6s			Black column, white bands.	
30021 <i>D 7363.08</i>	--Silo.	24° 32.2' N 54° 23.0' E	Iso.W. period 6s	230 70	17		
30024 <i>D 7363.2</i>	--Sadiyat, E. breakwater, head.	24° 32.4' N 54° 23.6' E	Fl.Y. period 4s				
30028 <i>D 7363.3</i>	--SW. breakwater, head.	24° 31.9' N 54° 23.4' E	Oc.W. period 7s lt. 4.5s, ec. 2.5s				Fl.W. 4s marks SE. corner. Fl.Y. 4s on each of 4 overhead power cable pylons 1.2 miles SE.
30032 <i>D 7363.5</i>	-NW. breakwater, elbow.	24° 31.4' N 54° 21.8' E	Q.W.	23 7			
30036 <i>D 7363.6</i>	--SW. corner.	24° 31.0' N 54° 21.6' E	Oc.R. period 16s	23 7			
30037 <i>D 7363.7</i>	-Corniche Island, Offshore breakwater,N. head.	24° 31.2' N 54° 21.5' E	Oc.G. period 16s	20 6			Channel to Dhow Harbor marked by lighted beacons.
30038 <i>D 7363.75</i>	--S. end, Marina breakwater, head.	24° 28.7' N 54° 19.9' E	Q.W.				
30040 <i>D 7364</i>	-Khor Bateen, W. breakwater, head.	24° 28.6' N 54° 18.0' E	Fl.W. period 3s			Beacon.	
30044 <i>D 7364.2</i>	--E. breakwater, head.	24° 28.1' N 54° 18.2' E	Fl.W. period 3s			Beacon.	
30045 <i>D 7363.74</i>	-Batin, Khawr Al. Bridge.	24° 25.5' N 54° 22.0' E	F.R.				
30046 <i>D 7363.745</i>	--Khawr Al. Bridge.	24° 25.4' N 54° 21.9' E	F.G.				
30052 <i>D 7360.4</i>	W. training wall, head.	25° 01.2' N 55° 02.3' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	46 14	8	Tower.	
30056 <i>D 7360.5</i>	E. training wall, head.	25° 01.2' N 55° 02.6' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	46 14	8	Tower.	
30060 <i>D 7360.8</i>	Hassah Marina, breakwater.	24° 59.8' N 55° 01.9' E	Al.W.R. period 2s	33 10	8	White tower, red band.	
30062 <i>D 7361</i>	Jabal Ali Hotel Marina.	24° 59.5' N 55° 01.6' E	Al.W.R. period 2s		8		
30064 <i>D 7360</i>	Mina Jebal Ali, AVIATION LIGHT.	25° 01.1' N 55° 04.4' E	Oc.R. period 3s	102 31	20	Flare stack.	
30068 <i>D 7360.2</i>	-AVIATION LIGHT.	25° 01.2' N 55° 04.5' E	Oc.R. period 3s	190 58	20	Flare stack.	
30070 <i>D 7360.22</i>	-AVIATION LIGHT.	25° 01.2' N 55° 04.5' E	Oc.R. period 3s	190 58	20	Flare stack.	
30071 <i>D 7360.6</i>	-Aluminum Plant, breakwater, elbow.	25° 01.9' N 55° 04.9' E	Fl.(2)G. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	20 6	5	Green column, white bands.	
30071.1 <i>D 7360.65</i>	--Breakwater, head.	25° 01.9' N 55° 05.0' E	Fl.Y. period 5s fl. 1s, ec. 4s	20 6	7	SPECIAL Y, column, "X" topmark.	
30071.7 <i>D 7358.21</i>	-Dubai Marina.	25° 04.4' N 55° 07.4' E	Fl.(5)G. period 20s	23 7	5	White metal post; 7.	Iso.G. 7m 2M and Iso.R. 7m 2M mark breakwaters.
30072 <i>D 7358</i>	Mina Sahayah Fishing Harbor.	25° 05.5' N 55° 08.5' E	Fl.(3)W. period 10s		2		
30074 <i>D 7357.75</i>	Chicago Beach, main breakwater.	25° 08.7' N 55° 11.3' E	Oc.G.		5		Fl.R. marks lee breakwater. W. and R. lights mark hotels.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
30076 D 7357.4	Maz Gam Fishing Harbor, breakwater.	25° 09.3' N 55° 11.8' E	Fl.(3)G. period 20s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 15s			STARBOARD (A) G, beacon, topmark.	
30080 D 7357.3	Umm Suqaym Fishing Harbor, breakwater.	25° 10.6' N 55° 12.9' E	Fl.G. period 5s		4		
30081 D 7357.2	Al Rais.	25° 12.3' N 55° 14.2' E	Q.G.			STARBOARD (A) G, beacon, topmark.	
30081.5 D 7356.8	Detached breakwater, N. head.	25° 13.7' N 55° 15.2' E	Fl.(5)G. period 20s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 11s			STARBOARD (A) G, beacon, topmark.	Q.G. marks S. head.
30082 D 7356.7	T-head breakwater, N. head.	25° 13.8' N 55° 15.4' E	Fl.(6)G. period 20s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 9s			STARBOARD (A) G, beacon, topmark.	Q.G. marks S. head.
30082.5 D 7356.6	Beach Club, breakwater.	25° 14.0' N 55° 15.5' E	Q.G.			STARBOARD (A) G, beacon, topmark.	
30084 D 7357	Jumerah Fishing Harbor, breakwater.	25° 12.8' N 55° 14.6' E	Fl.G. period 10s			STARBOARD (A) G, beacon, topmark.	Fl.G. 10s marks spur.
30088 D 7353	Ajman, N. training wall, head.	25° 25.8' N 55° 26.6' E	Fl.R. period 5s	13 4	3	Red framework tower.	
30092 D 7353.2	-S. training wall, head.	25° 25.8' N 55° 26.5' E	Fl.W. period 2s	13 4	5	Green framework tower.	
30094 D 7353.5	Al Hayrah, N. breakwater, head.	25° 23.5' N 55° 24.7' E	Fl.G. period 5s fl. 1.5s, ec. 3.5s		16 5	Framework tower; 7.	
30094.5 D 7353.6	-S. breakwater, head.	25° 23.4' N 55° 24.7' E	Fl.R. period 5s fl. 1.5s, ec. 3.5s		16 5	Framework tower; 7.	
DUBAYY:							
30098	-Approach buoy.	25° 18.5' N 55° 10.0' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	
	-RACON		T(-)		11		(3 & 10cm).
30100 D 7355.6	-Mina Rashid, Dubai Maritime City, E. wall.	25° 16.5' N 55° 16.0' E	Q.W.	16 5	5	Orange rectangular daymark, green triangular daymark point up; 16.	
30108 D 7355.7	-Main breakwater, head.	25° 16.9' N 55° 16.0' E	Fl.G. period 5s	43 13	5	White round structure, black bands.	4 F.Y. 8m 3M lights mark breakwater.
30110 D 7355.8	-E. breakwater, head.	25° 16.8' N 55° 16.2' E	V.Q.R.	26 8	3	Metal post.	4 F.Y. 8m 3M mark E. breakwater.
30115 D 7355.77	-Dubai Dry Docks, W. breakwater, head.	25° 16.2' N 55° 15.0' E	Fl.G. period 5s		3	Green beacon.	8 F.Y. marks W. breakwater.
30117 D 7356.512	--Finger Quay, outer dolphin.	25° 15.3' N 55° 16.1' E	F.R.	20 6	3	Dolphin.	F.R. mark dolphins off head. Numerous F.R. and F.G. lights mark dry docks and associated dolphins.
30120 D 7355.2	-Khaver Dubayy, outer channel, W. side.	25° 16.9' N 55° 17.5' E	Fl.W. period 3s	16 5	10		
30121 D 7355.3	--Entrance, W. side.	25° 16.5' N 55° 17.6' E	F.G.	10 3	3	Dolphin; 10.	Numerous lights exist along the banks of the creek.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
30121.5 <i>D 7355.32</i>	--E. side.	25° 16.5' N 55° 17.7' E	Fl.R. period 5s	10	3	Dolphin; 10.	
30124 <i>D 7355.4</i>	--Inner harbor.	25° 15.9' N 55° 17.6' E	F.W.R. (vert.)				Occasional.
ASH SHARIQAH:							
30132 <i>D 7354</i>	-Main breakwater, head.	25° 22.2' N 55° 22.1' E	Fl.W. period 3s	49	7	Black and white metal framework tower; 39.	
30132.5 <i>D 7354.2</i>	-Lee breakwater, head.	25° 22.0' N 55° 22.2' E	Fl.R. period 3s	49	7	Red and white metal framework tower; 39.	F.R. on chimneys S. F.R. and F.W. on radio towers SE.
30133 <i>D 7354.4</i>	-W. breakwater, head.	25° 22.7' N 55° 23.3' E	Q.G.				
30133.5 <i>D 7354.5</i>	-E. breakwater, head.	25° 22.6' N 55° 23.4' E	Q.R.				
30134 <i>D 7354.7</i>	-W. interior breakwater, head.	25° 22.4' N 55° 23.3' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s				
30134.5 <i>D 7354.8</i>	-E. interior breakwater, head.	25° 22.5' N 55° 23.4' E	Q.(2)R. period 5s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 3.7s				
30137 <i>D 7354.9</i>	Al Hamiriyah Fishing Harbor, W. breakwater.	25° 18.0' N 55° 19.8' E	Fl.W. period 5s	10	2		
30138 <i>D 7354.92</i>	-E. breakwater.	25° 18.0' N 55° 19.8' E	Fl.R. period 3s	10	1		
30140 <i>D 7351</i>	Amoco Sharjah SBM.	25° 34.6' N 55° 24.2' E	Mo.(U)W. period 37s		6	Superbuoy.	
	RACON		Z(- - • •) period 48s		18		(3cm).
30141 <i>D 7351.4</i>	Hamriyah, N. breakwater, head.	25° 28.5' N 55° 28.9' E	Iso.R. period 2s	56	5	Framework tower; 39.	
30141.2 <i>D 7351.5</i>	-S. breakwater, head.	25° 28.7' N 55° 28.7' E	Fl.G. period 10s fl. 1s, ec. 9s	56	5	Framework tower; 39.	
30141.6 <i>D 7351.8</i>	-N. training wall.	25° 28.9' N 55° 29.5' E	Iso.R. period 4s	16	5	Tower; 7.	
30141.8 <i>D 7351.85</i>	-S. training wall.	25° 28.9' N 55° 29.4' E	Iso.G. period 4s	16	5	Tower; 7.	
30152 <i>D 7345</i>	Mina Saqr Harbor, main breakwater.	25° 58.9' N 56° 02.8' E	Fl.(2)W. period 10s	16	9	Black beacon; 10.	
30153 <i>D 7345.5</i>	-Entrance.	25° 58.4' N 56° 02.9' E	Oc.W.R.G. period 3s	69	W. 12 R. 10 G. 11	White framework tower, red bands; 66.	G. 171°-173°30', W.-177°30', R.-180°.
			Fl.R. period 3s	72			
30156 <i>D 7345.2</i>	-Lee Breakwater.	25° 58.8' N 56° 03.0' E	Fl.(2)R. period 10s	23	10	Pillar; 10.	
30157 <i>D 7345.05</i>	--Elbow.	25° 58.8' N 56° 02.9' E	Fl.G. period 3s	7	5		Visible 165°-017°.
30158 <i>D 9192</i>	Bukha A Platform.	26° 14.7' N 56° 03.3' E	Mo.(U)W. period 15s		10		Horn: Mo.(U) 30s.
	RACON		B(- • • •)		18		(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
30160 <i>D 7336</i>	Ra's Shaykh Mas'ud.	26° 15.3' N 56° 12.8' E	Fl.W. period 5s	62 19	10		Visible 065°-297°.
30161 <i>D 7336.2</i>	-Khasab, breakwater, head.	26° 12.6' N 56° 15.0' E	Fl.G. period 5s			3 Gray metal post.	Fl.R. 5s 3M marks groin close S.

Section 19

Red Sea, Gulf of Aden and Arabian Sea

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
BAHR EL QULZUM (SUEZ BAY):							
Port Ibrahim:							
30196 <i>D 7297.24</i>	--N. Mole, head.	29° 56.2' N 32° 33.4' E	F.R.	26 8	4	White tower, black bands.	
30200 <i>D 7297.25</i>	--S. mole, head.	29° 56.2' N 32° 33.4' E	F.G.	26 8	4	White tower, black bands.	
30204 <i>D 7297.26</i>	--Range, front.	29° 56.3' N 32° 33.5' E	F.W.	39 12	6	Black and white framework tower.	
30208 <i>D 7297.27</i>	--Rear, 200 meters 060° from front.	29° 56.4' N 32° 33.6' E	F.W.R. (vert.)	82 25	W. 10 R. 6	Black and white framework tower.	6 meters apart.
30212 <i>D 7297.23</i>	--Detached breakwater, E. head.	29° 56.2' N 32° 33.2' E	Q.W.	26 8	5	Black and white metal structure.	
30216 <i>D 7297.22</i>	---W. head.	29° 56.2' N 32° 32.6' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	5	Black and white metal beacon.	
30217 <i>D 7297.18</i>	--El Mina el Gedida.	29° 56.4' N 32° 32.4' E	Fl.R.				
30220 <i>D 7297.19</i>	--Petroleum Basin, E. arm of basin, S. head.	29° 57.1' N 32° 32.0' E	F.G.				
30224 <i>D 7297.2</i>	--Petroleum Basin Range, front.	29° 57.3' N 32° 31.8' E	Oc.R.	23 7		Mast.	Shown when ships are entering or leaving the basin.
30228 <i>D 7297.21</i>	---Rear, 130 meters 334° from front.	29° 57.4' N 32° 31.8' E	2 Oc.R. (vert.)	42 13		Mast.	2 meters apart. Shown when ships are entering or leaving the basin.
30229 <i>D 7297.16</i>	-Oil berth.	29° 55.0' N 32° 30.7' E	Mo.(U)W. period 15s				
30230 <i>D 7297.28</i>	-- Birket Misallat.	29° 54.4' N 32° 35.6' E	Fl.W. period 3s	138 42	18	Metal framework tower, white daymark; 128.	
	--RACON		Z(- - • •)				(3 & 10cm).
30232 <i>D 7297.17</i>	-Qal'a Kebira, Green Island, off S. end.	29° 54.6' N 32° 31.8' E	Q.W.	75 23		Metal framework tower.	
30236 <i>D 7297.29</i>	-Newport Rock.	29° 53.1' N 32° 33.1' E	Fl.W. period 5s	56 17	10	Tripod, three-pile structure; 30.	
30238 <i>D 7297.1</i>	-Mansiya Reef.	29° 52.9' N 32° 30.4' E	Fl.R. period 4s	20 6		Tripod, three-pile structure; 30.	
30240 <i>D 7297.11</i>	-Ataqa Reef.	29° 53.1' N 32° 29.4' E	Oc.G. period 3s	35 11	3	White framework tower, black bands.	
30242 <i>D 7297.14</i>	Ataqa Harbor, breakwater, NE. head.	29° 53.9' N 32° 27.9' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s			Red post.	
30242.2 <i>D 7297.13</i>	-SW. head.	29° 53.8' N 32° 27.8' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s			Green post.	
30242.4 <i>D 7297.12</i>	-Jetty.	29° 53.8' N 32° 27.7' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s			Red post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30242.5 D 7297.15	-Outer mole, head.	29° 53.9' N 32° 28.0' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s			Green post.	
KHALIJ AS SUWAYS (GULF OF SUEZ):							
30244 D 7297.09	-Ras Muhaggara.	29° 48.6' N 32° 28.2' E	Fl.(4)W. period 15s	141 43	18	Framework tower; 128.	
	-RACON		Y(- • - -)				(3 & 10cm).
30246	-Conry Rock lightfloat.	29° 48.1' N 32° 34.2' E	Q.(9)W. period 15s	19 6	9	W. CARDINAL YBY, topmark.	
30248 D 7297.3	-Qadd el Tawila.	29° 47.8' N 32° 38.4' E	Fl.W. period 10s	154 47	18	Framework tower, white daymark; 128.	
	-RACON		X(- • • -)				(3 & 10cm).
30248.5	-'Ayn Sukhnah, Lightfloat, SC No 2.	29° 48.6' N 32° 32.1' E	Iso.W. period 6s	20 6	9	SAFE WATER RW, topmark.	
	-RACON		D(- • •)				(3 & 10cm).
30252 D 7297.31	-Lahata.	29° 40.4' N 32° 41.2' E	Fl.(3)W. period 15s	154 47	18	Framework tower, white daymark; 128.	
	-RACON		C(- • • •)				(3 & 10cm).
30252.2	-'Ayn Sukhnah, Lightfloat, SC No 1.	29° 39.5' N 32° 32.4' E	L.Fl.W. period 10s	20 6	9	SAFE WATER RW, topmark.	
	-RACON		O(- - -)				(3 & 10cm).
30252.3	-N. 'Ayn Sukhnah, Buoy.	29° 38.9' N 32° 24.5' E	Fl.(3)W. period 10s			E. CARDINAL BYB, pillar, topmark.	
	-RACON		K(- • -)				(3 & 10cm).
30252.405 D 7297.07	--N. breakwater, head.	29° 39.0' N 32° 22.2' E	Fl.G. period 3s		6	Green metal column; 7.	
30252.41 D 7297.06	--S. breakwater, head.	29° 38.6' N 32° 22.3' E	Fl.R. period 3s		6	Red metal column; 7.	
30253 D 7297.08	--Range, front.	29° 38.8' N 32° 21.1' E	Oc.W. period 6s lt. 4s, ec. 2s		9	White metal column.	Visible 265°30'-274°30'.
30253.1 D 7297.081	--Rear, 280 meters 270° from front.	29° 38.8' N 32° 20.9' E	Oc.W. period 6s lt. 4s, ec. 2s		9	White metal column.	Visible 265°30'-274°30'.
30254 D 7297.05	-'Ayn Sukhnah.	29° 36.1' N 32° 20.5' E	Fl.W. period 5s	144 44	22	Framework tower, white daymark; 128.	
			Oc.W.R.G.	131 40	15		G. 260°-273°, W.-298°, R.- 306°.
	-RACON		Q(- - • -)				(3 & 10cm).
30254.5	--N. Lightfloat.	29° 35.4' N 32° 33.0' E	Mo.(A)W. period 10s	46 14	9	SAFE WATER RW, topmark.	
	--RACON		B(- • • •)				(3 & 10cm).
30255	--South Lightfloat.	29° 29.2' N 32° 35.9' E	L.Fl.W. period 10s fl. 2s, ec. 8s	46 14	12	SAFE WATER RW, topmark.	
	--RACON		G(- - •)				(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30256 <i>D 7297.01</i>	-Ras Abu Darag.	29° 22.9' N 32° 34.1' E	Fl.(2)W. period 20s fl. 0.3s, ec. 3s fl. 0.3s, ec. 16.4s	164 50	19	White round concrete tower, white dwelling.	
	-RACON		TR(- • - •)				(3 & 10cm).
30258 <i>D 8804</i>	-Ras Za'farana Oilfield, Platform HB-77-5.	29° 10.8' N 32° 41.9' E	Mo.(U)W. period 15s		10		
	-RACON		B(- • • •)				(3 & 10cm).
30260 <i>D 7297</i>	-Ras Zafarana.	29° 06.7' N 32° 39.9' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	83 25	17	White stone tower, white dwelling; 82.	
	-RACON		Z(- - • •)				(3 & 10cm).
30260.1 <i>D 7296.992</i>	-Mersa Thelemet, jetty, N. head.	29° 01.8' N 32° 38.2' E	Fl.G. period 2s				
30260.2 <i>D 7296.991</i>	--S. head.	29° 01.5' N 32° 38.2' E	Fl.R. period 2s				
30260.3 <i>D 7296.995</i>	--Range, front.	29° 03.0' N 32° 37.3' E	FR.	49 15	5	Metal framework tower, white triangular daymark point up.	Radar reflector.
30260.4 <i>D 7296.9951</i>	---Rear, 302° from front.	29° 03.1' N 32° 37.2' E	FR.	66 20	5	Metal framework tower, white triangular daymark point down.	Radar reflector.
30261 <i>D 7297.41</i>	-Abu Zenima Bay Range, front.	29° 02.8' N 33° 06.7' E	FR.	39 12	5	White metal tower, black bands, triangular daymark point up.	
30261.1 <i>D 7297.411</i>	--Rear, 150 meters 334° from front.	29° 02.9' N 33° 06.6' E	FR.	49 15	5	White metal tower, black bands, triangular daymark point down.	
30261.3 <i>D 7297.4</i>	--Beacon.	29° 02.5' N 33° 06.5' E	Fl.R. period 3s	20 6	6	Red metal tower.	
30261.5 <i>D 8812</i>	-East Tanka Oilfield, Platform A.	28° 59.1' N 32° 56.9' E	Mo.(U)W.			Platform.	Horn: Mo.(U).
	-RACON		Z(- - • •)				(3 & 10cm).
30262 <i>D 8807</i>	-North Amer Oilfield, Platform FF-83-2.	28° 49.2' N 32° 55.1' E	Mo.(U)W.				
	-RACON		U(• • -)		25		(3 & 10cm).
30263 <i>D 8806</i>	--GG-83-2.	28° 45.8' N 32° 55.4' E	Mo.(U)W. period 15s			Platform.	Horn: Mo.(U).
	--RACON		U(• • -)		25		(3 & 10cm).
30264 <i>D 7296.98</i>	-Ras Ruahmi.	28° 43.2' N 32° 49.4' E	Fl.(3)W. period 20s	72 22	15	Black fiberglass tower; 33.	
	-RACON		M(- -)				(3 & 10cm).
30268 <i>D 8815</i>	-Belayim Oilfield, platform D10.	28° 37.2' N 33° 06.7' E	Q.(9)W. period 15s	75 23	15	Platform.	
	-RACON		O(- - -)				(3 & 10cm).
30276 <i>D 7296.97</i>	-False Ras Gharib.	28° 30.9' N 32° 57.6' E	Fl.W. period 5s	36 11	15	White fiberglass tower, red stripe; 33.	
30280 <i>D 7296.95</i>	-Ras Gharib.	28° 21.1' N 33° 06.7' E	Fl.(4)W. period 20s fl. 0.2s, ec. 2.4s fl. 0.2s, ec. 2.4s fl. 0.2s, ec. 2.4s fl. 0.2s, ec. 12s	151 46	22	White metal framework tower, white dwelling, white daymark; 128.	Visible 150°-308°. Liable to be obscured by sand storms. DGPS Station.
	-RACON		G(- - •)				(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30284 <i>D 7296.96</i>	--N. Berth, No 2 Range, front.	28° 21.1' N 33° 06.6' E	F.G.	39 12	5		
30288 <i>D 7296.961</i>	--Rear, No 1, 1770 meters 302°40' from front.	28° 21.6' N 33° 05.6' E	F.G.	72 22	5		
30292 <i>D 7296.9</i>	--No 3 Range, front.	28° 20.8' N 33° 06.6' E	F.R.	36 11	5		
30296 <i>D 7296.91</i>	---Rear, No 6, 380 meters 269° from front.	28° 20.8' N 33° 06.4' E	F.R.	161 49	5		
30300 <i>D 7296.89</i>	--S. Berth, No 5 Range, front.	28° 20.5' N 33° 06.6' E	F.G.	33 10	5		
30304 <i>D 7296.891</i>	---Rear, No 4, 430 meters 298°50' from front.	28° 20.6' N 33° 06.4' E	F.G.	121 37	5		
30308 <i>D 7296.88</i>	--New S. Berth, No 8 Range, front.	28° 20.4' N 33° 06.6' E	F.G.	48 15	5	Framework tower, square daymark.	
30312 <i>D 7296.881</i>	--Rear, No 7, 760 meters 299°15' from front.	28° 20.6' N 33° 06.2' E	F.G.	125 38	5	Framework tower, square daymark.	
30316 <i>D 7296.87</i>	--No 12 Range, front.	28° 20.2' N 33° 06.6' E	F.R.	46 14	5		
30320 <i>D 7296.871</i>	--Rear, No 11, 480 meters 264°20' from front.	28° 20.1' N 33° 06.3' E	F.R.	79 24	5		
30324 <i>D 7296.86</i>	--No 9 Range, front.	28° 19.8' N 33° 06.6' E	F.R.	42 13	5	Framework tower, square daymark.	
30328 <i>D 7296.861</i>	---Rear, No 10, 240 meters 265° from front.	28° 19.8' N 33° 06.5' E	F.R.	45 14	5	Framework tower, square daymark.	
30332 <i>D 7296.85</i>	-El Mallaha.	28° 14.8' N 33° 09.6' E	Fl.W. period 10s	39 12	15	Red fiberglass tower; 33.	
30336 <i>D 8817</i>	-Platform SG 300.	28° 18.6' N 33° 09.1' E	Mo.(U)W. period 15s		5	Platform.	
	-RACON		B(-•••) period 72s		15		(3cm).
30340 <i>D 7296.8</i>	-Ras Shukier.	28° 07.9' N 33° 16.5' E	Fl.(3)W. period 20s	279 85	22	Framework tower, white square daymark; 56.	
30341	--SE., in southbound lane of TSS.	28° 05.0' N 33° 23.4' E	Fl.(2)W. period 10s			ISOLATED DANGER BRB, pillar, topmark.	
	-RACON		D(-••)				(3 & 10cm).
30342	--Lightfloat.	28° 09.5' N 33° 20.4' E	Mo.(A)W. period 10s	46 14	12	SAFE WATER RW, buoy, topmark.	
	-RACON		KT(-•• -)				(3 & 10cm).
30343	--N., corner of Precautionary Area.	28° 11.3' N 33° 21.4' E	Fl.(2)W. period 10s			ISOLATED DANGER BRB, pillar, topmark.	
	-RACON.		D(-••)				(3 & 10cm).
30344 <i>D 8833</i>	-Platform M-72, RACON.	28° 10.7' N 33° 26.7' E	M(- -) period 72s		15		(3cm).
30346 <i>D 8844</i>	-Platform AMAL-9, RACON.	28° 03.7' N 33° 34.8' E	D(-••)		6		(3 & 10cm).
30348 <i>D 7296.78</i>	-Ras Dib.	28° 01.8' N 33° 24.9' E	Fl.W. period 5s	148 45	15	Black fiberglass tower; 33.	
	-RACON		MT(- - -)				(3 & 10cm).
30352 <i>D 8829</i>	Platform R-5, RACON.	28° 17.2' N 33° 18.7' E	K(-• -)		15		(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30356 <i>D 8824</i>	Yulyu Oilfield, platform J-29, RACON.	28° 15.4' N 33° 14.6' E	G(- - •) period 72s		15		(3cm).
30360 <i>D 8827</i>	-Platform J-62. -RACON	28° 14.4' N 33° 16.9' E	Mo.(U)W. N(- •) period 72s			Platform.	(3cm).
30361 <i>D 8822</i>	Platform ASMA-8. RACON -At Tur Harbor:	28° 13.2' N 33° 20.5' E	Mo.(U)W. period 15s C(- • - •)		10		One light each on opposite diagonal corners. Horn: Mo.(U) ev. 30s.
30364 <i>D 7297.5</i>	--Grafton Reef, on N. side of entrance to harbor.	28° 13.6' N 33° 36.6' E	Fl.W. period 3s	18 5	5	White square tower, black band.	Radar reflector.
30368 <i>D 7297.51</i>	--Boat harbor, breakwater, head.	28° 13.7' N 33° 37.3' E	F.R.				Occasional.
30372 <i>D 7297.52</i>	--S. of boat harbor, breakwater Range, front.	28° 13.4' N 33° 37.5' E	F.G.			Beacon, triangular daymark point up.	Lead between Grafton Beacon and Erg Rivah. Shown only during the pilgrimage season, or by request.
30376 <i>D 7297.521</i>	---Rear, about 470 meters 095° from front.	28° 13.4' N 33° 37.8' E	F.R.			Beacon, round daymark.	
30380	-Ra's Jarrah Oil Well.	27° 59.0' N 33° 44.0' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	20 6	3		Navigation is prohibited near this light.
30384 <i>D 7296.77</i>	Ras Zeit.	27° 57.0' N 33° 30.7' E	Fl.(2)W. period 20s	92 28	15	White fiberglass beacon, red stripe; 33.	
30386 <i>D 8847</i>	Strait of Gubal Platform Sidki-B RACON.	27° 56.6' N 33° 38.7' E	O(- - -)				
30387 <i>D 8848</i>	ESSO Suez Platform, E. ZEIT. RACON	27° 52.6' N 33° 41.1' E	Fl.W. period 8s C(- • - •)		6 4		
30387.2 <i>D 8852</i>	-SE. -RACON	27° 51.4' N 33° 42.6' E	Mo.(U)W. period 15s Q(- - • -)	39 12	5	Platform.	One light on each corner. Horn: Mo.(U) ev. 30s.
30387.5 <i>D 8860</i>	Ashrafi Oil Field Platform WHP- 2 RACON.	27° 48.9' N 33° 42.0' E	Z(- - • •)				(3 & 10cm).
30388 <i>D 7296.75</i>	Umm El-Kiman.	27° 49.6' N 33° 34.9' E	Fl.W. period 10s	79 24	15	Black fiberglass tower, white stripe; 33.	
30392	-Platform, RACON.	27° 50.2' N 33° 43.7' E	D(- • •)		7		(3 & 10cm).
30396 <i>D 7296.74</i>	-Ashrafi Juzur, S. head. -RACON	27° 47.3' N 33° 42.4' E	Fl.(3+1)W. period 15s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 5.5s fl. 0.3s, ec. 5.5s A(• -)	124 38	17	Black brick structure, white bands.	Aeromarine.
30398 <i>D 7296.73</i>	-Shag Rock. -RACON	27° 46.5' N 33° 53.1' E	Q.(9)W. period 15s F(• • - •)	39 12	15	W. CARDINAL YBY, beacon, topmark.	(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30400 <i>D 7296.72</i>	-Bluff Point.	27° 40.8' N 33° 48.4' E	Fl.W. period 5s	79 24	15	White fiberglass tower; 33.	
	-RACON		B(- • • •)		22		(3 & 10cm).
30404 <i>D 7296.65</i>	-Siyul Island.	27° 33.6' N 33° 52.8' E	Fl.(4)W. period 20s	49 15	15	White fiberglass tower, black stripe; 33.	
30404.5 <i>D 7296.71</i>	-Abu Nuhus.	27° 34.5' N 33° 56.0' E	Q.(3)W. period 10s	36 11	7	PORT (A) R, beacon, topmark.	
	-RACON		L(• - • •)		4		(3 & 10cm).
30405 <i>D 7296.64</i>	Saghira, N.	27° 34.2' N 33° 50.3' E	Fl.(2)R. period 5s	30 9		Red round fiberglass tower; 16.	
30405.5 <i>D 7296.63</i>	Tawila Island.	27° 34.8' N 33° 48.1' E	Fl.(2)G. period 5s	36 11	8	Green round fiberglass tower; 16.	
30406 <i>D 7296.62</i>	Sha'ab Abu Rakaw.	27° 28.6' N 33° 49.5' E	Q.W.	30 9	8	N. CARDINAL BY, beacon, topmark; 16.	
30406.2 <i>D 7296.595</i>	Sha'b el Irq, Melana.	27° 25.3' N 33° 52.0' E	Q.(3)W. period 10s	30 9		E. CARDINAL BYB, beacon, topmark; 16.	
30406.4 <i>D 7296.59</i>	-E.	27° 23.9' N 33° 52.9' E	V.Q.(3)W. period 5s	30 9		E. CARDINAL BYB, beacon, topmark; 16.	
30407 <i>D 7296.6</i>	Abu Tig entrance, N.	27° 24.5' N 33° 40.7' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	16 5	1		
30407.2 <i>D 7296.61</i>	-S.	27° 24.5' N 33° 40.7' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	16 5	1		
30408 <i>D 7296.7</i>	-Jazirat Shakir.	27° 27.1' N 34° 02.2' E	Fl.(2)W. period 20s	121 37	22	White round stone tower, black stripe, white dwelling, black stripes.	Visible 187°-100°.
	-RACON		X(- • • -)				(3 & 10cm).
30409 <i>D 7296.58</i>	-Umm Qamar.	27° 21.5' N 33° 54.5' E	Fl.W. period 3s	79 24	15	Red fiberglass tower, white stripe.	
	-RACON		TS(- • • •)				(3 & 10cm).
EL GHARDAQA:							
30409.5 <i>D 7296.5</i>	-Giftun el-Saghir.	27° 11.9' N 33° 59.0' E	Fl.(3)W. period 20s	100 30	16	Black metal tower.	
30410 <i>D 7296.57</i>	-Gaza'ir Giftun, NW.	27° 16.1' N 33° 53.1' E	Fl.R. period 5s	30 9		Red round fiberglass tower; 16.	
30410.2 <i>D 7296.56</i>	-Sha'b el Fanadir, SE. corner.	27° 15.4' N 33° 50.6' E	Fl.G. period 5s	30 9	8	Green round fiberglass tower; 16.	
30410.4 <i>D 7296.55</i>	-Franken Point.	27° 14.2' N 33° 50.9' E	Fl.(2)G. period 5s	30 9		Green round fiberglass tower; 16.	
30410.5 <i>D 7296.54</i>	-Marina, Entrance.	27° 13.5' N 33° 50.6' E	Fl.G. period 3s	23 7	3		Radar reflector.
30410.55 <i>D 7296.53</i>	--S.	27° 13.4' N 33° 50.6' E	Fl.R. period 3s	23 7	3		Radar reflector.
30410.6 <i>D 7296.51</i>	-Gaziret Abu Minqar, W.	27° 12.9' N 33° 51.1' E	Fl.(2)R. period 5s	30 9		Red round fiberglass tower; 16.	
30411 <i>D 7296.52</i>	El Ghardaqa Range, front.	27° 12.5' N 33° 50.5' E	Oc.R. period 5s lt. 3s, ec. 2s	181 55	18	Black framework tower, white and black rectangular daymark; 49.	
30411.5 <i>D 7296.521</i>	-Rear, 420 meters 194°18' from front.	27° 12.3' N 33° 50.5' E	Oc.R. period 5s lt. 3s, ec. 2s	250 76	18	Black framework tower, white rectangular daymark; 59.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30412 <i>D 7296.725</i>	Qad Ibn Haddan.	27° 48.3' N 34° 06.0' E	Fl.W. period 10s	154 47	22	Framework tower, white rectangular daymark; 128.	
	RACON		M(- -)				(3 & 10cm).
30413 <i>D 7296.723</i>	-Southward.	27° 42.2' N 34° 07.5' E	Q.(6)+L.Fl.W. period 15s	29 9	8	S. CARDINAL YB, tower, topmark.	Radar reflector.
30414 <i>D 7296.724</i>	Ras Muhammad.	27° 43.5' N 34° 14.9' E	Fl.(4)W. period 30s	49 15	15	White round fiberglass tower, black bands; 33.	Radar reflector.
	RACON		X(- • • -)				(3 & 10cm).
30415 <i>D 7297.6</i>	Sharm El-Sheikh entrance, W. side.	27° 50.5' N 34° 16.6' E	Oc.R. period 5s lt. 3s, ec. 2s	23 7	3	Red beacon.	
30415.5 <i>D 7297.61</i>	-E. side.	27° 51.0' N 34° 17.2' E	Oc.G. period 5s lt. 3s, ec. 2s	23 7	3	Green beacon.	
30416 <i>D 7297.62</i>	Ras Umm Sidd.	27° 51.0' N 34° 18.9' E	Fl.(3)W. period 20s	148 45	22	Framework tower, white rectangular daymark; 56.	DGPS Station.
	RACON		K(- • -)				(3 & 10cm).
GULF OF AQABA:							
30420 <i>D 7297.67</i>	-Enterprise Passage.	27° 58.8' N 34° 26.2' E	Fl.W. period 10s	43 13	15	Green fiberglass tower; 33.	F.R.W. (vert.) 1.5 miles NNW. 2 F.R. (vert.) 2 miles W.
			Oc.G. period 7s lt. 5s, ec. 2s		8		
	-RACON		Y(- • - -)				(3 & 10cm).
30422 <i>D 7297.65</i>	-Chisholm Point.	27° 56.7' N 34° 30.2' E	Fl.(2+1)W. period 20s	39 12	9	White fiberglass beacon; 33.	
	-RACON		C(- • - •)				(3 & 10cm).
30424 <i>D 7297.7</i>	-Gordon Reef.	27° 59.2' N 34° 27.0' E	Oc.R. period 7s lt. 5s, ec. 2s	39 12	8	Red and white fiberglass beacon; 33.	Radar reflector.
	-RACON		G(- - •)				(3 & 10cm).
30424.2 <i>D 7297.72</i>	-Jackson Reef.	28° 00.5' N 34° 28.5' E	Fl.(2)R. period 5s	30 9	8	Red fiberglass tower; 18.	
30424.4 <i>D 7297.71</i>	-W. of Johnson Point.	27° 59.8' N 34° 29.0' E	Fl.(2)G. period 5s	30 9	8	Green fiberglass tower; 18.	
30424.5	--SW.	27° 59.4' N 34° 29.1' E	Q.(9)W. period 15s			W. CARDINAL YBY, pillar, topmark.	
	--RACON		D(- • •)				
30424.6 <i>D 7297.73</i>	--NW.	28° 00.8' N 34° 29.2' E	Fl.G. period 5s	30 9	8	White fiberglass tower, green top; 20.	
30425 <i>D 7297.74</i>	-Nabq.	28° 03.4' N 34° 26.1' E	V.Q.(3)W. period 5s	26 8	5	Black fiberglass tower, yellow band; 20.	Visible 185°-345°. Q.(3)W. 10s 7m 5M marks stranded wreck ENE. Radar reflector.
30426 <i>D 7297.76</i>	-Wadi Kid.	28° 10.3' N 34° 27.0' E	Q.(3)W. period 10s	36 11	8	Black round fiberglass tower, yellow band; 30.	Visible 192°-293°. Radar reflector.
	-RACON		K(- • -)		6		(3 & 10cm).
30428 <i>D 7297.77</i>	Dahab.	28° 30.0' N 34° 31.2' E	Fl.(2)W. period 20s	66 20	15	White round fiberglass tower, black band; 33.	Radar reflector.
	RACON		D(- - •)				(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30432 <i>D 7297.79</i>	Nuweibah.	29° 01.7' N 34° 39.2' E	Fl.(2+1)W. period 10s	151 46	15	White round fiberglass tower; 33.	Radar reflector.
	RACON		N(- •)				(3 & 10cm).
30434 <i>D 7297.81</i>	Taba Heights Marina, W. breakwater.	29° 22.5' N 34° 47.6' E	Fl.G. period 5s		5		
30434.1 <i>D 7297.8</i>	-E. breakwater.	29° 22.5' N 34° 47.7' E	Fl.R. period 5s		5		
30436 <i>D 7297.9</i>	Elat.	29° 30.0' N 34° 54.8' E	Fl.W. period 10s fl. 1s, ec. 4s	211 64	21	White concrete tower, black bands.	
30437 <i>D 7297.96</i>	-Oil Terminal Range, front.	29° 31.2' N 34° 56.0' E	Fl.(2)Y. period 10s		3		
30438 <i>D 7297.961</i>	--Rear, 620 meters 011°58' from front.	29° 31.6' N 34° 56.1' E	Fl.Y. period 5s		3		Signal station.
30439 <i>D 7297.91</i>	-Oil berth, SW. end.	29° 31.0' N 34° 55.8' E	Fl.G. period 2s		2		Berth marked by F.G. and F.R. lights.
30440 <i>D 7297.99</i>	-Elat AVIATION LIGHT.	29° 33.0' N 34° 57.4' E	Al.FI.(10)W.G. period 60s			Building.	
30441 <i>D 7297.97</i>	-Basin entrance, SE. side.	29° 32.0' N 34° 56.6' E	F.R.		2		NW. side marked by F.G. 2M.
30444 <i>D 7297.995</i>	-Marina.	29° 32.9' N 34° 57.6' E	Fl.(2)R. period 5s		2		
30444.1 <i>D 7297.998</i>	--E.	29° 32.9' N 34° 57.7' E	Fl.(2)G. period 2s		2		
AQABA:							
30449 <i>D 7298</i>	--On shore.	29° 32.3' N 34° 59.2' E	Oc.R. period 2s			Red framework tower.	
			F.R. (vert.)				
30450 <i>D 7298.01</i>	-Ayla Marina, E. breakwater, entrance.	29° 32.4' N 34° 58.8' E	Fl.(3)G. period 10s		3	Green metal post; 23.	
30451 <i>D 7298.02</i>	--W. breakwater, entrance.	29° 32.4' N 34° 58.8' E	Fl.(3)R. period 10s		3	Red metal post; 23.	
30451.1 <i>D 7298.04</i>	---Rear, 39 meters 001.4° from front.	29° 32.4' N 34° 58.7' E	F.W.		3	Post; 23.	
30451.2 <i>D 7298.03</i>	---Front.	29° 32.4' N 34° 58.7' E	F.W.		3	Post; 23.	
30452 <i>D 7298.2</i>	-Control tower.	29° 30.8' N 34° 59.8' E	Fl.(3)W. period 10s fl. 0.2s, ec. 1.1s fl. 0.2s, ec. 1.1s fl. 0.2s, ec. 7.2s	236 72	17	White round concrete tower.	
30454 <i>D 7298.15</i>	-Yacht club, N. side.	29° 31.8' N 34° 59.9' E	Fl.R.			White round tower, red top.	
30455 <i>D 7298.1</i>	--S. side.	29° 31.7' N 34° 59.9' E	Q.G.			White round tower, green top.	
30458 <i>D 7298.21</i>	-S. of Yarmouk.	29° 26.8' N 34° 58.1' E	Q.(9)W. period 15s	30 9	7	White metal structure.	
30460 <i>D 7298.22</i>	-Tala Bay, entrance, N.	29° 24.6' N 34° 58.7' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s		2		
30460.1 <i>D 7298.23</i>	--S.	29° 24.5' N 34° 58.6' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s		2		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30462 <i>D 7298.24</i>	-Royal Jordanian Naval Base, Detached breakwater, N. end.	29° 23.9' N 34° 57.8' E	Fl.R. period 2s		10 3		
30462.1 <i>D 7298.245</i>	--S. end.	29° 23.8' N 34° 57.8' E	Fl.R. period 2s		10 3		
30462.2 <i>D 7298.25</i>	--Entrance, E.	29° 23.8' N 34° 57.9' E	Fl.R. period 2s		30 9		
30462.3 <i>D 7298.255</i>	---W.	29° 23.8' N 34° 57.9' E	Fl.G. period 2s			Beacon.	
30463 <i>D 7298.262</i>	-Industrial port, JFI, jetty, N.	29° 22.1' N 34° 57.5' E	2 F.R. (vert.)				R. lights on chimneys 1.1M NE.
30463.1 <i>D 7298.265</i>	---S.	29° 21.9' N 34° 57.5' E	2 F.G. (vert.)				
30469 <i>D 7298.3</i>	Shushah.	27° 55.7' N 34° 54.0' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	325 99	9	Metal structure; 3.	
30469.5 <i>D 7298.31</i>	Burqan.	27° 54.3' N 35° 04.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	125 38	9	Metal structure; 3.	
30469.6 <i>D 7298.32</i>	Ash Sharmah Range, front.	27° 55.7' N 35° 16.5' E	Q.W.				
30469.7 <i>D 7298.321</i>	-Rear, 336 meters 036° from front.	27° 55.9' N 35° 16.6' E	Q.W.				
30470 <i>D 7298.33</i>	Jazair Sila.	27° 39.0' N 35° 16.7' E	Fl.W. period 12s	49 15	12		
	RACON		J(• - - -)				(3 & 10cm).
30470.5 <i>D 7296.4</i>	Ra's Abu Sawmah.	26° 51.3' N 34° 00.2' E	Fl.(4)W. period 20s	100 30	16	Black metal tower, white top.	
	RACON		C(- • - •)				(3 & 10cm).
30471 <i>D 7296.34</i>	Panorama Reef.	26° 45.3' N 34° 04.8' E	Q.W.	29 9	5	N. CARDINAL BY, fiberglass tower, topmark.	
30471.2 <i>D 7296.33</i>	Middle Reef.	26° 42.4' N 34° 05.9' E	Q.(3)W. period 10s	23 7	5	E. CARDINAL BYB, beacon, topmark.	
30471.3 <i>D 7296.36</i>	<i>Fellowes Rocks Buoy.</i>	26° 41.7' N 34° 03.9' E	Fl.(2)W. period 8s			ISOLATED DANGER BRB, pillar, topmark.	
	RACON		D(- • •)				(3 & 10cm).
30471.4 <i>D 7296.39</i>	Geziret Safaga, NE.	26° 45.7' N 33° 59.5' E	Q.(3)W. period 10s	66 20	5	E. CARDINAL BYB, beacon, topmark.	
30471.5 <i>D 7296.38</i>	-SE.	26° 42.9' N 33° 59.9' E	Dir.W.R.G. period 3s	49 15	W. 12 R. 10 G. 10	White fiberglass tower.	Fl.G. 214°-218°, Fl.W.-220°, Fl.R.-224°.
	RACON		Z(- - • •)				(3 & 10cm).
30472 <i>D 7296.37</i>	Bur Safaga Transit Beacon.	26° 44.2' N 33° 56.4' E	FR.	135 41	4	Metal framework tower.	
30474 <i>D 7296.35</i>	-Moorewood.	26° 42.1' N 33° 59.8' E	Fl.(3)G. period 10s	29 9	6	STARBOARD (A) G, tower, topmark.	
30474.5 <i>D 7296.36</i>	-Spit Reef.	26° 41.5' N 33° 58.4' E	Fl.(3)R. period 10s	29 9	3	PORT (A) R, tower, topmark.	
30475 <i>D 7296.31</i>	-Handyman Reef.	26° 39.3' N 34° 02.2' E	V.Q.(9)W. period 10s	30 9	5	W. CARDINAL YBY, beacon, topmark.	
30475.1 <i>D 7296.32</i>	-Sha'b Shear.	26° 39.1' N 34° 06.5' E	V.Q.(3)W. period 5s	18 6	5	E. CARDINAL BYB, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30475.2 <i>D 7296.3</i>	-Safaga Ulbur.	26° 36.5' N 34° 01.1' E	Fl.W. period 5s	43	6	White fiberglass tower, red top.	
30476 <i>D 7296.2</i>	Al Ikhwan (The Brothers).	26° 18.5' N 34° 50.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	119	17	White round tower, square dwellings; 102.	
	RACON		B(- • • •)				(3 & 10cm).
30478 <i>D 7298.41</i>	Shi'b Shu'aybah, No 3.	24° 29.5' N 37° 07.4' E	Fl.(2)W. period 6s	23	5	Black pile, red band.	Reefs to E. marked by beacons Nos 4, 7, 2, 5, 6.
30479 <i>D 7298.42</i>	-No 11.	24° 23.5' N 37° 09.5' E	Fl.(2)W. period 20s	23	5	Black pile, red band.	Reefs to E. marked by beacons Nos 9, 8, 12, 13.
30480 <i>D 7298.4</i>	Al Wajh AVIATION LIGHT.	26° 12.1' N 36° 28.5' E	Al.Fl.W.G. period 5s				
30484 <i>D 7296.25</i>	Al Qusayr.	26° 05.9' N 34° 17.2' E	F.R.		5	Transporter.	
30492 <i>D 7296.1</i>	Daedalus Reef.	24° 55.8' N 35° 52.4' E	Fl.(1+2)W. period 12s fl. 0.2s, ec. 5.2s fl. 0.2s, ec. 1s fl. 0.2s, ec. 5.2s	100	15	White round stone tower, black bands, concrete base, two-story dwelling.	
	RACON		D(- • •)				(3 & 10cm).
30493 <i>D 7298.43</i>	Sharm al Khaur, No 20.	24° 14.2' N 37° 39.1' E	Fl.R. period 5s	16	2	Red pile.	Passage into Sharm al Khaur marked by light beacons.
30494 <i>D 7298.44</i>	-No 21.	24° 13.8' N 37° 39.3' E	Q.W.	23	4	Yellow pile, black top.	Reefs to SE. marked by beacons Nos 22, 23, 24, 26.
30496 <i>D 7298.45</i>	Schermo Reef.	24° 03.4' N 37° 51.5' E	Fl.W. period 5s	33	11	Mast, concrete block.	Horn: 1 bl. ev. 20s (bl. 4s, si. 16s).
	RACON		Y(- • - -) period 75s		12		(3cm).
30497 <i>D 7298.46</i>	-No 29.	24° 00.2' N 37° 53.0' E	Q.(6)+L.Fl.W. period 15s	23	4	Black pile, yellow top.	
30498 <i>D 7298.47</i>	Sharm Yanbu W., No 27.	24° 08.5' N 37° 55.6' E	Fl.R. period 2s	16	2	Red pile.	
30499 <i>D 7298.48</i>	-E. No 28.	24° 08.4' N 37° 55.9' E	Fl.G. period 2s	16	2	Green pile.	
30500 <i>D 7298.5</i>	Yanbu, Bn. No 1.	24° 04.0' N 38° 03.1' E	Q.G.		5	Beacon.	
30504 <i>D 7298.49</i>	-Bn. No 2.	24° 04.0' N 38° 02.8' E	Q.R.		5	Beacon.	
30508 <i>D 7298.51</i>	-Bn. No 6.	24° 04.3' N 38° 03.3' E	Fl.R. period 2s		5	Beacon.	
30508.5 <i>D 7298.52</i>	Umm al Nukuth.	24° 01.4' N 38° 02.3' E	Fl.(2)W. period 15s		10	ISOLATED DANGER BRB, beacon, topmark.	
30509 <i>D 7298.53</i>	-No 30.	23° 57.2' N 37° 57.6' E	Fl.(2)W. period 6s	23	5	Black pile, red band.	
30510 <i>D 7298.54</i>	Shi'b al-Qirin, No 31.	23° 54.8' N 38° 01.7' E	Q.W.	23	4	Yellow pile, black top.	
30511 <i>D 7298.55</i>	-No 33.	23° 52.5' N 38° 44.6' E	Q.(3)W. period 10s	23	4	E. CARDINAL BYB, beacon, topmark.	
30511.05 <i>D 7298.56</i>	-No 36.	23° 50.4' N 38° 08.1' E	Q.(9)W. period 15s	23	4	W. CARDINAL YBY, beacon, topmark.	
30511.1 <i>D 7298.65</i>	-King Fahd Port Range, front.	23° 57.9' N 38° 11.6' E	Q.W.			Red and white structure, black triangular daymark point up, white stripe.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30511.2 <i>D 7298.651</i>	--Rear, 220 meters from front.	23° 58.0' N 38° 11.7' E	Iso.W. period 7s			Red and white structure, black triangular daymark point up, white stripe.	
30511.22 <i>D 7298.62</i>	-Beacon No 2C.	23° 56.8' N 38° 10.6' E	Q.(6)+L.Fl.W. period 15s			S. CARDINAL YB, beacon, topmark.	
30511.23 <i>D 7298.63</i>	--No 3C.	23° 57.1' N 38° 11.3' E	Q.G.			STARBOARD (A) G, beacon, topmark.	
30511.24 <i>D 7298.64</i>	--No 4C.	23° 57.6' N 38° 11.2' E	Fl.(4)R. period 10s			Red beacon, red square daymark.	
30511.25 <i>D 7298.66</i>	--No 9C.	23° 58.0' N 38° 11.6' E	Q.(9)W. period 15s			W. CARDINAL YBY, beacon, topmark.	
30511.3 <i>D 7298.67</i>	--Inner Range, front.	23° 58.4' N 38° 11.5' E	Q.W.			Red and white post.	
30511.4 <i>D 7298.671</i>	---Rear, about 160 meters 015°22' from front.	23° 58.5' N 38° 11.5' E	Iso.W. period 7s			Red and white post.	
30511.5 <i>D 7298.68</i>	-Beacon No 14C.	23° 58.2' N 38° 11.7' E	Iso.R. period 2s			PORT (A) R, beacon, topmark.	
30511.51 <i>D 7298.7</i>	--No 13C.	23° 57.6' N 38° 12.2' E	Q.G.			STARBOARD (A) G, beacon, topmark.	
30511.52 <i>D 7298.72</i>	--No 19C.	23° 57.4' N 38° 12.4' E	Q.G.			STARBOARD (A) G, beacon, topmark.	
30511.53 <i>D 7298.71</i>	--No 22C.	23° 57.5' N 38° 12.5' E	Q.R.			PORT (A) R, beacon, topmark.	
30511.54 <i>D 7298.73</i>	--No 24C.	23° 57.4' N 38° 12.7' E	Fl.R. period 5s			PORT (A) R, beacon, topmark.	
30511.55 <i>D 7298.74</i>	--No 23C.	23° 57.0' N 38° 12.9' E	Q.(3)W. period 10s			E. CARDINAL BYB, beacon, topmark.	
30511.61 <i>D 7298.75</i>	-Service Harbor, W. breakwater.	23° 57.3' N 38° 12.9' E	Oc.R.				Oc.G. marks E. breakwater.
30511.71 <i>D 7298.83</i>	-Crude Oil Terminal, W. end.	23° 56.6' N 38° 13.3' E	2 F.R. (vert.)				2 F.R. (vert.) mark each end of berths 500 meters NE. and 800 meters E.
30511.72 <i>D 7298.84</i>	--E. end.	23° 56.2' N 38° 14.3' E	2 F.R. (vert.)				Horn: Mo.(U) 30s.
30511.81 <i>D 7298.77</i>	-Beacon No 26C.	23° 57.0' N 38° 13.5' E	V.Q.R.			Red beacon.	
30511.82 <i>D 7298.82</i>	--No 25C.	23° 56.9' N 38° 13.7' E	V.Q.G.			Green beacon.	
30511.83 <i>D 7298.78</i>	--No 28C.	23° 57.1' N 38° 13.6' E	Q.R.			Red beacon.	
30511.84 <i>D 7298.79</i>	--No 30C.	23° 57.2' N 38° 13.7' E	Oc.R. period 5s			Red beacon.	
30511.85 <i>D 7298.8</i>	--No 32C.	23° 57.1' N 38° 13.8' E	Q.R.			Red beacon.	
30511.86 <i>D 7298.81</i>	--No 34C.	23° 57.0' N 38° 14.2' E	Oc.R. period 10s			Red beacon.	
30511.91 <i>D 7298.86</i>	-Yanbu Refinery Terminal, beacon No 2.	23° 54.8' N 38° 17.5' E	FG.			STARBOARD (A) G, beacon, topmark.	
30511.92 <i>D 7298.85</i>	--No 1.	23° 54.9' N 38° 17.3' E	FR.			PORT (A) R, beacon, topmark.	2 F.R. (vert.) mark berths.
30511.93 <i>D 7298.87</i>	--No 3.	23° 55.1' N 38° 17.5' E	FG.			STARBOARD (A) G, beacon, topmark.	
30511.94 <i>D 7298.88</i>	--No 4.	23° 55.1' N 38° 17.3' E	FG.			STARBOARD (A) G, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
YANBU SOUTHERN APPROACH CHANNEL							
30512 <i>D 7298.995</i>	-Yanbu South.	23° 28.1' N 38° 25.6' E	Fl.W.R. period 10s fl. 0.2s, ec. 9.8s	105 32	W. 20 R. 17	White round metal tower, red bands.	W. 200°-090°, R.-140°. Radar reflector.
	RACON		B(- • • •)				(3 & 10cm).
30513 <i>D 7298.98</i>	-No 43.	23° 31.0' N 38° 21.2' E	Q.(9)W. period 15s	23 7	4	Yellow pile, black band.	
30514 <i>D 7298.99</i>	-Shib as Suflani, No 44.	23° 30.5' N 38° 14.7' E	Q.(6)+L.Fl.W. period 15s	23 7	4	Black pile, yellow top.	
30516 <i>D 7298.97</i>	-Beacon S3.	23° 31.0' N 38° 29.9' E	Fl.(3)G. period 10s	39 12	8	STARBOARD (A) G, beacon, topmark.	Radar reflector.
30520	-RACON, beacon SR2.	23° 34.7' N 38° 27.7' E	TG(- - - •)				(3 & 10cm).
30521 <i>D 7298.93</i>	No 40.	23° 42.7' N 38° 21.1' E	Q.W.	23 7	4	Yellow pile, black top.	
30522 <i>D 7298.94</i>	-No 42.	23° 39.3' N 38° 17.8' E	Q.(9)W. period 15s	23 7	4	Yellow pile, black band.	
30524 <i>D 7298.96</i>	-Beacon, S6.	23° 38.3' N 38° 25.2' E	Fl.(4)R. period 12s	39 12	8	PORT (A) R, beacon, topmark.	Radar reflector.
30525 <i>D 7298.57</i>	Shi'b as Sabah, No 32.	23° 52.0' N 37° 53.5' E	Q.W.	23 7	4	Yellow pile, black top.	Reefs 3 miles and 9 miles SW. marked by beacons Nos 34, 35, 39.
30526 <i>D 7298.61</i>	-Mansi No 41.	23° 38.9' N 38° 02.1' E	Fl.(2)W. period 20s	23 7	5	Black pile, red band.	
30528 <i>D 7298.95</i>	-Beacon S7.	23° 41.1' N 38° 28.7' E	Fl.(4)G. period 12s	39 12	8	Beacon, green triangular daymark point up.	Radar reflector.
30532	-RACON, beacon SR3.	23° 42.9' N 38° 23.2' E	X(- • • -)				(3 & 10cm).
30534 <i>D 7298.92</i>	-No 37.	23° 45.8' N 38° 17.0' E	Q.(6)+L.Fl.W. period 15s	23 7	4	Black pile, yellow top.	Beacon No 36, Q.(9)W. 15s, 9.9 miles NW.
30535 <i>D 7298.89</i>	-Ra's al Mu'ajjiz Oil Terminal Jetty, NW. end.	23° 48.6' N 38° 23.9' E	Mo.(U)G. period 15s		7		3 Mo.(U)R. 15s 8M lights shown from terminal.
30535.1 <i>D 7298.91</i>	--SE. end.	23° 48.1' N 38° 24.5' E	Mo.(U)G. period 15s		7		
RABIGH:							
30536 <i>D 7299</i>	-Shib al Khamsa, No 12.	22° 44.8' N 38° 37.2' E	Fl.W. period 5s fl. 1s, ec. 4s	65 20	16	S. CARDINAL YB, beacon, topmark.	Radar reflector.
	-RACON		O(- - -)		20		(3 & 10cm).
30540 <i>D 7299.01</i>	-Shib Al Abiyadh. No 13.	22° 42.7' N 38° 48.2' E	Q.(6)+L.Fl.W. period 15s	39 12	10	S. CARDINAL YB, column, topmark.	Radar reflector.
30544 <i>D 7299.02</i>	-Tanta Rock, No 14.	22° 43.6' N 38° 56.0' E	Q.W.	33 10	8	N. CARDINAL BY, column, topmark.	Radar reflector.
30545 <i>D 7299.12</i>	-No 11.	22° 39.9' N 38° 59.5' E	Q.(3)W. period 10s			E. CARDINAL BYB, column, topmark.	The entrance to Rabigh refinery is marked by lights.
30545.9 <i>D 7299.194</i>	King Abdullah Port, Shib Nazar.	22° 19.4' N 38° 51.3' E	Fl.W. period 7s		15		
	RACON		M(- -)				
30545.91 <i>D 7299.195</i>	-Rose Reef.	22° 18.7' N 38° 53.1' E	Fl.W. period 10s		10		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30545.92 <i>D 7299.197</i>	-Al Fahal.	22° 18.5' N 38° 58.1' E	Fl.W. period 7s		15		
30545.93 <i>D 7299.199</i>	-Qita' al Kirsh.	22° 26.0' N 38° 59.6' E	Fl.G. period 10s		15		
30545.94 <i>D 7299.2</i>	--Reef.	22° 25.9' N 38° 59.8' E	V.Q.(3)W. period 10s		10		
30545.95 <i>D 7299.193</i>	-Horse Shoe Reef.	22° 26.1' N 38° 56.9' E	Fl.R. period 10s		5		
30546	RACON, Al Qadimah	22° 19.6' N 38° 57.6' E	M(- -)				
30547 <i>D 7299.24</i>	Al Qadimah.	22° 20.1' N 39° 04.8' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	23 7	5		
30548 <i>D 7299.55</i>	Mismari Reef.	21° 19.5' N 39° 01.9' E	Fl.(3)W.R. period 15s	46 14	W. 19 R. -	White structure, black rectangular daymark.	R. 185°-196°, W.-208°, R.- 025°, W.-185°. Radar reflector.
	RACON		M(- -)		12		(3 & 10cm).
30552 <i>D 7299.44</i>	Juddah (Jidda) AVIATION LIGHT.	21° 40.6' N 39° 08.9' E	Al.FI.W.G.				
JIDDAH HARBOR:							
30554 <i>D 7299.509</i>	-Jiddah.	21° 28.1' N 39° 09.0' E	Fl.(3)W. period 20s	450 137	25		
30555 <i>D 7299.5</i>	-No 31.	21° 29.9' N 39° 07.4' E	V.Q.W.	26 8	6	N. CARDINAL BY, beacon, topmark.	Radar reflector.
30556 <i>D 7299.501</i>	-Ra's al Makhbat.	21° 30.1' N 39° 08.1' E	Fl.R. period 2s	26 8	6	Red beacon.	
30560 <i>D 7299.502</i>	-Ra's ash Shi'b.	21° 29.9' N 39° 08.3' E	Fl.G. period 2s	26 8	6	Green beacon.	
30572 <i>D 7299.504</i>	-Shi'b Qaham.	21° 27.2' N 39° 06.7' E	Fl.W.R.G. period 2.5s fl. 0.2s, ec. 2.3s	46 14	W. 14 R. - G. -	White structure, black rectangular daymark.	W. 128°-178°, R.-010°, G.- 039°, W.-064°, R.-128°. Radar reflector.
	-RACON		T(-)				(3 & 10cm).
30576 <i>D 7299.503</i>	-Shi'b Jahan.	21° 28.5' N 39° 07.2' E	Fl.W.R.G. period 5s	46 14	15	White structure, red rectangular daymark.	G. 129°-165°, R.-027°, W.- 044°, R.-093°, W.-129°. Radar reflector.
30580 <i>D 7299.505</i>	-Middle Gateway, N. beacon.	21° 28.0' N 39° 07.9' E	Fl.R. period 3s			PORT (A) R, beacon, topmark.	Intensified 075°-105°. Radar reflector.
30584 <i>D 7299.506</i>	--S. beacon.	21° 27.8' N 39° 08.1' E	Fl.G. period 3s			STARBOARD (A) G, beacon, topmark.	Intensified 075°-105°. Radar reflector.
30588 <i>D 7299.507</i>	-Inner Gateway, N. side.	21° 28.0' N 39° 08.9' E	Fl.(2)R. period 6s			PORT (A) R, beacon, topmark.	Intensified 075°-105°. Radar reflector.
30592 <i>D 7299.508</i>	-Inner Gateway, S. side.	21° 27.8' N 39° 08.9' E	Fl.(2)G. period 6s			STARBOARD (A) G, beacon, topmark.	Intensified 075°-105°. Radar reflector.
30593 <i>D 7299.516</i>	-Ship Repair Yard.	21° 28.8' N 39° 09.0' E	2 U.Q.R. (vert.)	20 6	3	Framework tower.	
30594 <i>D 7299.51</i>	--Dolphin A.	21° 28.6' N 39° 09.0' E	U.Q.R.	10 3	4	Dolphin.	
30595 <i>D 7299.511</i>	--Dolphin B.	21° 28.6' N 39° 09.0' E	U.Q.R.	10 3	4	Dolphin.	
30596 <i>D 7299.521</i>	-Approaches, No 1A.	21° 22.8' N 39° 06.5' E	Fl.G. period 3s		5		Horn.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30597 <i>D 7299.52</i>	--N. side.	21° 23.4' N 39° 06.4' E	Fl.R.				
30598 <i>D 7299.523</i>	--No 2A.	21° 23.5' N 39° 08.0' E	Fl.G. period 5s		3		
30599 <i>D 7299.522</i>	--No 2B.	21° 24.1' N 39° 07.9' E	Fl.R. period 6s		5		Horn.
30600 <i>D 7299.533</i>	-Pier 5, No 13.	21° 25.7' N 39° 10.3' E	Fl.Y.				
30601 <i>D 7299.534</i>	--No 14.	21° 25.8' N 39° 10.5' E	Oc.Y.				
30602 <i>D 7299.527</i>	--No 1E.	21° 24.6' N 39° 08.9' E	Q.G.		3		Channel marked by lighted buoys and beacons.
30603 <i>D 7299.526</i>	--No 2E.	21° 24.7' N 39° 08.9' E	Q.R.		3		
30603.5 <i>D 7299.524</i>	-Explosives pier, approach channel, No A-1E.	21° 23.8' N 39° 08.8' E	Fl.G. period 3s		3		
30603.6 <i>D 7299.525</i>	--No A-2E.	21° 23.9' N 39° 08.8' E	Fl.R. period 2s		3		Horn.
30604 <i>D 7299.42</i>	Shi'b al Kabir.	21° 40.9' N 38° 50.5' E	Fl.W.R.G. period 10s		46 14	W. 19 R. - G. -	White tripod, red band. W. 327°-118°, G.-163°, R.-327°.
	RACON		K(- • -)		17		(3 & 10cm).
30605 <i>D 7296.03</i>	Shap Ras Banas Beacon.	23° 51.1' N 35° 46.5' E	Fl.R. period 5s			16.	
30605.1 <i>D 7296.02</i>	Jazirat Sirnakah Beacon.	23° 49.8' N 35° 48.4' E	Fl.G. period 3s	23 7	3	Metal tower.	
30605.2 <i>D 7296.01</i>	Horseshoe Reef Beacon.	23° 48.6' N 35° 47.9' E	Fl.R. period 3s	23 7	3	Metal tower.	
30605.25 <i>D 7296.09</i>	Philadelphus Point.	23° 55.8' N 35° 35.7' E	Fl.R.	33 10	6	Red fiberglass beacon.	
30605.3 <i>D 7296.08</i>	Farida Point Range, front.	23° 56.0' N 35° 35.0' E	FR.	36 11	5	Metal tower, white and green stripes.	
30605.31 <i>D 7296.081</i>	-Rear, 410 meters 314° from front.	23° 56.2' N 35° 34.9' E	FR.	56 17	5	Metal tower, white and green stripes.	
30605.4 <i>D 7296.05</i>	Sandy Beacon.	23° 55.5' N 35° 30.6' E	Fl.W. period 5s		3	16.	
30605.5 <i>D 7296.06</i>	Baranis Beacon.	23° 56.2' N 35° 29.8' E	Fl.G. period 3s	23 7	3	Metal tower.	
30606 <i>D 7296</i>	Marsa Halaib.	22° 14.6' N 36° 39.4' E	Fl.R. period 4s	13 4	3	Beacon.	
30608 <i>D 7295.9</i>	Abington Reef.	20° 53.6' N 37° 27.0' E	Fl.(2)W. period 18s fl. 0.5s, ec. 5s fl. 0.5s, ec. 12s	99 30	15	Brown metal framework tower, concrete base.	Partially obscured by Makawwar Island.
30612 <i>D 7295.8</i>	Sanganeb Reef.	19° 43.4' N 37° 26.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	165 50	19	Round concrete tower, dwelling, white lantern.	Diaphone: 1 bl. ev. 30s (bl. 3s, si. 27s).
30616 <i>D 7295.78</i>	Wingate Reef (Su) S. extremity.	19° 37.1' N 37° 17.2' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	27 8	6	Black metal framework tower, white hut, piles, concrete base; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30620 <i>D 7295.79</i>	Wingate Reef, E. beacon.	19° 38.6' N 37° 19.4' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	23 7	6	Black and white checkered concrete tower, 23.	
	RACON		Q(- - • -)				
30628 <i>D 7295.61</i>	-Entrance.	19° 36.3' N 37° 14.2' E	Fl.(2)G. period 5s	26 8	4		
BUR SUDAN (PORT SUDAN):							
30632 <i>D 7295.6</i>	-Damma Damma, S. side of entrance.	19° 35.8' N 37° 14.6' E	Q.R.	26 8	6	Red and white checkered metal framework tower, concrete base.	
30636 <i>D 7295.5</i>	-S. side of entrance.	19° 35.4' N 37° 14.9' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	63 19	10	Stone tower, white band; 72.	
30640 <i>D 7295.62</i>	-Head of second coral pier, N. side of entrance.	19° 36.3' N 37° 14.1' E	F.G.	26 8	3	Green concrete column, white bands; 22.	
30644 <i>D 7295.74</i>	-East Town.	19° 36.7' N 37° 13.9' E	Q.R.	36 11	7		F.W.R. (occasional) marks head of jetty 0.4 mile NW.
30648 <i>D 7295.65</i>	-W. shore of harbor Range, front.	19° 36.7' N 37° 13.4' E	F.R. (neon)			Red metal framework tower; 113.	Visible 260°-320°.
30652 <i>D 7295.655</i>	--Rear, 969 meters 305° from front.	19° 37.0' N 37° 13.0' E	F.R. (neon)			Red metal framework tower, white band; 157.	Visible 260°-320°.
30656 <i>D 7295.66</i>	-Range, front.	19° 36.7' N 37° 13.6' E	2 F.G.	17 5			Marks the anchor berths in key anchorage and should not be used for navigating the channel. Occasional.
30660 <i>D 7295.665</i>	--Rear, 197 meters 314°18' from front.	19° 36.8' N 37° 13.5' E	2 F.G.	68 21			Occasional.
30662 <i>D 7295.67</i>	-S. anchorage.	19° 36.7' N 37° 13.8' E	2 F.G. (horiz.)			Port offices, S. end.	
30662.5 <i>D 7295.68</i>	-N. anchorage.	19° 36.7' N 37° 13.8' E	2 F.G. (horiz.)			Port offices, middle.	
30664 <i>D 7295.63</i>	-Head of Quay, S. side of harbor within entrance.	19° 36.4' N 37° 13.9' E	Fl.R. period 3s fl. 1s, ec. 2s	26 8	5	Metal framework tower.	F.R. over F.G. at pilot lookout indicates vessels should not approach within 1 mile of harbor entrance.
NORTH TOWARTIT REEF ANCHORAGE:							
30668 <i>D 7295.195</i>	-N. beacon.	19° 30.5' N 37° 19.2' E	Q.R.	26 8	4	White metal framework tower, black bands, black and white checkered base; 27.	
	-RACON		D(- • •)				
30672 <i>D 7295.19</i>	-E. beacon.	19° 29.9' N 37° 20.2' E	Fl.W. period 7.5s fl. 0.7s, ec. 6.8s	27 8	5	Metal framework tower, red concrete base, white bands; 28.	
30676 <i>D 7295.17</i>	-S. beacon.	19° 28.9' N 37° 19.7' E	Fl.G. period 10s fl. 1s, ec. 9s	25 8	5	Black metal framework tower, black concrete base, white stripes; 26.	
30680 <i>D 7295.18</i>	-Elbow beacon.	19° 29.3' N 37° 17.8' E	Fl.(4)W. period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 15s	21 6	6	Red metal framework tower, red and white checkered concrete base; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30682.05 D 7295.14	-Bashayer Terminal SPM.	19° 24.2' N 37° 19.5' E	Mo.(U)W.			Buoy.	Horn: Mo.(U).
	-RACON		D(- • •)				
30682.07 D 7295.15	--Jetty, head.	19° 24.5' N 37° 18.4' E	Fl.W. period 5s	33	10		
30682.1 D 7295.12	-No 2.	19° 22.0' N 37° 19.3' E	Fl.(2)G. period 10s	26	8	7 Black framework tower, white bands, black concrete base, white stripes.	
30682.2 D 7295.08	-No 3.	19° 14.4' N 37° 20.5' E	Fl.(3)G. period 15s	26	8	7 Black framework tower, white bands, black concrete base.	
30683 D 7295.16	-No 4.	19° 28.0' N 37° 19.5' E	Q.R.	26	8	5 Red framework tower, red concrete base.	
30683.2 D 7295.11	-No 6.	19° 18.3' N 37° 22.5' E	Fl.(2)R. period 10s	26	8	5 Red framework tower, red concrete base, white stripes.	
30683.3 D 7295.09	-No 7.	19° 16.5' N 37° 23.3' E	Fl.(3)R. period 15s	26	8	5 Red framework tower, red concrete base, white stripes.	
	-RACON		B(- • • •)				
30683.4 D 7295.06	-No 8.	19° 13.3' N 37° 23.1' E	Q.W.	26	8	5 Red framework tower, red concrete base.	
30683.5 D 7295.05	-No 9.	19° 09.7' N 37° 24.5' E	Fl.W. period 10s	26	8	5 Red framework tower, red concrete base, white bands.	
	-RACON		Q(- - • -)				
30683.6 D 7295.1	-Williamson Shoals, S.	19° 17.8' N 37° 27.5' E	Fl.(2)W. period 5s	30	9	5 Red and white metal framework tower.	
30683.7 D 7295.07	-Al Mansuriyah, NW.	19° 13.9' N 37° 23.3' E	Fl.R. period 5s	33	10	5 Red metal framework tower, white bands, red base.	
30683.8 D 7295.04	-Sawakin Harbor, entrance, N.	19° 08.5' N 37° 21.9' E	Fl.(2)W. period 5s	26	8	5 Black and white metal framework tower, base.	Channel marked by beacons.
30684 D 7295.031	Hindi Gider, W. side.	19° 23.0' N 37° 54.8' E	Fl.(2)W. period 20s fl. 0.8s, ec. 1s fl. 0.8s, ec. 17.4s	87	27	10 Red metal framework tower.	
30685 D 7293.032	N. Jumah Shoal.	19° 26.5' N 37° 43.8' E	Fl.(3)W. period 10s	36	11		
30688 D 7295.03	Masamirit, E. side.	18° 49.8' N 38° 45.6' E	Fl.W. period 10s fl. 1s, ec. 9s	86	26	10 Red metal framework tower.	
30692 D 7295.025	Difnein Island.	16° 37.2' N 39° 19.4' E	Fl.(2)W. period 10s	144	44	10 White metal tower and tripod, black bands; 126.	Reserve light F.W. 7M.
30696 D 7295.024	Sheik al Abu Island.	16° 01.9' N 39° 26.2' E	Fl.W. period 10s fl. 1s, ec. 9s	61	19	9 White framework tower, black band; 56.	Visible 277°-187°.
MASSAUJA ISLAND:							
30700 D 7295.023	-Ras Mudur.	15° 36.7' N 39° 28.9' E	Iso.W. period 4s	85	26	14 Black round metal tower, white bands; 72.	Visible 150°-310°.
30704 D 7295.022	-S. breakwater, head.	15° 36.9' N 39° 28.8' E	Fl.R. period 3s fl. 1s, ec. 2s	23	7	7 White concrete tower, red bands; 8.	Traffic signals 0.2 mile SW.
30708 D 7295.021	-Abd El Kader, head of breakwater, N. side of entrance.	15° 37.0' N 39° 28.9' E	Fl.G. period 3s fl. 1s, ec. 2s	22	7	7 White concrete tower, green bands; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30720 <i>D 7295.02</i>	-Harbor Range, front.	15° 36.6' N 39° 28.2' E	F.R.	40 12	6	White metal framework tower, black bands, white square concrete base; 33.	Visible 228°30'-258°30'.
30724 <i>D 7295.019</i>	--Rear, 128 meters 243°30' from front.	15° 36.6' N 39° 28.1' E	F.R.	57 17	8	White metal framework tower, black bands, white square concrete base; 50.	Visible 239°30'-247°30'.
30728 <i>D 7295.018</i>	Madote Island, SW. part.	15° 34.7' N 39° 45.8' E	Fl.W. period 5s fl. 1s, ec. 4s	49 15	9	White metal framework tower, black bands; 43.	
30732 <i>D 7295.017</i>	Assarka Island.	15° 32.2' N 39° 55.1' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	32 10	9	White metal framework tower, black bands; 25.	
30736 <i>D 7295.016</i>	Shumma Island, S. head.	15° 31.6' N 40° 00.3' E	Fl.(3)W. period 20s fl. 0.7s, ec. 1.5s fl. 0.7s, ec. 1.5s fl. 0.7s, ec. 14.9s	108 33	9	White round metal tower; 72.	
30740	<i>Gizan N. Light Buoy.</i>	16° 56.6' N 41° 17.6' E	Iso.W. period 8s			SAFE WATER RW, pillar, topmark.	
	RACON		G(- - •)		10		(3 & 10cm).
30743 <i>D 7299.565</i>	Al Baghlah.	16° 57.1' N 41° 24.3' E	Fl.(2)W. period 10s	23 7	5	White beacon.	
30744 <i>D 7299.56</i>	-Off SW. end.	16° 56.7' N 41° 23.6' E	Fl.W. period 4s	39 12	10	Tripod; 39.	
30748 <i>D 7299.57</i>	Gizon, Middle Beacon.	17° 16.9' N 41° 33.5' E	Fl.(3)W. period 12s		12	Red daymark.	
	RACON		N(- •) period 90s		10		(3cm).
30752 <i>D 7299.58</i>	-Ghurab.	17° 06.4' N 42° 04.0' E	Fl.W. period 4s		10	Red beacon.	
	-RACON		B(- • • •) period 90s		10		(3cm).
30756 <i>D 7299.74</i>	Gizan Harbor Range, front.	16° 53.0' N 42° 32.3' E	Q.R.				
30760 <i>D 7299.741</i>	-Rear, 300 meters 096°30' from front.	16° 52.9' N 42° 32.4' E	Fl.R. period 2s				
30768 <i>D 7299.72</i>	-N. breakwater.	16° 53.1' N 42° 31.7' E	Q.R.	26 8		Red metal framework tower.	
30772 <i>D 7299.73</i>	-S. breakwater.	16° 53.0' N 42° 31.5' E	Q.G.	23 7		Green metal framework tower.	2 Mo.(U)W. mark end of pier 1.7 miles SE.
30776 <i>D 7299.7</i>	-Small craft harbor, N. breakwater, head.	16° 53.8' N 42° 32.1' E	Fl.R. period 6s		5		
30780 <i>D 7299.71</i>	--S. breakwater, head.	16° 53.7' N 42° 32.1' E	Fl.G. period 6s		5		
30784 <i>D 7300</i>	Dawharab.	16° 19.5' N 41° 58.2' E	Fl.W. period 4s	49 15	10	White daymark.	Radar reflector.
30788 <i>D 7299.6</i>	Mazarkiff Island.	16° 34.6' N 42° 21.7' E	Fl.(3)W. period 12s		15	Red tripod daymark.	
30790 <i>D 7299.59</i>	Sulain Island.	16° 45.5' N 42° 12.7' E	Fl.W. period 10s			Beacon.	
30796 <i>D 7300.5</i>	Ugban Island.	15° 28.7' N 42° 24.3' E	Fl.(2)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	85 26	12	White round tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
KAMARAN:							
30800 <i>D 7300.58</i>	-Jebel Yemen.	15° 17.3' N 42° 34.9' E	Fl.(3)W. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 9s	131 40	10	White tubular framework tower, three concrete pillars; 59.	
30804 <i>D 7300.57</i>	-Ras el Salif.	15° 18.9' N 42° 40.2' E	Q.(2)W. period 3s	20 6	5	White round tower; 20.	Radar reflector.
30808 <i>D 7300.54</i>	-Kamaran Island, N. end.	15° 27.2' N 42° 37.6' E	Fl.(2)W. period 7.5s	26 8	5	White round tower, concrete base; 19.	
30812 <i>D 7300.55</i>	-Harrison Shoal.	15° 28.9' N 42° 41.5' E	Fl.R. period 5s	20 6	5	White round tower, piles, red topmark.	
30816 <i>D 7300.52</i>	-NW. Patches.	15° 27.6' N 42° 33.3' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	5	White round tower, piles, red daymark.	
30820 <i>D 7300.53</i>	-Lansdown Shoal.	15° 31.1' N 42° 32.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	5	White round tower, piles, black daymark.	
30824 <i>D 7300.56</i>	Khawbah, fishing harbor.	15° 31.7' N 42° 44.5' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s				
30828 <i>D 7300.51</i>	-Iqban Saghir.	15° 25.1' N 42° 31.4' E	Fl.Y. period 5s fl. 0.5s, ec. 4.5s	16 5	7	Black round tower, red bands.	
30828.5 <i>D 7300.59</i>	As Salif Approach, Rashshah.	15° 10.6' N 42° 34.2' E	Fl.W. period 7s	29 9	6	Metal framework tower, concrete pillars, white rectangular daymark, black top; 26.	
30829 <i>D 7300.61</i>	Zubair Islands, Center Peak Island.	15° 01.0' N 42° 09.8' E	Fl.W. period 10s	505 154	12	Concrete tower; 46.	
30832 <i>D 7295.015</i>	Umm es Sahrig Island.	15° 04.6' N 40° 30.2' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s	88 27	9	White metal framework tower, black bands; 56.	
30840 <i>D 7295.014</i>	Sha'b Shakhs.	14° 39.0' N 41° 06.8' E	Fl.(2)W. period 22s	125 38	9	White metal tower, white tripod, black band; 121.	
30842 <i>D 7300.83</i>	Hanish Al Kabir, NE. end.	13° 46.3' N 42° 47.1' E	Fl.(2)W. period 12s		14	Red framework tower, white top; 33.	
AL MOCHA:							
30844 <i>D 7300.86</i>	-Mokha, Range, front.	13° 18.7' N 43° 14.1' E	V.Q.W.		9		
30848 <i>D 7300.861</i>	--Rear, 370 meters 137° from front.	13° 18.5' N 43° 14.2' E	Iso.W. period 2s		9		
30852 <i>D 7300.85</i>	-Breakwater, head.	13° 18.9' N 43° 13.6' E	Fl.G. period 3s		4		
BAIA DI ASSAB:							
30856 <i>D 7295</i>	-Ras Fatma.	13° 02.5' N 42° 52.4' E	Fl.(3)W. period 26s	95 29	10	Black round masonry tower, white bands; 89.	Reserve light F.W. 7M.
30860 <i>D 7295.013</i>	-Ras Gombo.	13° 01.4' N 42° 44.9' E	Fl.(2)W. period 10s	75 23	11	White tower, black bands; 43.	Reserve light F.W. 7M.
30864 <i>D 7295.01</i>	-Detached breakwater, N. head.	13° 00.1' N 42° 45.2' E	Fl.R. period 3s	15 5	5	White round tower, red bands.	
30868 <i>D 7295.005</i>	--S. head.	12° 59.7' N 42° 45.0' E	Q.G.	15 5	5	White round tower, green bands.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30872 <i>D 7295.012</i>	-N. jetty, head.	13° 00.1' N 42° 45.1' E	F.G.	15 5	5	White round tower, green bands.	
30876 <i>D 7300.7</i>	Fishing harbor.	14° 46.9' N 42° 56.7' E	Q.(2)G. period 6s				
30892 <i>D 7300.8</i>	Abu Ali Islands.	14° 04.7' N 42° 48.9' E	Fl.(2)W. period 10s	340 104	13	White square building; 30.	
BARIM (PERIM):							
30896 <i>D 7300.9</i>	-Balfe Point, W. extremity of island.	12° 39.4' N 43° 23.2' E	Fl.W. period 4s	44 13	11	Stone tower, black lantern; 26.	Visible 343°-192°. AIS.
30900 <i>D 7300.95</i>	-High Light.	12° 39.3' N 43° 25.9' E	Fl.(4)W. period 15s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 7.9s	278 85	24	Gray stone tower, embattled wall, white lantern; 81.	AIS.
GULF OF ADEN							
30902 <i>D 7318</i>	Ra's al Hadd.	22° 32.0' N 59° 47.9' E	Fl.W. period 10s fl. 0.9s, ec. 9.1s	138 42	18	Red and white metal framework tower; 125.	
RACON							
			T(-)			25	(3 & 10cm).
30903 <i>D 7316</i>	-Masirah AVIATION LIGHT.	20° 40.3' N 58° 53.3' E	F.R.	89 27	8	Control tower.	F.R. lights on radio masts NE. and W.
30903.2 <i>D 7316.2</i>	-Ra's Hilf, Milcon, jetty, SW. corner.	20° 41.2' N 58° 52.2' E	Fl.(3)R. period 10s	23 7	3	Metal post; 13.	R. lights shown on dolphins close N. and S.
30903.4 <i>D 7317</i>	-Hilf, Fish factory, breakwater, N. head.	20° 39.0' N 58° 51.9' E	Fl.G. period 5s	20 6	4	Gray metal post; 10.	
30903.6 <i>D 7317.2</i>	--N. dolphin.	20° 39.0' N 58° 51.8' E	Fl.R. period 3s	26 8	3	Gray metal post; 10.	Fl.Y. 3s marks walkway. Fl.(2)R. 5s shown on dolphin SW. Fl.Y. 5s shown on inner jetty SW.
30903.8 <i>D 7317.7</i>	-Ras an Nuqdah.	20° 44.5' N 58° 44.9' E	Fl.(2)W. period 6s	26 8	5	Gray metal post; 10.	
30904 <i>D 7313</i>	Nishtun Port.	15° 49.2' N 52° 11.9' E	Fl.W. period 9s fl. 1s, ec. 8s	138 42	18	Red tower, white band; 36.	
30908 <i>D 7313.2</i>	-Breakwater, head.	15° 49.2' N 52° 11.7' E	Fl.R. period 3s fl. 1s, ec. 2s	16 5	4	Concrete pillar; 7.	
PORT SALALAH:							
30909 <i>D 7314</i>	-Breakwater, head.	16° 57.0' N 54° 01.8' E	Iso.W. period 4s	43 13	9	Gray metal post; 36.	
30910 <i>D 7314.08</i>	-Container Berth, E. end, No 6.	16° 57.1' N 54° 01.2' E	Iso.G. period 4s	20 6	3	Gray metal post; 10.	Range 2M by day.
30910.5 <i>D 7314.5</i>	--W. end.	16° 56.6' N 54° 00.0' E	Fl.Y. period 5s	7 2	3		
30911 <i>D 7314.2</i>	-Inner Channel, 234°12'.	16° 56.1' N 54° 00.3' E	Dir.W.R.G.	131 40	5	Gray metal framework tower; 6.	F.G. 228°12'-232°49', F.W.-235°49', F.R.-240°12'. Range 2M by day.
30911.5 <i>D 7314.45</i>	-Berth No 23/24.	16° 56.4' N 54° 00.4' E	Fl.R. period 5s	20 6	3	Gray metal post; 10.	Range 2M by day.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GULF OF ADEN							
30911.6 <i>D 7314.4</i>	-Inner breakwater, head.	16° 56.5' N 54° 00.7' E	Iso.R. period 4s		5	Red steel beacon, red square daymark; 10.	
30911.7 <i>D 7313.95</i>	-Liquid terminal.	16° 56.8' N 54° 01.6' E	Fl.R. period 3s		3	Red steel beacon, red square daymark; 10.	
30913.6 <i>D 7314.3</i>	-Main Channel, 279°.	16° 57.7' N 53° 59.9' E	Dir.W.R.G.	49 15	10	Gray metal framework tower; 39.	F.G. 277°49'-278°30', Al.W.G.-278°49', F.W.- 279°49', Al.W.R.-280°, F.R.-280°49'. Range 4M by day.
30913.7 <i>D 7314.6</i>	-Fishery Harbor, S. breakwater.	16° 57.7' N 54° 00.2' E	L.F.I.R. period 8s	20 6	4	Gray metal post in cage; 7.	
30913.8 <i>D 7314.7</i>	--N. breakwater.	16° 57.7' N 54° 00.1' E	L.F.I.G. period 8s	20 6	4	Gray metal post in cage; 7.	
30913.9 <i>D 7314.55</i>	-Ra's Raysut.	16° 55.8' N 54° 00.3' E	Fl.W. period 10s	161 49	20	Gray tower, white lantern; 33.	AIS (MMSI No 004610009).
30914 <i>D 7315</i>	Marbat.	16° 59.4' N 54° 41.2' E	Fl.G. period 9s	23 7	5	Green metal post; 7.	
30920 <i>D 7312</i>	Al Mukalla.	14° 31.3' N 49° 08.8' E	Fl.W. period 5s		15	White round tower, green bands.	
30921 <i>D 7312.2</i>	-N. breakwater, head.	14° 31.4' N 49° 08.9' E	L.F.I.R. period 10s				
30923 <i>D 7311.23</i>	Balhaf.	13° 58.9' N 48° 11.2' E	Fl.W. period 5s	295 90	20		
	RACON		B(-•••)				
	ADEN:						
30928 <i>D 7311</i>	-Airport AVIATION LIGHT.	12° 52.4' N 45° 00.3' E	Oc.R. period 2s	236 72	10		Reserve light F.R.
30932 <i>D 7311.2</i>	--Airport, N.W. AVIATION LIGHT.	12° 51.1' N 45° 02.9' E	Oc.R. period 2s	180 55	10		
30936 <i>D 7304</i>	-Ras Marshag.	12° 45.8' N 45° 03.2' E	Oc.W. period 5s lt. 3s, ec. 2s	244 74	24	White tower, black band; 85	Obscured westward by Ras Taih signal station. AIS.
30940 <i>D 7308</i>	-Elephants Back.	12° 45.9' N 44° 59.3' E	Fl.W.R. period 2.5s fl. 0.2s, ec. 2.3s	188 57	24	White round stone building; 13.	R. 306°-322°, W.-061°, R.- 119°. AIS.
30944 <i>D 7309</i>	-Ras Marbut, breakwater, head.	12° 47.4' N 44° 58.2' E	L.F.I.G. period 5s fl. 2s, ec. 3s		10	Green fiberglass tower.	
30945 <i>D 7310</i>	-Inner Harbor, Aden Gulf Terminal, head.	12° 48.0' N 45° 00.1' E	Fl.R.G. period 4s		4	Metal post.	R. 036°30'-126°30', G.- 216°30'.
30948 <i>D 7301</i>	-Jazirat Salil.	12° 44.3' N 44° 55.0' E	Fl.(2)R. period 15s	65 20	3	White tower; 13.	
30949 <i>D 7302.3</i>	-Breakwater.	12° 45.9' N 44° 55.3' E	L.F.I.R. period 5s fl. 2s, ec. 3s		10	Red metal column; 20.	
30949.1 <i>D 7303</i>	-Pier, head, N.	12° 46.0' N 44° 55.0' E	F.R.		3	Post; 7.	
30949.2 <i>D 7303.2</i>	--S.	12° 46.0' N 44° 55.0' E	F.G.		3	Post; 7.	
30950 <i>D 7302</i>	-Range, front.	12° 47.1' N 44° 53.6' E	Iso.G. period 2s	33 10	10	Metal framework tower, black double diamond topmark, white bands, 59.	Obstruction lights on masts 2.5 miles NNE.
30951 <i>D 7302.1</i>	--Rear, 0.5 mile 300° from front.	12° 47.3' N 44° 53.1' E	Iso.G. period 2s	85 26	10	Metal framework tower, black double diamond topmark, white bands, 85.	Synchronized with front.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GULF OF ADEN							
30952 <i>D 7272</i>	Ras Bir.	11° 58.9' N 43° 21.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	243 74	20	White tower, red top; 164.	
30956 <i>D 7274</i>	-Obock Range, front.	11° 58.8' N 43° 17.7' E	Q.W.	98 30	5	Black and white checkered tower; 26.	
30960 <i>D 7274.1</i>	--Rear, about 700 meters 337°18' from front.	11° 59.2' N 43° 17.6' E	Q.W.	131 40	5	White tower, black bands; 23.	
30964 <i>D 7273</i>	Obock.	11° 57.6' N 43° 18.1' E	Fl.R. period 4s	10 3	8	White square tower, gray top.	
30968 <i>D 7275</i>	Ile Moucha, NE. point.	11° 43.8' N 43° 12.7' E	Fl.(3)R. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	66 20	10	Metal framework tower, dwelling; 56.	
30970 <i>D 7275.5</i>	Air France.	11° 44.7' N 43° 10.2' E	Q.W.		5	N. CARDINAL BY, beacon, topmark.	
30972 <i>D 7276</i>	Ile Maskali, W. point.	11° 42.8' N 43° 09.0' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	79 24	10	Red metal tower; 66.	May be obscured by sandstorms.
TADJOURA (F.):							
30980 <i>D 7294</i>	-Entrance Range, front, L- shaped jetty, head.	11° 47.1' N 42° 52.9' E	Q.G.		2		
30984 <i>D 7294.1</i>	--Rear, near root, about 120 meters 002°36' from front.	11° 47.1' N 42° 52.9' E	Q.G.		2		
DJIBOUTI:							
30986 <i>D 7283.5</i>	-Doraleh Oil Jetty, W.	11° 36.2' N 43° 04.7' E	V.Q.R.		6		Three lit floating beacons close S.
30986.1 <i>D 7283.52</i>	--E.	11° 36.2' N 43° 04.9' E	V.Q.R.		6		
30988 <i>D 7280</i>	-Entrance Range, front, near Riviere Amboule.	11° 33.7' N 43° 07.4' E	Q.W.	66 20	17	White chevrons, panel, red top.	Intensified 181°-187°. May be obscured by sandstorms.
30992 <i>D 7280.1</i>	-- Fort Ayabele , rear, 1020 meters 184°24' from front.	11° 33.2' N 43° 07.4' E	Q.W.	105 32	19	Panel, white bands, red top.	Intensified 181°-187°. May be obscured by sandstorms.
30996 <i>D 7286</i>	-Port du Heron Range, front.	11° 36.9' N 43° 08.7' E	Q.R.			Metal framework tower.	
31000 <i>D 7286.1</i>	--Rear, 210 meters 073°54' from front.	11° 36.9' N 43° 08.8' E	Q.R.			Metal framework tower.	
31004 <i>D 7285</i>	-Le Heron.	11° 36.7' N 43° 07.9' E	Fl.R. period 4s		7	Red beacon.	Visible 268°-118°.
31008 <i>D 7284</i>	-Recif d'Ambouli, near E. end.	11° 36.7' N 43° 07.3' E	Fl.G. period 4s fl. 1s, ec. 3s	10 3	2	White pyramid.	
31012 <i>D 7289</i>	-SW. corner Mole du Fontainbleau.	11° 36.4' N 43° 07.8' E	F.R.	20 6	2	Metal framework tower.	
31032 <i>D 7288</i>	-Banc des Salines, off E. end.	11° 36.1' N 43° 07.6' E	Fl.(3)G. period 6s	10 3	2	White square beacon.	
31036 <i>D 7283</i>	-AVIATION LIGHT.	11° 33.1' N 43° 09.0' E	Fl.(3+1)W. period 7s fl. 0.3s, ec. 0.4s fl. 0.3s, ec. 0.4s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 2.5s	82 25	22	Hangar; 49.	Occasional.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
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GULF OF ADEN

BERBERA:

31040 <i>D 7264</i>	-Tamar Point.	10° 26.6' N 44° 58.9' E	Fl.W. period 5s fl. 1s, ec. 4s	74 23	8	White column, black bands.	
31044 <i>D 7263</i>	-South of bay.	10° 25.2' N 44° 58.5' E	Oc.W. period 4s lt. 3s, ec. 1s	71 22	7	White tower, black bands.	
31048 <i>D 7266</i>	-Customs pier Range, front.	10° 26.6' N 45° 00.3' E	Q.R.	43 13	2	Red and white framework tower; 39.	
31052 <i>D 7266.1</i>	--Rear, 190 meters 068° from front.	10° 26.7' N 45° 00.4' E	Iso.R. period 4s	56 17	2	Red and white framework tower; 52.	

BENDER CASSIM (BOSASO):

31056 <i>D 7260</i>	-Range, front.	11° 17.3' N 49° 10.8' E	Q.R.		8	White post, red triangular daymark point up.	
31060 <i>D 7260.1</i>	--Rear, about 200 meters 138° from front.	11° 17.2' N 49° 10.8' E	Iso.R. period 4s		10	White post, red triangular daymark point down.	
31064 <i>D 7258</i>	Candala.	11° 28.4' N 49° 52.4' E	L.Fl.(3)W. period 30s fl. 2s, ec. 5s fl. 2s, ec. 5s fl. 2s, ec. 14s		8		
31068 <i>D 7256</i>	Alula, on residence.	11° 57.9' N 50° 45.2' E	Fl.(2)W. period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	51 16	12	White metal framework tower, dwelling; 44.	

Section 20

East Coast of Africa

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOMALIA							
31072 <i>D 7246</i>	Cape Guardafui.	11° 50.2' N 51° 16.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	864 263	18	Round masonry tower; 64.	
31076 <i>D 7242</i>	Ras Hafun, E. point.	10° 26.6' N 51° 24.8' E	Fl.(2)W. period 35s	351 107	4	White column, white building, red lantern; 42.	Visible 146°-020°. Obscured within 0.8 mile 230°-310°.
31080 <i>D 7239</i>	Bandar Beila.	9° 29.1' N 50° 48.9' E	F.W.		8		
31084 <i>D 7238</i>	Eil Marina.	7° 58.0' N 49° 50.7' E	F.R.	328 100	5	Black column, white striped; 16.	
31088 <i>D 7236</i>	Obbia (Obiat).	5° 21.2' N 48° 31.4' E	Fl.(3)W. period 10s	105 32	10	Black square hut, white bands; 33.	
31092 <i>D 7230</i>	Cadale (Itala), E. corner of residence.	2° 45.7' N 46° 19.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	39 12	8	Gray iron framework tower; 7.	
MUQDISHO (MOGADISHU):							
31096 <i>D 7218</i>	-Muqdisho.	2° 02.3' N 45° 20.0' E	Fl.W. period 12.5s fl. 1s, ec. 11.5s	243 74	32	White masonry tower; 33.	Four F.R. 0.2M SW.
31100 <i>D 7220</i>	-Betel Raz Range, front.	2° 01.8' N 45° 20.4' E	F.R.	49 15	5	White tower, black bands.	
31104 <i>D 7220.1</i>	--Rear, 180 meters 311° from front.	2° 01.9' N 45° 20.4' E	F.R.	118 36	5	White truncated pyramid, black bands; 26.	
31108 <i>D 7221</i>	-Second Range, front.	2° 01.6' N 45° 20.2' E	Q.W.	62 19		Red and white checkered tower, triangular daymark point down.	
31112 <i>D 7221.1</i>	--Rear, 140 meters 274° from front.	2° 01.6' N 45° 20.1' E	Q.W.			Metal post, concrete pillar; 20.	
31116 <i>D 7224</i>	-Third Range, front.	2° 01.4' N 45° 20.0' E	Q.W.			Metal post, concrete pillar; 20.	
31120 <i>D 7224.1</i>	--Rear, 90 meters 245° from front.	2° 01.4' N 45° 20.0' E	F.R.			Red and white column, gallery.	
31124 <i>D 7226</i>	-Port office.	2° 02.2' N 45° 21.3' E	Iso.R. period 6s	56 17	8	Black metal framework tower, white diagonal stripes; 7.	
31128 <i>D 7223</i>	-S. breakwater, head.	2° 01.5' N 45° 20.5' E	Oc.R. period 6s	36 11	7		
31132 <i>D 7222</i>	-Breakwater, head.	2° 01.8' N 45° 21.0' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	33 10	5	Beacon; 20.	
MÉRCA:							
31136 <i>D 7212</i>	-Range, front, behind Mosque of Sceich Ozman.	1° 43.0' N 44° 46.0' E	F.G.	33 10	4	White square concrete tower; 21.	Obscured when bearing less than 315°.
31140 <i>D 7212.1</i>	--Rear, NW. corner of city, about 131 meters 343° from front.	1° 42.7' N 44° 46.3' E	Fl.W. period 8.5s	115 35	20	White round concrete tower; 56.	
31144 <i>D 7210</i>	Punta Agarre Range, front.	1° 41.3' N 44° 44.8' E	F.R.	39 12	8	White pyramid, black stripes; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOMALIA							
31148 <i>D 7210.1</i>	-El Mugne (Munghia), rear, about 2.2 kilometers 240° from front.	1° 40.5' N 44° 43.2' E	F.R.	49 15	7	Black metal framework tower, white stripes; 26.	
31152 <i>D 7206</i>	Brava, about 1353 meters 120° from beacon on summit.	1° 07.0' N 44° 01.9' E	Fl.W. period 5s fl. 1s, ec. 4s	177 54	10	White pyramidal tower; 25.	
31156 <i>D 6852</i>	Fiume Giuba, N. side, about 686 meters E. of village of Giumbo.	0° 15.0' S 42° 37.7' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	121 37	8	Black square masonry tower, white truncated pyramid; 30.	
BAIA DI CHISIMAYU:							
31160 <i>D 6842</i>	-Isola dei Serpenti.	0° 22.8' S 42° 33.3' E	Fl.W. period 4s	115 35	12	Round masonry tower on white square dwelling.	
			F.R.		5		Visible 250°30'-262°30'.
31161 <i>D 6842.9</i>	-Passo Nord Range, front, 5.75 miles 246°35' to common rear.	0° 22.4' S 42° 33.5' E	Oc.G. period 2s			White beacon.	
31161.5 <i>D 6843</i>	--Common rear.	0° 24.7' S 42° 28.3' E	Q.G.			Black and white beacon.	
31162 <i>D 6843.1</i>	-Passo di Levante Range, front, 0.77 mile 269°25' to common rear.	0° 24.7' S 42° 29.0' E	Oc.G. period 2s			Black and white beacon.	
31163 <i>D 6844</i>	-Passo Interno Range, front.	0° 22.7' S 42° 30.9' E	Oc.G. period 2s	89 27		Black and white beacon.	
31163.1 <i>D 6844.1</i>	--Rear, 360 meters 325°15' from front.	0° 22.6' S 42° 30.8' E	Q.G.			Black and white beacon.	
31164 <i>D 6845</i>	-Harbor entrance Range, front.	0° 21.9' S 42° 32.6' E	Oc.G. period 2s				
31164.1 <i>D 6845.1</i>	--Rear, 830 meters 008° from front.	0° 21.5' S 42° 32.6' E	Q.G.				
31165 <i>D 6846</i>	-Pier, head.	0° 23.2' S 42° 32.5' E	Q.R.		3	Black and white checkered tower, red lantern; 10.	
31165.2 <i>D 6846.2</i>	-Wharf, NW. head.	0° 23.2' S 42° 32.6' E	F.R.				
31165.4 <i>D 6846.4</i>	--Inner elbow.	0° 23.3' S 42° 32.7' E	F.R.				
31165.6 <i>D 6846.6</i>	--Root.	0° 23.2' S 42° 32.8' E	F.R.				
31166 <i>D 6847</i>	-Range, front.	0° 26.5' S 42° 28.4' E	Oc.G. period 2s			White beacon.	
31166.1 <i>D 6847.1</i>	--Rear, 0.68 mile 234°25' from front.	0° 26.9' S 42° 27.8' E	Q.G.			White beacon.	
31172 <i>D 6848</i>	-Isola Pescicane.	0° 26.3' S 42° 30.6' E	Fl.R. period 4s	22 7	6		
KENYA							
31176 <i>D 6832</i>	Shela Range, front.	2° 18.0' S 40° 54.7' E	Q.W.	20 6	6	Black concrete column, white base.	
31180 <i>D 6832.1</i>	-Rear, 380 meters 014°58' from front.	2° 17.8' S 40° 54.8' E	Fl.W. period 8s	49 15	8	Red and white fiberglass column.	Visible 244°-064°. AIS (MMSI No 996340015).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
KENYA							
31188 <i>D 6828</i>	Kipini.	2° 31.8' S 40° 31.8' E	Fl.W. period 7s fl. 0.5s, ec. 6.5s	95 29	10	White fiberglass tower; 30.	
31192 <i>D 6824</i>	Malindi, 168 meters 190° from Vasco da Gama's Pillar.	3° 13.6' S 40° 07.7' E	Fl.W. period 10s fl. 1s, ec. 9s	83 25	14	White framework tower; 44.	F.R. range lights, 212°30', shown 0.6 mile NW.
31196 <i>D 6825</i>	-About 1372 meters 002° from Malindi.	3° 12.8' S 40° 07.7' E	Q.R.	18 5	9	White concrete beacon; 16.	Visible when bearing more than 240°.
31200 <i>D 6820</i>	Kilifi Creek.	3° 38.0' S 39° 52.0' E	Fl.W. period 8s	130 40	9	White metal framework tower, white topmark; 26.	
31204 <i>D 6818</i>	Cannon Point.	3° 57.7' S 39° 45.8' E	Fl.W. period 10s	63 19	11	White square concrete structure, black bands; 44.	
MOMBASA:							
31208 <i>D 6772</i>	-Ras Serani Range, front.	4° 04.3' S 39° 40.8' E	Q.W.	33 10	8	White tower; 39.	AIS (MMSI No 996340012).
31212 <i>D 6772.1</i>	--Rear, about 330 meters 301°45' from front.	4° 04.2' S 39° 40.7' E	Fl.W. period 5s fl. 1s, ec. 4s	147 45	18	White stone tower, black bands; 108.	Visible 214°-034°. AIS (MMSI No 996340057).
31216 <i>D 6774</i>	-Ras Kiberamini Range, front.	4° 02.8' S 39° 40.7' E	Q.W.		6	White column, black bands.	Visible 256°-076°.
31220 <i>D 6774.1</i>	--Rear, 490 meters 346° from front.	4° 02.6' S 39° 40.6' E	Fl.W. period 2s		6	White column.	Visible 256°-076°.
31224 <i>D 6775</i>	-Ras Matani.	4° 03.9' S 39° 40.9' E	Q.R.		4	White beacon; 20.	
31228 <i>D 6784</i>	-Entrance Range, front.	4° 05.0' S 39° 40.2' E	Q.R.	37 11	3	Red and white fiberglass tower.	Visible 148°-328°.
31232 <i>D 6784.1</i>	--Rear, 354 meters 238° from front.	4° 05.1' S 39° 40.0' E	Fl.R. period 2s	52 16	3	Red and white fiberglass tower.	Visible 148°-328°.
31236 <i>D 6796</i>	-Likoni.	4° 05.0' S 39° 40.1' E	Dir.W.R.G. period 5s	69 21	2	White obelisk; 39.	Iso.R. 122°30'-127°30', Iso.W.-130°30', Iso.G.- 135°30'.
31240 <i>D 6794</i>	-Mtongwe Range, front.	4° 03.7' S 39° 38.5' E	Q.R.	33 10	3	Red and white fiberglass tower.	
31244 <i>D 6794.1</i>	--Rear, 250 meters 309° from front.	4° 03.6' S 39° 38.4' E	Fl.W. period 2s	93 28	6	White obelisk.	Visible 220°-040°.
31256 <i>D 6812</i>	-Ras Mchangamwe Range, front.	4° 02.5' S 39° 38.4' E	Q.R.		2	Building.	
31260 <i>D 6812.1</i>	--Rear 200 meters 343° from front.	4° 02.4' S 39° 38.3' E	Fl.W. period 2s		6	Stone beacon; 62.	Visible 253°-073°.
31264 <i>D 6812.5</i>	-No 13.	4° 02.6' S 39° 38.4' E	Q.(6)+L.Fl.W. period 15s			S. CARDINAL Black and yellow metal pole.	
31267 <i>D 6814</i>	-Shimanzi Oil Terminal, front.	4° 02.7' S 39° 38.5' E	Fl.(3)R.	33 10	3	Red and white fiberglass pillar.	
31267.1 <i>D 6814.1</i>	--Rear, 350 meters 071° from front.	4° 02.6' S 39° 38.7' E	Fl.W. period 2s		6	Red and white fiberglass pillar.	Visible 061°-341°.
31268 <i>D 6770</i>	Chale Island, SW. extremity.	4° 26.8' S 39° 32.0' E	Fl.(2)W. period 20s fl. 1s, ec. 2s fl. 1s, ec. 16s	98 30	12	Silver metal framework tower.	
31272 <i>D 6769</i>	Pungutiayu.	4° 42.2' S 39° 24.4' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	52 16	10	White fiberglass tower, black bands; 52.	Visible 105°-025°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TANZANIA							
PEMBA ISLAND:							
31276 D 6746	-Ras Kigomasha.	4° 52.4' S 39° 40.8' E	Fl.(4)W. period 24s	125 38	17	Gray metal framework tower;	89. Visible 009°-275°.
31280 D 6751	-Matumbe Makupa.	5° 24.3' S 39° 33.9' E	Fl.(3)W. period 20s fl. 0.8s, ec. 1.5s fl. 0.8s, ec. 1.5s fl. 0.8s, ec. 14.6s	107 33	16	White tower, red bands;	100.
31284 D 6748	-Kohani Mkoani Channel Range, front.	5° 22.0' S 39° 39.0' E	Q.R.	12 4	5	Black structure, white bands;	20.
31288 D 6748.1	--Rear, 82 meters 127°40' from front.	5° 21.7' S 39° 38.5' E	Fl.R. period 6s	63 19	5	Black structure, white bands;	20. Shown on request.
TANGA BAY:							
31296 D 6754	-Ulenge Island Range, front.	5° 00.7' S 39° 10.0' E	Q.W.	38 12	11	White concrete tower;	48.
31300 D 6754.1	--Rear, 320 meters 319° from front.	5° 00.3' S 39° 10.0' E	L.F.I.W. period 12s fl. 4.5s, ec. 7.5s	85 26	15	White square stone tower, black band;	85.
31304 D 6758	-Ulenge Reef.	5° 02.4' S 39° 09.8' E	Fl.G. period 6s fl. 0.6s, ec. 5.4s	22 7		White concrete beacon.	
31308 D 6756	-Ninule Reef.	5° 03.5' S 39° 11.9' E	Fl.R. period 2s fl. 0.2s, ec. 1.8s	24 7		White concrete beacon, red band.	
31316 D 6759.55	-Tanga Island Range, front.	5° 03.5' S 39° 06.7' E	Fl.W. period 2s	35 11	7	White concrete tower.	
31316.1 D 6759.56	--Rear, 75 meters 234° from front.	5° 03.5' S 39° 06.6' E	Fl.W. period 7s		8		
31320 D 6763	-Inner Harbor.	5° 03.9' S 39° 06.8' E	Q.R.	13 4	5	White concrete tower.	
31324 D 6761.4	-Outer end of landing.	5° 04.0' S 39° 06.0' E	F.R.				
31328 D 6759	-Kwawa Reef Beacon.	5° 04.0' S 39° 08.0' E	Fl.G. period 2.5s fl. 0.5s, ec. 2s			White concrete beacon.	
31332 D 6757	-Ras Kazone Range, front.	5° 03.2' S 39° 07.6' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	28 9	10	White concrete tower;	38.
31336 D 6757.1	--Rear, 560 meters 266° from front.	5° 03.3' S 39° 07.3' E	Fl.W. period 10s	94 29	9	Mast, white concrete tower, black stripe;	72. Traffic signals.
ZANZIBAR ISLAND:							
31340 D 6742	-Ras Nungwi.	5° 43.3' S 39° 18.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	60 18	13	White square tower, red lantern;	Obscured when bearing less than 086°.
31344 D 6740	-Mwana Wa Mwana Island, N. extremity.	5° 45.3' S 39° 13.2' E	Fl.W. period 10s fl. 1s, ec. 9s	85 26	14	White square tower;	76.
31356 D 6738	--Mangapwani, on cliff N. of village.	5° 57.3' S 39° 10.9' E	Fl.W. period 15s	116 35	9	White square tower, red base on south side;	76.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TANZANIA							
-Zanzibar Harbor:							
31368 <i>D 6732</i>	--Bet el Ras Range, on beach, front.	6° 07.4' S 39° 12.8' E	Fl.R. period 1.5s	20	6	Beacon; 20.	
31372 <i>D 6732.1</i>	--Rear, 230 meters 042° from front.	6° 07.3' S 39° 12.9' E	Oc.R. period 6s	40	12	Beacon; 42.	Visible 000°-085°.
31376 <i>D 6726</i>	--Marubi Palace Gardens Range, front.	6° 08.4' S 39° 12.6' E	Q.W.	32	10	8 White pyramidal stone tower; 20.	
31380 <i>D 6726.1</i>	---Rear, 384 meters 168° from front.	6° 08.6' S 39° 12.6' E	Iso.W. period 6s	93	28	8 White framework tower, white square stone tower; 42.	Visible 166°-170°.
31384 <i>D 6718</i>	--Shangani.	6° 09.6' S 39° 11.4' E	F.W.	145	44	16 Clock tower.	
31388 <i>D 6721</i>	--Boat camber, wharf, head.	6° 09.3' S 39° 11.5' E	F.R.	16	5	5 White metal column, black bands; 10.	
31392 <i>D 6722</i>	--Shangani, boat camber breakwater, head.	6° 09.2' S 39° 11.5' E	F.G.	20	6	3 Black metal framework tower, white concrete base.	
31404 <i>D 6706</i>	--SW. of Kiungani Mission Range, front.	6° 11.3' S 39° 12.0' E	Q.W.	30	9	8 White square metal framework tower, black stripe; 45.	
31408 <i>D 6706.1</i>	---Rear, 1006 meters 033° from front.	6° 10.9' S 39° 12.3' E	Fl.W. period 6s fl. 1s, ec. 5s	130	40	8 White beacon; 43.	
31416 <i>D 6704</i>	-Chumbe.	6° 16.8' S 39° 10.6' E	Fl.W. period 11s fl. 1s, ec. 10s	122	37	16 White square tower; 113.	Visible 299°-196°.
31424 <i>D 6702</i>	-Pungume Island.	6° 26.3' S 39° 20.5' E	Fl.W. period 3s fl. 0.2s, ec. 2.8s	85	26	15 White square tower, black stripes; 71.	
31428 <i>D 6700</i>	Ras Makunduchi.	6° 25.9' S 39° 33.8' E	Fl.(2)W. period 15s fl. 0.8s, ec. 1.5s fl. 0.8s, ec. 11.9s	145	44	18 White tower, red bands; 90.	
DAR ES SALAAM:							
31431 <i>D 6673</i>	-Inner Makatambe range LM7, front in line 051° with Outer Makatambe rear light.	6° 47.7' S 39° 19.9' E	Q.W.	49	15		
31432 <i>D 6672</i>	-Outer Makatambe.	6° 47.5' S 39° 20.2' E	Fl.(3)W. period 20s	96	29	15 White square tower, red bands; 95.	
-Rear light LM8.							
31436 <i>D 6674</i>	-Oyster Bay Range, outer anchorage, front.	6° 47.0' S 39° 17.2' E	Q.W.	65	20	12 White stone tower, red stripes; 29.	
31440 <i>D 6674.1</i>	--Rear, 400 meters 247° from front.	6° 47.0' S 39° 17.0' E	Fl.W. period 7.5s fl. 1.5s, ec. 6s	123	37	17 White stone tower, red stripe; 85.	
31444 <i>D 6684</i>	-Ras Rangoni Range LM3, front.	6° 48.9' S 39° 18.8' E	Q.W.	36	11	Red beacon.	
31448 <i>D 6684.1</i>	--Rear LM4, 260 meters 188° from front.	6° 49.1' S 39° 18.8' E	Iso.W.	72	22		
31451 <i>D 6698</i>	-Range LM11, front.	6° 49.2' S 39° 17.3' E	Q.W.	56	17		
31451.1 <i>D 6698.1</i>	--Rear LM12, 255 meters 333°42' from front.	6° 49.1' S 39° 17.3' E	Iso.W.	82	25	Building.	
31453 <i>D 6697</i>	-Vijibweni Range LM9, front.	6° 51.3' S 39° 18.3' E	Q.W.	69	21		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TANZANIA							
31453.1 <i>D 6697.1</i>	--Rear LM10, 100 meters 153°42' from front.	6° 51.3' S 39° 18.4' E	Iso.W.		89 27		
31476 <i>D 6694</i>	-Kurasini Range LM5, front.	6° 49.8' S 39° 17.3' E	Q.W.		118 36	Beacon, red triangular daymark point up.	
31480 <i>D 6694.1</i>	--Rear LM6, 240 meters 231° from front.	6° 49.9' S 39° 17.2' E	Iso.W.		144 44	Building.	
31484 <i>D 6668</i>	Ras Kanzi , S. of Ras Kimbiji.	7° 01.2' S 39° 33.0' E	Fl.W. period 10s			17 White tower, red bands; 33.	
31492 <i>D 6666</i>	Ras Mkumbi .	7° 38.5' S 39° 54.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s		102 31	16 White square tower, red bands; 98.	
LINDI RIVER:							
31500 <i>D 6654</i>	-Ras Shuka.	9° 58.9' S 39° 48.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s		50 15	6 White tower; 20.	
31504 <i>D 6656</i>	-Entrance Range, front.	9° 59.5' S 39° 42.8' E	Fl.W. period 2s fl. 0.8s, ec. 1.2s		22 7	9 Gray concrete obelisk; 12.	
31508 <i>D 6656.1</i>	--Rear, 1000 meters 240° from front.	9° 59.7' S 39° 42.3' E	L.Fl.W. period 6s fl. 2s, ec. 4s		178 54	15 Gray wooden beacon; 30.	
31516 <i>D 6650</i>	Ras Msamgamkuu.	10° 12.5' S 40° 14.0' E	Fl.W. period 10s fl. 1s, ec. 9s		85 26	11 White metal framework tower; 68.	Visible 054°-290°.
31520 <i>D 6651</i>	Mtwara Harbor Range, front.	10° 15.0' S 40° 11.8' E	Q.W.		40 12	7 White framework tower; 30.	
31524 <i>D 6651.1</i>	-Rear, 225 meters 154° from front.	10° 15.1' S 40° 11.9' E	Fl.W. period 2.5s		63 19	9 White framework tower; 30.	
31528 <i>D 6653</i>	Ras Jandoni Range, front.	10° 15.6' S 40° 11.5' E	Fl.W. period 2s				
31532 <i>D 6653.1</i>	-Rear, 715 meters 189° from front.	10° 15.9' S 40° 11.4' E	Fl.(2)W. period 5s				
MOZAMBIQUE							
31536 <i>D 6648</i>	Cabo Delgado .	10° 41.4' S 40° 38.2' E	Fl.(2)W. period 12s fl. 1.5s, ec. 2s fl. 1.5s, ec. 7s		138 42	16 White hexagonal concrete tower, dwelling; 118.	
31540 <i>D 6647</i>	Ilha Vamizi, E. point of island.	11° 00.6' S 40° 42.9' E	Fl.(2)W. period 6s fl. 0.3s, ec. 2s fl. 0.3s, ec. 3.4s		43 13	8 White round tower.	
31556 <i>D 6642</i>	Ilha Tambuzi.	11° 22.1' S 40° 39.0' E	Fl.(2)W. period 10s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 7.2s		121 37	11 White round concrete tower, black bands; 85.	
31560 <i>D 6641</i>	Ilheu Quero-Niuni.	11° 38.3' S 40° 33.6' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s		30 9	6 White square tower.	Radar reflector.
31564 <i>D 6640</i>	Ilha Medjumbe, E. point.	11° 49.0' S 40° 36.5' E	Fl.(2)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s		105 32	10 White truncated conical concrete tower, gallery; 85.	
31568 <i>D 6636</i>	Ilha do Ibo, Mujaca Island, N. head.	12° 19.9' S 40° 37.4' E	Fl.W. period 12s fl. 0.6s, ec. 11.4s		59 18	10 White tower, dwelling; 49.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOZAMBIQUE							
31572 <i>D 6637</i>	-Porto do Ibo.	12° 20.7' S 40° 34.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	19 6	5	White tower, black band; 20.	
31576 <i>D 6634</i>	Ponta do Diabo.	12° 44.8' S 40° 37.8' E	Fl.(2)W. period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	27 8	10	White square masonry tower; 20.	
BAIA DE PORTO AMELIA:							
31580 <i>D 6628</i>	-Ponta Said-Ali.	12° 55.7' S 40° 30.7' E	Fl.G. period 4s	33 10	5	White cubic base, red tower; 29.	
31584 <i>D 6630</i>	-Ponta Romero.	12° 57.0' S 40° 30.3' E	Fl.R. period 4s	26 8	5	White conical beacon; 16.	
31588 <i>D 6632</i>	-Ponta Mepira.	12° 57.8' S 40° 28.9' E	Fl.R. period 2s	17 5	5	Red round tower; 19.	
31592 <i>D 6624</i>	-Ponta Maunhane.	12° 58.3' S 40° 35.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	75 23	16	Black tower, white band, white square masonry base, white dwelling; 39.	
31596 <i>D 6622</i>	Punta Uifundo.	13° 24.1' S 40° 34.3' E	Fl.(2)W. period 16s fl. 0.8s, ec. 2.4s fl. 0.8s, ec. 12s	112 34	11	Red square framework tower; 69.	
31600 <i>D 6620</i>	Chaonde Point, Baia Almeida.	13° 42.2' S 40° 32.7' E	Fl.W. period 10s fl. 1s, ec. 9s	151 46	9	White square hut; 7.	
31604 <i>D 6618</i>	Pinda.	14° 12.6' S 40° 42.6' E	Fl.(2)W. period 10s	210 64	24	Black conical stone tower, dwelling, white bands, red top; 102.	
31608 <i>D 6611</i>	Cabo Melamo.	14° 24.7' S 40° 48.3' E	Iso.W. period 4s	32 10	14	White framework tower on square tower; 20.	Radar reflector.
PORTO DE NACALA:							
31612 <i>D 6612</i>	-Ponta Sacamulo.	14° 28.1' S 40° 40.0' E	Fl.G. period 2s	26 8	5	White framework tower, square tower; 16.	Visible 163°-013°. Radar reflector.
31616 <i>D 6611.3</i>	-W. side entrance.	14° 27.1' S 40° 38.7' E	Fl.(3)W.R.G. period 9s	35 11	W. 12 R. 8 G. 8	White square framework tower, black top; 20.	G. 200°-233°, W.-241°, R.- 271°.
31620 <i>D 6612.4</i>	-Nacala Range, front.	14° 29.0' S 40° 40.9' E	Q.R.	23 7	12	Tripod, red rectangular daymark, yellow stripe; 13.	
31624 <i>D 6612.5</i>	-Rear, 567 meters 155°30' from front.	14° 29.3' S 40° 41.0' E	Iso.R. period 4s	125 38	12	Tripod, red rectangular daymark, yellow stripe; 10.	
31628 <i>D 6611.6</i>	-Fernaio Veloso, on Punta Naarenque.	14° 27.5' S 40° 40.5' E	Fl.R. period 3s	26 8	6	White framework tower, square tower; 16.	Visible 357°-242°. Radar reflector.
31632 <i>D 6613</i>	-Ponta Zuani, on spit.	14° 30.0' S 40° 40.2' E	Fl.R. period 4s fl. 0.4s, ec. 3.6s	17 5	5	White three-pile concrete structure; 16.	
31636 <i>D 6614</i>	-Ponta Namuaxi.	14° 31.5' S 40° 39.3' E	Fl.G. period 4s	17 5	5	White three-pile concrete structure; 16.	Visible 178°-025°.
31640 <i>D 6610</i>	Ponta Onlungune, Janga.	14° 40.5' S 40° 50.1' E	Fl.(3)W. period 13.5s	46 14	10	White four-sided concrete framework tower, black bands; 39.	
PORTO DE MOCAMBIQUE:							
31652 <i>D 6602</i>	-Ilheu de Sao Lourenco, No 1 Range, front.	15° 03.1' S 40° 43.6' E	Fl.W. period 3.4s fl. 0.4s, ec. 3s	10 3	14	Hut, white triangular daymark point up; 7.	Visible 232°-322°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOZAMBIQUE							
31656 <i>D 6602.1</i>	--Sancul, rear, 3.5 km. 260° from front.	15° 03.4' S 40° 41.7' E	Fl.W. period 4s fl. 0.2s, ec. 3.8s	70 21	5	Tower, pyramid; 52.	Visible 224°-284°.
31660 <i>D 6598</i>	-Entrance Range No 2, front.	15° 03.1' S 40° 47.0' E	Q.W.	45 14	6	White tower, pyramid; 46.	Visible 107°30'-167°30'.
31661 <i>D 6598.1</i>	-- Ilha de Goa , rear, 410 meters 127° from front.	15° 03.2' S 40° 47.2' E	Fl.(2)W. period 12s	98 30	16	White square masonry tower, red bands, dwelling; 102.	Aeromarine light.
31672 <i>D 6606</i>	-Customhouse Pier, NW. side of Ilha de Mocambique.	15° 01.8' S 40° 44.2' E	F.R.	9 3	3	White tide gauge hut; 7.	
31676 <i>D 6606.1</i>	--Middle of pier.	15° 01.8' S 40° 44.2' E	Fl.R. period 4s fl. 0.4s, ec. 3.6s	9 3	3	White hut; 13.	In line with pierhead light indicates anchorage range.
31680 <i>D 6604</i>	-Capitania.	15° 02.0' S 40° 44.1' E	F.G.	50 15	5	White hut, piles; 49.	
31684 <i>D 6596</i>	Ponta Namalungo.	15° 38.2' S 40° 24.9' E	Fl.(4)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	276 84	10	White square concrete framework tower; 62.	Visible 227°-029°. Reserve light F.W. 15M.
31688 <i>D 6592</i>	Sangage.	16° 00.1' S 40° 07.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	306 93	19	Dark red hexagonal concrete tower, white bands; 85.	
PORTO DE ANTONIO ENES:							
31692 <i>D 6591</i>	-Parapato.	16° 13.6' S 39° 54.7' E	Fl.W. period 4s	220 67	9	White truncated conical tower, building; 26.	
31696 <i>D 6591.2</i>	-Baixo Monico.	16° 14.4' S 39° 53.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	13 4	4	White beacon, red bands.	
31700 <i>D 6591.4</i>	-Port office.	16° 14.0' S 39° 54.1' E	Fl.(2)G. period 6s	37 11	4	White masonry tower, building; 26.	
31704 <i>D 6590</i>	Ilha de Mafamede.	16° 21.2' S 40° 01.8' E	Fl.(2)R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	78 24	12	White hexagonal tower; 82.	Visible 029°-049° and 206°- 221°.
31708 <i>D 6586</i>	Ponta Caldeira.	16° 39.5' S 39° 30.5' E	Fl.(3)R. period 10s fl. 0.5s, ec. 1.2s fl. 0.5s, ec. 1.2s fl. 0.5s, ec. 6.1s	164 50	18	White octagonal concrete tower, dwelling; 89.	
31712 <i>D 6582</i>	Ilha Epidendron.	17° 05.2' S 39° 07.2' E	Fl.(2)R. period 8s	102 31	8	White square framework tower, red bands; 79.	
31716 <i>D 6580</i>	Ilha do Fogo, E. side.	17° 13.9' S 38° 53.0' E	Fl.W.R.G. period 12s fl. 0.8s, ec. 11.2s	115 35	W. 14 R. 10 G. 11	White four-sided concrete framework tower; 112.	
31720 <i>D 6576</i>	Ponta Matirre.	17° 16.5' S 38° 11.0' E	Fl.(2+1)W. period 12s	165 50	13	White iron framework tower, red bands; 43.	
31724 <i>D 6575</i>	Macuse, on Ponta Namerrumo Point, W. side of entrance to Rio Macuse.	17° 46.5' S 37° 11.1' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	69 21	4	White square concrete framework tower; 66.	
PORTO DE QUELIMANE:							
31732 <i>D 6573.4</i>	-Port office.	17° 52.7' S 36° 52.9' E	F.G.	23 7	5	Red column; 10.	
31736 <i>D 6574</i>	-Recamba.	17° 53.4' S 36° 52.8' E	Fl.R. period 6s fl. 0.4s, ec. 5.6s	23 7	3	Red column; 16.	

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MOZAMBIQUE							
31740 <i>D 6570</i>	Vilhena.	18° 05.7' S 36° 55.4' E	Fl.(2)W. period 12s fl. 0.8s, ec. 4.5s fl. 0.8s, ec. 5.9s	102 31	14	Red metal framework tower, white bands; 89.	
31744 <i>D 6566</i>	Porto do Chinde, Farol Inhamiara.	18° 31.3' S 36° 31.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	72 22	14	White square framework tower, hut; 33.	
31748 <i>D 6567</i>	Praia do Chinde, about 1 mile SW. of Pta. Liberal.	18° 35.2' S 36° 27.6' E	Fl.(2)W. period 6s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	35 11	7	White framework tower, dwelling; 36.	
31752 <i>D 6564</i>	Ilha Timbue.	18° 49.8' S 36° 20.8' E	Fl.W. period 8s fl. 0.8s, ec. 7.2s	135 41	13	Red metal framework tower, white bands.	
31756 <i>D 6563</i>	Machesse.	19° 16.9' S 35° 33.1' E	Fl.(2)W. period 10.1s fl. 0.5s, ec. 2.1s fl. 0.5s, ec. 7s	154 47	14	Aluminum framework tower, red bands; 131.	
31760 <i>D 6562</i>	Savane.	19° 39.3' S 35° 10.3' E	L.Fl.W. period 12s fl. 2s, ec. 10s	172 52	7	White framework tower, black bands; 131.	
31764 <i>D 6553</i>	Rio Macuti.	19° 50.6' S 34° 54.0' E	Fl.(3)W. period 10s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 6.7s	118 36	19	White round tower, red bands; 92.	Aero Radiobeacon 5 miles NNW.
	RACON		M(- -)		15		(3 & 10cm).
31768 <i>D 6554</i>	--Antenna Tower AVIATION LIGHT.	19° 49.9' S 34° 51.8' E	Iso.R. period 2.5s	294 90	12	Metal framework tower; 292.	3 F.R. (vert.) lights on tower.
31772	-Buoy A.	19° 56.2' S 35° 02.8' E	Mo.(A)W. period 8s			SAFE WATER RW, pillar, topmark.	
	-RACON		C(- • - •)		15		(3 & 10cm).
31780 <i>D 6548</i>	Ilha Chiloane Chingune Point.	20° 37.1' S 34° 53.1' E	F.W.	26 8	8	Metal column, white concrete base; 39.	
31784 <i>D 6546</i>	Ponta Ingomaimo, N. extremity.	20° 42.9' S 34° 59.6' E	Fl.W. period 6s fl. 0.8s, ec. 5.2s	141 43	13	White hexagonal concrete tower, black band; 131.	
31788 <i>D 6540</i>	Cabo Bazaruto.	21° 32.0' S 35° 29.2' E	Fl.(3)W. period 30s	381 116	23	White round tower, dwelling; 85.	Visible 020°-357°.
31792 <i>D 6542</i>	Ilha do Santa Carolina.	21° 36.9' S 35° 20.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	73 22	8	Square concrete tower; 23.	
31796 <i>D 6544</i>	Mucoque, on Ponta Chue.	21° 59.0' S 35° 19.0' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	56 17	5	White square tower; 13.	
31800 <i>D 6538</i>	Ponta Sao Sebastiao, near S. end of spit.	22° 16.4' S 35° 31.9' E	Fl.(5)W. period 15s fl. 0.8s, ec. 1.1s fl. 0.8s, ec. 1.1s fl. 0.8s, ec. 1.1s fl. 0.8s, ec. 1.1s fl. 0.8s, ec. 6.6s	125 38	12	Red tower, white band, on white dwelling; 26.	
31804 <i>D 6536</i>	Ponta da Barra Falsa.	22° 56.8' S 35° 35.6' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.3s fl. 0.3s, ec. 7.1s	404 123	18	White four-sided tower; 46.	
31808	<i>Inhambane Lighted Buoy</i> , 914 meters E. of bar.	23° 40.0' S 35° 30.0' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s			Black and white striped buoy.	
31812 <i>D 6532</i>	Ponta da Barra.	23° 47.7' S 35° 32.2' E	Fl.(3)W. period 10s	81 25	29	White round tower; 44.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOZAMBIQUE							
31816 <i>D 6530</i>	Cabo das Correntes.	24° 06.4' S 35° 30.1' E	Fl.(4)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	112 34	13	White square tower; 16.	
31820 <i>D 6528</i>	Ponta Zavora.	24° 31.4' S 35° 11.8' E	Fl.W. period 10s	220 67	19	White masonry tower and dwelling; 53.	
	RACON		Z(- - • •)				
31824 <i>D 6526</i>	Quissico.	24° 45.0' S 34° 48.4' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	188 57	10	White framework tower; 20.	
31828 <i>D 6524</i>	Baizos da Boa Paz.	24° 57.9' S 34° 10.2' E	Fl.(3)W. period 10s fl. 0.3s, ec. 1.9s fl. 0.3s, ec. 1.9s fl. 0.3s, ec. 5.3s	244 74	15	White round tower; 26.	
BAIA DE LOURENCO MARQUES:							
31832 <i>D 6522</i>	-Monte Belo.	25° 11.3' S 33° 30.1' E	Fl.W. period 4.5s	305 93	20	White stone tower, dwelling; 46.	
31836 <i>D 6491</i>	-Lacerda.	25° 33.8' S 32° 50.6' E	Fl.(3)W. period 12s	200 61	5	Aluminum framework tower, white rectangular daymark; 33.	Difficult to distinguish due to vegetation.
	-RACON		O(- - -)				(3 & 10cm).
31838	-Buoy No 1N.	25° 38.3' S 32° 53.0' E	Q.W.			N. CARDINAL BY, pillar, topmark.	
	-RACON		C(- • - •)				
31840 <i>D 6491.4</i>	-Macomana.	25° 40.7' S 32° 46.2' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s		12	Tripod, white building.	
31848 <i>D 6492.1</i>	-Cabo da Inhaca.	25° 58.6' S 32° 59.3' E	Fl.(2+1)W. period 15s	357 109	23	White hexagonal tower; 102.	Aeromarine light. Visible 224°-212°.
			Iso.R. period 4s		12		Visible 212°-224° over Baixo Danae Shoal.
31868 <i>D 6500</i>	-Baixo Ribeiro.	25° 54.7' S 32° 48.1' E	Iso.W.R. period 5s	49 15	W. 15 R. 12	White round concrete structure; 43.	R. 076°-244°, W.-076°.
31876 <i>D 6503</i>	-Canal da Polana Range, front.	25° 58.0' S 32° 37.4' E	Oc.W. period 8s	66 20	25	Framework tower, dolphin, red rectangular daymark, yellow stripe; 59.	Visible 250°-255°. AIS (MMSI No 990066010).
	-RACON		KT(- • - -)				
31880 <i>D 6503.1</i>	--Miradouro , rear, 2976 meters 252°30' from front.	25° 58.5' S 32° 35.7' E	Oc.W. period 8s lt. 4.5s, ec. 3.5s	226 69	25	Red rectangular daymark, yellow stripe.	Visible 250°-255°. AIS (MMSI No 990066009).
	--RACON		TS(- • • •)				
31884 <i>D 6508</i>	--No 2 Range, front.	25° 59.9' S 32° 34.7' E	Oc.R. period 4s lt. 3s, ec. 1s	36 11	12	Dolphin, red rectangular daymark, yellow stripe; 36.	Visible 219°-259°. AIS (MMSI No 990066012).
31888 <i>D 6508.1</i>	---Catembe rear, S. bank of river 1865 meters 239° from front.	26° 00.4' S 32° 33.8' E	Oc.R. period 4s	98 30	12	Red rectangular daymark, yellow stripe; 39.	Visible 219°-259°. AIS (MMSI No 990066011).
31892 <i>D 6512</i>	--Pier, head.	25° 58.8' S 32° 33.7' E	Fl.R. period 5s	10 3	5	White column; 10.	Visible 135°-355°.
31896 <i>D 6514</i>	-Luz do Cais, NW. extremity of Molhe da Capitania.	25° 58.6' S 32° 34.2' E	Fl.(2)G. period 6s	28 9	4	White round building, gallery, mast; 23.	Visible 295°-125°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOZAMBIQUE							
31900 <i>D 6517</i>	-Dredged channel, No 1 Range, front.	25° 56.7' S 32° 30.2' E	Oc.R. period 8s	16 5	12	Framework tower, red rectangular daymark, yellow stripe.	Visible 276°-316°.
31904 <i>D 6517.1</i>	--Rear, about 805 meters 296° from front.	25° 56.5' S 32° 29.8' E	Oc.R. period 8s	75 23	12	Framework tower, red rectangular daymark, yellow stripe.	Visible 276°-316°. Synchronized with front.
31912 <i>D 6518.1</i>	-Dredged channel, No 2 Range, rear, 1,527 meters 070° from front.	25° 56.9' S 32° 32.6' E	Iso.G. period 4s	124 38	10	Framework tower, red rectangular daymark, yellow stripe.	Visible 050°-090°. Unlit front beacon.
31928 <i>D 6488</i>	Ponta do Ouro.	26° 51.4' S 32° 53.3' E	Fl.(2)W. period 10s	374 114	15	White concrete tower, white dwelling; 16.	
SOUTH AFRICA							
31932 <i>D 6486</i>	Jesser Point.	27° 32.7' S 32° 40.7' E	Fl.(4)W. period 40s fl. 1s, ec. 4s fl. 1s, ec. 4s fl. 1s, ec. 4s fl. 1s, ec. 24s	200 61	25	White round concrete tower, red lantern; 36.	Range 6M by day.
31936 <i>D 6485</i>	Cape Vidal.	28° 08.9' S 32° 33.1' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	213 65	25	Yellow round concrete tower, red lantern; 75.	Range 5M by day.
31940 <i>D 6484</i>	Cape St. Lucia.	28° 30.9' S 32° 24.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	371 113	24	White metal tower, black bands, white dome; 26.	Visible 210°-030°.
31944 <i>D 6483</i>	Richard's Bay.	28° 46.5' S 32° 07.7' E	Fl.(3)W. period 15s fl. 0.4s, ec. 2s fl. 0.4s, ec. 2s fl. 0.4s, ec. 9.8s	236 72	25	White square concrete tower, round top; 36.	
31948 <i>D 6483.2</i>	-Range, front.	28° 47.5' S 32° 02.2' E	Oc.(2)R. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	180 55		Framework tower; 168.	F.R. by day.
31952 <i>D 6483.21</i>	--Rear, 0.8 mile 290°15' from front.	28° 47.0' S 32° 00.5' E	Oc.(2)W. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	240 73		Framework tower; 223.	FW. by day.
31956 <i>D 6483.4</i>	-S. breakwater, head.	28° 48.9' S 32° 05.9' E	Fl.W. period 3s fl. 0.1s, ec. 2.9s	59 18	6	White tower, red bands; 33.	
	-RACON		N(- •)		12		(3 & 10cm).
31960 <i>D 6483.45</i>	-N. breakwater, head.	28° 48.3' S 32° 05.9' E	Fl.(2)G. period 5s	49 15	6	Black tower, white bands; 33.	
31962 <i>D 6483.5</i>	-N. Headland.	28° 48.4' S 32° 05.6' E	F.G.			Metal post; 23.	
31963 <i>D 6483.52</i>	-Pelican Island, W. groin, S. head.	28° 47.9' S 32° 05.1' E	Q.G.			Post; 16.	
31963.2 <i>D 6483.53</i>	---N. head.	28° 47.7' S 32° 05.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s			Post; 16.	
31963.4 <i>D 6483.54</i>	--E. groin.	28° 48.0' S 32° 05.3' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s			Post; 16.	
31963.6 <i>D 6483.57</i>	--E. breakwater.	28° 47.9' S 32° 05.5' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s			Post; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
31964 <i>D 6482</i>	Durnford Point.	28° 54.9' S 31° 55.3' E	Fl.(3+1)W. period 40s fl. 0.1s, ec. 6.6s fl. 0.1s, ec. 6.6s fl. 0.1s, ec. 13.2s fl. 0.1s, ec. 13.2s	184 56	19	White round concrete structure; 39.	Visible 246°-070°.
	RACON		O(---)		12		(3 & 10cm).
31968 <i>D 6480</i>	Umhlanga Rocks.	29° 43.7' S 31° 05.3' E	Fl.(3)W. period 20s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 14.7s	79 24	24	White round concrete tower, red top; 69.	
			F.R.		10		Visible 010°-030°.
31972 <i>D 6481</i>	Tugela Bluff.	29° 13.3' S 31° 30.3' E	Fl.(4)W. period 30s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 14.6s	115 35	23	White round concrete tower, 3 black bands; 72.	Range 5M by day.
DURBAN:							
31974 <i>D 6461</i>	-Anglo-American Building.	29° 51.5' S 31° 01.3' E	Fl.W. period 7s	472 144	25	Building.	Private light.
31975 <i>D 6461.5</i>	-Holiday Inn.	29° 51.2' S 31° 02.3' E	F.W.	357 109	8	Building.	Private light.
31976	-Fairway Buoy.	29° 50.0' S 31° 05.6' E	Iso.W. period 2s			SAFE WATER RW, pillar, topmark.	
	-RACON		B(-•••)		12		(3cm).
31977 <i>D 6463</i>	-The Bluff, AVIATION LIGHT.	29° 53.3' S 31° 02.8' E	F.R.		5		
31978 <i>D 6464</i>	-S. pier, head.	29° 51.9' S 31° 03.8' E	Fl.(2)W. period 5s fl. 0.1s, ec. 1.1s fl. 0.1s, ec. 3.7s	46 14	18	Round metal tower, red platform; 26.	
31979 <i>D 6466</i>	-N. pier, head.	29° 52.0' S 31° 03.5' E	Fl.G. period 3s	46 14	15	Round metal tower, green platform; 33.	
31984 <i>D 6472</i>	-Channel Range, front.	29° 53.1' S 31° 02.7' E	Iso.R. period 2s	69 21	12	Gray framework tower, yellow triangular daymark, point up.	
31988 <i>D 6472.1</i>	--Rear, 1040 meters 215°30' from front.	29° 53.6' S 31° 02.4' E	Oc.W. period 4s	141 43	14	Gray framework tower, yellow triangular daymark point down.	
31990 <i>D 6473.3</i>	-Salisbury Island, N. corner pier.	29° 52.9' S 31° 02.4' E	Q.(2)W. period 3s			Metal column.	
31992 <i>D 6475</i>	-Island View Channel Range, front.	29° 53.4' S 31° 01.6' E	Fl.W. period 3s	72 22		Black framework tower, yellow triangular daymark point up.	
31996 <i>D 6475.1</i>	--Rear, 84 meters 243°30' from front.	29° 53.5' S 31° 01.5' E	Oc.R. period 4s	82 25		Black framework tower, yellow triangular daymark point down.	
31997 <i>D 6475.2</i>	-Small craft basin, W. head.	29° 51.8' S 31° 01.7' E	Fl.(2)R. period 5s				
31998 <i>D 6475.3</i>	--E. head.	29° 51.8' S 31° 01.8' E	Fl.(2)G. period 5s				
31999 <i>D 6476</i>	-S. corner, T-Jetty, head.	29° 52.3' S 31° 02.1' E	Fl.G. period 1.5s				
32000 <i>D 6478</i>	-Beach Anchorage Beacon.	29° 48.9' S 31° 02.3' E	Q.W.	52 16	5	Gray post.	F.W. 3M, floodlit, by day.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
32001 <i>D 6476.2</i>	--NW. head.	29° 52.2' S 31° 01.9' E	Q.W.			Metal post; 23	Neon
32002 <i>D 6477</i>	-No 1 Pier, NE. corner.	29° 52.6' S 31° 02.0' E	Fl.R. period 3s			Metal column; 23.	Neon
32003 <i>D 6477.2</i>	--NW. corner.	29° 52.6' S 31° 01.8' E	Fl.W. period 3s			Metal column; 23.	Neon.
32005 <i>D 6477.4</i>	-No 2 pier, NE. corner.	29° 52.7' S 31° 01.4' E	Q.(2)R. period 3s			Metal column.	Neon.
32006 <i>D 6477.5</i>	-Fish wharf.	29° 54.1' S 31° 00.4' E	Q.G.	20 6	2	Metal post, yellow base.	
32020 <i>D 6458</i>	Cooper.	29° 56.1' S 31° 00.3' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	436 133	26	Red concrete tower, white band, red lantern; 69.	
32024	<i>S.B.M.</i>	30° 00.5' S 30° 58.4' E	Fl.W. period 3s				
32028	Widenham RACON	30° 13.3' S 30° 47.5' E	K(- • -)		12		(3 & 10cm).
32032 <i>D 6454</i>	Green Point.	30° 14.9' S 30° 46.6' E	Fl.(2)W. period 15s	279 85	30	Secondary structure: Red round iron tower, white bands; 69.	Visible 213°-022°. F.R. lights on radio tower 3.3 miles SW.
			F.R.	248 76	15		Visible over Aliwal Shoal 268°-298°.
32036	Scottburgh RACON	30° 17.2' S 30° 45.4' E	G(- - •)		12		(3 & 10cm).
32040 <i>D 6452</i>	Ifafa Beach.	30° 27.8' S 30° 39.1' E	Fl.(3)W. period 30s fl. 0.7s, ec. 4.3s fl. 0.7s, ec. 4.3s fl. 0.7s, ec. 19.3s	115 35	19	Metal framework tower, triangular daymark point up; 75.	Shown by day.
32044 <i>D 6450</i>	Port Shepstone.	30° 44.5' S 30° 27.5' E	Fl.W. period 6s fl. 0.3s, ec. 5.7s	79 24	26	Black and white checkered metal tower, white lantern; 26.	Visible 215°-028°. F.R. and Q.W. lights on radio tower 8.7 miles W.
32048 <i>D 6448</i>	North Sand Bluff.	31° 03.4' S 30° 13.6' E	Fl.(2)W. period 10s fl. 0.3s, ec. 3s fl. 0.3s, ec. 6.4s	125 38	24	White round concrete tower, red lantern; 72.	Visible 217°-034°.
32052 <i>D 6446</i>	South Sand Bluff.	31° 19.7' S 29° 57.7' E	Fl.W. period 10s fl. 0.2s, ec. 9.8s	246 75	18	White round concrete tower, red lantern; 33.	
32056 <i>D 6442</i>	Cape Hermes.	31° 38.1' S 29° 33.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	180 55	21	Octagonal stone tower, white top; 43.	Visible 230°-040° and to 159° in the entrance.
32060 <i>D 6438</i>	Mbashe Point.	32° 14.4' S 28° 55.0' E	Fl.(2+1)W. period 38s fl. 0.3s, ec. 5.1s fl. 0.3s, ec. 16s fl. 0.3s, ec. 16s	151 46	28	White metal framework tower, red dome; 46.	
32064 <i>D 6434</i>	Cape Morgan.	32° 42.4' S 28° 21.9' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	197 60	24	Black framework tower, yellow bands, square daymark; 39.	Shown by day.
EAST LONDON:							
32068 <i>D 6432</i>	-Nahoon Point.	32° 59.9' S 27° 56.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	222 68	8	White tower, red band.	
32072 <i>D 6426</i>	-E. breakwater, head.	33° 01.6' S 27° 55.0' E	Q.G.	32 10	14	White concrete tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
32076 <i>D 6424</i>	-S. breakwater, head.	33° 01.7' S 27° 55.5' E	Fl.R. period 2s fl. 0.1s, ec. 1.9s	52 16	16	White concrete tower.	Horn: Mo.(Q) ev. 30s (bl. 2.5s, si. 2s, bl. 2.5s, si. 2s, bl. 1s, si. 2s, bl. 2.5s, si. 15.5s).
32080 <i>D 6424.2</i>	--Root.	33° 01.7' S 27° 55.2' E	Q.W.			White square concrete tower.	Visible 044°-224°. For use inside harbor.
32084 <i>D 6428</i>	-Castle Point Range, front.	33° 01.7' S 27° 54.9' E	FR.	68 21		Metal framework tower, white triangular daymark point up.	
32088 <i>D 6428.1</i>	--Rear, 363 meters 249°45' from front.	33° 01.8' S 27° 54.7' E	Oc.W. period 3s	197 60		Framework tower, red and white bands, white triangular daymark point down; 154.	
32092 <i>D 6420</i>	Hood Point.	33° 02.4' S 27° 53.9' E	Fl.(4)W. period 40s fl. 0.5s, ec. 4.2s fl. 0.5s, ec. 4.2s fl. 0.5s, ec. 4.2s fl. 0.5s, ec. 25.4s	180 55	28	White round masonry tower, red cupola; 60.	Visible 235°-233°.
32096 <i>D 6416</i>	Great Fish Point.	33° 31.2' S 27° 06.4' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	279 85	30	White octagonal tower, black stripes, red cupola; 30.	F.R. lights on radio mast 6.8 miles WSW.
32100 <i>D 6414</i>	Port Alfred, S. breakwater, head.	33° 36.3' S 26° 54.2' E	Q.R.	30 9	5	Square framework tower; 13.	
32104 <i>D 6412</i>	Bird Islands.	33° 50.5' S 26° 17.3' E	Fl.(2)W. period 20s fl. 0.5s, ec. 2.2s fl. 0.5s, ec. 16.8s	96 29	27	Red square masonry tower, white band, white cross on N. and S. sides; 85.	
PORT ELIZABETH							
32105 <i>D 6411</i>	-E. breakwater head.	33° 49.1' S 25° 41.6' E	Q.G.	59 18	14	Round concrete tower, platform; 36.	Horn: Mo.(N) ev. 20s (bl. 6s, si. 2s, bl. 2s, si. 10s). Sounded in fog.
32105.1 <i>D 6411.2</i>	-Inner.	33° 48.6' S 25° 41.8' E	Fl.G. period 2s	49 15	7	Metal post; 26.	
32105.2 <i>D 6411.44</i>	-Liquid bulk quay.	33° 48.0' S 25° 41.4' E	FR.	36 11		Metal post; 20.	Neon.
32105.3 <i>D 6411.4</i>	-S. quay, SE.	33° 48.0' S 25° 41.3' E	FG.	36 11		Metal post; 20.	Neon.
32105.4 <i>D 6411.39</i>	-Container quay, NW.	33° 47.9' S 25° 40.9' E	FR.	36 11		Metal post; 20.	Neon.
32105.5 <i>D 6411.3</i>	-W. breakwater.	33° 48.5' S 25° 41.4' E	Fl.R. period 2s	56 17	7	Metal post; 36.	
32106 <i>D 6410.6</i>	-Range, front.	33° 47.6' S 25° 41.7' E	Oc.R. period 4s	121 37	4	White framework tower, red bands, orange square daymark; 59.	Shown 24 hours.
32106.1 <i>D 6410.61</i>	--Rear, about 580 meters 009°30' from front.	33° 47.3' S 25° 41.8' E	Oc.W. period 4s	187 57	6	White framework tower, red bands, orange square daymark; 23.	Shown 24 hours.
32106.2 <i>D 6410.5</i>	-Ngqura Harbor Range, front.	33° 48.4' S 25° 40.7' E	Oc.W. period 3s lt. 2s, ec. 1s	230 70	7	White framework tower, red bands, orange rectangular daymark, white stripe; 167.	Shown 24 hours.
32106.3 <i>D 6410.51</i>	--Rear, 1011 meters 342°24' from front.	33° 47.8' S 25° 40.5' E	Oc.W. period 6s lt. 4s, ec. 2s	338 103	8	White framework tower, red bands, orange rectangular daymark, white stripe; 197.	Shown 24 hours.
32108 <i>D 6400</i>	-Deal.	33° 54.9' S 25° 36.8' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	89 27	24	Framework tower, red lantern, square daymark; 72.	F.R. lights on radio masts 6.8 miles SW, 1.2 miles and 2.8 miles WSW.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
32110	-Fairway Buoy.	33° 55.6' S 25° 40.4' E	Iso.W. period 2s			SAFE WATER RW, pillar, topmark.	
	-RACON		C(- • - •)		12		(3 & 10cm).
32116 D 6404	-S. breakwater, extension.	33° 57.2' S 25° 38.6' E	V.Q.(2)R. period 6s	52 16	14	White concrete tower.	Horn: Mo.(Q) ev. 30s (bl. 4s, si. 2s, bl. 4s, si. 2s, bl. 2s, si. 2s, bl. 4s, si. 10s). Sounded in fog.
32120 D 6405	-S. breakwater, root-167°45'.	33° 57.8' S 25° 38.6' E	Dir.W.R.G.	122 37	12	Framework tower; 102.	F.G. 148°-162°, Q.G.-166°, F.W.-170°, Q.R.-174°, F.R.-188°.
32124 D 6403	-Range, front.	33° 57.3' S 25° 37.2' E	Q.R.	118 36	19	Red framework tower, white bands, square daymark; 102.	Shown 24 hours.
32128 D 6403.1	--Rear, about 496 meters 238° from front.	33° 57.4' S 25° 36.9' E	Oc.W. period 5s lt. 3s, ec. 2s	197 60	24	White post; 16.	Shown 24 hours.
32132 D 6406	-N. Arm, Charl Malan Quay, inner head.	33° 57.5' S 25° 38.5' E	F.G.	26 8	2	White metal post; 10.	Neon.
32136 D 6407	--Outer head.	33° 57.3' S 25° 38.3' E	V.Q.(3)G. period 5s	52 16	14	White metal post; 33.	Neon traffic signals.
32137 D 6407.5	--Range, front.	33° 57.7' S 25° 37.7' E	F.R.	39 12	2	Metal post, yellow and black chevron; 19.	Neon.
32137.1 D 6407.51	---Rear, 180 meters 263° from front.	33° 57.7' S 25° 37.6' E	F.G.	46 14	2	Metal post, yellow and black chevron; 30.	Neon.
32137.2 D 6408.2	-Berth No 9.	33° 57.8' S 25° 38.2' E	F.R.	30 9	2	White metal post; 10.	Neon.
32137.3 D 6408	-No 3 quay.	33° 57.7' S 25° 38.2' E	F.G.	30 9	2	White metal post; 10.	Neon.
32137.4 D 6409	-Fisheries jetty.	33° 58.0' S 25° 38.1' E	Iso.G. period 2s	26 8	2	White metal post; 13.	Neon.
32137.5 D 6409.5	-Tanker berth.	33° 57.8' S 25° 38.6' E	F.R.	23 7	2	Metal pole; 10.	Neon.
32137.6 D 6409.7	-Ore berth, E. quay.	33° 57.9' S 25° 38.5' E	F.R.	30 9	2	Metal post; 10.	Neon.
32137.7 D 6409.6	--W. quay.	33° 58.0' S 25° 38.3' E	Iso.R. period 2s	30 9	2	Metal post; 10.	Neon.
32144 D 6390	Cape Recife.	34° 01.7' S 25° 42.0' E	L.Fl.(3)W.R. period 117s fl. 2.8s, ec. 27s fl. 2.8s, ec. 27s fl. 2.8s, ec. 54.6s	92 28	W. 29 R. 15	White octagonal tower, black bands, red dome; 79.	W. 190°-162°, R.-190°.
			F.W.R.	92 28	W. 21 R. 10		W. 190°-162°, R.-190°. Under certain atmospheric conditions only flash may be seen.
32148 D 6386	Cape St. Francis.	34° 12.8' S 24° 50.2' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	118 36	28	White round masonry tower; 92.	Visible 224°-shore. F.R. on radio masts 23 and 29 miles WNW. Horn: Mo.(C) ev. 30s (bl. 4s, si. 2s, bl. 1.5s, si. 2s, bl. 4s, si. 2s, bl. 1.5s, si. 13s). Sounded in fog. On request.
32150 D 6386.1	Kromme Bay.	34° 11.7' S 24° 52.2' E	Q.(3)W. period 5s	30 9	7	White pole; 10.	
32152 D 6384	Cape Seal.	34° 06.4' S 23° 24.4' E	Fl.(2)W. period 30s fl. 0.3s, ec. 9.7s fl. 0.3s, ec. 19.7s	469 143	15	White metal framework tower, yellow round daymark; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
MOSELBAAI:							
32164 <i>D 6380</i>	-Aliwai Harbor, mole, head.	34° 10.7' S 22° 08.8' E	F.R.	46 14	4	Column; 26.	
32168 <i>D 6381</i>	-Range, front.	34° 08.4' S 22° 06.7' E	F.R.			Column; 49.	Occasional.
32172 <i>D 6381.1</i>	--Rear, 240 meters 288°30' from front.	34° 08.3' S 22° 06.6' E	F.W.			Column; 49.	Occasional.
32176 <i>D 6381.2</i>	-Range, front.	34° 10.2' S 22° 07.3' E	F.R.	79 24		Column; 33.	Occasional.
32180 <i>D 6381.3</i>	--Rear, 160 meters 198° from front.	34° 10.2' S 22° 07.3' E	F.W.	125 38		Column; 26.	Occasional.
32184 <i>D 6379</i>	-Breakwater, head.	34° 10.5' S 22° 08.8' E	Iso.R.	52 16	12	Red framework tower; 39.	
32188 <i>D 6382</i>	-No 4 Quay, NW. corner.	34° 10.6' S 22° 08.7' E	Fl.G. period 3s	43 13	4	Column; 26.	Vertical neon strip light.
32189 <i>D 6382.1</i>	--NE. corner.	34° 10.6' S 22° 08.8' E	F.G.	46 14	4	Column; 26.	Vertical neon strip light.
32190 <i>D 6382.5</i>	<i>Oil terminal SBM.</i>	34° 08.7' S 22° 08.5' E	Mo.(U)Y. period 15s fl. 0.4s, ec. 0.5s fl. 0.4s, ec. 0.5s fl. 1.2s, ec. 12s		2	Yellow superbuoy.	Horn: 1 bl. ev. 30s (bl. 3s, si. 27s).
32192 <i>D 6378</i>	-Cape St. Blaize.	34° 11.2' S 22° 09.4' E	Fl.(2)W. period 15s	240 73	25	White four-sided masonry tower; 46.	Obscured within 0.5 mile of Cape Vacca. Visible 110°-052°. Horn: Mo.(F) ev. 60s. Sounded in fog.
32194	Agulhas Bank RACON.	34° 54.8' S 21° 42.5' E	X(- • • -)		12		(3 & 10cm).
32196 <i>D 6374</i>	Yzervark Point.	34° 23.6' S 21° 43.7' E	Fl.W. period 10s	164 50	24	White round concrete structure, red diagonal stripe, red lantern; 72.	Shown 24 hours.
32200 <i>D 6372</i>	Stilbaai, jetty, head.	34° 23.1' S 21° 25.6' E	Iso.R. period 2s	13 4	5	Red column.	
32204 <i>D 6371</i>	Cape Infanta.	34° 28.3' S 20° 50.8' E	Fl.(3)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 14.5s	174 53	24	Framework tower, square daymark, red lantern; 49.	Range 5M by day.
32204.5 <i>D 6370.4</i>	Struispunt.	34° 41.4' S 20° 14.1' E	Fl.(3)W. period 15s fl. 0.4s, ec. 1s fl. 0.4s, ec. 1s fl. 0.4s, ec. 11.8s	39 12	11	Pyramidal concrete tower, white circular daymark, red stripes.	
32205 <i>D 6370.3</i>	Arniston.	34° 40.0' S 20° 13.9' E	Q.R.	7 2	2	Pole; 7.	
32206 <i>D 6370.1</i>	Struisbaai Harbor, S. breakwater.	34° 47.7' S 20° 03.7' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	19 6	5	White hut, red bands.	
32206.2 <i>D 6370.2</i>	-Directional light.	34° 47.9' S 20° 03.4' E	Dir.W.R.G.	26 8	3	Red post.	F.G. 254°-266°, F.W.-270°, F.R.-282°.
32208 <i>D 6370</i>	Cape Agulhas.	34° 49.7' S 20° 00.6' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	102 31	30	Red round tower, white band, lantern; 89.	
32212 <i>D 6332</i>	Quoin Point.	34° 46.8' S 19° 38.5' E	Fl.(2)W. period 10s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 6.9s	112 34	16	Framework tower, red diamond daymark, white bands; 69.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
32216 <i>D 6320</i>	Danger Point.	34° 37.8' S 19° 18.1' E	L.FI.(3)W. period 40s fl. 2s, ec. 4s fl. 2s, ec. 4s fl. 2s, ec. 26s	148 45	27	White octagonal masonry tower, red dome, white lantern; 56.	Obscured in Walker Bay on bearings more than 180°. Horn: Mo.(D) ev. 15s. (bl. 4s, si. 2s, bl. 1.5s, si. 2s, bl. 1.5s, si. 4s).
32220 <i>D 6306</i>	-W. breakwater.	34° 35.1' S 19° 20.4' E	Fl.W. period 4s fl. 0.3s, ec. 3.7s	33 10	6		
32224 <i>D 6307</i>	-W. breakwater, head.	34° 35.1' S 19° 20.5' E	Fl.(2)G. period 5s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 3.7s		4		
32228 <i>D 6308</i>	-W. jetty, head.	34° 35.2' S 19° 20.5' E	Fl.(2)R. period 5s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 3.7s		4		
32232 <i>D 6300</i>	-N. breakwater.	34° 35.0' S 19° 20.7' E	Q.R.	26 8	5	Tower.	
32236 <i>D 6304</i>	-S. breakwater.	34° 35.0' S 19° 20.7' E	Q.G.	26 8	5	Tower.	
32240 <i>D 6290</i>	Hermanus, S. breakwater.	34° 26.1' S 19° 13.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	22 7	8	White square concrete tower.	
32244 <i>D 6280</i>	Cape Hangklip.	34° 23.2' S 18° 49.7' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	107 33	25	White round concrete tower, black band, red lantern; 72.	
GORDONS BAY:							
32248 <i>D 6262</i>	-W. breakwater, head.	34° 09.7' S 18° 51.5' E	Q.G.	16 5	7	White square concrete tower, green band; 13.	Fl.R. 5M and Fl.G. 5M mark marina 0.7 mile NW.
32252 <i>D 6260</i>	-E. breakwater, head.	34° 09.8' S 18° 51.6' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	16 5	7	White square concrete tower, red band; 13.	
32253 <i>D 6240</i>	Harbor Island, W. breakwater.	34° 09.1' S 18° 51.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	27 8	5	Red pole, cylindrical base; 10.	
32254 <i>D 6241</i>	-E. breakwater.	34° 09.1' S 18° 51.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	27 8	5	Green pole, cylindrical base; 10.	
32264 <i>D 5913</i>	Tierberg, Aero obstruction light.	33° 52.5' S 18° 35.8' E	Fl.R. period 1.7s		18		Obstruction lights F.R. 1.9 miles NNE. 1300 feet in height.
32268 <i>D 5912</i>	-Aero obstruction light.	33° 50.1' S 18° 35.3' E	Fl.R. period 1.7s		18		1300 feet in height.
32272 <i>D 6200</i>	Kalk Bay, breakwater, outer head.	34° 07.7' S 18° 27.2' E	L.FI.R. period 15s fl. 2.5s, ec. 12.5s	22 7	6	Tower; 16.	
32276 <i>D 6224</i>	-Inner mole, head.	34° 07.7' S 18° 27.1' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	14 4	2		
SIMONS BAY:							
32280 <i>D 6140</i>	-Roman Rocks.	34° 10.9' S 18° 27.7' E	Fl.W. period 6s fl. 0.1s, ec. 5.9s	56 17	20	White round tower, white lantern; 46.	
	-RACON		Q(- - • -) period 48s		12		(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
32284 D 6141	-N. spur, breakwater, head.	34° 11.1' S 18° 26.3' E	Fl.(3)W. period 7s fl. 1s, ec. 0.5s fl. 1s, ec. 0.5s fl. 1s, ec. 3s	43 13	15	White column, red lantern; 36.	Visible 140°-290°.
32288 D 6143	-Outer breakwater, entrance, E. side.	34° 11.1' S 18° 26.3' E	Q.R.	27 8	5	White column, red lantern; 23.	
32292 D 6143.1	--W. side.	34° 11.2' S 18° 26.2' E	Q.G.	27 8	4	White column, green lantern; 23.	
32296 D 6143.2	--Elbow.	34° 11.3' S 18° 26.1' E	Fl.R. period 15s fl. 1s, ec. 14s	46 14	4	White column, red lantern; 13.	Visible 340°-220°.
32300 D 6144	-N. elbow of dockyard, E. breakwater.	34° 11.2' S 18° 26.5' E	Oc.W. (neon) period 4s lt. 2.5s, ec. 1.5s	57 17	11	Tower; 43.	Visible 055°-315°.
32302 D 6154	-Range, front.	34° 11.5' S 18° 25.6' E	Iso.W. period 2s		3	White building.	
32302.1 D 6154.1	--Rear, 139 meters 210° from front.	34° 11.5' S 18° 25.6' E	Iso.R. period 2s		3	Red brick building.	
32304 D 6146	-E. dockyard, breakwater.	34° 11.3' S 18° 26.4' E	F.R.	24 7	3	Column; 23.	
32308 D 6150	-W. dockyard, breakwater.	34° 11.3' S 18° 26.2' E	F.G.	24 7	3	Column; 23.	
32310 D 6147	-Range, front.	34° 11.5' S 18° 26.5' E	Iso.W. period 2s			Red pole, building, orange triangular daymark point up; 10.	
32310.1 D 6147.1	--Rear, 186 meters 142°30' from front.	34° 11.6' S 18° 26.6' E	Iso.R. period 2s			Building.	
32312 D 6151	-New Inner Basin, W. side of entrance.	34° 11.4' S 18° 26.2' E	F.G.				
32316 D 6151.1	--E. side of entrance.	34° 11.0' S 18° 26.0' E	F.R.				
32318 D 6153	-W. dockyard, W. pier, head.	34° 11.5' S 18° 25.8' E	2 F.R. (horiz.)				
32319 D 6176	-Seal Island.	34° 08.2' S 18° 35.0' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s		7	Metal pole; 10.	
32324 D 6120	Cape of Good Hope.	34° 21.0' S 18° 29.0' E	Fl.(2+1)W. period 30s fl. 0.6s, ec. 3.6s fl. 0.6s, ec. 12.3s fl. 0.6s, ec. 12.3s	285 87	32	Square masonry tower, white lantern; 30.	Visible 153°-106°.
			F.R.	253 77	15		Visible 299°-023°.

For continuation of lights in the Republic of South Africa, see Pub. 113.

Section 21

Islands in the Indian Ocean

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MADAGASCAR							
32328 <i>D 6914</i>	-Cap d'Ambre.	11° 57.4' S 49° 16.4' E	Fl.W. period 5s fl. 0.4s, ec. 4.6s	231 70	23	Octagonal concrete tower; 105.	Visible 067°-321°. Aeromarine light.
BAIE DE DEIGO-SUAREZ:							
32332 <i>D 6920</i>	-Ilot des Aigrettes, on summit of island.	12° 13.4' S 49° 19.0' E	Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	59 18	W. 10 R. 7 G. 6	White building, black lantern; 26.	W. 272°-275°, R.-285°, G.-033°, W.-038°, R.-265°, G.-272°.
32336 <i>D 6922</i>	--Antsiranana, Port Office.	12° 16.1' S 49° 17.3' E	Iso.W.R.G. period 4s	43 13	W. 13 R. 10 G. 9	Yellow tower, house, black cupola; 39.	W. 021°30'-207°, G.-220°, W.-227°, R.-237°30', obscured elsewhere. F.R. light shown on radio masts 0.9 and 1.4 miles S.W.
32340 <i>D 6924</i>	--Port Militaire, N. jetty, head.	12° 16.4' S 49° 17.0' E	F.R.	7 2		White metal framework tower, red bands.	
32344 <i>D 6925</i>	---Detached breakwater, N. head.	12° 16.4' S 49° 17.0' E	F.G.	7 2		White metal framework tower, red bands.	
32348 <i>D 6926</i>	---Entrance Range, front.	12° 16.5' S 49° 17.1' E	F.G.	20 6		Green pylon; 16.	Visible 089°-159°. Occasional.
32352 <i>D 6926.1</i>	---Rear, 80 meters 124° from front.	12° 16.5' S 49° 17.2' E	F.W.	52 16		Green metal framework tower; 20.	Visible 089°-159°. Occasional.
32356 <i>D 6918</i>	-Cap Mine.	12° 14.0' S 49° 22.0' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	154 47	23	White octagonal tower, dwelling, black lantern; 46.	Visible 137°-077°.
32360 <i>D 6919</i>	-Cape Andranomady, NW. extremity.	12° 13.8' S 49° 21.4' E	Fl.R. period 4s	36 11	5	White octagonal stone tower, red top; 33.	Visible 060°-280°. Occasional.
BAIE DE MANGERIVY:							
32364 <i>D 6930</i>	-Nosy Akao.	12° 48.3' S 49° 49.9' E	Fl.(4)W. period 20s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 9.8s	151 46	19	White octagonal tower, black top; 66.	Visible 115°-055°.
VOHEMAR:							
32368 <i>D 6936</i>	-No 3, S. point of the N. reef Range, front.	13° 21.0' S 50° 00.2' E	F.G.	13 4	5	White beacon, green top; 23.	Occasional.
32372 <i>D 6936.1</i>	--Rear, W. side of bay near summit of 55 meter hill, 260° from front.	13° 21.3' S 49° 58.3' E	Oc.W. period 4s lt. 3s, ec. 1s	207 63	10	White pyramidal tower, hut; 26.	
32376 <i>D 6938</i>	-Beacon No 4, off N. point of S. reef.	13° 21.0' S 50° 00.8' E	F.R.	23 7	5	Red tower; 20.	Shown on request.
32380 <i>D 6939</i>	-Pointe de Hiarambazaha.	13° 21.3' S 50° 00.5' E	F.R.	20 6	3	Red and white checkered tower; 13.	Shown on request.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MADAGASCAR							
SAMBAVA:							
32384 <i>D 6942</i>	-Beacon C.	14° 14.0' S 50° 07.0' E	Oc.(3)W. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	249 76	10	White tower; 33.	Visible 150°-060°.
32388 <i>D 6943</i>	-Beacon A, Anchorage Range, front.	14° 15.1' S 50° 09.3' E	F.R.	30 9	3	White tower, red top.	Range lights shown only on request. <i>Temporarily extinguished (1983).</i>
32392 <i>D 6943.1</i>	--Rear, Beacon D, about 1079 meters 196° from front.	14° 15.8' S 50° 09.1' E	F.R.	102 31	7	White beacon.	Visible on range only. Shown on request.
32396 <i>D 6945</i>	Antalaha, root of pier at customhouse.	14° 53.0' S 50° 15.0' E	F.R.	20 6	3	Support painted red, red lantern.	Shown on request.
32400 <i>D 6944</i>	-Range, front.	14° 53.7' S 50° 16.6' E	F.G.	23 7	11	White beacon; 23.	Intensified 274°-279°. Occasional.
32404 <i>D 6944.1</i>	--Rear, 1000 meters 276°30' from front.	14° 53.6' S 50° 16.2' E	Oc.(2)W. period 6s lt. 3s, ec. 3s lt. 1s, ec. 1s	269 82	13	Black and white beacon; 26.	Visible 126°-036°.
RADE D' AGONTSY:							
32408 <i>D 6946</i>	-Cap Est.	15° 16.7' S 50° 28.1' E	Fl.(2)W. period 10s fl. 0.6s, ec. 1.9s fl. 0.6s, ec. 6.9s	229 70	23	White round tower; 69.	
32412 <i>D 6948.3</i>	Cape Masoala.	15° 59.2' S 50° 13.1' E	Fl.(5)W. period 20s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 8.5s	262 80	18	Gray tower; 95.	Aeromarine light.
32416 <i>D 6948.5</i>	Nosy Behentona.	16° 00.3' S 50° 09.0' E	Fl.(2+1)W. period 15s fl. 1.5s, ec. 4.5s fl. 1.5s, ec. 4.5s fl. 1.5s, ec. 1.5s	105 32	10	Gray tower; 43.	Visible 252°-105°.
32420 <i>D 6947</i>	Nosy Mangabe, on summit of island.	15° 30.3' S 49° 45.4' E	Iso.W. period 4s	715 218	10	White pylon; 26.	Visible 246°-169°.
32424 <i>D 6948</i>	Maroantsetra Range, front.	15° 26.3' S 49° 43.9' E	Oc.R. period 6s lt. 4.5s, ec. 1.5s	33 10	5	White beacon, white square daymark, black stripe; 33.	
32428 <i>D 6948.1</i>	-Rear, 240 meters 046° from front.	15° 26.1' S 49° 44.1' E	F.R.	43 13		White metal framework tower, white square daymark, black stripe; 43.	Visible 040°-052°.
MANANARA:							
32432 <i>D 6949.5</i>	-Ilot Rocheaux.	16° 09.6' S 49° 45.0' E	F.R.	25 8	3	White beacon, red top; 13.	
ILE SAINTE MARIE:							
32436 <i>D 6950</i>	-Pointe Albrand.	16° 44.5' S 49° 59.4' E	Fl.W. period 5s	262 80	22	White metal tower, black cupola; 52.	Visible 154°-140°. Aeromarine light.
32440 <i>D 6956</i>	-Rocher aux Sorciers, Port Ste. Marie.	16° 59.7' S 49° 50.8' E	F.W.R.	59 18	W. 8 R. 6	White octagonal tower; 20.	R. 010°-050°, W.-189°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MADAGASCAR							
32444 <i>D 6952</i>	-Ilot Madame, N. extremity.	17° 00.5' S 49° 50.5' E	Oc.G. period 4s lt. 3s, ec. 1s	30 9	5	White round tower; 26.	
32452 <i>D 6958</i>	-Ile aux Nattes, Pte. Blevec, on S. end of island.	17° 07.1' S 49° 48.4' E	F.W.	112 34	13	White tower, black lantern; 23.	Visible 177°-194°, 223°-265°, 273°-156°.
FENERIVE:							
32456 <i>D 6960</i>	-Lakaria Hill.	17° 23.8' S 49° 25.9' E	Oc.W. period 6s lt. 4.5s, ec. 1.5s	177 54	10	White tower; 36.	Visible 122°-032°.
32460 <i>D 6972</i>	Ile aux Prunes.	18° 02.9' S 49° 27.6' E	Fl.(3)W. period 25s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 14.9s	197 60	23	White octagonal stone tower, black band, black cupola; 197.	Aeromarine light.
TAMATAVE:							
32464 <i>D 6973</i>	-Salazamay Range, front.	18° 05.7' S 49° 24.1' E	Q.W.	52 16	10	Pyramidal tower, white triangular daymark point up; 46.	
32468 <i>D 6973.1</i>	--Rear, 951 meters 277° from front.	18° 05.7' S 49° 23.6' E	Q.W.	75 23	14	White tower black band; 52.	Intensified 274°-280°.
32476 <i>D 6976</i>	-Pte. Tanio.	18° 08.4' S 49° 25.1' E	Oc.(3)W.R.G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	115 35	W. 15 R. 11 G. 11	White round tower, black base, black cupola; 115.	R. 165°-192°, W.-200°, R.-209°, G.-211°, W.-217°, R.-296°, G.-298°, R.-353°. F.R. on radio mast 0.64 mile WNW.
32480 <i>D 6978</i>	-Immeuble Portuaire.	18° 09.4' S 49° 25.5' E	Fl.(2+1)W.R.G. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 5.2s fl. 1s, ec. 5.3s	89 27	W. 14 R. 11 G. 11	White building, gray lantern; 92.	G. 148°-184°, W.-193°, R.-253°, W.-104°.
32487 <i>D 6980</i>	-Range, front.	18° 09.4' S 49° 25.5' E	F.G.	46 14	5	Building, red lantern.	Visible 148°-178°.
32487.1 <i>D 6980.1</i>	--Rear, 17 meters 163° from front.	18° 09.5' S 49° 25.4' E	F.R.	66 20	6	Port office; 62.	Visible 148°-178°.
32492 <i>D 6982</i>	-Landing place.	18° 09.5' S 49° 25.5' E	F.G.	16 5	4	White column, black top; 13.	
32496 <i>D 6988</i>	Mahanoro.	19° 54.5' S 48° 49.2' E	Oc.W. period 6s lt. 4.5s, ec. 1.5s	75 23	10	White metal tower, black cupola; 46.	Visible 178°-030°.
MANANJARY:							
32500 <i>D 6994</i>	-Entrance Range, front.	21° 14.0' S 48° 21.0' E	Q.R.	26 8	8	White rectangular daymark; 20.	Visible 134°-044°. Partially obscured.
32504 <i>D 6994.1</i>	--Rear, 1198 meters 269° from front.	21° 14.0' S 48° 20.4' E	F.R.	58 18	15	White pyramidal tower, white daymark; 43.	Visible 266°-272°. Partially obscured.
32508 <i>D 6995</i>	-Traverse Range, front.	21° 13.4' S 48° 21.3' E	Oc.G. period 4s lt. 3s, ec. 1s	48 15	12	Black beacon, white bands; 33.	Intensified 328°-334°.
32512 <i>D 6995.1</i>	--Rear, 400 meters 331° from front.	21° 13.0' S 48° 21.1' E	F.G.	58 18	12	Black beacon, white bands; 39.	Intensified 328°-334°.
32516 <i>D 6992</i>	-Water tower.	21° 14.0' S 48° 20.0' E	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	118 36	12	White tower; 85.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MADAGASCAR							
MANAKARA:							
32520 <i>D 6998</i>	-Approach Range, front.	22° 07.0' S 48° 01.0' E	F.G.	48 15	9	Black beacon, white bands; 39.	Visible 311°-319°.
32524 <i>D 6998.1</i>	--Emokala, rear, 1056 meters 315° from front.	22° 07.2' S 48° 01.2' E	Fl.(4)W. period 25s	144 44	26	White octagonal tower, black top; 95.	Reserve light F.W. Aeromarine light.
32528 <i>D 7000</i>	-Range, front.	22° 08.0' S 48° 01.0' E	Q.W.	23 7	12	White tower, black top; 20.	Visible 151°-061°.
32532 <i>D 7000.1</i>	-Rear, 820 meters 286° from front.	22° 07.9' S 48° 00.9' E	Q.W.	62 19	16	White tower, black top; 43.	Visible 283°30'-288°30'.
32536 <i>D 7004</i>	-Range, front.	22° 08.0' S 48° 01.0' E	F.G.	20 6		White column; 13.	
32540 <i>D 7004.1</i>	--Rear, 45 meters 241° from front.	22° 08.2' S 48° 01.4' E	F.G.	33 10		White column; 20.	
32544 <i>D 7006</i>	-Residency beacon.	22° 09.2' S 48° 01.2' E	Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	46 14	W. 12 R. 9 G. 8	White octagonal tower, black top; 36.	G. 200°-237°, W.-247°, R.- 020°.
32548 <i>D 7014</i>	Charbonnier.	22° 49.5' S 47° 49.5' E	Oc.W. period 6s lt. 4.5s, ec. 1.5s	69 21	10	White octagonal tower, black band; 52.	Visible 140°-320°.
32552 <i>D 7018</i>	Pointe d'Itaperina.	24° 59.0' S 47° 05.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	338 103	18	White tower; 33.	
FORT DAUPHIN:							
32556 <i>D 7019</i>	-Entrance Range, front.	25° 01.5' S 46° 59.5' E	Oc.W. period 4s lt. 3s, ec. 1s	82 25	18	White stepped beacon, black stripe, black lantern; 33.	Intensified 237°30'-242°30'.
32560 <i>D 7019.1</i>	--Rear, 260 meters 239°30' from front.	25° 01.6' S 46° 59.4' E	Oc.W. period 4s	154 47	18	White beacon, black stripe, black lantern; 26.	Sync with front. Intensified 237°30'-242°30'.
32564 <i>D 7020</i>	-Second Range, front.	25° 01.5' S 47° 00.0' E	F.R.	39 12	7	White square tower, red lantern; 39.	
32568 <i>D 7020.1</i>	--Rear, 40 meters 155° from front.	25° 01.6' S 47° 00.0' E	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	125 38	15	White hexagonal tower, red lantern; 39.	Visible 084°-354°.
32572 <i>D 7021</i>	-Pier, head.	25° 01.6' S 46° 59.8' E	F.G.	20 6	6	Black and white column; 10.	F.R. on T.V. mast about 150 meters SE.
32576 <i>D 7022</i>	Cap Sainte Marie.	25° 35.7' S 45° 08.6' E	Fl.W. period 10s	630 192	23	Square masonry tower, white corners; 59.	
BAIE DE ST. AUGUSTIN:							
32580 <i>D 7024</i>	-Tulear Range, front.	23° 22.0' S 43° 38.0' E	Q.R.	39 12	10	White round concrete tower; 26.	Intensified 111°30'-117°30'.
32584 <i>D 7024.1</i>	--Anosy Beacon, rear, 200 meters 114°30' from front.	23° 21.5' S 43° 38.4' E	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	62 19	10	White square tower, gray lantern; 59.	
32588 <i>D 7025</i>	-Range, front, on reef.	23° 23.4' S 43° 39.0' E	Q.G.	46 14	5	White column, black and white lantern; 23.	
32592 <i>D 7025.1</i>	--Rear, 900 meters 148° from front.	23° 23.9' S 43° 39.3' E	Q.G.	52 16	5	White column, black and white lantern; 30.	
32598 <i>D 7026.5</i>	Ile Europa.	22° 20.1' S 40° 20.3' E	Fl.R. period 5s fl. 1s, ec. 4s	69 21	15	Round pylon; 52.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MADAGASCAR							
MOROMBE:							
32600 D 7027	-Nosy Lava.	21° 43.9' S 43° 17.6' E	Oc.W. period 6s lt. 4.5s, ec. 1.5s	92 28	10	White square tower, black lantern; 56.	
32604 D 7028	-Range, front.	21° 45.0' S 43° 20.9' E	F.R.	56 17	9	White beacon, black bands; 33.	Intensified 127°-139°. On request.
32608 D 7028.1	--Rear, 645 meters 133° from front.	21° 45.1' S 43° 21.2' E	F.R.	79 24	9	White beacon, black stripe; 49.	Intensified 127°-139°. On request.
32612 D 7029	Balise de Betaolampia.	20° 25.2' S 44° 13.6' E	Oc.(2)W.R.G. period 9s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	219 67	W. 10 R. 7 G. 6	Wall, two white rectangular daymarks; 43.	W. 088°-105°, R.-114°, W.-135°, R.-162°, W.-185°, G.-200°.
32616 D 7030	Morondava.	20° 17.5' S 44° 16.8' E	Oc.W.R. period 4s lt. 3s, ec. 1s	98 30	W. 14 R. 10	Water tower; 98.	W. 050°-063°30', R.-073°, W.-320°.
32620 D 7032	Maintirano.	18° 03.8' S 44° 01.2' E	F.W.	95 29	10	White octagonal tower; 39.	
32624 D 7033	Ile Juan de Nova.	17° 03.0' S 42° 42.6' E	Fl.R. period 4s fl. 1s, ec. 3s	121 37	8	Gray pylon; 89.	Partially obscured by vegetation.
32628 D 7033.7	Cap Saint Andre.	16° 11.5' S 44° 26.9' E	Fl.(2)W. period 10s	85 26	20	White metal pylon; 75.	
32636	<i>Passe d'Ampajony Lighted Buoy.</i>	15° 24.0' S 46° 14.0' E	Q.W.			Red and white striped buoy, "X" topmark.	Radar reflector.
BAIE DE BOMBETOKE:							
32640 D 7034	-Pointe Katsepe.	15° 42.9' S 46° 13.0' E	Fl.W. period 10s	397 121	23	White tower, black band, black cupola; 131.	
32644 D 7037	-Pointe de Sable.	15° 43.7' S 46° 18.3' E	Oc.(2+1)W. period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	36 11	12	White tower, black cupola; 33.	Visible 328°-148°. Partially obscured by trees.
32648 D 7041	-Jetee Schneider.	15° 42.7' S 46° 17.7' E	Oc.(2)R. period 8s lt. 3s, ec. 2s lt. 1s, ec. 2s	30 9	5	White hexagonal tower, red lantern; 16.	
32652 D 7036	-Anorombato Pointe, E. side of entrance.	15° 42.9' S 46° 18.0' E	Oc.(3)W.R.G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	137 42	W. 14 R. 10 G. 9	White tower, black band, black cupola; 36.	G. 303°-116°, W.-122°, R.-145°, W.-167°, G.-186°, W.-213°.
32656 D 7043	-AMBOROVY AVIATION LIGHT.	15° 40.2' S 46° 20.9' E	Fl.(4)W. period 12s 4 fl. 6s, ec. 6s				
32660 D 7035	-Nosy Beza Range, front.	15° 45.9' S 46° 20.0' E	Iso.W. period 4s	62 19	13	White framework tower, black top, white trapezoidal daymark; 59.	Intensified 129°-135°.
32664 D 7035.1	--Rear, 5.4 kilometers 132° from front.	15° 47.9' S 46° 22.2' E	Oc.W. period 6s lt. 4.5s, ec. 1.5s	190 58	13	White tower; 62.	Intensified 129°-135°.
32672 D 7048	Analalava.	14° 38.2' S 47° 45.5' E	Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	203 62	W. 10 R. 7 G. 6	White tower, black lantern; 39.	G. 065°-092°, W.-095°, R.-142°. A F.R. is shown from the jetty.
32676 D 7050	Ampasikely.	14° 37.3' S 47° 45.4' E	F.W.R.	62 19	W. 5 R. 3	White metal column, square support; 26.	W. 049°-059°, R.-071°.

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MADAGASCAR							
32680 <i>D 7052</i>	Nosy Lava.	14° 32.4' S 47° 36.7' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	400 122	20	Black and white metal tower; 59.	Visible 325°-295°. Aeromarine light.
32684 <i>D 7056</i>	Nosy Iranja.	13° 35.8' S 47° 49.3' E	Fl.W. period 5s fl. 0.6s, ec. 4.4s	245 75	17	White tower, black top; 66.	Visible 348°-240°.
32688 <i>D 7058</i>	Tany Kely, entrance of Baie d' Ampasindava.	13° 28.9' S 48° 14.2' E	Fl.(3)W. period 15s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 7.5s	187 57	11	White tower, black top, black lantern; 33.	Aeromarine light.
32692 <i>D 7062</i>	Nosy Vorona, summit of island.	13° 25.5' S 48° 21.9' E	Fl.(2)W.R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	52 16	W. 8 R. 5	White octagonal tower, red lantern; 26.	W. 072°-080°, R.-232°, W.- 280°, R.-072°.
32708 <i>D 7065</i>	Ampasimena Range, front.	13° 24.0' S 48° 17.5' E	Q.G.	23 7	11	White beacon, black stripe; 26.	Intensified 014°30'-019°30'.
32712 <i>D 7065.1</i>	-Rear, 600 meters 017° from front.	13° 23.8' S 48° 17.2' E	Q.G.	79 24	11	White beacon, black stripe; 20.	Intensified 014°30'-019°30'.
32716 <i>D 7068</i>	Nosi Faly, summit.	13° 19.3' S 48° 28.5' E	Fl.W.R. period 4s	246 75	W. 8 R. 6	White octagonal tower, black lantern; 30.	W. 026°-236°, R.-026°.
32720 <i>D 7069</i>	Port St. Louis, entrance Range, front.	13° 05.3' S 48° 49.8' E	Q.R.	36 11	6	Metal framework tower, white trapezoidal daymark, red stripe; 36.	Visible 020°-200°.
32724 <i>D 7069.1</i>	-Rear, 1646 meters 110° from front.	13° 05.6' S 48° 50.7' E	Q.R.	59 18	16	Metal framework tower, white trapezoidal daymark, red stripe; 52.	Intensified 108°-112°.
32728 <i>D 7070</i>	Nosi Anambo (Woody Island).	12° 15.8' S 48° 38.2' E	Oc.(3)W.R. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	138 42	W. 14 R. 10	White metal framework tower, red top; 89.	W. 059°-237°, R.-059°.
COMOROS							
32732 <i>D 6882.1</i>	-Vigie.	12° 10.1' S 44° 23.9' E	Q.W.	276 84	5	White square tower, black bands; 16.	
32736 <i>D 6883</i>	-Jetty, head.	12° 10.0' S 44° 23.4' E	Oc.(2)R. period 5s	44 13		Hut, red lantern.	Aero Radiobeacon 3 miles NE.
MORONI GRANDE COMORE:							
32748 <i>D 6904.1</i>	-Suadzu Islet Range, rear, 220 meters 105° from front.	11° 42.1' S 43° 15.1' E	Q.R.	69 21	7	White minaret.	Partially obscured by buildings. Unlit front beacon.
32752 <i>D 6902</i>	-Moroni.	11° 42.2' S 43° 15.1' E	Q.W.	85 26	10	White minaret; 75.	Aero Radiobeacon 0.9 mile NNE.
MAYOTTE (FR):							
32760 <i>D 6896</i>	-Ilot Dzaoudzi, W. jetty, head.	12° 47.0' S 45° 15.2' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	7	White post, black top, stone structure; 10.	Visible 300°-210°.
32764 <i>D 6897</i>	--E. jetty, head.	12° 46.9' S 45° 15.5' E	Fl.R. period 4s fl. 1s, ec. 3s	20 6	7	White post, red top, stone structure; 10.	Visible 135°-045°.
32766 <i>D 6894.6</i>	-Pamanzi Range, front.	12° 46.4' S 45° 16.4' E	V.Q.W.	36 11	12		Intensified 139°30'-142°30'.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
COMOROS							
32766.1 <i>D 6894.61</i>	-Rear, 1700 meters 141° from front.	12° 47.1' S 45° 17.0' E	V.Q.W.	164 50	8		Intensified 132°-150°.
32768 <i>D 6900</i>	-Bandeles Passage Range, front.	12° 52.5' S 45° 13.2' E	Q.R.	69 21	5	White octagonal pyramidal tower, red band; 26.	Intensified 284°-302°. Aero Radiobeacon 5.8 miles NE, on Pamanzi.
32772 <i>D 6900.1</i>	--Rear, 273 meters 292°42' from front.	12° 52.4' S 45° 12.9' E	Q.R.	177 54	5	White octagonal pyramidal tower, red band; 26.	Intensified 284°-302°.
32776 <i>D 6898</i>	-Mamutzu, jetty, head.	12° 46.7' S 45° 14.0' E	Fl.(4)R. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	13 4	7	White post; 10.	
32777 <i>D 6891</i>	-Cap Douamougno.	12° 41.1' S 45° 06.4' E	Iso.W.R.G. period 4s	358 109	10	Beacon; 23.	G. 185°12'-190°12', W.-193°12', R.-197°12'. In line 202° with Dziani Bole summit.
32777.1 <i>D 6892.6</i>	-S. Jumeaux Reef.	12° 39.9' S 45° 08.1' E	Q.(6)+L.Fl.W. period 15s	23 7	3	S. CARDINAL YB, beacon, topmark.	
32777.2 <i>D 6892</i>	-Ile M'Songoma Range, front.	12° 41.4' S 45° 07.7' E	V.Q.W.	92 28	13	Beacon.	Intensified 172°30'-175°30'.
			V.Q.W.R.G.		W. 10 R. 7 G. 7		G. 279°-290°, W.-292°, R.-296°.
32777.21 <i>D 6892.1</i>	--Rear, 1300 meters 174° from front.	12° 42.1' S 45° 07.8' E	V.Q.W.	148 45	11	Beacon.	Intensified 165°-183°.
32777.4 <i>D 6892.5</i>	-Vancluse Reef.	12° 39.4' S 45° 07.3' E	Fl.(4)G. period 15s	29 9	4	White beacon, triangular daymark point up.	
32777.5 <i>D 6894</i>	-Isle Blanche Range, front.	12° 43.1' S 45° 10.4' E	V.Q.W.	33 10	9	Beacon.	
32777.51 <i>D 6894.05</i>	--Rear, 140° from front.	12° 43.7' S 45° 11.0' E	V.Q.W.			Beacon.	
32777.62 <i>D 6893.6</i>	-Longoni Reef.	12° 42.7' S 45° 09.8' E	Q.(9)W. period 15s	30 9	6	Yellow beacon, black band.	
ALDABRA:							
32778 <i>D 6879</i>	-West Island.	9° 23.7' S 46° 12.5' E	Fl.W. period 2s	56 17	12	White beacon, red bands.	

SEYCHELLES

AMIRANTE ISLES:							
32780 <i>D 6873</i>	-African Island, center of North Island.	4° 52.8' S 53° 23.2' E	Q.(2)W. period 10s	102 31	10	White metal framework tower.	
32785 <i>D 6875</i>	-Remire Island.	5° 07.0' S 53° 18.8' E	Q.W.	46 14	10		
MAHE ISLAND, PORT VICTORIA:							
32792 <i>D 6866</i>	-AVIATION LIGHT, island, NE. point.	4° 34.9' S 55° 27.8' E	Fl.R.	410 125		Red and white metal framework tower; 10.	Visible 202°30'-000°30'. Shown 24 hours.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SEYCHELLES							
32796 <i>D 6868</i>	-Victoria.	4° 37.1' S 55° 28.2' E	Fl.W. period 6s	38 12	7	White round masonry tower; 36.	R. lights on radio mast 1.5 miles W. F.R. and 2 F.R. on radio mast 2.8 miles SSW. Fl.R. (occas.) 2.1 miles S. and 3.3 miles SSE.
	-AVIATION LIGHT.		Q.W.				Visible from NE only. Occasional.
32800 <i>D 6865</i>	-Saint Anne Island, summit AVIATION LIGHT.	4° 36.3' S 55° 30.2' E	F.R.	827 252		White building; 13.	Shown by day.
32804 <i>D 6867</i>	-Range, front.	4° 37.8' S 55° 28.4' E	Oc.R.			Orange beacon.	Visible 200°-220°. Leading lights may be obscured when high intensity stadium lights are in use.
32808 <i>D 6867.1</i>	-Rear, 1646 meters 210° from front.	4° 38.6' S 55° 28.0' E	Oc.R.			Orange beacon.	Visible 200°-220°.
			F.R.				
32810.5 <i>D 6867.32</i>	-Inter Island Quay.	4° 37.2' S 55° 27.5' E	Oc.R. period 4s			Orange beacon.	
32811.1 <i>D 6867.5</i>	-No 9.	4° 37.2' S 55° 27.9' E	Fl.G. period 5s			PORT (B) G, beacon, topmark.	
32812 <i>D 6870</i>	-Police Point, S. extremity.	4° 48.3' S 55° 31.2' E	Fl.(2)W. period 15.4s fl. 0.7s, ec. 3s fl. 0.7s, ec. 11s	202 62	7	White masonry tower; 7.	Visible 276°-128°.
32816 <i>D 6871</i>	-Cape Ternay.	4° 38.4' S 55° 22.0' E	Q.(2)W. period 10s	68 21	10	White concrete tower.	Visible 026°-221°.
MAHE ISLAND:							
32820 <i>D 6864</i>	-Mamelle Island, summit.	4° 29.1' S 55° 32.4' E	Fl.W. period 2.5s fl. 0.2s, ec. 2.3s	161 49	11	White square stone structure, red roof; 20.	
32824 <i>D 6862</i>	Praslin Island, St. Anns Bay, Point Cabris.	4° 21.1' S 55° 46.3' E	Fl.W. period 10s	52 16	5	White masonry tower.	Visible 222°-055°.
32828 <i>D 6862.4</i>	-Zanguilles Point.	4° 18.3' S 55° 44.2' E	Q.W.	52 16	5	White round masonry tower.	Visible 117°-133°30' and 197°-284°.
32832 <i>D 6861</i>	Praslin Island, Grande Anse Range, front.	4° 20.3' S 55° 43.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	10 3	5	White square masonry tower.	Unlit rear red beacon, triangular topmark point up, 028° from front.
32840 <i>D 6863</i>	-La Digue Island.	4° 20.8' S 55° 49.6' E	Fl.W. period 5s	20 6	5	White square stone tower.	Visible 026°-186°.
32844 <i>D 6860</i>	Denis Island, N. side.	3° 47.9' S 55° 39.9' E	Fl.W. period 5s fl. 0.8s, ec. 4.2s	120 37	10	White metal tower; 89.	
MAURITIUS							
32848 <i>D 7102</i>	Flat Island.	19° 52.9' S 57° 39.0' E	Fl.(4)W. period 30s	364 111	29	White concrete tower, red lantern; 52.	
32852 <i>D 7096</i>	Pointe aux Caves.	20° 11.5' S 57° 24.7' E	Fl.(2)W. period 10s fl. 0.2s, ec. 1.6s fl. 0.2s, ec. 8s	152 46	29	White concrete tower, two red bands; 95.	F.R. lights on 3 radio masts 11 miles SSE. Aero Radiobeacon 6.8 miles SW.
	Auxiliary light.		F.R.	99 30	10		Visible 216°-245°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MAURITIUS							
PORT LOUIS:							
32861 <i>D 7101</i>	-Entrance Range, front.	20° 09.5' S 57° 29.9' E	Oc.R. period 10s lt. 7.5s, ec. 2.5s	128 39	13	Red and white metal structure.	
32861.5 <i>D 7101.1</i>	--Rear, 496 meters 127°30' from front.	20° 09.6' S 57° 30.2' E	Dir.W.R.G.	226 69	17	Bank building, white diamond topmark.	Fl.G.-121°54'-124°06', F.G.- 125°01', Al.G.W.-127°13', F.W.-127°47', Al.W.R.- 129°59', F.R.-130°54', Fl.R.-133°06'.
32872 <i>D 7097</i>	-Martello Tower.	20° 10.1' S 57° 28.3' E	Al.Iso.W.G. period 4s W. lt. 1s, ec. 1s G. lt. 1s, ec. 1s	79 24	10	White stone tower, black stripe, 39.	
32880 <i>D 7104</i>	AVIATION LIGHT.	20° 26.0' S 57° 40.6' E	Mo.(P)W.				
REUNION (FR.)							
32884 <i>D 7073</i>	Ile Tromelin.	15° 53.3' S 54° 30.5' E	Fl.R. period 4s fl. 1s, ec. 3s	49 15	8	White round post, building; 33.	
32888	Albatross Island.	16° 14.4' S 59° 35.4' E	Fl.(2)W. period 20s fl. 1s, ec. 1s fl. 1s, ec. 17s	30 9	12		May be obscured from northward by trees.
32892 <i>D 6881.6</i>	Coco Island.	16° 48.9' S 59° 30.2' E	Fl.(3)W. period 30s	27 8	12		
PORT DES GALETS:							
32896 <i>D 7077</i>	-Le Port.	20° 56.1' S 55° 17.1' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	187 57	21	Gray cement silo; 174.	
32900 <i>D 7080</i>	-Entrance Range, front.	20° 56.3' S 55° 17.3' E	Q.W.	65 20	8	White pylon, white square daymark, black stripe, red border; 36.	Visible 097°48'-106°48'.
32904 <i>D 7080.1</i>	--Rear, about 80 meters 102°30' from front.	20° 56.3' S 55° 17.3' E	Q.W.	92 28	8	White pylon, white rectangular daymark, black stripe, red border; 56.	Visible 097°48'-106°48'.
32908 <i>D 7078</i>	-S. jetty, head.	20° 56.2' S 55° 16.9' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	56 17	7	White pylon, green top; 36.	
32912 <i>D 7081.9</i>	-N. jetty, head.	20° 56.2' S 55° 16.9' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	56 17	7	White pylon, red top; 36.	
32920 <i>D 7082.3</i>	-N. basin.	20° 55.9' S 55° 17.2' E	Dir.W.R.G. period 4s	72 22	W. 9 R. 6 G. 6	White pylon, red sign, white background.	Oc.G. 006°30'-008°30', Oc.W.-009°30', Oc.R.- 011°30'.
32922 <i>D 7082.2</i>	-E. basin.	20° 55.9' S 55° 17.2' E	Fl.G. period 4s	20 6	2	White post, green band; 7.	
32923 <i>D 7082.1</i>	-W. basin.	20° 56.0' S 55° 17.2' E	Fl.R. period 4s	20 6	2	White post, red band; 7.	
32928 <i>D 7083</i>	-S. basin Range, front.	20° 56.4' S 55° 17.1' E	Iso.G. period 4s	59 18	4	Green pylon, white rectangular daymark, black stripe; 33.	Visible 175°-230°.
32932 <i>D 7083.1</i>	--Rear, 60 meters 189° from front.	20° 56.5' S 55° 17.1' E	Iso.G. period 4s	69 21	5	Green pylon, white rectangular daymark, black stripe; 39.	Visible 175°-230°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
REUNION (FR.)							
32936 <i>D 7083.4</i>	-Fish basin Range, front.	20° 56.3' S 55° 17.0' E	Q.G.	36 11	3	White column, white rectangular daymark, black stripe; 23.	Visible 261°12'-270°12'.
32940 <i>D 7083.41</i>	--Rear, 35 meters 265°42' from front.	20° 56.3' S 55° 17.0' E	Q.G.	42 13	3	White column, white rectangular daymark, black stripe; 13.	Visible 261°12'-270°12'.
32948 <i>D 7083.61</i>	-Dir. Lt., 162°.	20° 56.3' S 55° 19.5' E	Dir.W.R.G.	125 38	W. R. G. 2 2	White tower, black stripes.	Fl.G. 157°-158°45', FG. 159°45', Al.W.G. 161°48', F.W. 162°12', Al.W.R. 164°15', F.R. 165°15', Fl.R. 167°.
32952 <i>D 7083.75</i>	-W. jetty, head.	20° 55.6' S 55° 19.1' E	Fl.G. period 4s fl. 1s, ec. 3s	49 15	7	White tower, green top; 33.	
32956 <i>D 7083.7</i>	-E. jetty, head.	20° 55.6' S 55° 19.3' E	Fl.R. period 4s fl. 1s, ec. 3s	49 15	7	White tower, red top; 33.	
32970 <i>D 7083.93</i>	Saint Marie, W. breakwater.	20° 53.5' S 55° 32.2' E	Fl.G. period 2.5s	36 11	3	White metal tower, green top.	
32970.2 <i>D 7083.95</i>	-E. breakwater.	20° 53.5' S 55° 32.3' E	Fl.R. period 2.5s	36 11	3	White metal tower, red top.	
32972 <i>D 7084</i>	Pointe de Bel Air.	20° 54.1' S 55° 36.1' E	Fl.(3)W. period 15s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 8.6s	157 48	23	Red and white tower, green cupola; 82.	Visible 109°-331°. Aero Radiobeacon 5.3 miles W.
32976 <i>D 7086</i>	Pointe de la Table.	21° 19.7' S 55° 48.1' E	Oc.(2)W. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	197 60	8	White pylon; 20.	
SAINT-PIERRE:							
32978 <i>D 7089.05</i>	-Terre Sainte jetty, head.	21° 20.9' S 55° 28.7' E	Fl.W.G. period 4s	43 13	W. G. 10 7	White pylon, green top.	W. 323°-060°, G.-323°.
32980 <i>D 7088</i>	-Entrance Range, front.	21° 20.7' S 55° 28.8' E	Q.G.	23 7	3	White pylon; 20.	Visible 024°42'-033°42'.
32984 <i>D 7088.1</i>	--Rear, 60 meters 029°12' from front.	21° 20.7' S 55° 28.8' E	Q.G.	36 11	3	White pylon; 33.	Visible 024°42'-033°42'.
32988 <i>D 7089</i>	-Jetty, head.	21° 20.8' S 55° 28.7' E	Fl.R. period 4s fl. 1s, ec. 3s	26 8	3	Red post; 13.	
ETANG SALE:							
32992 <i>D 7089.4</i>	-Entrance Range, front.	21° 15.8' S 55° 19.9' E	Q.R.	16 5	5	White masonry tower, red top, white rectangular daymark, red stripe; 10.	Aero Radiobeacon 1.8 miles ESE.
32996 <i>D 7089.41</i>	--Rear, 60 meters 089° from front.	21° 15.0' S 55° 20.4' E	Q.R.	23 7	5	White masonry tower, red top, white rectangular daymark, red stripe; 20.	
33000 <i>D 7090</i>	Saint-Leu, jetty, head.	21° 10.1' S 55° 17.1' E	Fl.G. period 4s fl. 1s, ec. 3s	30 9	5	White post, green top.	
SAINT GILLES LES BAINS:							
33004 <i>D 7091</i>	-W. jetty, head.	21° 03.3' S 55° 13.3' E	Oc.(2)G. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	39 12	7	White structure, green top; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
REUNION (FR.)							
33008 <i>D 7091.2</i>	-E. jetty, head.	21° 03.3' S 55° 13.4' E	Oc.(2)R. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	30 9	5	White structure, red top; 26.	
33012 <i>D 7091.4</i>	-Entrance Range, front.	21° 03.3' S 55° 13.4' E	Q.W.	13 4	4	White column.	Visible 156°30'-165°30'.
33016 <i>D 7091.41</i>	--Rear, 45 meters 161° from front.	21° 03.3' S 55° 13.4' E	Q.W.	26 8	4	White column.	Visible 156°30'-165°30'.
33020 <i>D 7092</i>	Saint-Paul.	21° 00.5' S 55° 16.1' E	Oc.W. period 4s lt. 3s, ec. 1s	65 20	9	White pylon; 59.	
RODRIGUES ISLAND							
MATHURIN BAY:							
33028 <i>D 7114</i>	-Port Mathurin Range, front.	19° 40.8' S 63° 25.4' E	Iso.R. period 5s	25 8	5	White triangular daymark point up.	Occasional.
33032 <i>D 7114.1</i>	--Rear, about 420 meters 165°30' from front.	19° 41.0' S 63° 25.5' E	Iso.R. period 5s	212 65	10	White triangular daymark point down.	Occasional.
CHAGOS ARCHIPELAGO							
33036 <i>Q 0800</i>	Diego Garcia AVIATION LIGHT.	7° 18.5' S 72° 24.7' E	Al.FI.W.G. period 10s	132 40	12	Control tower.	
33040 <i>Q 0801</i>	-West Island.	7° 14.9' S 72° 23.1' E	Fl.(2)W. period 5s	33 10	6	Silver framework tower, orange and black checkered diamond daymark.	
33044 <i>Q 0805</i>	-Small boat basin breakwater, head.	7° 17.3' S 72° 23.4' E	Fl.R. period 2s				
33050 <i>Q 0805.6</i>	--Wharf, head.	7° 17.4' S 72° 23.5' E	Fl.G. period 5s				
33052 <i>Q 0806</i>	--Harbor control tower.	7° 17.4' S 72° 23.6' E	F.R.			Concrete tower.	
33056 <i>Q 0802</i>	-Observatory Point.	7° 14.3' S 72° 26.1' E	Fl.W. period 4s	33 10	5	White framework tower, orange and black checkered diamond daymark.	
33060 <i>Q 0807</i>	-Trig station Bolt, Leconte Point.	7° 16.6' S 72° 28.1' E	Fl.R. period 2.5s	33 10	3	White framework tower, orange and black checkered diamond daymark.	
33064 <i>Q 0808.5</i>	-Minni Minni.	7° 19.5' S 72° 28.5' E	Dir.W.R.G.	46 14 16 16	W. 20 R. 16 G. 16	Round stainless steel tower, platform; 46.	F.G. 133°12'-133°48', F.W.-134°12', F.R.-134°48'. Range 8/6M by day. Light activated by the Marine Control Center at pilot's request.
ILES CROZET (FR.)							
ILE DE LA POSSESSION:							
-Port Alfred:							
33072 <i>D 7119.5</i>	--Anchorage Range, Cap Seince.	46° 25.4' S 51° 52.3' E	2 F.G.		6	Black beacons, white stripes.	Lights in line 296° 70 meters apart.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ILES CROZET (FR.)							
33076 <i>D 7119.51</i>	--Cap Lieutard.	46° 25.8' S 51° 52.5' E	2 F.R.		7	Black beacons, white stripes.	Lights in line 212° 46 meters apart.
ILE AMSTERDAM (FR.)							
33080 <i>Q 0822</i>	Pointe Hosken, SE anchorage Range, front.	37° 49.0' S 77° 34.0' E	Q.R.		2	Red and white checkered beacon.	Occasional.
33084 <i>Q 0822.1</i>	--Rear, 390 meters 246°30' from front.	37° 48.0' S 77° 32.5' E	Q.R.		2	Red and white checkered beacon.	Occasional.
33088 <i>Q 0822.4</i>	--NW. anchorage Range, front.	37° 49.0' S 77° 34.0' E	Q.G.		2	Black and white checkered beacon.	Occasional.
33092 <i>Q 0822.41</i>	--Rear, 110 meters 224°30' from front.	37° 47.4' S 77° 31.5' E	Q.G.		2	Black and white checkered beacon.	Occasional.
ILES DE KERQUELEN (FR.)							
PRESQU'ILE COURBET:							
33096 <i>Q 0820</i>	-Pointe Molloy.	49° 22.0' S 70° 04.8' E	Fl.R. period 2.5s fl. 0.5s, ec. 2s	49 15	3	White beacon.	
33100 <i>Q 0820.4</i>	-Baie du Morbihan Range, front.	49° 21.0' S 70° 04.7' E	Q.W.	16 5	12	White beacon, black chevron point up.	
33104 <i>Q 0820.41</i>	--Rear, 320 meters 314°30' from front.	49° 21.0' S 70° 04.4' E	Q.W.	65 20	12	White beacon, black chevron point down	
33106 <i>Q 0819</i>	--Ile Murray.	49° 31.1' S 70° 15.5' E	Fl.(3)W. period 12s	160 49	11		
33107 <i>Q 0821.5</i>	--Ile Channer.	49° 22.9' S 70° 11.1' E	Q.(9)W. period 15s	33 10	6	W. CARDINAL YBY, beacon, topmark.	
-Port Aux Francais:							
33108 <i>Q 0821.4</i>	--Anchorage Range, front.	49° 21.1' S 70° 12.2' E	Q.R.	23 7	12	White beacon, red stripe.	Visible on range line only.
33112 <i>Q 0821.41</i>	---Rear, 150 meters 329° from front.	49° 21.2' S 70° 12.4' E	F.R.	69 21	12	White beacon, red stripe.	Visible on range line only.
33120 <i>Q 0821</i>	--Entrance Range, front.	49° 21.3' S 70° 13.7' E	Q.G.	26 8	12	Black and white checkered beacon.	Visible on range line only. Q.W. on radio mast 0.7 mile NE.
33124 <i>Q 0821.1</i>	---Rear, 700 meters 058° from front.	49° 21.0' S 70° 14.2' E	Q.G.	65 20	12	Black and white checkered beacon.	Visible on range line only.

Section 22

Radiobeacons

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
SOUTH AFRICA							
50	George	34° 00.2' S 22° 29.2' E	GG (- - • - - •).	100		260 A2A.	AERO.
MOZAMBIQUE							
200	Macuti Light Station	19° 50.7' S 34° 53.9' E	MC (- - - - • •). period 360s tr(3) 9s si 1s (—) 26s si 6s repeats(2) 84s si 234s	150		302 A1A.	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 06, 12, 36, and 42 minutes past each hour.
MAURITIUS							
225	Plaisance (West)	20° 16.8' S 57° 23.0' E	FF (•••• ••••).	100		258. NON A2A.	AERO.
COMORO ISLANDS							
230	Dzaoudzi, Isle Pamanzi	12° 48.0' S 45° 17.0' E	FJO (•••• •••• - - -).	100		341 A1A.	AERO.
240	Anjouan	12° 08.0' S 44° 26.0' E	AJ (• - ••••).	50		369 A1A.	AERO.
250	Moroni	11° 41.0' S 43° 15.0' E	FXM (•••• -••• - -).	200		387 A1A.	AERO.
INDIAN OCEAN							
270	Ile Europa	22° 20.0' S 40° 21.0' E	FXE (•••• -••• •).	100		352 A1A.	AERO.
340	St. Pierre, Reunion	21° 16.1' S 55° 22.0' E	SP (••• ••••).	50		352 A1A.	AERO.
350	Saint Denis Gillot, Reunion	20° 53.1' S 55° 30.6' E	FXR (•••• -••• •••).	170		382 A2A.	AERO.
370	Diego Garcia	7° 17.4' S 72° 23.1' E	NKW (- • -•• •••).	300		300 NON, A2A.	AERO.
380	Mahe Island, Seychelles	4° 37.0' S 55° 26.0' E	SEY (•••• • -•••).	800		373 A2A.	AERO.
382	Coetivy Island, Seychelles	7° 08.5' S 56° 16.2' E	COE (-••• - - - •).			335 A2A.	AERO.
ETHIOPIA - SUDAN							
410	Assab	13° 04.0' N 42° 38.0' E	SB (••• -•••).	150		345 A2A.	AERO. Transmits between 0300Z-1500Z.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
ETHIOPIA - SUDAN							
430	Port Sudan	19° 36.5' N 37° 14.0' E	PS (• - - • • • •).	100		350 A2A.	
EGYPT							
440	Nuweiba	29° 03.0' N 34° 39.8' E	NWB (- • • - - - • • •).	150		288 A2A	AERO.
441	Ras Nusrani	27° 57.9' N 34° 22.8' E	SKH (• • • • - - • • • •).			335 A2A.	AERO. Transmits between 0600-1500Z.
OMAN							
450	Salalah	17° 02.0' N 54° 05.0' E	SAN (• • • • • - - •).	143		310 NON, A2A.	AERO.
470	Muscat/Seeb	23° 35.4' N 58° 15.1' E	NSB (- • • • • • - - • • • •).			318 NON, A2A.	AERO.
UNITED ARAB EMIRATES							
490	Dubayy	25° 13.8' N 55° 23.7' E	DO (- • • • - - -).			265 A1A	AERO.
500	Jabal Dhanna	24° 11.0' N 52° 37.0' E	JD (• - - - - • • •).			302.5 NON, A2A.	AERO.
505	Jazirat Zirkuh	24° 51.8' N 53° 04.8' E	ZKU (- - • • • - - • • •).	130		275 NON, A2A.	AERO.
508	Abu Al Bukhush	25° 29.8' N 53° 08.9' E	RP (• - • • • - - •).	28		248 A2A.	AERO.
510	Das Island	25° 08.0' N 52° 52.0' E	ID (• • - • • •).	92		366 NON, A2A.	AERO.
512	Fujayrah	25° 06.0' N 56° 21.0' E	FUJ (• • • - • • • - - - -).			400 NON, A2A.	AERO.
PERSIAN GULF							
520	Ad Dawhah, Qatar	25° 18.0' N 51° 33.0' E	BD (- • • • • - • •).	150		377 NON, A2A.	AERO.
530	Bahrain	26° 17.0' N 50° 38.0' E	BI (- • • • • • •).	200		352 NON, A2A.	AERO.
550	Bandar Al Mish'ab	28° 04.9' N 48° 36.7' E	RAS (• - • • • - • • •).	200		318 NON, A2A.	AERO.
IRAN							
570	Kharq Island	29° 15.0' N 50° 19.0' E	KHG (- • • - • • • • - - •).	100		325 A2A.	AERO.
580	Sheykh Sho'eyb (Lavan Island)	26° 48.0' N 53° 23.0' E	LD (• - • • • - • • •).	192		310 A1A.	AERO. Transmits only during the day.
600	Sirri	25° 54.1' N 54° 32.3' E	SIR (• • • • • • • - • •).			300 NON, A2A.	AERO.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
MALDIVES							
617	Gan	0° 41.9' S 73° 09.8' E	GN (- - • - •).	240		317 A2A.	AERO.
INDIA							
650	Diu Head Light Station	20° 41.5' N 70° 49.7' E	DH (- • • • • • •). period 360s tr(4) 20s (-) 25s tr(4) 20s (-) 25s tr(2) 10s si 260s	155		289 A2A.	
665	Ratnagiri	16° 59.1' N 73° 16.4' E	RG (• - • - - •).	170		308 A2A.	Repeats twice at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.
670	Bombay	19° 07.0' N 72° 50.0' E	BB (- • • • • - • • • •).	500		265 A2A.	AERO.
691	Chetlat Island	11° 41.8' N 72° 43.1' E	CT (- • - • • -).	170		289 A2A.	
700	Cochin	9° 56.0' N 76° 17.0' E	CC (- • - • • - - • •).	240		325 NON, A2A.	AERO. Transmits between 0300-1500.
710	Trivandrum	8° 29.4' N 76° 54.4' E	TV (- • • • • -).	315		299 NON, A2A.	AERO.
715	Nagappattinam	10° 45.8' N 79° 51.0' E	NP (- • • • - - • •). period 360s			295 A2A.	
730	Madras	13° 02.0' N 80° 10.0' E	MV (- - • • • • -).	500		292 NON, A2A.	AERO.
740	Antarvedi Light Station	16° 19.2' N 81° 43.7' E	NT (- • -).	180		315 A2A.	
747	Gopalpur	19° 15.3' N 84° 54.2' E	GP (- - • • - - • •).			292 A2A.	
752	Paradip Light Station	20° 15.3' N 86° 39.4' E	PD (• - - • • - • •). period 360s	170		318 A2A.	
SRI LANKA (CEYLON)							
770	Colombo/Ratmalana	6° 50.0' N 79° 53.0' E	RM (• - • - -).	164		350 A2A.	AERO.
BANGLADESH							
780	Chittagong	22° 15.0' N 91° 49.0' E	EG (• - - •).	155		287 NON, A2A.	AERO.
790	Kutubdia Island Light Station	21° 51.9' N 91° 50.5' E	KD (- • - - • • •).	100		294 A2A.	
800	Cox's Bazar Light Station	21° 26.0' N 91° 58.4' E	BZ (- • • • • - - • • •).	100		297 A2A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
BURMA							
820	Victoria Point	10° 03.0' N 98° 33.0' E	KT (- • - -).	100		290 NON, A2A.	AERO.
THAILAND							
850	Sattahip, Ban U Taphao	12° 39.7' N 100° 59.6' E	UP (•• - • - - •).	170		414 A2A.	AERO.
ANDAMAN ISLANDS							
870	East Island Light Station	13° 38.0' N 93° 03.0' E	AN (• - - •).	180		317 A2A.	
NICOBAR ISLANDS							
880	Keating Point Light Station	9° 15.0' N 92° 46.3' E	NI (- • • •). period 360s tr 60s si 240s	180		313 A2A.	
MALAYSIA							
890	Kuantan	3° 23.0' N 103° 25.0' E	PK (• - - • - - •).	180		282 NON, A2A.	AERO.
900	Kuala Trengganu	5° 22.9' N 103° 06.7' E	TU (- • • •).	90		312 NON, A2A.	AERO.
INDONESIA (BORNEO)							
905	Tanjung Mangkalihat	0° 59.5' N 118° 59.3' E	MH (- - • • •).	100		312. A2A.	
906	Balikpapan	1° 12.9' S 116° 58.5' E	BL (- • • • - - • •).	100		304 A2A.	
907	Tanjung Selatan	4° 10.2' S 114° 38.8' E	TS (- • • •).	100		296 A2A.	
908	Pontianak	0° 21.7' N 108° 57.2' E	PO (• - - • - - •).	100	I	304 A2A.	Transmits 00, 10, 20, 30, 40, and 50 minutes past each hour.
INDONESIA (SUMATERA)							
910	Sabang	5° 53.7' N 95° 18.8' E	SA (• • • • -).	100		285 A2A.	
911	Pulau Pesemut	2° 30.0' S 108° 51.0' E	PM (• - - • - -).	100	II	304 A2A.	Transmits 05, 15, 25, 35, 45, and 55 minutes past each hour.
912	Pulau Simeidang	3° 19.0' S 107° 12.5' E	SI (• • • • •).	100	I	296 A2A.	Transmits 00, 15, 30 and 45 minutes past each hour.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
COCOS ISLANDS							
930	Christmas Island	10° 25.9' S 105° 41.1' E	XXM (- • • - - - • • -).	110		341 NON, A2A.	AERO.
INDONESIA (JAWA)							
944	Peniki	5° 41.7' S 106° 42.7' E	PI (• - - • • •).	100	II	296 A2A.	Transmits 05, 20, 35 and 50 minutes past each hour.
945	Jamuang	6° 55.6' S 112° 43.7' E	JM (• - - - - -).	100	II	285 A2A.	Transmits at 05, 15, 25, 35, 45 and 55 minutes past each hour.
946	Muria	6° 24.5' S 110° 55.2' E	MU (- - • • -).	100	I	285 A2A.	Transmits at 00, 10, 20, 30, 40 and 50 minutes past each hour.
950	Surabaya/Djuanda	7° 22.0' S 112° 46.0' E	SB (• • • - • • •).	100		325 A2A.	AERO.
952	Cilacap	7° 47.0' S 109° 38.3' E	CI (- • - • • •).	100		320 A2A.	
953	Benoa	8° 50.5' S 115° 11.8' E	BO (- • • • - - -).	100		320 A2A.	
INDONESIA (SULAWESI)							
960	Dewakang Besar	5° 23.7' S 118° 25.3' E	DI (- • • • • •).	100	II	318 A2A.	Transmits at 05, 15, 25, 35, 45 and 55 minutes past each hour.
961	Tanjung Rangasa	3° 33.8' S 118° 56.0' E	TM (- - -).	100	I	318 A2A.	Transmits at 00, 10, 20, 30, 40 and 50 minutes past each hour.
INDONESIA (NEW GUINEA)							
980	Daru Island	9° 04.0' S 143° 13.0' E	DAU (- • • - • • -).	80		290 NON, A2A.	AERO.
990	Madang	5° 13.0' S 145° 47.0' E	MD (- - - • • •).	110		362 NON, A2A.	AERO.
1000	Wewak	3° 34.9' S 143° 40.6' E	WK (• - - - • • -).	110		336 A2A.	AERO.
1010.4	Sorong	0° 50.2' S 131° 12.6' E	SO (• • • - - -).	100		318 A2A.	Transmits 00-05 and 10-15 minutes past each hour.
1010.5	Ambon	3° 47.2' S 128° 05.5' E	AM (• - - -).	100		310 A2A.	
1010.6	Merauke	8° 30.7' S 140° 22.8' E	ME (- - •).	100		296 A2A.	
MALAYSIA (SABAH)							
1020	Bintulu	3° 11.0' N 113° 02.0' E	BU (- • • • • • -).	45		304 NON, A2A.	AERO.
1030	Anduki/Seria	4° 38.0' N 114° 22.0' E	AKI (• - - - • • •).	192		250 NON, A2A.	AERO.
1040	Brunei	5° 01.0' N 114° 58.0' E	BN (- • • • • • -).	60		298 NON, A2A.	AERO.
1055	Kata Kinabalu	5° 54.0' N 116° 02.0' E	JSL (• - - - • • • • • •).	92		400 NON, A2A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
VIETNAM							
1070	Ba Lat	20° 18.0' N 106° 34.0' E	AG (• - - - •).	100		475	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 10, 16, 40, and 46 minutes past each hour.
1080	Hon Dau	20° 40.0' N 106° 48.7' E	NP (- • • - - •).	100		435	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 08, 14, 38, and 44 minutes past each hour.
1090	Long Chau/Grande Island Light Station	20° 37.3' N 107° 09.2' E	TC (- - • - •).	100		415	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 06, 12, 36, and 42 minutes past each hour.
PHILIPPINES							
1100	Mactan	10° 19.3' N 123° 58.8' E	MCT (- - - • • -).	155		331 A2A.	AERO.
1110	South Nido Oilfield	11° 03.0' N 118° 49.3' E	PCS (• - - • - • - • • •).	100		379	
CHINA							
1140	Hok Tsui	22° 12.6' N 114° 15.3' E	HKG (• • • • - - - - •).	500		338 NON, A2A, A3E.	AERO.
1160	Tathong Point	22° 14.5' N 114° 17.1' E	TP (- • - - •).	50		280 NON, A2A.	AERO.
PESCADORES ISLANDS							
1170	P'eng-hu Tao	23° 31.5' N 119° 36.0' E	BM (- • • • - -).	315		290 NON, A2A.	AERO.
OKINAWA GUNTO							
1180	Okinawa Jima	26° 05.8' N 127° 40.0' E	OK (- - - - • -).	170		308 A2A.	AERO.
1190	Okinawa Jima, Machinato	26° 20.3' N 127° 44.9' E	KX (- • - - • • • -).	100		295	AERO. Transmits between 0900-1700.
1200	Okierabu Shima	27° 26.0' N 128° 43.0' E	ON (- - - - •).	170		398 A2A.	AERO.
TAIWAN							
1210	Fu-Kwei Chiao	25° 18.0' N 121° 32.0' E	B (- • • • •). period 360s tr(4) 9s si 2s (—) 25s si 2s tr(4) 9s si 73s repeats(2) 240s	100	I, III, V	302 NON, A2A.	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 00, 02, 04, 30, 32, and 34 minutes past each hour.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
TAIWAN							
1212	Chi-Lung	25° 09.5' N 121° 44.4' E	C (- • - •). period 360s tr(4) 10.6s si 1s (—) 25s si 1s tr(4) 10.6s si 71.8s repeats(2) 240s	100	II, IV, VI	302 NON, A2A.	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 01, 03, 05, 31, 33, and 35 minutes past each hour.
1220	Ch'i-lai Pi Light Station	24° 01.0' N 121° 38.0' E	D (- • •).	100	I, III, V	287 A2A.	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 06, 08, 10, 36, 38, and 40 minutes past each hour.
1225	Huo-shao Tao Light Station	22° 40.4' N 121° 27.9' E	G (- - •).	100	II, IV, VI	287 A2A	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 07, 09, 11, 37, 39 and 41 minutes past each hour.
1228	Lan Yu	22° 04.8' N 121° 29.9' E	H (• • • •).	100		320 A2A	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 01, 04, 07, 31, 34 and 37 minutes past each hour.
1230	Heng-ch'un	21° 56.1' N 120° 50.1' E	KW (- • - • - -).	240		415 NON, A2A.	AERO.
1240	Kao-hsiung-Shan Light Station	22° 37.0' N 120° 15.4' E	A (• -).	100		320 A2A.	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 00, 03, 06, 30, 33 and 36 minutes past each hour.
CHINA							
1250	Naozhou Dao	20° 54.2' N 110° 36.2' E	NZ (- • - - • •).	200	I	315 A2A.	Transmits at 00, 06, 12, 18, 24, 30, 36, 42, 48 and 54 minutes past each hour.
1252	Baohu Jiao	20° 00.3' N 110° 55.8' E	BH (- • • • • • • • •).	200	III	315 A2A.	Transmits at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.
1256	Jianggang	32° 45.7' N 120° 46.2' E	JG (• - - - - - •).	200	I	311 A2A	Transmits at 00, 06, 12, 18, 24, 30, 36, 42, 48 and 54 minutes past each hour.
1258	Sheyanghe	33° 48.1' N 120° 20.6' E	SY (• • • • - - - -).	200	III	291 A2A	Transmits at 04, 10, 16, 22, 28, 34, 40, 46, 52 and 58 minutes past each hour.
1260	Yanweigang	34° 28.8' N 119° 47.0' E	YW (- • - - - • - -).	200	II	311 A2A.	Transmits at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.
1262	Haozhigang	32° 01.2' N 121° 43.2' E	HZ (• • • • • - - - •).	200	III	311 A2A.	Transmits at 04, 10, 16, 22, 28, 34, 40, 46, 52 and 58 minutes past each hour.
1270	Moye Dao	36° 53.9' N 122° 30.9' E	MY (- - - • - - -).	200	I	291 A2A.	Transmits at 00, 06, 12, 18, 24, 30, 36, 42, 48 and 54 minutes past each hour.
1272	Qingdao	36° 04.3' N 120° 26.3' E	MD (- - - • •).	200	II	291 A2A.	Transmits at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.
1280	Chengshan Jiao	37° 23.7' N 122° 42.2' E	CS (- • - • • • •).	200		319 A2A.	Transmits at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
CHINA							
1290	Beitang	39° 06.5' N 117° 43.2' E	BT (- • • • -).	200	I	295 A2A.	Transmits at 00, 06, 12, 18, 24, 30, 36, 42, 48 and 54 minutes past each hour.
1292	Qinhuangdao	39° 54.8' N 119° 37.0' E	QH (- - • - • • •).	200	II	295 A2A.	Transmits at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.
1302	Dasanshan Dao	38° 51.9' N 121° 49.5' E	DS (- • • • •).	200	II	307 A2A.	Transmits at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.
1304	Laotieshan	38° 43.8' N 121° 08.0' E	LT (• - • • -).	200	III	307 A2A.	Transmits at 04, 10, 16, 22, 28, 34, 40, 46, 52 and 58 minutes past each hour.
KOREA							
1305	Ihwari	39° 46.7' N 124° 33.5' E	LH (• - • • • • •).		I	282 A2A.	
1306	Onjongni	38° 54.1' N 125° 13.9' E	KS (- • - • • •).		III	282 A2A.	
1307	Monggum Po	38° 07.6' N 124° 44.0' E	ML (- - • - • • •).		V	282 A2A.	
1340	Cheju	33° 30.9' N 126° 32.4' E	CD (- • - • - • •).	100		375 A2A.	Aeromarine.
1360	Yeong Do Light Station	35° 03.0' N 129° 05.7' E	CY (- • - • - - -).	60		300 A2A.	Transmits continuously during periods of low visibility. During periods of clear weather, transmits 00-05, 10-15, 20-25, 30-35, 40-45 and 50-55 minutes past each hour, sunrise to sunset.
1370	Suyong Man/Busan	35° 10.4' N 129° 07.8' E	PN (• - - • - •).	100		385 A2A.	Aeromarine.
1385	Kangnung.	37° 45.1' N 128° 56.8' E	LC (• - • • - - • •).	100		257 A2A	AERO.
1395	Sukcho	38° 08.2' N 128° 35.9' E	SK (• • • - - •).	100		378 A2A.	AERO.
JAPAN							
1402	Toi Misaki	31° 22.4' N 131° 20.1' E	TI (- • • •). period 30s tr(2), (-) (2)	90		309	Azimuth coverage 036°-216°.
1440	Hachijo Jima	33° 04.8' N 139° 51.1' E	CJ (- • • • • - - -). period 30s tr(2), (-)(2) repeats(1)	90		302	Azimuth coverage 000°-205°.
1512	Shiriyu Saki	41° 25.7' N 141° 27.8' E	YA (- • - - • -). period 30s tr(2), (-)(2) repeats(1)	90		302 D7W.	Azimuth coverage 270°-170°.
1534	Kushiro Saki	42° 58.1' N 144° 22.5' E	UR (• • - • - •). period 30s tr(2), (-)(2) repeats(1)	90		288 D7W.	Azimuth coverage 120°-300°. Transmits every 2 minutes between 00 minutes and 58 minutes past each hour.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
JAPAN							
1550	Abashiri	43° 59.9' N 144° 17.4' E	AS (• - •••). period 30s tr(2), (-)(2)	90		309 D7W.	Azimuth coverage 320°-120°.
1554	Soya Misaki	45° 31.2' N 141° 56.2' E	OY (- - - - • - - -). period 30s tr(2), (-)(2)	90		295 D7W.	Azimuth coverage 258°-102°.
1572	Matsumae (Fukuyama) Light Station	41° 25.3' N 140° 05.2' E	FK (••• - • - • -). period 30s tr(2), (-)(2) repeats(1)	90		309 D7W.	Azimuth coverage 110°-280°. Transmits every 2 minutes between 00 minutes and 58 minutes past each hour.
1590	Hekura Jima	37° 51.1' N 136° 55.2' E	HA (••••• • -). period 30s tr(2), (-)(2)	100		295 H2A.	Transmits every 2 minutes.
1612	Wakamiya Shima	33° 52.1' N 129° 41.2' E	NU (- • •• -). period 30s tr(2), (-)(2) repeats(1)	90		295	
1616	Ose Saki	32° 37.0' N 128° 36.3' E	OU (- - - •• -). period 30s	90		302	
1635	Iwo Jima	24° 47.0' N 141° 18.0' E	OX (- - - - ••• -). period 30s		250	360 A2A.	AERO.
1640	Miyako Sima	24° 47.1' N 125° 17.7' E	MY (- - - •• - -). period 30s	180		340 A2A.	AERO.
RUSSIA							
1650	Mys Gamova Light Station	42° 33.4' N 131° 13.2' E	GM (- - • - -). period 360s tr (interrupted by a long dash) 55s si 305s	150	I	306.5 A2A.	
1651	Mys Bryusa Light Station	42° 52.8' N 131° 28.1' E	BU (- •••• •• -).	15		300.5	
1651.5	Ostrov Skrypleva Light Station	43° 01.7' N 131° 57.1' E	SW (••••• - - - -). period 360s tr(5) 19s (—) 25s tr(2) 7s si 309s	50		291.5 A2A.	
1652	Ostrov Askol'd Light Station	42° 43.9' N 132° 20.7' E	AD (• - - •••). period 360s tr (interrupted by a long dash) 60s si 300s	150	II	306.5 A2A.	
1654	Mys Povorotnyy Light Station	42° 40.4' N 133° 02.5' E	PO (• - - - • - - -). period 360s tr (interrupted by a long dash) 60s si 300s	150	III	306.5 A2A.	
1656	Mys Ostrovnoy Light Station	42° 48.5' N 133° 43.3' E	OR (- - - • - •). period 360s tr (interrupted by a long dash) 60s si 300s	150	IV	306.5 A2A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
RUSSIA							
1658	Mys Nizmenny Light Station	43° 31.2' N 135° 09.3' E	NZ (- • - - • •). period 360s tr (interrupted by a long dash) 60s si 300s	150	V	306.5 A2A.	
1660	Mys Yegorova Light Station	44° 46.4' N 136° 27.0' E	EO (• - - -).	150	VI	306.5 A2A.	
1670	Nakhodka-Zaliv Amerika Front Light Station	42° 49.9' N 132° 55.8' E	NH (- • • • • •). period 360s tr 51s si 309s	50		291.5 A2A.	
1680	Nepristupyy	42° 47.8' N 133° 00.1' E	NU (- • • • -). period 110s tr 10s (—) 100s	30		315.5, 375 A1A, A2A.	Deviation radiobeacon for calibration use within the harbor. Transmits upon request, in clear weather only.
1690	Mys Balyuzek Light Station	43° 55.0' N 135° 31.0' E	BL (- • • • • - • • •).	100	V	297.5 A2A.	Transmits at 04, 10, 16, 22, 28, 34, 40, 46, 52 and 58 minutes past each hour.
1692	Rudnyy	44° 20.7' N 135° 50.8' E	RD (• - • - • •).	100	VI	297.5 A2A.	Transmits at 05, 11, 17, 23, 29, 35, 41, 47, 53 and 59 minutes past each hour.
1700	Mys Belkina (Byelkin) Light Station	45° 49.5' N 137° 41.5' E	BN (- • • • • - •). period 360s tr (interrupted by a long dash) 60s si 300s	150	I	303.5 A2A.	
1702	Mys Zolotoy Light Station	47° 19.1' N 138° 59.5' E	ZO (- - • • - - -). period 360s tr (interrupted by a long dash) 60s si 300s	150	II	303.5 A2A.	
1704	Port Kholmok Light Station	47° 01.5' N 142° 01.5' E	HK (• • • • • - • -). period 360s tr (4) 20s (—) 25s tr (2) 10s si 305s	80	III	303.5 A2A.	
1706	Ostrov Moneron Light Station	46° 15.5' N 141° 15.8' E	MR (- - • - •). period 360s tr(4) 20s (—) 25s tr(2) 10s si 305s	150	IV	303.5 A2A.	
1708	Mys Kril'on Light Station	45° 54.0' N 142° 04.8' E	KX (- • - - • • • -). period 360s tr (4) 20s (—) 25s tr (2) 10s si 305s	100	V	303.5 A2A.	
1710	Mys Aniva	46° 01.5' N 143° 24.8' E	AW (• - • - -). period 360s tr (5) 20s (—) 25s tr (2) 10s si 305s	25		306.5 A1A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
RUSSIA							
1720	Ostrov Kamen Opasnosti	45° 47.7' N 142° 13.4' E	K (- • -), period 180s tr 6s (—) 19.5s si 4.5s repeats(1) 30s si 120s	15		315.5 A1A.	
1730	Mys Tomari Aniva (Korsakov)	46° 36.5' N 142° 47.7' E	KW (- • - • - -), period 360s tr(2) 12s (—) 18s repeats(1) 30s si 300s	80		312.5 A2A.	Transmits at night or continuously during periods of low visibility at 05, 11, 17, 23, 29, 35, 41, 47, 53 and 59 minutes past each hour.
1740	Mys Susnova Light Station	46° 31.5' N 138° 19.0' E	KM (- • - - -), period 360s tr(6) 22s (—) 25s tr(2) 8s si 305s	50		318.5 A1A.	
1750	Mys Yelizavety Light Station	54° 25.5' N 142° 43.0' E	EZ (• - - • •),	150	I	294.5 A2A.	Navigation season only.
1752	Pil'tun Light Station	52° 51.0' N 143° 18.5' E	PN (• - - • - •),	150	II	294.5 A2A.	
1754	Chayvo	52° 21.0' N 143° 12.0' E	ChW (- - - • • - -),	80	III	294.5 A2A.	
1756	Zaliv Mardvinova	46° 49.4' N 143° 13.1' E	MN (- - - •),	100	IV	294.5 A2A.	Navigation season only.
1757	Mys Terpeniya Light Station	48° 38.6' N 144° 44.8' E	TR (- • - •),	150	V	294.5 A2A.	Navigation season only.
1758	Poronaysk Light Station	49° 13.6' N 143° 07.7' E	AS (• - • • •),	100	VI	294.5 A2A.	
1760	Mys Krasnyy Partizan Light Station	48° 58.5' N 140° 24.8' E	KP (• - • • - - •), period 360s tr(4) 20s (—) 25s tr(2) 10s si 305s	80		312.5 A2A.	Does not transmit during periods of clear weather during daylight hours.
1780	Ulegorsk Light Station	49° 04.6' N 142° 01.8' E	UG (• • - - - •), period 180s tr(5) 19s (—) 25s repeats(2) 7s si 128s	80		297.5 A1A.	
1790	Mys Zhonkiyer Light Station	50° 53.9' N 142° 07.0' E	VR (• • • - • - •),	100	I	309.5 A2A.	Navigation season only.
1792	Mys Lamanon Light Station	48° 47.1' N 141° 51.2' E	LM (• - • • - -),	100	II	309.5 A2A.	
1796	Mys Datta Light Station	49° 18.8' N 140° 26.8' E	LD (• - • • - • •),	100	IV	309.5 A2A.	
1798	Mys Peschanyy Light Station	48° 26.7' N 140° 10.5' E	PA (• - - • • -),	100	V	309.5 A2A.	
1800	Mys Kloster-Kamp Light Station (Orlova)	51° 25.5' N 140° 53.2' E	OW (- - - • - -),	100	VI	309.5 A2A.	Navigation season only.
1810	Moskal'vo	53° 36.3' N 142° 30.2' E	MO (- - - - -), period 360s tr (interrupted by a long dash) 60s si 300s	80	I	318.5 A2A.	Navigation season only.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
RUSSIA							
1812	Menshikova	53° 17.7' N 141° 24.6' E	ME (-- •), period 360s tr (4) 20s (—) 25s tr (2) 10s si 305s	100	II	318.5 A2A.	
1814	Mys Litke	53° 56.0' N 140° 21.0' E	LT (• - • • -), period 360s tr (interrupted by a long dash) 60s si 300s	150	III	318.5 A1A.	
1820	Nyyvo	51° 57.0' N 143° 08.0' E	NW (- • • - -),	50		306.5 NON, A2A.	
1840	Mys Alevina	58° 50.0' N 151° 21.0' E	AL (• - • - • •), period 360s tr (interrupted by a long dash) 60s si 300s	150	I	303.5 A2A.	
1842	Mys Chirikova	59° 29.0' N 150° 32.0' E	ChI (- - • • •), period 360s tr (interrupted by a long dash) 60s si 300s	80	III	303.5 A2A.	Transmits at night or continuously during periods of low visibility.
1844	Ostrov Spafar'yeva	59° 09.8' N 149° 05.7' E	SF (• • • • • - •), period 360s tr (interrupted by a long dash) 60s si 300s	150	IV	303.5 A2A.	
1846	Mys Elagin (Duga)	59° 09.0' N 146° 03.0' E	DG (- • • - - •), period 360s tr (interrupted by a long dash) 60s si 300s	150	V	303.5 A2A.	
1848	Mys Marekan (Okhotsk)	59° 19.2' N 143° 28.7' E	MK (- - - • -), period 360s tr (interrupted by a long dash) 60s si 300s	175 80	VI	303.5 A2A.	
1860	Oklyabr'skiy	52° 33.8' N 156° 18.5' E	BO (- • • • - - -), period 360s tr (interrupted by a long dash) 60s si 300s	150	I	297.5 A2A.	
1862	Mys Lopatka Light Station	50° 53.5' N 156° 40.5' E	LK (• - • • - • -), period 360s tr (interrupted by a long dash) 60s si 300s	80	II	297.5 A2A.	
1864	Mys Kurbatova Light Station, Kuril Islands	50° 51.9' N 156° 28.7' E	RB (• - • - • • •), period 360s tr (interrupted by a long dash) 60s si 300s	150	III	297.5 A2A.	
1866	Mys Vasil'yeva Light Station, Kuril Islands	50° 00.2' N 155° 23.5' E	MW (- - • - -), period 360s tr (interrupted by a long dash) 60s si 300s	150	IV	297.5 A2A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
RUSSIA							
1868	Krutogorovaya	55° 05.0' N 155° 37.0' E	KG (- • - - - •). period 360s tr (interrupted by a long dash) 60s si 300s	150	V	297.5 A2A.	
1870	Ozernovskiy Light Station	51° 29.0' N 156° 29.0' E	OA (- - - • -). period 360s tr (interrupted by a long dash) 55s si 305s	150	VI	297.5 A2A.	
1875	Mys Veslovskiy Light Station	43° 39.4' N 145° 32.7' E	WO (• - - - -). period 180s tr(5) 19s (—) 25s tr(2) 7s si 129s	25		306.5 A1A.	
1880	Ostrov Shpanberga (Shikotan To) Light Station	43° 50.0' N 146° 55.0' E	PG (• - - • - - •).	100	I	312.5 A2A.	
1882	Mys Lovtsova (Atoiya Misaki) Light Station	44° 27.0' N 146° 34.5' E	OC (- - - - • - •). period 360s tr 60s si 300s	150	II	312.5 A2A.	
1884	Mys Van-der-Lind (Nobonotsu Misaki) Light Station	45° 35.0' N 149° 24.0' E	WL (• - - • - • •). period 360s tr 60s si 300s	150	III	312.5 A2A.	
1886	Mys Kastrikum Light Station	46° 13.7' N 150° 34.0' E	KU (- • - • • -). period 360s tr 60s si 300s	150	IV	312.5 A2A.	
1888	Ostrov Toporkov Light Station	48° 04.4' N 153° 17.5' E	TK (- - • • -). period 360s tr(5) 20s (—) 25s tr(2) 8s si 307s	50		324.5 A1A.	
1890	Ostrov Zelenyy (Shibotsu Jima) Light Station	43° 31.8' N 146° 12.6' E	ZN (- - • • - •).	50		309.5 A1A.	
1900	Yakujono Bana	43° 52.4' N 146° 49.0' E	MU (- - • • -).	50		303.5 A1A.	
1905	Kamo Shima	43° 43.9' N 146° 43.1' E	DW (- • • • - -).	50		303.5 A1A.	
1907	Taraku To	43° 37.0' N 146° 21.6' E	PS (• - - • • • •).	50		318.5 A1A.	
1910	Mys Yuzhno Kuril'skiy	44° 01.2' N 145° 51.6' E	YuK (• • - - - • -).	30		324.5 NON, A1A.	
1920	O Misaki Ostrov Iturup	45° 26.0' N 147° 55.4' E	BS (- • • • • • •).	50		312.5 A2A.	
1930	Mys Chibuyunny (Imai Saki) Light Station	50° 46.0' N 156° 12.0' E	ChN (- - - • - •).	150		306.5 A2A.	Transmits at 04, 10, 16, 22, 28, 34, 40, 46, 52 and 58 minutes past each hour.
1950	Kruglyy	52° 04.0' N 158° 20.0' E	RL (• - • • - • • •). period 360s tr (interrupted by a long dash) 60s si 300s	150		291.5 A2A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
RUSSIA							
1951	Russkiy Light Station	52° 26.1' N 158° 30.5' E	UR (•• - • - •). period 180s tr(5) 19s (—) 25s tr(2) 7s si 129s	30		303.5 A1A.	
1951.5	Vilyuchinskiy	52° 36.7' N 158° 27.2' E	WUT (• - - • - - -). period 180s tr(5) 19s (—) 25s tr(2) 7s si 129s	30		309.5 A1A.	
1952	Mys Ozerney	57° 43.5' N 163° 18.9' E	ZR (- - • • • - •). period 360s tr (interrupted by a long dash) 60s si 300s	50		291.5 A1A.	
1954	Mys Shipunskiy	53° 06.0' N 160° 01.5' E	ChP (- - - - • - - - •). period 360s tr (interrupted by a long dash) 60s si 300s	100	III	291.5 A2A.	
1958	Mys Afrika	56° 10.5' N 163° 18.1' E	AF (• - • • - •). period 360s tr (interrupted by a long dash) 60s si 300s	150 75	V	291.5 A2A.	
1960	Mys Mayachnyy Light Station	52° 53.4' N 158° 42.4' E	MYa (- - • - - - •). period 360s tr (interrupted by a long dash) 60s si 300s	150	II	291.5 A2A.	
1980	Ust Kamchatsk	56° 13.0' N 162° 31.0' E	RD (• - • - • •).	50		315.5 A1A.	
1990	Karaginski	58° 33.0' N 163° 33.0' E	KJ (- • - • - - -). period 360s tr(4) 20s (—) 25s tr(2) 10s si 305s	150	I	294.5 A2A.	
1995	Smirnova	59° 54.3' N 166° 23.9' E	SN (• • • - •). period 360s tr(5) 20s (—) 25s tr(2) 10s si 305s	50		309.5 A1A.	
2000	Yuzhnaya Glubokaya	60° 11.0' N 166° 53.0' E	YuG (• • • - - - •).	50		315.5 A1A.	Navigation season only.
2010	Lavrova	60° 19.0' N 167° 05.0' E	LR (• - • • • - •).	50		300.5 A1A.	
2015	Bubnova	60° 01.7' N 170° 26.2' E	BO (- • • • • - - -). period 360s tr 20s (—) 25s tr 10s si 305s	50		300.5 A1A.	
2080	Russkaya Koshka	64° 34.5' N 178° 32.9' E	RK (• - • - • - •). period 360s tr 60s si 300s	150	V	315.5 A2A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
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RUSSIA

2090	Navarin	62° 22.3' N 179° 09.5' E	NR (- • • - •). period 360s tr 55s si 305s	50		312.5 A1A	
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Section 23

Differential GPS Stations

(1) No.	(2) Name	(3) Position	(4) Station ID	(5) Range	(6) Frequency	(7) Transfer Rate	(8) Remarks
KOREA							
6	Chojin Dan Lt	38° 33.1' N 128° 23.9' E	T 670 R 740 R 741	100	292	200	Message Types: 3, 5, 7, 9, 16.
7	Chumunjin Dan	37° 53.9' N 128° 50.0' E	T 663 R 726 R 727	100	295	200	Message Types: 3, 5, 7, 9, 16.
8	Eocheong Do Lt	36° 07.3' N 125° 58.0' E	T 664 R 728 R 729	100	295	200	Message Types: 3, 5, 7, 9, 16.
9	Ullung Do Lt	37° 31.1' N 130° 47.9' E	T 667 R 734 R 735	100	319	200	Message Types: 3, 5, 7, 9, 16.
10	Changgigot Lt	36° 04.7' N 129° 34.2' E	T 666 R 732 R 733	100	310	200	Message Types: 3, 5, 7, 9, 16.
10.5	Mara Do Lt	33° 07.0' N 126° 16.2' E	T 665 R 730 R 731	100	290	200	Message Types: 3, 5, 7, 9, 16.
11.5	Geomun Do Lt	34° 00.5' N 127° 19.3' E	T 662 R 724 R 725	100	287	200	Message Types: 3, 5, 7, 9, 16.
12.5	P'almi Do Lt	37° 21.3' N 126° 30.8' E	T 661 R 722 R 723	100	313	200	Message Types: 3, 5, 7, 9, 16.
13	Soch'ong Do Lt	37° 45.5' N 124° 43.8' E	T 668 R 736 R 737	100	323	200	Message Types: 3, 5, 7, 9, 16.
14	Sohuksando Lt	34° 05.5' N 125° 06.0' E	T 669 R 738 R 739	100	298	200	Message Types: 3, 5, 7, 9, 16.
15	Yong Do Lt	35° 03.6' N 129° 04.4' E	T 660 R 720 R 721	100	300	200	Message Types: 3, 5, 7, 9, 16.
CHINA							
20	Kau Yi Chau	22° 17.0' N 114° 04.6' E		270	289	200	Message Types: 1, 2, 3, 5, 6, 16.
JAPAN							
315	Kushiro Saki	42° 58.1' N 144° 22.5' E	T 630	108	288		
320	Abashiri	43° 59.9' N 144° 17.4' E	T 631	108	309		
328	Soya Misaki	45° 31.2' N 141° 56.2' E	T 632	108	295		
344	Matsumae	41° 25.3' N 140° 05.2' E	T 634	108	309		
355	Tango	35° 44.3' N 135° 05.2' E	T 636	108	316		

(1) No.	(2) Name	(3) Position	(4) Station ID	(5) Range	(6) Frequency	(7) Transfer Rate	(8) Remarks
JAPAN							
362	Hekura Jima	37° 51.1' N 136° 55.2' E	T 637	108	295		
368	Sakata	38° 56.8' N 139° 49.4' E	T 638	108	288		
374	Siriya Saki	41° 25.7' N 141° 27.8' E	T 639	108	302		
380	Kinkasan	38° 16.6' N 141° 35.0' E	T 640 R 680 R 681	108	316	200	Message Types: 1, 3, 5, 6, 7, 9, 16.
392	Urayasu	35° 37.0' N 139° 53.8' E	T 642	108	321		
402	Hachijo Jima	33° 04.8' N 139° 51.1' E	T 644 R 688 R 689	108	302	200	Message Types: 1, 3, 5, 6, 7, 9, 16.
411	Nagoya	35° 02.1' N 136° 50.8' E	T 645	108	320		
423	Muroto Saki	33° 15.1' N 134° 10.6' E	T 647 R 694 R 695	108	295	200	Message Types: 1, 3, 5, 6, 7, 9, 16.
455	Wakamiya	33° 52.1' N 129° 41.2' E	T 651 R 702 R 703	108	295	200	Message Types: 1, 3, 5, 6, 7, 9, 16.
474	Toi Misaki	31° 22.4' N 131° 20.1' E	T 653 R 706 R 707	108	309	200	Message Types: 1, 3, 5, 6, 7, 9, 16.
485	Nakano Shima	29° 49.3' N 129° 54.9' E	T 654	108	320.5		
490	Gesasi	26° 36.3' N 128° 09.1' E	T 655	108	288		
495	Miyako Shima	24° 43.8' N 125° 26.2' E	T 656	108	316		
PERSIAN GULF							
1650	Ra's Al Khaymah	25° 59.0' N 56° 04.0' E	T 142 R 480 R 481	250	292	200	Message Types: 3, 6, 7, 9, 16.
1680	Abu Dhabi	24° 06.0' N 52° 56.0' E	T 143 R 486 R 487	250	314	200	Message Types: 3, 6, 7, 9, 16.
1700	Bahrain	26° 07.0' N 50° 39.0' E	T 140 R 480 R 481	250	298	200	Message Types: 3, 6, 7, 9, 16.
1720	Kuwait	29° 07.0' N 48° 08.0' E	T 141 R 482 R 483	250	295	200	Message Types: 3, 6, 7, 9, 16.
RED SEA							
1830	Ras Gharib	28° 21.1' N 33° 06.6' E	T 323 R 446 R 447	150	298		
1840	Ras Umm Said	27° 50.9' N 34° 18.8' E	T 322 R 444 R 445	126	293.5		

(1) No.	(2) Name	(3) Position	(4) Station ID	(5) Range	(6) Frequency	(7) Transfer Rate	(8) Remarks
RED SEA							
1850	El Quseir	26° 08.3' N 34° 15.6' E	T 325 R 450 R 451	260	314.5		
1870	Jeddah	21° 28.4' N 39° 08.9' E	T 961	250	320	200	Message Types: 3, 5, 6, 7, 9, 16.
1880	Gizan	16° 53.1' N 42° 32.1' E	T 962	250	324	200	Message Types: 3, 5, 6, 7, 9, 16.

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Abd El Kader	30708	Akkeshi	500	Analalava	32672
Aberdeen	19427	Ako	7804	ANAMBAS ISLANDS (INDO)	21096
Abington	30608	Ako Misaki	7800	Anamizu	2976
Abosi Ko	7764	Akunami	5952	ANDAMAN ISLANDS	26492
Abu Hulayfah	29270	Akune Ko	11164	Ando Shima	8988
Abu Nuhus	30404.5	Akuseki Sima	13102	Androth Island	27616
Abu Tig	30407	Al Arabiyah	29368	Anheung Hang	17852
Abura Syo	8420	Al Baghlah	30743	Anhung Shin Hang	17850
Aburatori Se	9184	Al Hayrah	30094	Anjengo	27502
ABURATSU KO	10820	Al Jeeb	28692	Anma Do	17716
Abuta Byochi	792	AL JUBAYL	29420	Anma Hang	17721
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Ai Se	12740	Alibag	27932	Apga Point	14626
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Aik Habil	23272	Allard Bank	24605	Appi	25638
Aika	25852	Allen	14988	Apryongdan	16350
Aino Shima	12332	Alleppey	27516	Apunan Point	14548
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Asoura Ko	6488	Balatoc	14261	Batu Sakit Mata	21165
Assarka	30732	Balayan	14240	Batu Tikus	21166
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D6400		32108	D6482		31964	D6602.1		31656	D6746		.31276
D6403		32124	D6483		31944	D6604		31680	D6748		.31284
D6403.1		32128	D6483.2		31948	D6606		31672	D6748.1		.31288
D6404		32116	D6483.21		31952	D6606.1		31676	D6751		.31280
D6405		32120	D6483.4		31956	D6610		31640	D6754		.31296
D6406		32132	D6483.45		31960	D6611		31608	D6754.1		.31300
D6407		32136	D6483.5		31962	D6611.3		31616	D6756		.31308

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D6757		31332	D6879		32778	D6995		32508	D7083.93		.32970
D6757.1		31336	D6881.6		32892	D6995.1		32512	D7083.95		.32970.2
D6758		31304	D6882.1		32732	D6998		32520	D7084		.32972
D6759		31328	D6883		32736	D6998.1		32524	D7086		.32976
D6759.55		31316	D6891		32777	D7000		32528	D7088		.32980
D6759.56		31316.1	D6892		32777.2	D7000.1		32532	D7088.1		.32984
D6761.4		31324	D6892.1		32777.21	D7004		32536	D7089		.32988
D6763		31320	D6892.5		32777.4	D7004.1		32540	D7089.05		.32978
D6769		31272	D6892.6		32777.1	D7006		32544	D7089.4		.32992
D6770		31268	D6893.6		32777.62	D7014		32548	D7089.41		.32996
D6772		31208	D6894		32777.5	D7018		32552	D7090		.33000
D6772.1		31212	D6894.05		32777.51	D7019		32556	D7091		.33004
D6774		31216	D6894.6		32766	D7019.1		32560	D7091.2		.33008
D6774.1		31220	D6894.61		32766.1	D7020		32564	D7091.4		.33012
D6775		31224	D6896		32760	D7020.1		32568	D7091.41		.33016
D6784		31228	D6897		32764	D7021		32572	D7092		.33020
D6784.1		31232	D6898		32776	D7022		32576	D7096		.32852
D6794		31240	D6900		32768	D7024		32580	D7097		.32872
D6794.1		31244	D6900.1		32772	D7024.1		32584	D7101		.32861
D6796		31236	D6902		32752	D7025		32588	D7101.1		.32861.5
D6812		31256	D6904.1		32748	D7025.1		32592	D7102		.32848
D6812.1		31260	D6914		32328	D7026.5		32598	D7104		.32880
D6812.5		31264	D6918		32356	D7027		32600	D7114		.33028
D6814		31267	D6919		32360	D7028		32604	D7114.1		.33032
D6814.1		31267.1	D6920		32332	D7028.1		32608	D7119.5		.33072
D6818		31204	D6922		32336	D7029		32612	D7119.51		.33076
D6820		31200	D6924		32340	D7030		32616	D7206		.31152
D6824		31192	D6925		32344	D7032		32620	D7210		.31144
D6825		31196	D6926		32348	D7033		32624	D7210.1		.31148
D6828		31188	D6926.1		32352	D7033.7		32628	D7212		.31136
D6832		31176	D6930		32364	D7034		32640	D7212.1		.31140
D6832.1		31180	D6936		32368	D7035		32660	D7218		.31096
D6842		31160	D6936.1		32372	D7035.1		32664	D7220		.31100
D6842.9		31161	D6938		32376	D7036		32652	D7220.1		.31104
D6843		31161.5	D6939		32380	D7037		32644	D7221		.31108
D6843.1		31162	D6942		32384	D7041		32648	D7221.1		.31112
D6844		31163	D6943		32388	D7043		32656	D7222		.31132
D6844.1		31163.1	D6943.1		32392	D7048		32672	D7223		.31128
D6845		31164	D6944		32400	D7050		32676	D7224		.31116
D6845.1		31164.1	D6944.1		32404	D7052		32680	D7224.1		.31120
D6846		31165	D6945		32396	D7056		32684	D7226		.31124
D6846.2		31165.2	D6946		32408	D7058		32688	D7230		.31092
D6846.4		31165.4	D6947		32420	D7062		32692	D7236		.31088
D6846.6		31165.6	D6948		32424	D7065		32708	D7238		.31084
D6847		31166	D6948.1		32428	D7065.1		32712	D7239		.31080
D6847.1		31166.1	D6948.3		32412	D7068		32716	D7242		.31076
D6848		31172	D6948.5		32416	D7069		32720	D7246		.31072
D6852		31156	D6949.5		32432	D7069.1		32724	D7256		.31068
D6860		32844	D6950		32436	D7070		32728	D7258		.31064
D6861		32832	D6952		32444	D7073		32884	D7260		.31056
D6862		32824	D6956		32440	D7077		32896	D7260.1		.31060
D6862.4		32828	D6958		32452	D7078		32908	D7263		.31044
D6863		32840	D6960		32456	D7080		32900	D7264		.31040
D6864		32820	D6972		32460	D7080.1		32904	D7266		.31048
D6865		32800	D6973		32464	D7081.9		32912	D7266.1		.31052
D6866		32792	D6973.1		32468	D7082.1		32923	D7272		.30952
D6867		32804	D6976		32476	D7082.2		32922	D7273		.30964
D6867.1		32808	D6978		32480	D7082.3		32920	D7274		.30956
D6867.32		32810.5	D6980		32487	D7083		32928	D7274.1		.30960
D6867.5		32811.1	D6980.1		32487.1	D7083.1		32932	D7275		.30968
D6868		32796	D6982		32492	D7083.4		32936	D7275.5		.30970
D6870		32812	D6988		32496	D7083.41		32940	D7276		.30972
D6871		32816	D6992		32516	D7083.61		32948	D7280		.30988
D6873		32780	D6994		32500	D7083.7		32956	D7280.1		.30992
D6875		32785	D6994.1		32504	D7083.75		32952	D7283		.31036

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D7283.5	.....	30986	D7296.03	.....	30605	D7296.98	.....	30264	D7298.01	.....	30450
D7283.52	.....	30986.1	D7296.05	.....	30605.4	D7296.991	.....	30260.2	D7298.02	.....	30451
D7284	.....	31008	D7296.06	.....	30605.5	D7296.992	.....	30260.1	D7298.03	.....	30451.2
D7285	.....	31004	D7296.08	.....	30605.3	D7296.995	.....	30260.3	D7298.04	.....	30451.1
D7286	.....	30996	D7296.081	.....	30605.31	D7296.9951	.....	30260.4	D7298.1	.....	30455
D7286.1	.....	31000	D7296.09	.....	30605.25	D7297	.....	30260	D7298.15	.....	30454
D7288	.....	31032	D7296.1	.....	30492	D7297.01	.....	30256	D7298.2	.....	30452
D7289	.....	31012	D7296.2	.....	30476	D7297.05	.....	30254	D7298.21	.....	30458
D7293.032	.....	30685	D7296.25	.....	30484	D7297.06	.....	30252.41	D7298.22	.....	30460
D7294	.....	30980	D7296.3	.....	30475.2	D7297.07	.....	30252.405	D7298.23	.....	30460.1
D7294.1	.....	30984	D7296.31	.....	30475	D7297.08	.....	30253	D7298.24	.....	30462
D7295	.....	30856	D7296.32	.....	30475.1	D7297.081	.....	30253.1	D7298.245	.....	30462.1
D7295.005	.....	30868	D7296.33	.....	30471.2	D7297.09	.....	30244	D7298.25	.....	30462.2
D7295.01	.....	30864	D7296.34	.....	30471	D7297.1	.....	30238	D7298.255	.....	30462.3
D7295.012	.....	30872	D7296.35	.....	30474	D7297.11	.....	30240	D7298.262	.....	30463
D7295.013	.....	30860	D7296.36	.....	30474.5	D7297.12	.....	30242.4	D7298.265	.....	30463.1
D7295.014	.....	30840	D7296.37	.....	30472	D7297.13	.....	30242.2	D7298.3	.....	30469
D7295.015	.....	30832	D7296.38	.....	30471.5	D7297.14	.....	30242	D7298.31	.....	30469.5
D7295.016	.....	30736	D7296.39	.....	30471.4	D7297.15	.....	30242.5	D7298.32	.....	30469.6
D7295.017	.....	30732	D7296.4	.....	30470.5	D7297.16	.....	30229	D7298.321	.....	30469.7
D7295.018	.....	30728	D7296.5	.....	30409.5	D7297.17	.....	30232	D7298.33	.....	30470
D7295.019	.....	30724	D7296.51	.....	30410.6	D7297.18	.....	30217	D7298.4	.....	30480
D7295.02	.....	30720	D7296.52	.....	30411	D7297.19	.....	30220	D7298.41	.....	30478
D7295.021	.....	30708	D7296.521	.....	30411.5	D7297.2	.....	30224	D7298.42	.....	30479
D7295.022	.....	30704	D7296.53	.....	30410.55	D7297.21	.....	30228	D7298.43	.....	30493
D7295.023	.....	30700	D7296.54	.....	30410.5	D7297.22	.....	30216	D7298.44	.....	30494
D7295.024	.....	30696	D7296.55	.....	30410.4	D7297.23	.....	30212	D7298.45	.....	30496
D7295.025	.....	30692	D7296.56	.....	30410.2	D7297.24	.....	30196	D7298.46	.....	30497
D7295.03	.....	30688	D7296.57	.....	30410	D7297.25	.....	30200	D7298.47	.....	30498
D7295.031	.....	30684	D7296.58	.....	30409	D7297.26	.....	30204	D7298.48	.....	30499
D7295.04	.....	30683.8	D7296.59	.....	30406.4	D7297.27	.....	30208	D7298.49	.....	30504
D7295.05	.....	30683.5	D7296.595	.....	30406.2	D7297.28	.....	30230	D7298.5	.....	30500
D7295.06	.....	30683.4	D7296.6	.....	30407	D7297.29	.....	30236	D7298.51	.....	30508
D7295.07	.....	30683.7	D7296.61	.....	30407.2	D7297.3	.....	30248	D7298.52	.....	30508.5
D7295.08	.....	30682.2	D7296.62	.....	30406	D7297.31	.....	30252	D7298.53	.....	30509
D7295.09	.....	30683.3	D7296.63	.....	30405.5	D7297.4	.....	30261.3	D7298.54	.....	30510
D7295.1	.....	30683.6	D7296.64	.....	30405	D7297.41	.....	30261	D7298.55	.....	30511
D7295.11	.....	30683.2	D7296.65	.....	30404	D7297.411	.....	30261.1	D7298.56	.....	30511.05
D7295.12	.....	30682.1	D7296.7	.....	30408	D7297.5	.....	30364	D7298.57	.....	30525
D7295.14	.....	30682.05	D7296.71	.....	30404.5	D7297.51	.....	30368	D7298.61	.....	30526
D7295.15	.....	30682.07	D7296.72	.....	30400	D7297.52	.....	30372	D7298.62	.....	30511.22
D7295.16	.....	30683	D7296.723	.....	30413	D7297.521	.....	30376	D7298.63	.....	30511.23
D7295.17	.....	30676	D7296.724	.....	30414	D7297.6	.....	30415	D7298.64	.....	30511.24
D7295.18	.....	30680	D7296.725	.....	30412	D7297.61	.....	30415.5	D7298.65	.....	30511.1
D7295.19	.....	30672	D7296.73	.....	30398	D7297.62	.....	30416	D7298.651	.....	30511.2
D7295.195	.....	30668	D7296.74	.....	30396	D7297.65	.....	30422	D7298.66	.....	30511.25
D7295.5	.....	30636	D7296.75	.....	30388	D7297.67	.....	30420	D7298.67	.....	30511.3
D7295.6	.....	30632	D7296.77	.....	30384	D7297.7	.....	30424	D7298.671	.....	30511.4
D7295.61	.....	30628	D7296.78	.....	30348	D7297.71	.....	30424.4	D7298.68	.....	30511.5
D7295.62	.....	30640	D7296.8	.....	30340	D7297.72	.....	30424.2	D7298.7	.....	30511.51
D7295.63	.....	30664	D7296.85	.....	30332	D7297.73	.....	30424.6	D7298.71	.....	30511.53
D7295.65	.....	30648	D7296.86	.....	30324	D7297.74	.....	30425	D7298.72	.....	30511.52
D7295.655	.....	30652	D7296.861	.....	30328	D7297.76	.....	30426	D7298.73	.....	30511.54
D7295.66	.....	30656	D7296.87	.....	30316	D7297.77	.....	30428	D7298.74	.....	30511.55
D7295.665	.....	30660	D7296.871	.....	30320	D7297.79	.....	30432	D7298.75	.....	30511.61
D7295.67	.....	30662	D7296.88	.....	30308	D7297.8	.....	30434.1	D7298.77	.....	30511.81
D7295.68	.....	30662.5	D7296.881	.....	30312	D7297.81	.....	30434	D7298.78	.....	30511.83
D7295.74	.....	30644	D7296.89	.....	30300	D7297.9	.....	30436	D7298.79	.....	30511.84
D7295.78	.....	30616	D7296.891	.....	30304	D7297.91	.....	30439	D7298.8	.....	30511.85
D7295.79	.....	30620	D7296.9	.....	30292	D7297.96	.....	30437	D7298.81	.....	30511.86
D7295.8	.....	30612	D7296.91	.....	30296	D7297.961	.....	30438	D7298.82	.....	30511.82
D7295.9	.....	30608	D7296.95	.....	30280	D7297.97	.....	30441	D7298.83	.....	30511.71
D7296	.....	30606	D7296.96	.....	30284	D7297.99	.....	30440	D7298.84	.....	30511.72
D7296.01	.....	30605.2	D7296.961	.....	30288	D7297.995	.....	30444	D7298.85	.....	30511.92
D7296.02	.....	30605.1	D7296.97	.....	30276	D7298	.....	30449	D7298.86	.....	30511.91

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D7298.87		30511.93	D7300.52		30816	D7318.24		28612.4	D7334.5		28556.6
D7298.88		30511.94	D7300.53		30820	D7318.32		28611	D7334.8		28690
D7298.89		30535	D7300.54		30808	D7318.4		28610	D7334.85		28690.1
D7298.91		30535.1	D7300.55		30812	D7318.5		28610.2	D7335		28552
D7298.92		30534	D7300.56		30824	D7319		28609	D7335.5		28685
D7298.93		30521	D7300.57		30804	D7319.2		28609.2	D7336		30160
D7298.94		30522	D7300.58		30800	D7320		28608	D7336.2		30161
D7298.95		30528	D7300.59		30828.5	D7320.2		28608.2	D7337.5		28669
D7298.96		30524	D7300.61		30829	D7321.6		28605	D7339.5		28684.1
D7298.97		30516	D7300.7		30876	D7321.62		28605.1	D7340		28688
D7298.98		30513	D7300.8		30892	D7321.7		28605.2	D7340.2		28686
D7298.99		30514	D7300.83		30842	D7321.72		28605.3	D7340.4		28687
D7298.995		30512	D7300.85		30852	D7321.74		28605.5	D7340.5		28687.2
D7299		30536	D7300.86		30844	D7321.76		28605.7	D7340.65		28691
D7299.01		30540	D7300.861		30848	D7322		28600	D7341		28692
D7299.02		30544	D7300.9		30896	D7322.25		28604.4	D7342		28700
D7299.12		30545	D7300.95		30900	D7322.5		28598	D7344		28696
D7299.193		30545.95	D7301		30948	D7322.55		28597.82	D7345		30152
D7299.194		30545.9	D7302		30950	D7322.71		28597.8	D7345.05		30157
D7299.195		30545.91	D7302.1		30951	D7322.76		28597.81	D7345.2		30156
D7299.197		30545.92	D7302.3		30949	D7322.8		28597	D7345.5		30153
D7299.199		30545.93	D7303		30949.1	D7322.85		28597.5	D7346		28704
D7299.2		30545.94	D7303.2		30949.2	D7323		28596	D7346.2		28708
D7299.24		30547	D7304		30936	D7324		28592	D7348		28715
D7299.42		30604	D7308		30940	D7324.4		28590	D7349		28716
D7299.44		30552	D7309		30944	D7324.5		28590.2	D7350		28720
D7299.5		30555	D7310		30945	D7324.835		28591	D7351		30140
D7299.501		30556	D7311		30928	D7325.2		28590.4	D7351.4		30141
D7299.502		30560	D7311.2		30932	D7325.26		28589.9	D7351.5		30141.2
D7299.503		30576	D7311.23		30923	D7325.74		28589.8	D7351.8		30141.6
D7299.504		30572	D7312		30920	D7325.8		28589.5	D7351.85		30141.8
D7299.505		30580	D7312.2		30921	D7325.9		28589	D7353		30088
D7299.506		30584	D7313		30904	D7325.95		28588.85	D7353.2		30092
D7299.507		30588	D7313.2		30908	D7326		28588.6	D7353.5		30094
D7299.508		30592	D7313.95		30911.7	D7326.25		28588.1	D7353.6		30094.5
D7299.509		30554	D7314		30909	D7326.28		28588.8	D7354		30132
D7299.51		30594	D7314.08		30910	D7326.282		28588.81	D7354.2		30132.5
D7299.511		30595	D7314.2		30911	D7326.283		28588.82	D7354.4		30133
D7299.516		30593	D7314.3		30913.6	D7326.325		28588.84	D7354.5		30133.5
D7299.52		30597	D7314.4		30911.6	D7326.33		28588.4	D7354.7		30134
D7299.521		30596	D7314.45		30911.5	D7326.34		28588.2	D7354.8		30134.5
D7299.522		30599	D7314.5		30910.5	D7326.5		28587	D7354.9		30137
D7299.523		30598	D7314.55		30913.9	D7326.6		28587.5	D7354.92		30138
D7299.524		30603.5	D7314.6		30913.7	D7327		28586	D7355.2		30120
D7299.525		30603.6	D7314.7		30913.8	D7328		28584	D7355.3		30121
D7299.526		30603	D7315		30914	D7328.1		28584.1	D7355.32		30121.5
D7299.527		30602	D7315.4		28616.5	D7329.1		28570	D7355.4		30124
D7299.533		30600	D7315.8		28617	D7329.3		28580	D7355.6		30100
D7299.534		30601	D7315.81		28617.1	D7329.4		28576	D7355.7		30108
D7299.55		30548	D7315.85		28617.3	D7329.5		28574	D7355.77		30115
D7299.56		30744	D7315.9		28617.5	D7329.6		28567	D7355.8		30110
D7299.565		30743	D7315.92		28617.7	D7329.65		28567.2	D7356.512		30117
D7299.57		30748	D7315.96		28617.9	D7329.7		28567.4	D7356.6		30082.5
D7299.58		30752	D7316		30903	D7329.8		28565.5	D7356.7		30082
D7299.59		30790	D7316.2		30903.2	D7330		28566	D7356.8		30081.5
D7299.6		30788	D7317		30903.4	D7331		28564	D7357		30084
D7299.7		30776	D7317.2		30903.6	D7332		28560	D7357.2		30081
D7299.71		30780	D7317.7		30903.8	D7332.3		28558	D7357.3		30080
D7299.72		30768	D7318		30902	D7332.36		28559	D7357.4		30076
D7299.73		30772	D7318.1		28618	D7332.367		28559.1	D7357.75		30074
D7299.74		30756	D7318.13		28614	D7332.45		28566.2	D7358		30072
D7299.741		30760	D7318.14		28615	D7332.46		28566.3	D7358.21		30071.7
D7300		30784	D7318.171		28616	D7333		28556	D7360		30064
D7300.5		30796	D7318.2		28612	D7334		28556.2	D7360.2		30068
D7300.51		30828	D7318.22		28612.2	D7334.4		28556.4	D7360.22		30070

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D7360.4	.....	30052	D7389.2	.....	29893	D7417	.....	29656	D7442.51	.....	29488
D7360.5	.....	30056	D7389.4	.....	29893.5	D7417.2	.....	29660	D7443.1	.....	29416
D7360.6	.....	30071	D7390.8	.....	29899	D7417.3	.....	29664	D7445	.....	29400
D7360.65	.....	30071.1	D7390.9	.....	29900	D7417.4	.....	29668	D7446	.....	29396
D7360.8	.....	30060	D7390.95	.....	29904	D7417.5	.....	29672	D7447	.....	29376
D7361	.....	30062	D7391.6	.....	29905	D7417.6	.....	29676	D7449	.....	29388
D7363	.....	30020	D7393	.....	29812	D7417.7	.....	29680	D7450	.....	29384
D7363.08	.....	30021	D7393.881	.....	29796	D7417.8	.....	29684	D7450.4	.....	29392
D7363.2	.....	30024	D7393.882	.....	29796.1	D7417.9	.....	29688	D7452	.....	29369
D7363.3	.....	30028	D7393.883	.....	29796.15	D7418	.....	29692	D7452.1	.....	29370
D7363.5	.....	30032	D7393.884	.....	29796.2	D7418.2	.....	29696	D7454	.....	29368
D7363.6	.....	30036	D7393.885	.....	29796.05	D7418.3	.....	29700	D7455	.....	29364
D7363.7	.....	30037	D7393.886	.....	29796.25	D7419.2	.....	29703.5	D7456	.....	29372
D7363.74	.....	30045	D7393.887	.....	29796.3	D7420	.....	29511	D7457	.....	29348
D7363.745	.....	30046	D7393.891	.....	29796.17	D7424	.....	29532	D7457.3	.....	29347
D7363.75	.....	30038	D7393.892	.....	29796.03	D7425	.....	29504	D7457.6	.....	29346
D7364	.....	30040	D7393.893	.....	29796.4	D7427	.....	29534	D7462	.....	29352
D7364.2	.....	30044	D7393.894	.....	29796.45	D7428	.....	29536	D7500	.....	29336
D7364.8	.....	30015	D7393.895	.....	29796.46	D7428.1	.....	29540	D7505	.....	29340
D7365.2	.....	30013	D7393.898	.....	29796.47	D7428.4	.....	29572	D7505.1	.....	29344
D7365.3	.....	30013.5	D7393.9	.....	29796.5	D7428.45	.....	29573	D7505.4	.....	29344.5
D7366	.....	29872	D7393.9001	.....	29796.51	D7428.6	.....	29535	D7568	.....	29324
D7366.2	.....	29880	D7393.9005	.....	29796.48	D7428.8	.....	29544	D7568.2	.....	29328
D7366.3	.....	29876	D7393.91	.....	29796.8	D7428.81	.....	29548	D7568.4	.....	29330
D7366.4	.....	29881	D7393.911	.....	29796.81	D7429	.....	29576	D7569	.....	29316
D7366.6	.....	29868	D7393.92	.....	29796.7	D7429.2	.....	29568	D7569.2	.....	29320
D7367	.....	29836	D7393.93	.....	29796.71	D7429.3	.....	29564	D7571	.....	29236
D7368	.....	29952	D7393.95	.....	29796.6	D7429.5	.....	29560	D7572	.....	29240
D7368.2	.....	29953	D7393.97	.....	29796.65	D7429.6	.....	29556	D7573	.....	29176
D7368.4	.....	29953.1	D7393.975	.....	29796.35	D7429.8	.....	29552	D7573.2	.....	29180
D7369	.....	29956	D7394.5	.....	29794	D7431	.....	29580	D7575	.....	29312
D7370	.....	29964	D7395	.....	29792	D7432	.....	29584	D7575.4	.....	29310
D7370.4	.....	29968	D7398	.....	29636	D7432.1	.....	29588	D7575.5	.....	29313
D7371.35	.....	29991	D7398.4	.....	29640	D7432.4	.....	29592	D7575.6	.....	29304
D7371.4	.....	29994	D7399	.....	29704	D7432.8	.....	29596	D7575.65	.....	29312.6
D7371.7	.....	30004	D7399.3	.....	29738.5	D7433	.....	29600	D7575.655	.....	29303.2
D7372	.....	30006	D7399.5	.....	29642	D7433.2	.....	29604	D7575.66	.....	29303.3
D7372.2	.....	30006.4	D7400	.....	29738	D7433.4	.....	29608	D7575.665	.....	29303.4
D7372.4	.....	30006.8	D7400.9	.....	29707	D7433.5	.....	29612	D7575.67	.....	29303.5
D7375.6	.....	29843	D7400.95	.....	29709	D7434.25	.....	29616.4	D7575.675	.....	29303.6
D7375.7	.....	29848.2	D7401	.....	29724	D7434.3	.....	29616.6	D7575.68	.....	29303.7
D7375.8	.....	29848.4	D7401.1	.....	29728	D7434.4	.....	29616	D7575.7	.....	29312.1
D7376.2	.....	29849.2	D7402	.....	29712	D7434.6	.....	29533	D7575.75	.....	29312.2
D7376.3	.....	29849.4	D7402.5	.....	29720	D7434.61	.....	29533.1	D7575.8	.....	29312.3
D7376.6	.....	29850	D7404	.....	29740	D7434.7	.....	29410	D7575.85	.....	29312.4
D7378	.....	29816	D7404.1	.....	29744	D7435	.....	29402	D7575.9	.....	29312.5
D7378.2	.....	29820	D7404.3	.....	29746	D7436	.....	29404	D7576	.....	29308
D7382	.....	29912	D7404.5	.....	29748	D7436.1	.....	29408	D7577.2	.....	29301.5
D7383	.....	29800	D7404.51	.....	29752	D7437	.....	29418	D7577.3	.....	29301.1
D7384	.....	29804	D7404.8	.....	29754	D7437.5	.....	29419	D7577.4	.....	29301
D7384.05	.....	29806	D7405	.....	29756	D7438	.....	29420	D7578	.....	29300
D7384.1	.....	29806.1	D7405.1	.....	29760	D7438.4	.....	29424	D7578.2	.....	29296
D7384.3	.....	29805	D7406	.....	29764	D7438.6	.....	29428	D7578.4	.....	29296.1
D7384.4	.....	29805.1	D7407	.....	29768	D7438.8	.....	29432	D7579	.....	29292
D7384.5	.....	29805.2	D7407.6	.....	29769	D7439	.....	29440	D7580	.....	29246
D7384.65	.....	29814	D7407.7	.....	29769.5	D7439.4	.....	29444	D7580.1	.....	29246.5
D7384.9	.....	29918	D7409	.....	29732	D7439.5	.....	29448	D7580.3	.....	29248.1
D7385	.....	29932	D7409.2	.....	29736	D7439.6	.....	29452	D7580.4	.....	29248
D7385.2	.....	29934	D7409.5	.....	29737	D7439.8	.....	29460	D7582	.....	29252.1
D7385.4	.....	29944	D7410	.....	29776	D7441	.....	29476	D7582.2	.....	29252.2
D7385.6	.....	29945	D7413	.....	29644	D7441.1	.....	29480	D7582.4	.....	29252
D7387.7	.....	29930	D7414.7	.....	29648	D7441.4	.....	29468	D7582.5	.....	29252.3
D7387.8	.....	29930.2	D7415	.....	29649	D7441.5	.....	29472	D7582.6	.....	29249.1
D7388.65	.....	29908.2	D7415.2	.....	29650	D7441.6	.....	29464	D7582.7	.....	29249
D7388.66	.....	29908.1	D7415.21	.....	29650.5	D7442.5	.....	29484	D7582.8	.....	29249.2

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D7585		29271	D7617.1		29052	D7685.8		28824	D7751.1		28480
D7585.1		29271.1	D7618		29016	D7686		28832	D7754		28497
D7585.15		29271.2	D7619		29020	D7686.1		28836	D7756		28492
D7585.6		29264	D7620		29044	D7686.3		28840	D7760		28424
D7586.7		29268	D7621		28992	D7686.31		28844	D7760.09		28427
D7587		29269	D7622		29024	D7686.5		28848	D7761		28428
D7587.2		29269.1	D7622.1		29028	D7686.51		28852	D7761.5		28436
D7587.62		29270	D7623		29004	D7688		28864	D7763.1		28441
D7587.63		29270.1	D7623.1		29008	D7689		28812	D7763.11		28441.1
D7587.8		29273	D7624		29056	D7690		28804	D7763.5		28442
D7588		29184	D7624.1		29060	D7690.1		28803	D7763.51		28442.1
D7589		29278	D7625		29064	D7690.2		28803.1	D7763.9		28445
D7589.4		29280	D7626		29068	D7691		28808	D7763.91		28446
D7589.52		29184.3	D7626.1		29072	D7692		28792	D7800		28422
D7589.6		29284	D7627		29076	D7692.15		28800.5	D7850		28421
D7589.7		29276.6	D7627.1		29080	D7692.2		28800.7	D7974.6		28893
D7589.8		29276.8	D7629		29092	D7692.3		28800.8,	D8804		30258
D7590		29185	D7629.1		29096	28801			D8806		30263
D7590.2		29185.1	D7630		29084	D7694		28790	D8807		30262
D7590.4		29185.3	D7630.1		29088	D7694.1		28790.1	D8812		30261.5
D7590.5		29185.4	D7632.9		29100	D7695		28768	D8815		30268
D7591		29186	D7633		29104	D7696		28772	D8817		30336
D7591.2		29186.1	D7633.1		29108	D7697		28776	D8822		30361
D7592		29220	D7635		29112	D7697.2		28784	D8824		30356
D7593		29220.2	D7635.2		29116	D7697.4		28788	D8827		30360
D7593.2		29220.4	D7635.6		29120	D7698		28764	D8829		30352
D7593.4		29221	D7635.8		29124	D7699		28756	D8833		30344
D7593.6		29221.4	D7637		29128	D7699.2		28760	D8844		30346
D7593.7		29221.6	D7639		29140	D7700		28732	D8847		30386
D7593.8		29222	D7640		29132	D7703		28724	D8848		30387
D7593.9		29222.2	D7640.1		29136	D7704		28740	D8852		30387.2
D7594		29216	D7648		28956	D7706		28744	D8860		30387.5
D7594.4		29212	D7661		28954.1	D7707		28647	D9162.6		28881.1
D7595		29188	D7661.1		28954	D7707.1		28647.1	D9162.65		28881.2
D7595.5		29192	D7662.8		28950	D7708		28648	D9162.7		28881.3
D7596		29196	D7663		28948	D7708.2		28652	D9162.75		28881.4
D7596.1		29200	D7663.7		28948.1	D7708.4		28656	D9192		30158
D7598.7		29202	D7664.4		28916	D7708.5		28660	D9206.9		29822
D7599		29209	D7665.2		28924	D7709		28624	F0354		28420.5
D7601		29210	D7665.3		28928	D7709.2		28628	F0355		28420
D7602.9		29211	D7666		28940	D7709.4		28632	F0356		28416
D7603		29224	D7666.2		28944	D7709.41		28636	F0357		28411
D7603.3		29226	D7668.4		28930	D7709.6		28644	F0358		28408
D7603.5		29285	D7670.5		28902	D7709.7		28640	F0360		28404
D7603.6		29285.2	D7671		28904	D7709.8		28622	F0361.8		28398
D7603.8		29276	D7671.1		28908	D7710		28620	F0361.81		28398.5
D7604		29228	D7674		28897	D7711		28548	F0362		28396
D7604.4		29143	D7674.5		28895	D7712		28544	F0365		28378
D7604.5		29143.1	D7676		28892	D7713		28540	F0366		28380
D7604.6		29143.2	D7678		28883.5	D7714		28540.5	F0367.2		28358.8
D7604.7		29143.3	D7678.2		28883.6	D7720.2		28533	F0367.3		28358.81
D7604.8		29143.4	D7679		28883.1	D7723		28534	F0367.6		28359
D7605		29144	D7679.2		28883.2	D7725		28526	F0367.61		28359.5
D7605.3		29146.2	D7679.3		28883	D7730		28524	F0367.62		28359.3
D7605.4		29146.1	D7679.5		28882	D7731		28520	F0367.8		28366
D7605.5		29146	D7680		28880	D7734		28516	F0368		28368
D7607.8		29288	D7680.3		28881	D7734.1		28517	F0370		28376
D7612		28976	D7680.5		28879	D7734.2		28517.5	F0378		28356
D7613		28972	D7681		28878	D7734.3		28518	F0380		28352
D7614		29032	D7681.5		28813	D7734.35		28518.1	F0382.5		28347
D7614.1		29036	D7683		28876	D7736		28512	F0382.51		28347.5
D7615		29012	D7685		28816	D7740		28508	F0383		28340
D7616		28996	D7685.4		28820	D7742		28504	F0383.5		28344
D7616.1		29000	D7685.6		28856	D7745		28500	F0384		28336
D7617		29048	D7685.61		28860	D7750		28472	F0386		28332

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F0386.5		28328	F0502		28044	F0636.5		27752.2	F0754		27576
F0388		28312	F0514		27952	F0636.6		27752.3	F0754.2		27592
F0389		28316	F0515		27960	F0636.7		27752.4	F0754.4		27596
F0390		28308	F0516		27956	F0636.8		27752.5	F0754.6		27598
F0393		28320	F0520		27968	F0636.9		27752.6	F0754.7		27600
F0396		28300	F0521		27972	F0637		27748	F0755		27616
F0397		28304	F0523		27976	F0638		27744	F0755.2		27620
F0398		28296	F0528		27984	F0644		27732	F0755.5		27624
F0400		28288	F0528.1		27988	F0648		27724	F0755.6		27608
F0401		28290	F0532		27992	F0651		27716	F0756		27604
F0404		28284	F0534		27996	F0652		27712	F0757		27612
F0406		28280	F0546		28004	F0655		27708	F0758		27468
F0406.1		28282	F0547		28008	F0656		27709	F0758.1		27470
F0407		28270	F0547.1		28012	F0657		27710	F0762.9		27394
F0410		28272	F0548		28016	F0658		27704	F0763.15		27396
F0412		28276	F0548.1		28020	F0660		27700	F0763.2		27400
F0414		28268	F0549		28024	F0664		27696	F0763.4		27402
F0414.2		28266	F0551		28040	F0666		27688	F0763.6		27404
F0420		28264	F0552.3		28014	F0666.1		27692	F0764		27376
F0422		28256	F0552.31		28014.5	F0668		27684	F0764.2		27380
F0424		28260	F0556		27936	F0668.5		27680	F0764.4		27372
F0426		28244	F0556.5		27940	F0669.5		27676	F0764.6		27384
F0430		28236	F0556.51		27944	F0671		27672	F0764.8		27388
F0430.6		28232	F0557		27932	F0672		27668	F0764.85		27392
F0432		28208	F0557.6		27924	F0674		27664	F0764.9		27408
F0432.2		28212	F0558		27928	F0678		27660	F0765		27412
F0432.4		28216	F0559		27916	F0682		27652	F0765.1		27411
F0436		28204	F0562		27908	F0686		27640	F0765.11		27411.1
F0438		28200	F0563		27912	F0689		27636	F0765.12		27412.1
F0442		28196	F0564		27904	F0692		27632	F0765.13		27411.2
F0444		28192	F0566		27888	F0693		27564	F0765.2		27414
F0446		28188	F0570		27892	F0694.5		27560	F0765.4		27415
F0448		28180	F0570.1		27896	F0698		27528	F0765.5		27416
F0449		28184	F0576		27884	F0700		27540	F0765.6		27420
F0452		28176	F0577		27880	F0700.1		27548	F0765.65		27424
F0455		28160	F0578		27868	F0702		27552	F0765.8		27428
F0455.1		28164	F0579		27864	F0702.1		27556	F0766		27432
F0455.6		28168	F0580		27856	F0703		27544	F0766.2		27440
F0456		28156	F0583		27850	F0705		27520	F0766.4		27448
F0468		28132	F0586		27840	F0706		27516	F0766.6		27436
F0469.5		28130	F0587		27844	F0706.5		27517	F0766.65		27444
F0469.7		28129.55	F0588		27836	F0710		27512	F0766.8		27452
F0469.8		28129.5	F0590		27828	F0712		27504	F0767		27456
F0469.9		28129	F0592		27832	F0715		27502	F0767.05		27464
F0469.95		28128.5	F0596		27820	F0717		27496	F0767.2		27460
F0470		28128	F0596.1		27824	F0718		27492	F0767.6		27466
F0472		28124	F0597		27808	F0720		27476	F0783		27303
F0476		28120	F0598		27804	F0722		27480	F0784		27303.3
F0478		28116	F0600		27800	F0724		27472	F0785		27304
F0479		28112	F0606		27772	F0726		27484	F0786		27312
F0480		28108	F0607		27776	F0727		27488	F0787		27308
F0484		28100	F0610		27780	F0730		27200	F0788		27316
F0488		28096	F0610.1		27784	F0734		27176	F0789		27318
F0489		28092	F0613		27788	F0735		27192	F0790		27320
F0491		28088	F0613.1		27792	F0735.1		27196	F0791		27324
F0491.5		28084	F0614		27796	F0735.5		27188	F0793		27336
F0491.8		28080	F0622		27760	F0735.6		27189	F0795		27328
F0492		28076	F0622.2		27764	F0735.7		27189.1	F0800		27344
F0493		28072	F0623		27764.4	F0736		27180	F0804		27332
F0494		28068	F0623.1		27764.41	F0736.1		27184	F0805		27340
F0496		28064	F0623.2		27764.5	F0738		27172	F0820		27296
F0498		28056	F0623.3		27764.51	F0749		27588	F0820.1		27300
F0499		28060	F0628		27768	F0750		27580	F0824		27292
F0500		28052	F0634		27756	F0752		27572	F0826		27288
F0501		28048	F0636.2		27752.1	F0752.5		27574	F0830		27284

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F0832	.....	27282	F0962.4	.....	27027	F1053.81	.....	26826.1	F1185.4	.....	22179.4
F0836	.....	27276	F0962.5	.....	27026	F1054	.....	26760	F1185.5	.....	22179.6
F0840	.....	27272	F0964	.....	27020	F1056.4	.....	26756	F1186	.....	22172
F0842	.....	27268	F0966	.....	27016	F1057	.....	26752	F1188	.....	22168
F0844	.....	27264	F0968	.....	27012	F1058	.....	26748	F1192.4	.....	22152
F0846	.....	27260	F0969.2	.....	27010	F1059	.....	26744	F1192.5	.....	22156
F0852	.....	27244	F0969.21	.....	27010.5	F1060.5	.....	26736	F1193	.....	22160
F0857	.....	27256	F0970	.....	26972	F1061	.....	26728	F1193.8	.....	22148
F0862	.....	27252	F0971	.....	26976	F1062	.....	26732	F1194	.....	22144
F0864.2	.....	27236	F0973.02	.....	26996	F1064	.....	26724	F1200	.....	26564
F0866	.....	27232	F0973.04	.....	27000	F1064.3	.....	26720	F1201	.....	26552
F0870	.....	27228	F0973.06	.....	27004	F1064.5	.....	26716	F1201.1	.....	26560
F0874	.....	27212	F0973.12	.....	26988	F1065	.....	26708	F1202	.....	26556
F0875	.....	27208	F0973.14	.....	26992	F1066	.....	26712	F1202.2	.....	26557
F0876	.....	27204	F0974.4	.....	26980	F1067	.....	26704	F1202.3	.....	26542
F0877	.....	27216	F0978	.....	26964	F1068	.....	26688	F1202.4	.....	26548
F0878	.....	27220	F0980	.....	26960	F1070	.....	26692	F1202.45	.....	26544
F0884	.....	27364	F0982	.....	26956	F1074	.....	26680	F1202.58	.....	26539
F0886	.....	27368	F0985	.....	26951	F1088	.....	26620	F1202.6	.....	26532
F0900	.....	27168	F0988	.....	26948	F1100.9	.....	26640	F1202.62	.....	26528
F0901	.....	27152	F1000	.....	26946	F1101	.....	26644	F1202.64	.....	26524
F0901.1	.....	27156	F1002	.....	26944	F1101.2	.....	26648	F1202.66	.....	26520
F0901.5	.....	27151	F1003	.....	26940	F1106	.....	26660	F1202.68	.....	26518
F0901.7	.....	27150	F1004.4	.....	26937	F1106.1	.....	26664	F1202.8	.....	26516
F0901.9	.....	27148	F1005.2	.....	26908	F1126	.....	26596	F1202.9	.....	26514
F0902	.....	27145	F1005.4	.....	26912	F1128	.....	26592	F1203	.....	26512
F0904	.....	27160	F1005.6	.....	26916	F1131	.....	26588	F1204	.....	26508
F0904.1	.....	27164	F1005.605	.....	26918	F1132	.....	26584	F1205	.....	26492
F0906	.....	27167	F1005.61	.....	26920	F1136	.....	26580	F1207	.....	26496
F0910	.....	27144	F1005.611	.....	26921	F1138	.....	26572	F1208	.....	26500
F0914	.....	27140	F1005.612	.....	26921.5	F1144	.....	26576	F1208.5	.....	26501
F0914.53	.....	27139.1	F1005.613	.....	26922	F1158	.....	26570	F1209.5	.....	26502
F0914.531	.....	27139	F1005.614	.....	26922.5	F1159	.....	22229	F1210	.....	26504
F0915	.....	27138.1	F1005.8	.....	26924	F1160	.....	22228	F1210.5	.....	26513
F0915.1	.....	27138	F1005.81	.....	26928	F1161	.....	22224	F1211	.....	26476
F0916	.....	27136	F1005.9	.....	26932	F1162	.....	22216	F1212	.....	26480
F0918	.....	27134	F1005.92	.....	26936	F1163	.....	22220	F1212.5	.....	26481
F0919	.....	27132	F1006	.....	26900	F1164	.....	22212	F1212.8	.....	26482
F0919.1	.....	27126	F1018	.....	26842	F1165	.....	22208	F1213	.....	26488
F0920	.....	27120	F1023	.....	26846	F1166	.....	22204	F1214	.....	26484
F0926	.....	27112	F1024	.....	26852	F1166.8	.....	22215	F1220	.....	26464
F0929	.....	27110	F1024.5	.....	26847	F1167	.....	22214	F1222.4	.....	26452
F0932	.....	27108	F1028	.....	26860	F1168	.....	22200	F1222.5	.....	26451.4
F0934	.....	27104	F1029	.....	26861	F1170	.....	22184	F1222.55	.....	26451.3
F0935	.....	27100	F1031.45	.....	26862	F1174	.....	22188	F1222.58	.....	26451.1
F0936	.....	27072	F1031.46	.....	26863	F1174.3	.....	22189	F1222.65	.....	26450
F0940	.....	27076	F1032.7	.....	26865	F1174.5	.....	22189.1	F1222.8	.....	26451.2
F0941	.....	27078	F1034	.....	26868	F1174.6	.....	22189.3	F1223	.....	26446
F0942	.....	27080	F1034.5	.....	26869	F1174.61	.....	22189.31	F1223.4	.....	26448
F0943	.....	27096	F1035	.....	26892	F1175	.....	22190	F1223.6	.....	26440
F0944	.....	27084	F1045.5	.....	26840	F1175.2	.....	22190.2	F1223.8	.....	26439
F0947	.....	27071	F1048	.....	26764	F1175.4	.....	22190.4	F1224	.....	26424
F0950	.....	27068	F1049	.....	26792	F1178	.....	22196	F1224.1	.....	26437
F0951	.....	27064	F1050	.....	26772	F1182	.....	22192	F1224.9	.....	26436.5
F0952	.....	27060	F1050.4	.....	26776	F1182.6	.....	22191	F1225	.....	26428
F0952.3	.....	27057	F1050.41	.....	26780	F1182.601	.....	22191.5	F1226	.....	26432
F0952.5	.....	27056	F1051	.....	26784	F1182.8	.....	22181	F1226.1	.....	26436
F0952.8	.....	27054	F1051.1	.....	26788	F1183	.....	22180	F1227.1	.....	26426
F0952.9	.....	27055	F1052	.....	26804	F1184	.....	22176	F1234	.....	23202
F0953	.....	27052	F1052.1	.....	26808	F1184.5	.....	22177	F1235	.....	23209
F0955	.....	27044	F1053	.....	26812	F1184.6	.....	22177.1	F1235.5	.....	23209.2
F0957	.....	27040	F1053.1	.....	26816	F1184.8	.....	22178	F1236	.....	23212
F0958	.....	27032	F1053.4	.....	26820	F1184.9	.....	22178.1	F1236.5	.....	23216
F0960	27024	F1053.41	26824	F1185.1	22179	F1237	23210
F0962	27028	F1053.8	26826	F1185.2	22179.2	F1238	23220

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F1241	23224	F1294	22284	F1376.5	22458	F1424	22609
F1242	.....	23224.5	F1295	.....	22238	F1377	.....	22470	F1426	.....	22610
F1242.5	.....	23225	F1296	.....	22273	F1378	.....	22460	F1428	.....	22612
F1244	.....	23228	F1300	.....	22232	F1378.5	.....	22462	F1428.3	.....	22613
F1245	.....	23271	F1301	.....	22234	F1378.7	.....	22463	F1428.5	.....	22613.5
F1248	.....	23248	F1302	.....	22236	F1378.71	.....	22463.5	F1429	.....	22616
F1248.2	.....	23256	F1308	.....	22260	F1379	.....	22468	F1430	.....	22617
F1248.4	.....	23252	F1310	.....	22244	F1379.2	.....	22471	F1438	.....	22696
F1250	.....	23260	F1312	.....	22240	F1379.5	.....	22481	F1440.2	.....	22704
F1251	.....	23262	F1313	.....	22252	F1379.51	.....	22481.1	F1445	.....	22708.5
F1252	.....	23261	F1313.5	.....	22256	F1382	.....	22480	F1470	.....	22132
F1253	.....	23247.5	F1314	.....	22258	F1383	.....	22482	F1471	.....	22134
F1254	.....	23240	F1315	.....	22268	F1383.1	.....	22482.1	F1472	.....	22138
F1254.2	.....	23244	F1316	.....	22276	F1383.8	.....	22485	F1472.11	.....	22138.1
F1254.4	.....	23244.2	F1317	.....	22272	F1384.2	.....	22487	F1472.12	.....	22138.2
F1254.5	.....	23239	F1319	.....	22286	F1385	.....	22488	F1473	.....	22140
F1254.6	.....	23238	F1320.2	.....	22292	F1385.5	.....	22489	F1474	.....	22120
F1255	.....	23232	F1321	.....	22312	F1386	.....	22484	F1475	.....	22118
F1255.2	.....	23236	F1321.1	.....	22314	F1388	.....	22484.5	F1476	.....	22124
F1256	.....	23245.5	F1321.2	.....	22304	F1390	.....	22486	F1476.1	.....	22367
F1257	.....	23246	F1321.3	.....	22300	F1395	.....	22492	F1476.22	.....	22131.2
F1259	.....	23258	F1321.5	.....	22305, 22307.5	F1395.2	.....	22491	F1476.23	.....	22131
F1260	.....	23268.5	F1321.6	.....	22309	F1395.5	.....	22496	F1476.24	.....	22131.1
F1262	.....	23268	F1321.8	.....	22313	F1396	.....	22500	F1476.3	.....	22130
F1262.3	.....	23267	F1322	.....	22340	F1397	.....	22508	F1476.4	.....	22125
F1262.4	.....	23247	F1322.1	.....	22344	F1398	.....	22578	F1476.5	.....	22126
F1262.5	.....	23269	F1323	.....	22316	F1400.311	.....	22490	F1476.6	.....	22126.5
F1263	.....	23284	F1323.2	.....	22320	F1400.311-5	.....	22490.1	F1476.7	.....	22127
F1263.2	.....	23285	F1323.4	.....	22324	F1401.05	.....	22511.1	F1477.3	.....	22123
F1263.3	.....	23276	F1323.5	.....	22351	F1401.5	.....	22511.5	F1477.6	.....	22122
F1263.5	.....	23272	F1323.51	.....	22352	F1401.9	.....	22520	F1477.7	.....	22124.5
F1264	.....	23288	F1324	.....	22356	F1402	.....	22512	F1478	.....	22116
F1264.5	.....	23280	F1326	.....	22360	F1402.1	.....	22516	F1478.3	.....	22117
F1265	.....	23259	F1327	.....	22364	F1402.5	.....	22523	F1478.4	.....	22117.5
F1265.5	.....	23290	F1327.5	.....	22368	F1402.6	.....	22523.1	F1479	.....	22112
F1266.3	.....	23289	F1327.8	.....	22369	F1402.62	.....	22523.3	F1480	.....	22108
F1267	.....	23292	F1328	.....	22372	F1402.64	.....	22523.5	F1482	.....	22104
F1267.5	.....	23291	F1329	.....	22374	F1403	.....	22524	F1483	.....	22100
F1270	.....	23300	F1330	.....	22376	F1403.9	.....	22532	F1486	.....	22088
F1270.5	.....	23298	F1330.1	.....	22380	F1404	.....	22528	F1490	.....	22092
F1271	.....	23296	F1330.5	.....	22384	F1404.1	.....	22536	F1494	.....	22056
F1271.5	.....	23295	F1330.6	.....	22388	F1406	.....	22542	F1514	.....	22052
F1273	.....	23304	F1330.7	.....	22392	F1407	.....	22544	F1515.2	.....	22053.5
F1273.5	.....	23305	F1334	.....	22394	F1411	.....	22552	F1519	.....	22032
F1274	.....	23316	F1337	.....	22395	F1412.6	.....	22573	F1519.5	.....	22034
F1274.5	.....	23308	F1337.5	.....	22395.1	F1413	.....	22556	F1522	.....	22036
F1275	.....	23312	F1352	.....	22400	F1413.1	.....	22560	F1523	.....	22040
F1276	.....	23311	F1355.9	.....	22412	F1413.5	.....	22580	F1523.5	.....	22031
F1277	.....	23310.5	F1356	.....	22416	F1413.7	.....	22580.7	F1524	.....	22064
F1278	.....	23310	F1356.01	.....	22420	F1417	.....	22590	F1524.1	.....	22068
F1278.5	.....	23317	F1356.05	.....	22417	F1417.2	.....	22602	F1525	.....	22072
F1279	.....	23318	F1362	.....	22424	F1417.22	.....	22606	F1525.1	.....	22076
F1280	.....	23307	F1362.1	.....	22428	F1417.24	.....	22603	F1527	.....	22020
F1281	.....	23306	F1362.2	.....	22429.5	F1417.3	.....	22585.5	F1527.1	.....	22024
F1284	.....	23320	F1362.5	.....	22429	F1417.4	.....	22585	F1529	.....	22016
F1289	.....	23326	F1367	.....	22430	F1417.42	.....	22585.1	F1532	.....	22008
F1290	.....	23324	F1371	.....	22441	F1417.43	.....	22585.2	F1532.1	.....	22012
F1291	.....	23322	F1371.2	.....	22442	F1417.46	.....	22584.9	F1536	.....	22006
F1292	.....	23328	F1372	.....	22444	F1417.47	.....	22584.91	F1536.1	.....	22005.6
F1292.2	.....	23328.5	F1373	.....	22448	F1417.48	.....	22584.92	F1536.3	.....	22005.4
F1292.3	.....	23329	F1374	.....	22450	F1417.5	.....	22588	F1536.5	.....	22005.5
F1292.35	.....	23329.5	F1374.5	.....	22449	F1417.6	.....	22587	F1536.7	.....	22005.7
F1292.5	.....	23330	F1375	.....	22452	F1418	.....	22596	F1537	.....	22005.2
F1292.7	23331	F1375.5	22456	F1420	22600	F1537.1	22005.3
F1293	22296	F1376	22464	F1422	22608	F1537.3	22005.1

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F1537.5		22005	F1592.1		21840	F1658		21698	F1697.5		21436
F1538		22000	F1594		21820	F1660		21696	F1697.7		21424
F1538.4		22004	F1595		21834	F1668		21692	F1697.73		21428
F1540		21992	F1597		21826	F1669		21690	F1697.96		21460
F1540.3		21998	F1604		21828	F1669.1		21691	F1697.965		21460.5
F1540.6		21996	F1604.1		21832	F1670		21688	F1697.97		21461
F1540.8		21999	F1606		21816	F1670.1		21689	F1697.971		21461.1
F1542.5		21990	F1608		21808	F1674		22584	F1697.979		21461.9
F1543		21988	F1609		21806	F1674.05		22581	F1697.981		21461.3
F1544		21984	F1609.1		21806.1	F1674.1		22584.2	F1697.982		21461.5
F1546		21980	F1612		21800	F1674.2		22584.6	F1697.983		21461.7
F1550		21976	F1614		21780	F1674.3		22584.8	F1697.99		21462
F1552		21972	F1614.5		21782	F1674.4		22584.4	F1697.995		21320
F1552.5		21970	F1616		21784	F1674.5		22586	F1698		21336
F1553.2		21968	F1616.5		21795	F1676		21687	F1699		21340
F1554		21924	F1617		21788	F1676.2		21687.1	F1699.5		21342
F1554.9		21928	F1617.2		21792	F1676.5		21686.5	F1700.1		21596
F1555		21932	F1617.4		21794	F1678		21686.1	F1700.38		21625
F1555.1		21936	F1619		21776	F1679		21682	F1700.39		21625.1
F1557		21940	F1619.4		21774	F1679.2		21682.1	F1700.6		21590
F1558		21960	F1619.7		21773.5	F1680		21686	F1700.65		21590.5
F1558.3		21915	F1620		21772	F1681		21685	F1700.7		21591
F1558.4		21915.1	F1620.3		21773	F1684		21656	F1700.74		21592
F1558.5		21912	F1620.5		21771	F1684.4		21681	F1701.2		21624
F1558.7		21915.2	F1621		21770	F1684.5		21681.1	F1701.22		21620
F1558.73		21915.3	F1621.5		21768	F1685.03		21664	F1701.6		21601
F1558.76		21915.4	F1622		21764	F1685.05		21672	F1701.62		21601.1
F1558.9		21914	F1622.5		21760	F1685.6		21608	F1701.75		21588
F1559		21944	F1623		21752	F1685.65		21660	F1701.8		21586
F1559.1		21948	F1623.6		21756	F1685.8		21632	F1701.81		21586.1
F1560		21916	F1625		21748.5	F1686		21628	F1704		21392
F1560.2		21920	F1626		21748	F1686.3		21636	F1708		21354.5
F1560.5		21921	F1627		21749	F1687		21580	F1708.1		21354.6
F1560.6		21922	F1627.4		21750	F1688		21576	F1716		21352
F1560.9		21964.5	F1627.6		21746	F1688.7		21574	F1717		21343
F1562		21965	F1627.8		21747	F1688.8		21574.5	F1718		21344
F1562.1		21965.5	F1627.9		21746.5	F1690		21552	F1718.4		21332
F1562.4		21966	F1628		21742	F1690.1		21556	F1718.6		21354
F1562.5		21966.5	F1628.1		21744.6	F1690.2		21560	F1718.7		21298
F1563		21967	F1628.3		21745	F1690.4		21564	F1720		21396
F1563.5		21967.5	F1628.35		21745.2	F1690.48		21567	F1720.4		21355.4
F1565		21900	F1628.4		21745.4	F1690.5		21568	F1720.6		21355
F1566		21898	F1628.45		21745.6	F1690.55		21572	F1721		21300
F1569		21908	F1628.6		21744.4	F1690.6		21544	F1725		21296
F1570		21909	F1628.65		21744.3	F1690.7		21540	F1726.2		21276
F1572		21896	F1629		21744	F1690.72		21545	F1726.4		21280.5
F1573		21892	F1633		21734	F1690.725		21545.5	F1732.5		21268
F1573.5		21884	F1634		21736	F1690.73		21546	F1733		21260
F1574.3		21880	F1636		21740	F1691.8		21491	F1733.17		21264
F1574.4		21878	F1637		21735	F1692		21492	F1733.18		21265
F1574.6		21876	F1640		21732	F1693		21500	F1733.19		21202
F1575.5		21875	F1641		21731	F1693.2		21504	F1734		21200.7
F1576		21864	F1642		21730	F1693.9		21495	F1735		21200.3
F1576.2		21874	F1644		21728	F1693.95		21487	F1735.6		21200.4
F1576.4		21868	F1646		21724	F1694		21480	F1736		21200
F1577		21866	F1646.2		21725	F1694.2		21484	F1736.5		21201
F1578		21860	F1646.5		21726	F1694.6		22592	F1736.55		21201.5
F1579		21862	F1648		21718	F1694.7		21476	F1736.95		21182
F1580		21861	F1650		21716	F1695		21508	F1736.951		21182.1
F1584		21851	F1652		21708	F1695.3		21528	F1736.96		21182.2
F1585		21856	F1652.5		21712	F1695.6		21464	F1736.965		21182.6
F1586		21848	F1653.5		21703.5	F1696		21400	F1736.97		21182.3
F1591		21846	F1654		21703	F1697		21408	F1736.975		21182.4
F1591.2		21846.2	F1655		21701	F1697.2		21412	F1736.98		21182.5
F1592		21836	F1657		21699	F1697.3		21416	F1736.983		21183.1

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F1736.985		21183.2	F1832		21096	F1904.75		24024	F1935		24245
F1736.988		21183.3	F1834		21097.8	F1904.88		24026	F1935.2		24245.2
F1736.99		21183.4	F1835		21117	F1904.9		24040	F1936		24368
F1736.995		21183.5	F1836.1		21121	F1905		24044	F1936.4		24336
F1737		21184	F1836.3		21120	F1905.6		24056	F1936.42		24340
F1737.2		21185	F1836.5		21112	F1905.8		24052	F1936.43		24344
F1738		21189	F1836.6		21114	F1908		24068	F1936.44		24348
F1739		21204	F1836.7		21108	F1909.1		24078	F1936.45		24352
F1740		21208	F1836.8		21101	F1909.4		24076	F1936.46		24356
F1742		21212	F1837		21102	F1909.6		24060	F1936.47		24362
F1744		21216	F1837.6		21104	F1913		24084	F1936.5		24328
F1745		21222	F1837.65		21104.5	F1913.9		24093	F1936.51		24332
F1748		21220	F1837.7		21105	F1914		24088	F1936.55		24334
F1766		21240	F1837.75		21104.7	F1914.2		24090	F1936.56		24335
F1766.1		21244	F1837.8		21106	F1915		24096	F1936.6		24360
F1770.6		21252	F1838		21100	F1915.5		24100	F1937		24364
F1770.62		21256	F1838.3		21098	F1915.8		24105	F1937.2		24365
F1771.6		22620.1	F1838.35		21100.1	F1915.9		24107	F1937.25		24366
F1772		22620	F1844		25108	F1916		24104	F1937.3		24367
F1772.1		22618	F1845		25107	F1916.4		24108	F1938		24316
F1772.15		22619	F1847		25104	F1917		24112	F1939		24256
F1772.2		22619.5	F1848		25106	F1917.4		24116	F1939.5		24256.2
F1772.3		22620.5	F1850		25100	F1918.21		24122	F1940		24257
F1772.31		22620.6	F1854		25096	F1918.4		24120.5	F1940.2		24258
F1772.36		22620.7	F1872		25072	F1920		24124	F1940.21		24259
F1772.4		22621	F1872.1		25076	F1920.2		24125	F1940.3		24260
F1772.41		22621.5	F1872.3		25077	F1922.4		24134	F1940.4		24264
F1772.45		22622	F1872.4		25077.2	F1922.41		24134.1	F1941		24265
F1772.47		22622.1	F1872.5		25077.4	F1923.41		24140	F1941.1		24266
F1772.48		22620.8	F1872.6		25069	F1923.6		24142	F1941.2		24268
F1773		22624	F1873.2		25079	F1923.7		24144	F1941.6		24272
F1774		22632	F1879		25081	F1923.71		24148	F1941.8		24276
F1775		22636	F1880		25080	F1924		24156	F1942		24280
F1775.1		22633	F1883		25082	F1924.1		24160	F1942.4		24284
F1776		22640	F1885		25084	F1924.3		24164	F1942.7		24288
F1778		22641	F1887		25086	F1925		24168	F1942.9		24290
F1780		22644	F1887.5		25086.2	F1925.2		24172	F1943		24292
F1780.1		22648	F1888		25086.3	F1925.21		24176	F1943.2		24294
F1786		22652	F1888.5		25086.4	F1925.25		24176.7	F1943.3		24295
F1787		22642	F1889		25086.5	F1925.3		24177	F1943.4		24296
F1788		22643	F1890		25088	F1925.31		24178	F1943.5		24298
F1790		22656	F1891		25092	F1925.33		24178.6	F1945		24315
F1796		22664	F1892		25094	F1925.35		24178.5	F1945.2		24386.2
F1796.1		22668	F1892.1		25094.2	F1925.4		24179	F1946		24387
F1798		22660	F1894		23872	F1925.45		24179.5	F1946.3		24387.5
F1802		22676	F1895.15		23876	F1925.5		24180.5	F1946.5		24388
F1806		22672	F1895.151		23880	F1925.55		24180	F1946.8		24390
F1807		22680	F1896		23888	F1925.57		24176.3	F1946.9		24391
F1807.1		22684	F1896.4		23900	F1925.58		24176.6	F1947		24392
F1807.3		22687	F1896.85		23906	F1925.78		24181	F1948		24440
F1807.5		22692	F1897		23908	F1925.8		24184	F1949		24396
F1808		22695	F1897.6		23910	F1926		24188	F1951.3		24424
F1809		22694	F1898		23916	F1926.1		24192	F1951.6		24418
F1812		21176	F1900		23920	F1926.6		24196	F1951.8		24404
F1820		21188	F1900.1		23924	F1928		24204	F1953.2		24442.1
F1821		21186	F1901		23928	F1928.1		24208	F1953.4		24442.2
F1822		21180	F1901.1		23932	F1929		24212	F1954.2		24443
F1828		21097	F1901.4		23936	F1930		24216	F1954.4		24450
F1830		21096.5	F1901.6		23940	F1932.6		24231	F1954.5		24445
F1830.5		21096.7	F1902.2		23944	F1932.9		24238	F1955		24446
F1830.55		21096.8	F1902.4		23952	F1934		24240	F1955.6		24448
F1830.6		21097.7	F1904.2		23996	F1934.5		24241	F1955.7		24452
F1830.7		21097.65	F1904.45		23892	F1934.51		24241.5	F1955.8		24457
F1830.8		21097.6	F1904.6		24016	F1934.8		24248	F1956		24464
F1831		21097.5	F1904.7		24028	F1934.9		24244	F1956.6		24468

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F1957		24472	F1991.72		24682	F2028		24800	F2107.56		25222.8
F1957.3		24476	F1991.84		24683	F2028.1		24804	F2107.8		25222.45
F1957.6		24492	F1991.85		24683.5	F2028.2		24810	F2108		25223
F1957.7		24496	F1992		24688	F2028.21		24810.1	F2109		25218
F1957.8		24484	F1992.14		24700	F2028.3		24812	F2109.2		25219
F1957.9		24488	F1992.2		24704	F2028.31		24816	F2109.8		25222.65
F1958		24480	F1992.3		24696	F2028.9		24817.4	F2110		25222
F1958.05		24500	F1992.7		24708	F2029		24817	F2110.3		25222.4
F1958.2		24504	F1993.5		24716	F2029.1		24817.2	F2110.5		25220, 25222.3
F1958.9		24508	F1994		24728	F2029.4		24818	F2111.3		25222.55
F1959.4		24511	F1995.4		24732	F2029.41		24818.1	F2111.5		25222.5
F1959.44		24510.9	F1997		24736	F2029.7		24818.5	F2111.8		25222.6
F1959.45		24510.8	F1999		24740	F2029.8		24818.7	F2114		25176
F1959.46		24510.7	F1999.3		24731	F2030		24818.4	F2116		25180
F1959.8		24510	F1999.6		24744	F2030.2		24818.3	F2119		25186
F1959.82		24513	F1999.65		24746	F2031		24819	F2120		25184
F1961.3		24515	F1999.7		24745	F2031.1		24819.1	F2120.5		25188
F1961.5		24520	F1999.73		24745.5	F2040		25114	F2123		25190
F1962		24524	F1999.75		24744.5	F2044		25120	F2124		25192
F1964		24532	F1999.8		24747	F2045		25119	F2126		25196
F1968		24536	F1999.9		24749	F2046		25118	F2127		25194
F1969		24540	F2000		24752	F2047		25121	F2127.5		25196.5
F1970		24544	F2000.5		24753	F2047.5		25122	F2128		25197
F1971		24546	F2001		24754	F2048		25116	F2130		25204
F1973		24547	F2002		24756	F2050		25112	F2132		25202
F1974		24545.5	F2007		24770	F2051		25111.7	F2132.5		25198.5
F1974.3		24545	F2008		24764	F2052		25113	F2133		25198
F1976.2		24553	F2008.1		24768	F2054		25124	F2133.5		25197.8
F1977.5		24561	F2009		24762	F2058		25126	F2134		25199
F1978		24568	F2010		24772	F2060		25128	F2134.5		25200.5
F1978.6		24564	F2010.2		24771	F2061.1		25129	F2134.8		25200.2
F1978.7		24569.5	F2014.3		24772.5	F2062		25132	F2135		25200
F1978.8		24570	F2014.5		24773.1	F2062.5		25134	F2135.5		25201
F1978.9		24584	F2015		24774	F2063		25136	F2136		25197.5
F1979		24580	F2015.5		24773	F2063.3		25137	F2137		25197.2
F1979.3		24585	F2015.7		24775	F2063.8		25139	F2138		25156
F1979.7		24587	F2016		24776	F2064		25140	F2142		24544
F1979.8		24589	F2016.5		24775.1	F2064.4		25142	F2152		24540
F1981		24593	F2018		24780	F2066		25144	F2156		24536
F1982		24596	F2019		24775.5	F2068		25148	F2158		24534
F1984.8		24604.2	F2020		24782	F2070		25152	F2158.2		24542.1
F1985		24606	F2022		24784	F2070.5		25156.2	F2158.25		24542.2
F1985.3		24609	F2022.3		24787	F2071		25156.5	F2158.28		24542.3
F1985.7		24608.2	F2022.5		24786	F2072		25156	F2158.3		24542.4
F1986		24608	F2024.2		24779	F2077		25158	F2158.4		24542.5
F1986.5		24605	F2024.3		24778	F2078		25160	F2158.8		24542.6
F1987		24612	F2024.5		24788	F2079		25172	F2159		24542
F1987.3		24614	F2024.6		24790	F2079.5		25164	F2159.3		24541.3
F1987.5		24616	F2024.65		24792.5	F2079.55		25162	F2159.4		24541.4
F1987.8		24617	F2024.7		24792	F2079.57		25157	F2159.5		24541.5
F1988		24620	F2024.73		24793	F2079.6		25168	F2160		24532
F1988.3		24624	F2024.75		24794	F2079.7		25169	F2160.5		24527.5
F1989		24632	F2024.8		24796	F2082		25228	F2161		24527
F1990		24636	F2024.81		24794.1	F2083		25232	F2162		24526
F1990.2		24640	F2024.82		24794.2	F2083.3		25234	F2163		24524
F1990.24		24644	F2025		24796.6	F2086		25236	F2164		24520
F1990.3		24648	F2025.1		24796.7	F2086.5		25238	F2165		24518.5
F1990.4		24652	F2025.4		24797	F2087		25237	F2166		24518
F1990.5		24656	F2025.41		24797.1	F2100		25208	F2167		24519
F1991		24664	F2025.6		24797.4	F2105		25212	F2168		24516
F1991.3		24668	F2025.61		24797.5	F2105.5		25216	F2169		24514.7
F1991.32		24672	F2025.7		24797.8	F2106		25217	F2169.25		24516.8
F1991.36		24676	F2025.8		24798	F2107		25224	F2169.5		24517
F1991.38		24680	F2025.9		24799	F2107.3		25210	F2170		24515
F1991.6		24684	F2027		24808	F2107.5		25222.7	F2171		24514

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F2172	.....	14513	F2236	.....	15152	F2286.5	.....	14506	F2357.4	.....	14676
F2173	.....	14494	F2237	.....	15150	F2287	.....	14504	F2357.6	.....	14680
F2174	.....	14496	F2238	.....	15148	F2287.2	.....	14499	F2357.7	.....	14681
F2176	.....	14497	F2239	.....	15151	F2287.4	.....	14498.5	F2358.2	.....	14686
F2179.2	.....	14497.2	F2239.3	.....	15147.5	F2287.5	.....	14498	F2358.5	.....	14686.2
F2180	.....	14497.4	F2240	.....	15146	F2287.7	.....	14478	F2359	.....	14686.7
F2189	.....	15246	F2242	.....	15144	F2287.75	.....	14477	F2359.5	.....	14716
F2190	.....	15248	F2243	.....	15145	F2288	.....	14500	F2359.7	.....	14717
F2191	.....	15252	F2243.5	.....	15142	F2292	.....	14624	F2359.82	.....	14718
F2192	.....	15236	F2244	.....	15140	F2292.5	.....	14598	F2359.85	.....	14774
F2192.5	.....	15236.5	F2245	.....	15138	F2293	.....	14622	F2360	.....	14816
F2194	.....	15244	F2245.5	.....	15017	F2293.5	.....	14623	F2362	.....	14752
F2196	.....	15232	F2246	.....	15136	F2293.8	.....	14623.5	F2363	.....	14760
F2200	.....	15240	F2246.4	.....	15135	F2293.85	.....	14623.55	F2364	.....	14768
F2204	.....	15228	F2247	.....	15134	F2294	.....	14648	F2366	.....	14772
F2206	.....	15224	F2247.2	.....	15134.4	F2296	.....	14652	F2367	.....	14783
F2207	.....	15215	F2247.5	.....	15130	F2297	.....	14665	F2368	.....	14784
F2207.5	.....	15214.7	F2247.6	.....	15131	F2298	.....	14660	F2368.1	.....	14788
F2207.8	.....	15214.8	F2248	.....	15132	F2300	.....	14664	F2369	.....	14793
F2208	.....	15214.5	F2250	.....	15128	F2301	.....	14626	F2370	.....	14792
F2209	.....	15214.3	F2252	.....	15126	F2302	.....	14628	F2371	.....	14791
F2210	.....	15214	F2252.5	.....	14935.7	F2303	.....	14629	F2374	.....	14884
F2214	.....	15216	F2252.7	.....	14933	F2304	.....	14632	F2374.5	.....	14866
F2216	.....	15220	F2253	.....	14935	F2305	.....	14636	F2375	.....	14880
F2218	.....	15200	F2253.5	.....	14935.5	F2306	.....	14640	F2376	.....	14852
F2219	.....	15212	F2253.8	.....	15125.5	F2306.5	.....	14641	F2378	.....	14863
F2220	.....	15204	F2253.9	.....	15124.5	F2307	.....	14642	F2378.4	.....	14864.3
F2221	.....	15222	F2254	.....	15124	F2308	.....	14644	F2378.6	.....	14864.4
F2222.5	.....	15198	F2256	.....	15120	F2310	.....	14656	F2378.7	.....	14864.8
F2224	.....	15196	F2258	.....	15116	F2314	.....	14668	F2378.8	.....	14864.9
F2224.2	.....	15197	F2261.4	.....	15108	F2316	.....	14688	F2380	.....	14868
F2224.5	.....	15195	F2261.5	.....	15110	F2318	.....	14687	F2382	.....	14872
F2224.7	.....	15194	F2261.7	.....	15112	F2319	.....	14694	F2383	.....	14885
F2225	.....	15192	F2261.9	.....	15104.3	F2319.5	.....	14695	F2383.5	.....	14875
F2225.2	.....	15191.7	F2262	.....	15104	F2320	.....	14692	F2384	.....	14876
F2225.3	.....	15191.5	F2263	.....	15106	F2326	.....	14700	F2384.3	.....	14876.5
F2225.5	.....	15190	F2263.5	.....	15105	F2326.2	.....	14696	F2384.4	.....	14877.3
F2226	.....	15188	F2264	.....	15100	F2327	.....	14702	F2384.6	.....	14877
F2226.1	.....	15189	F2264.3	.....	15101	F2328	.....	14708	F2385	.....	14877.8
F2226.2	.....	15187	F2264.5	.....	15099	F2329	.....	14706	F2385.3	.....	14878
F2226.7	.....	15162	F2264.8	.....	15098.5	F2330	.....	14877.7	F2385.7	.....	14877.6
F2226.8	.....	15161.5	F2265	.....	15098	F2332	.....	14720	F2386	.....	14856
F2227	.....	15181.8	F2265.5	.....	15097	F2334	.....	14724	F2387	.....	14860
F2227.2	.....	15182	F2266	.....	15092	F2335	.....	14724.3	F2387.5	.....	14862
F2228	.....	15184	F2266.5	.....	15093	F2336	.....	14725	F2387.57	.....	14878.6
F2228.3	.....	15185	F2267	.....	15094	F2336.5	.....	14727	F2387.58	.....	14878.8
F2228.5	.....	15185.5	F2267.5	.....	15095	F2336.8	.....	14727.5	F2387.6	.....	14879
F2228.6	.....	15181.7	F2268	.....	15088	F2337	.....	14728	F2387.7	.....	14861
F2228.7	.....	15181.5	F2269	.....	15081	F2338	.....	14512	F2388	.....	14848
F2228.9	.....	15181.3	F2270	.....	15082	F2339	.....	14512.1	F2390	.....	14846
F2229	.....	15181	F2270.1	.....	15084	F2340	.....	14528	F2393	.....	14845
F2230	.....	15168	F2274	.....	15080	F2344	.....	14796	F2398	.....	14845.4
F2231	.....	15172	F2275	.....	15070	F2344.5	.....	14781	F2399	.....	14832
F2231.2	.....	15176	F2275.5	.....	15069	F2345	.....	14730	F2400	.....	14828
F2231.3	.....	15178	F2276	.....	15068	F2346	.....	14732	F2401	.....	14826
F2231.4	.....	15180	F2278	.....	15066	F2347	.....	14736	F2402	.....	14824
F2231.7	.....	15165	F2280	.....	15064	F2348	.....	14780	F2404	.....	14820
F2232	.....	15160	F2280.4	.....	15060	F2350	.....	14776	F2405	.....	14819
F2233	.....	15160.1	F2281	.....	15056	F2350.5	.....	14775	F2406	.....	14800
F2234	.....	15164	F2281.3	.....	15051	F2352	.....	14764	F2408	.....	14804
F2234.5	.....	15166	F2281.6	.....	15050	F2354	.....	14744	F2410	.....	14808
F2235	.....	15163	F2281.8	.....	15051.8	F2356	.....	14740	F2412	.....	14812
F2235.3	.....	15161	F2282	.....	15052	F2356.4	.....	14748	F2412.5	.....	14810
F2235.5	.....	15167	F2284	.....	15048	F2356.6	.....	14750	F2413	.....	15040
F2235.7	.....	15167.3	F2286	.....	14508	F2357	.....	14684	F2415	.....	15039

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F2416	.....	14888	F2500	.....	14620	F2570	.....	14488	F2663	.....	14300
F2418	.....	14892	F2502	.....	14612	F2574	.....	14492	F2669	.....	14324
F2420	.....	14908	F2503	.....	14602	F2574.5	.....	14486	F2670	.....	14328
F2421	.....	14907	F2503.2	.....	14602.5	F2575	.....	14484	F2670.5	.....	14332
F2423.1	.....	14896	F2503.5	.....	14603	F2576	.....	14480	F2670.8	.....	14334
F2423.5	.....	14912	F2503.7	.....	14135.5	F2580	.....	14184	F2672.8	.....	14360
F2425	.....	14932.5	F2503.8	.....	14182	F2584	.....	14188	F2673	.....	14364
F2426	.....	14936	F2504	.....	14134	F2586	.....	14192	F2673.4	.....	14368
F2426.1	.....	14937	F2504.2	.....	14133	F2588	.....	14200	F2674	.....	14372
F2426.2	.....	14936.5	F2504.5	.....	14134.5	F2590	.....	14204	F2675	.....	14376
F2426.5	.....	15125	F2505	.....	14135	F2594	.....	14208	F2675.3	.....	14372.8
F2426.6	.....	14938.6	F2505.3	.....	14135.3	F2596	.....	14210	F2675.4	.....	14372.5
F2427	.....	14938	F2506	.....	14607	F2598	.....	14212	F2675.45	.....	14374
F2427.2	.....	14938.5	F2508	.....	14604	F2600	.....	14216	F2675.46	.....	14374.1
F2427.5	.....	14939	F2510	.....	14600	F2602	.....	14196	F2675.5	.....	14374.7
F2428	.....	14940	F2511	.....	14594	F2603	.....	14218	F2675.52	.....	14374.8
F2429	.....	14944	F2512	.....	14596	F2604	.....	14220	F2675.8	.....	14366
F2430	.....	14948	F2512.5	.....	14596.5	F2604.2	.....	14221	F2676	.....	14377
F2434	.....	14952	F2513	.....	14597	F2604.6	.....	14222	F2677	.....	14381
F2435	.....	14953	F2514	.....	14560	F2604.8	.....	14226	F2680	.....	14380
F2435.5	.....	14954	F2516	.....	14552	F2604.9	.....	14229	F2682	.....	14384
F2436	.....	14956	F2517	.....	14556	F2605	.....	14227	F2684	.....	14388
F2436.3	.....	14957	F2519	.....	14550	F2605.1	.....	14227.1	F2686	.....	14390
F2436.7	.....	14958.2	F2520	.....	14548	F2605.4	.....	14228	F2686.6	.....	14391
F2436.8	.....	14969	F2523	.....	14578	F2606.6	.....	14232	F2688	.....	14392
F2437	.....	14964	F2524	.....	14580	F2607	.....	14224	F2689	.....	14397
F2438	.....	14960	F2525	.....	14582	F2607.5	.....	14234	F2690	.....	14396
F2440	.....	14976	F2526	.....	14584	F2608	.....	14236	F2690.5	.....	14396.2
F2442	.....	14968	F2527	.....	14588	F2610	.....	14240	F2691	.....	14398
F2442.2	.....	14971	F2527.6	.....	14592	F2614	.....	14244	F2692	.....	14399
F2442.5	.....	14970	F2527.7	.....	14593	F2615	.....	14261	F2694	.....	14400
F2443	.....	14972	F2527.8	.....	14564	F2616	.....	14248	F2696	.....	14405
F2444	.....	14980	F2528	.....	14576	F2618	.....	14252	F2697	.....	14406
F2446	.....	14996	F2528.5	.....	14566	F2620	.....	14256	F2698	.....	14408
F2447	.....	14997	F2529	.....	14568	F2624	.....	14260	F2702	.....	14412
F2448	.....	15004	F2530	.....	14572	F2626	.....	14262	F2702.1	.....	14416
F2448.3	.....	15005.5	F2531	.....	14474	F2630	.....	14268	F2705	.....	14424
F2448.5	.....	15005	F2532	.....	14473	F2631	.....	14270	F2708	.....	14428
F2449	.....	15006	F2533	.....	14475	F2632	.....	14264	F2712	.....	14432
F2450	.....	15012	F2534	.....	14180	F2634	.....	14272	F2713	.....	14434
F2452	.....	15008	F2535	.....	14170	F2634.5	.....	14274	F2714	.....	14436
F2452.5	.....	15014	F2535.5	.....	14169	F2635	.....	14276	F2715	.....	14438
F2453	.....	15016	F2536	.....	14164	F2635.5	.....	14280	F2716	.....	14440
F2454	.....	15020	F2538	.....	14168	F2636	.....	14344	F2718	.....	14442
F2454.7	.....	14932	F2540	.....	14176	F2639	.....	14352	F2720	.....	13996
F2455	.....	14928	F2544	.....	14172	F2639.1	.....	14356	F2722	.....	14000
F2456	.....	14924	F2546	.....	14160	F2640	.....	14340	F2723	.....	14002
F2457	.....	14916	F2547	.....	14150	F2642.4	.....	14335	F2724	.....	14004
F2458	.....	14920	F2549.3	.....	14475.4	F2642.6	.....	14334.8	F2728	.....	14008
F2462	.....	15024	F2549.5	.....	14472.5	F2643	.....	14284	F2728.5	.....	14009
F2464	.....	15028	F2550	.....	14472	F2644	.....	14282	F2729	.....	14012
F2465	.....	15022	F2551	.....	14470	F2645	.....	14286	F2730	.....	14016
F2466	.....	15036	F2552	.....	14476	F2645.5	.....	14287	F2730.5	.....	14014
F2468	.....	15034	F2553	.....	14469	F2645.8	.....	14287.3	F2732	.....	14020
F2470	.....	15032	F2554	.....	14468	F2645.9	.....	14286.2	F2735	.....	14007
F2472	.....	15044	F2554.5	.....	14467	F2647	.....	14288	F2737	.....	14006
F2473	.....	15037	F2555	.....	14462	F2647.2	.....	14288.1	F2742	.....	14024
F2474	.....	14988	F2556	.....	14466	F2648	.....	14292	F2743	.....	14024.6
F2480	.....	15000	F2558	.....	14464	F2650	.....	14304	F2746	.....	14028
F2482	.....	14992	F2560	.....	14452	F2653	.....	14320	F2746.1	.....	14032
F2484	.....	14984	F2562	.....	14456	F2653.5	.....	14321	F2747	.....	14036
F2488	.....	14148	F2564	.....	14460	F2654	.....	14316	F2747.5	.....	14026
F2492	.....	14152	F2566	.....	14465	F2660	.....	14308	F2747.6	.....	14025
F2494	.....	14156	F2568	.....	14448	F2660.2	.....	14312	F2747.65	.....	14036.4
F2498	.....	14616	F2569	.....	14450	F2662	.....	14296	F2747.67	.....	14036.5

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F2747.7		14037	F2825.16		20290.11	F2863.1		21041.5	F2915.4		20828
F2747.8		14038	F2825.17		20289.8	F2865.1		21042.1	F2916		20836
F2747.9		14040.5	F2825.18		20290.8	F2867		21028	F2916.3		20840
F2748		14040	F2825.19		20290.6	F2869		21020	F2916.5		20840.1
F2748.5		14040.7	F2825.192		20291.4	F2869.07		21022	F2917		20844
F2749		14044	F2825.193		20291.6	F2869.15		21016	F2917.3		20844.1
F2749.2		14044.5	F2825.194		20291.2	F2869.27		21011	F2918		20848
F2749.5		14045	F2825.195		20291	F2869.29		21015	F2920		20808
F2750		14056	F2825.196		20290.4	F2869.3		21012	F2922		20800
F2754		14064	F2825.197		20290.2	F2869.4		21008	F2923		20804
F2755		14063	F2825.2		24376	F2869.5		21006	F2924		20796
F2756		14068	F2825.3		24380	F2869.7		21003	F2924.2		20797
F2756.5		14070	F2825.4		24384	F2869.8		21002	F2924.3		20797.1
F2757		14060	F2826		21172	F2870		21004	F2928		20792
F2758		14072	F2827		21173	F2873		21005	F2930		20788
F2759		14074	F2830		21169	F2876		21000	F2932		20784
F2760		14076	F2831		21169.5	F2877		20998	F2932.4		20780
F2762		14080	F2832		21168	F2878		20992	F2932.7		20776
F2764		14052	F2832.5		21167.5	F2878.5		20996	F2933		20772
F2766		14048	F2833		21156	F2880		20968	F2934		20768
F2767		14050	F2833.4		21160	F2880.8		20969	F2934.5		20767
F2769		14051	F2834		21152	F2880.9		20969.1	F2935		20764
F2772		14084	F2835		21167	F2881		20974	F2936		20765
F2774		14088	F2835.3		21166	F2884		20964	F2936.5		20766
F2775		14089	F2835.5		21165	F2885		20960	F2937		20760
F2775.5		14090	F2836		21164	F2885.03		20959	F2939		20700
F2776		14092.3	F2836.1		21150	F2885.05		20957	F2941		20704
F2778		14092	F2836.3		21148	F2885.1		20956	F2941.1		20708
F2778.5		14093	F2836.7		21138	F2885.15		20958	F2942		20724
F2779		14095	F2836.8		21136	F2885.16		20954	F2942.1		20728
F2780		14116	F2836.9		21134	F2885.17		20955	F2943		20712
F2782		14114	F2837		21140	F2885.5		20948	F2943.1		20716
F2784		14096	F2837.2		21144	F2885.6		20942	F2943.5		20701
F2786		14100	F2838		21130	F2885.65		20941	F2943.51		20702
F2788		14104	F2840		21124	F2885.7		20940	F2944		20720
F2789		14106	F2842		21122	F2887		20937.5	F2945		20732
F2790		14108	F2845		21088	F2887.1		20937	F2945.1		20736
F2794		14112	F2846.9		21087	F2888		20936	F2948		20740
F2798		14120	F2847		21076	F2888.5		20935	F2948.2		20744
F2798.5		14122	F2848		21080	F2889		20934	F2948.4		20748
F2800		14129	F2848.1		21084	F2890		20932	F2948.6		20752
F2802		14124	F2857		21052	F2891		20930	F2948.8		20756
F2802.1		14128	F2857.5		21062.4	F2893		20926	F2948.92		20757
F2808		14136	F2858		21056	F2893.5		20922	F2953		20690
F2809		14138	F2858.1		21060	F2894		20920	F2954		20672
F2809.5		14130	F2858.2		21068	F2895		20876	F2958		20668
F2810		14132	F2858.3		21064	F2895.4		20878	F2958.8		20666.7
F2813		14129.4	F2858.35		21068.4	F2895.5		20877	F2959		20666
F2814		14140	F2858.5		21068.6	F2898		20912	F2959.4		20666.5
F2818		14144	F2858.6		21069.6	F2900		20896	F2959.8		20666.71
F2818.4		14145	F2859		21034	F2904		20880	F2960		20664
F2818.8		14146	F2859.1		21034.1	F2905		20884	F2962		20660
F2819		13985	F2860		21034.2	F2905.1		20888	F2963		20661
F2819.5		13991.5	F2860.05		21034.15	F2906		20892	F2963.2		20661.1
F2820		13991	F2860.1		21034.16	F2906.4		20894	F2963.4		20662
F2822		13988	F2860.15		21034.17	F2907		20872	F2963.5		20662.1
F2822.5		13990	F2860.2		21034.3	F2908		20860	F2963.7		20662.3
F2823		13992	F2860.6		21035	F2909		20868	F2963.73		20662.5
F2823.2		20289.7	F2860.7		21036	F2910		20856	F2963.75		20662.51
F2823.21		20290.12	F2860.71		21040	F2912		20852	F2963.86		20662.25
F2824		20289.6	F2860.76		21040.2	F2914		20832	F2963.88		20662.26
F2824.5		20289.2	F2860.8		21040.4	F2914.8		20824	F2963.9		20662.4
F2825		20289	F2860.9		21040.6	F2915		20820	F2963.91		20662.41
F2825.1		20290	F2862		21032	F2915.2		20816	F2964		20652
F2825.15		20290.1	F2863		21041	F2915.3		20812	F2966		20656

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F2968		20648	F3076		20432	F3282		20266	K3422.5		26214
F2970		20644	F3078		20436	F3296		20224	K3423		26216
F2973		20640	F3078.1		20440	F3306		20214	K3424		26220
F2973.5		20616	F3082		20444	F3306.5		20215.5	K3424.1		26224
F2974		20634	F3083		20446	F3307		20214.1	K3426		26228
F2975		20628	F3084		20448	F3309		20214.2	K3428		26232
F2975.1		20632	F3084.1		20452	F3310		20214.3	K3429		26244
F2975.3		20624	F3116		20412	F3312		20214.4	K3429.4		26252
F2975.4		20620	F3118		20408	F3312.1		20214.5	K3429.6		26248
F2976		20608	F3120		20406	F3313		20214.6	K3429.8		26256
F2982		20612	F3122		20404	F3313.1		20214.7	K3430		26236
F2984		20604	F3134		20384	F3314		20214.8	K3430.1		26240
F2985		20603.5	F3137		20392	F3314.1		20214.9	K3432		26260
F2986.1		20601	F3137.2		20396	F3314.8		20213.8	K3436		26416
F2986.11		20601.1	F3137.4		20397	F3315		20216.5	K3437		26420
F2986.5		20602	F3137.8		20400	F3427.01		19644.1	K3438		26264
F2986.7		20602.5	F3138		20388	F3523.32		19565	K3440		26288
F2987.5		20599	F3138.9		20386.1	F3578.48		19291	K3444		26292
F2987.6		20597	F3139		20386	F3715.2		18930	K3446		26268
F2987.61		20597.1	F3139.1		20386.2	F3754.619		18825.03	K3448		26296
F2988		20600	F3148		20372	F3785.55		18859	K3449		26272
F2990		20596	F3150		20376	F3932.35		18497	K3450		26276
F2990.1		20596.5	F3154		20368	F3971.9		18348	K3450.3		26280
F2990.2		20595	F3158		20364	F4066.5		18211	K3450.44		26282
F2990.3		20595.5	F3162		20332	F4665.5		13962.8	K3450.46		26283
F2992		20584	F3176		20324	F4672.4		13612	K3450.5		26284
F2994		20592	F3178		20323	F9307		28122	K3451		26312
F2996		20580	F3180		20321.2	F9516.31		24135.5	K3451.23		26308
F2998		20576	F3181		20321	F9516.4		24152	K3451.24		26304
F3000		20572	F3184		20320	F9526.3		24141	K3451.4		26336
F3001		20570	F3184.2		20320.2	F9527.3		24252	K3452		26332
F3002		20568	F3200		20319	F9527.48		24249	K3453		26328
F3003		20567	F3202		20317	F9527.5		24372	K3454		26340
F3003.5		20567.5	F3203		20316.5	F9531		20966	K3455		26324
F3004		20560	F3203.2		20318	F9532		20965	K3456		26316
F3005		20560.5	F3203.3		20318.1	F9534		20291.3	K3456.5		26320
F3006		20564	F3204		20292	F9536.55		24375	K3456.7		26344
F3006.5		20564.5	F3206		20296	F9537.5		24460	K3457		26348
F3007		20564.6	F3209		20312	F9537.67		24461	K3458		26352
F3008		20556	F3211		20316	F9537.675		24461.5	K3459		26360
F3010		20552	F3211.5		20279.5	F9538.2		24528	K3459.1		26364
F3012		20548	F3212		20279	G7110		15288	K3460.2		26381
F3014		20532	F3213		20278	K3400		26130	K3460.205		26381.2
F3015		20536	F3216		20277	K3400.15		26132	K3460.21		26381.4
F3016		20540	F3218		20276.92	K3400.18		26134	K3460.211		26381.6
F3017		20544	F3218.2		20276.9	K3400.2		26136	K3460.3		26382
F3021		20496	F3218.25		20276.8	K3400.4		26140	K3461		26368
F3022		20516	F3218.5		20276.5	K3400.6		26142	K3461.2		26372
F3025		20518	F3219.2		20276.3	K3400.7		26142.1	K3463.4		26388
F3028		20520	F3219.3		20276.2	K3401		26144	K3463.8		26392
F3030		20512	F3219.5		20276.1	K3401.4		26152	K3464		26384
F3032		20504	F3220		20276	K3401.6		26156	K3464.4		26396
F3032.1		20508	F3224		20275	K3401.8		26160	K3465		26400
F3036		20500	F3225		20274	K3402		26172	K3469		26408
F3039		20494	F3228		20272.9	K3403		26164	K3469.7		26404
F3039.5		20494.5	F3229		20272.8	K3403.1		26168	K3470		26411
F3040		20493	F3230		20273	K3403.2		26170	M4100		18176
F3042		20492	F3232		20216	K3403.4		26169	M4104		18160
F3046		20476	F3233		20272.5	K3403.41		26169.5	M4105		18164
F3048		20480	F3234		20272	K3404		26176	M4106		18166
F3048.1		20484	F3235		20270	K3405.4		26184	M4107		18168
F3049.5		20486	F3236		20268	K3406		26188	M4112		18156
F3060		20472	F3267		20265.1	K3408		26192	M4112.5		18149
F3066		20416	F3268		20265	K3415		26212	M4113		18152
F3070		20428	F3269		20265.5	K3422		26213.1	M4116		18112

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M4116.5	.....	18118.5	M4156.97	.....	17867.1	M4164.25	.....	17949	M4184	.....	17844
M4117	.....	18119	M4157	.....	17896	M4164.3	.....	17953	M4184.45	.....	17827.15
M4117.5	.....	18118	M4158	.....	17932	M4164.4	.....	17938.5	M4184.5	.....	17839.8
M4118	.....	18116	M4158.2	.....	17940	M4164.5	.....	17956.5	M4185	.....	17848
M4119	.....	18120	M4158.3	.....	17936	M4165	.....	17954	M4185.08	.....	17827
M4120	.....	18124	M4158.4	.....	17936.3	M4166	.....	17956	M4185.1	.....	17827.5
M4122	.....	18128	M4158.47	.....	17936.5	M4167	.....	17960	M4185.105	.....	17827.1
M4126	.....	18132	M4158.57	.....	17897.5	M4167.3	.....	17961	M4185.12	.....	17839
M4128	.....	18136	M4158.59	.....	17898	M4167.4	.....	17960.1	M4185.15	.....	17839.2
M4132	.....	18148	M4158.598	.....	17897	M4168	.....	18056	M4185.4	.....	17839.5
M4135.8	.....	18103	M4158.601	.....	17899	M4168.5	.....	18052	M4185.41	.....	17839.6
M4135.85	.....	18103.1	M4158.602	.....	17900.5	M4169	.....	18064	M4185.6	.....	17827.7
M4136	.....	18104	M4158.641	.....	17901	M4169.5	.....	18068	M4185.8	.....	17827.8
M4137.2	.....	18087	M4158.645	.....	17903	M4169.7	.....	18069	M4186	.....	17836
M4137.4	.....	18088	M4158.648	.....	17904	M4170	.....	18060	M4186.2	.....	17838
M4138	.....	18093	M4158.65	.....	17905	M4170.2	.....	18063	M4187	.....	17832
M4140	.....	18096	M4158.662	.....	17906	M4170.4	.....	18062	M4187.3	.....	17826
M4145	.....	18080	M4158.664	.....	17906.1	M4170.43	.....	17957	M4187.4	.....	17825.9
M4145.5	.....	18083	M4158.7	.....	17910.6	M4170.44	.....	17957.1	M4187.52	.....	17809
M4146	.....	18076	M4158.71	.....	17910.7	M4170.45	.....	17957.5	M4187.53	.....	17810
M4146.5	.....	18077	M4158.73	.....	17911	M4170.5	.....	17957.4	M4188	.....	17816
M4146.58	.....	18035	M4158.74	.....	17911.1	M4170.53	.....	17957.6	M4188.3	.....	17817
M4148	.....	18040	M4158.77	.....	17911.4	M4170.56	.....	17957.7	M4188.5	.....	17818
M4149	.....	18048	M4158.78	.....	17911.45	M4170.6	.....	17957.2	M4188.7	.....	17817.2
M4149.1	.....	18051	M4158.79	.....	17911.5	M4170.64	.....	17961.1	M4189	.....	17824
M4149.15	.....	18049.2	M4158.795	.....	17911.6	M4170.65	.....	17961.15	M4189.3	.....	17825.5
M4149.2	.....	18049	M4158.8	.....	17912	M4170.66	.....	17961.2	M4189.31	.....	17825.7
M4149.25	.....	18049.1	M4158.81	.....	17911.9	M4170.9	.....	17962.7	M4189.5	.....	17820
M4149.3	.....	17895	M4158.83	.....	17911.7	M4170.92	.....	17962	M4189.55	.....	17821
M4149.4	.....	18050	M4158.86	.....	17912.5	M4170.94	.....	17962.5	M4189.6	.....	17825
M4150	.....	17920	M4158.865	.....	17912.65	M4171	.....	17963	M4189.63	.....	17831
M4151	.....	17856.5	M4158.87	.....	17912.6	M4171.2	.....	17963.5	M4189.7	.....	17828
M4152	.....	17856	M4158.9	.....	17912.3	M4172.1	.....	17964.5	M4189.735	.....	17831.5
M4153	.....	17854	M4158.91	.....	17912.4	M4172.15	.....	17965	M4189.74	.....	17829
M4153.3	.....	17853.5	M4158.92	.....	17912.1	M4172.153	.....	17962.95	M4189.8	.....	17830
M4154	.....	17840	M4158.93	.....	17912.2	M4172.155	.....	17962.96	M4189.9	.....	17803
M4154.2	.....	17841	M4158.95	.....	17913	M4172.16	.....	17962.8	M4190	.....	17804
M4154.22	.....	17849	M4158.96	.....	17912.8	M4172.18	.....	17962.9	M4190.5	.....	17808
M4154.25	.....	17840.8	M4158.963	.....	17912.7	M4173.3	.....	17965.5	M4190.6	.....	17806
M4154.3	.....	17850	M4158.965	.....	17913.1	M4173.35	.....	17966	M4190.715	.....	17756.5
M4154.4	.....	17851	M4158.97	.....	17913.5	M4173.36	.....	17966.5	M4190.73	.....	17760.8
M4154.5	.....	17852	M4158.975	.....	17914	M4173.4	.....	17967	M4190.75	.....	17760.6
M4154.69	.....	17853	M4159	.....	17928	M4173.5	.....	17967.5	M4190.78	.....	17760.4
M4154.7	.....	17860	M4159.5	.....	17927	M4173.52	.....	17968	M4191	.....	17760
M4155	.....	17892	M4159.8	.....	17929.5	M4173.6	.....	17968.5	M4192	.....	17756
M4155.1	.....	17858	M4160	.....	17926	M4173.8	.....	17969	M4192.51	.....	17756.7
M4155.4	.....	17924	M4161	.....	17937	M4174	.....	17971.5	M4192.52	.....	17756.6
M4155.6	.....	18044	M4162	.....	17938.2	M4174.5	.....	17970	M4193.2	.....	17758.1
M4156	.....	17864	M4162.62	.....	17938	M4175	.....	17969.5	M4193.3	.....	17757
M4156.3	.....	17868	M4162.621	.....	17938.05	M4175.2	.....	17970.5	M4193.35	.....	17757.1
M4156.33	.....	17862	M4162.72	.....	17938.3	M4175.4	.....	17971	M4193.38	.....	17758.5
M4156.35	.....	17863	M4162.75	.....	17938.35	M4176	.....	17972	M4193.6	.....	17761
M4156.38	.....	17863.5	M4162.76	.....	17938.4	M4176.3	.....	17973	M4193.63	.....	17762
M4156.4	.....	17864.6	M4162.77	.....	17931	M4176.4	.....	17974	M4193.8	.....	17775
M4156.45	.....	17864.5	M4162.78	.....	17931.5	M4176.41	.....	17975	M4194	.....	17774.5
M4156.48	.....	17893.5	M4162.79	.....	17930	M4176.5	.....	17976	M4195	.....	17774
M4156.5	.....	17894	M4162.82	.....	17929	M4176.7	.....	17980	M4196	.....	17772
M4156.6	.....	17865	M4163	.....	17934	M4177	.....	17983	M4196.5	.....	17776
M4156.65	.....	17865.1	M4163.5	.....	18063.5	M4178	.....	17984	M4197	.....	17780
M4156.66	.....	17865.8	M4163.7	.....	18063.7	M4178.4	.....	17988	M4198	.....	17788
M4156.661	.....	17865.9	M4164	.....	17944	M4178.5	.....	17989	M4198.5	.....	17789
M4156.7	.....	17866	M4164.05	.....	17939.2	M4178.6	.....	17990	M4198.7	.....	17789.5
M4156.75	.....	17866.1	M4164.18	.....	17939.4	M4179	.....	17996	M4198.8	.....	17790
M4156.9	.....	17867	M4164.185	.....	17939.3	M4179.2	.....	17992	M4198.9	.....	17791
M4156.912	.....	17866.2	M4164.19	.....	17939.1	M4180	.....	18033	M4198.91	.....	17789.7

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M4198.92		17789.6	M4216.8		17643.5	M4233		17583	M4263		17512
M4199		17792	M4216.9		17621	M4234		17592	M4263.5		17518
M4201		17795	M4217		17624	M4234.6		17593	M4263.7		17519
M4202		17796	M4217.2		17622	M4234.8		17594	M4263.9		17519.5
M4204		17800	M4217.38		17623	M4235	17586, 17614		M4263.92		17519.6
M4205.5		17751	M4217.45		17627.4	M4236		17596	M4264		17520
M4206		17748	M4217.455		17627.3	M4236.5		17595	M4265.2		17528
M4206.1		17749	M4217.47		17627.5	M4237		17612	M4265.3		17528.5
M4206.15		17749.5	M4217.471		17627.51	M4238		17608	M4265.4		17528.6
M4206.3		17752	M4217.48		17627.6	M4240		17598	M4265.43		17528.62
M4206.32		17753	M4217.5	17627, 17642		M4241		17600	M4265.45		17528.65
M4206.33		17753.1	M4217.6		17626	M4242		17604	M4265.5		17528.7
M4206.35		17754	M4217.7		17625	M4242.6		17549	M4265.55		17528.8
M4206.4		17812	M4217.74		17626.7	M4243		17548	M4265.6		17392.9
M4206.6		17744	M4217.79		17627.8	M4246		17556	M4265.65		17374
M4206.7		17727	M4217.8		17627.7	M4246.5		17558	M4265.8		17393.5
M4206.83		17733	M4218		17628	M4246.505		17546	M4265.9		17391
M4206.85		17746.5	M4218.1		17628.5	M4246.51		17559	M4266		17376
M4206.89		17728	M4218.13		17628.7	M4246.52		17559.5	M4266.5		17380
M4206.9		17729	M4218.15		17628.8	M4246.55		17581.8	M4267		17381
M4206.95		17727.5	M4218.2		17629	M4246.6		17581	M4267.5		17382
M4206.955		17727.6	M4218.25		17629.5	M4246.65		17581.5	M4269		17396
M4207		17726	M4218.3		17630	M4246.8		17557	M4269.25		17396.3
M4207.2		17726.5	M4218.35		17630.5	M4247		17560	M4269.26		17396.4
M4207.3		17731	M4219		17617	M4247.5		17552	M4269.28		17396.8
M4207.4		17732	M4219.5		17615	M4247.6		17551.8	M4269.29		17396.9
M4207.5		17736	M4219.8		17327	M4247.7		17554	M4269.3		17397
M4207.55		17736.5	M4220		17616	M4247.8		17581.7	M4269.35		17396.91
M4207.6		17738	M4220.5		17616.5	M4247.81		17585	M4269.4		17401
M4207.65		17737	M4222		17696	M4248		17576	M4269.5		17400
M4208		17720	M4222.1		17679	M4248.5		17577	M4269.6		17401.5
M4208.2		17718	M4222.2		17697	M4249		17564	M4269.8		17402
M4208.21		17718.5	M4222.5		17678	M4249.2		17568	M4269.9		17402.1
M4209		17716	M4223		17684	M4249.4		17572	M4270		17404
M4209.2		17721	M4223.3		17682	M4249.6		17561	M4270.1		17407
M4209.4		17722	M4223.4		17683	M4249.7		17563	M4270.15		17407.5
M4209.6		17713.5	M4223.5		17688	M4249.8		17562	M4270.2		17408
M4210		17712	M4223.8		17694	M4250		17580	M4271		17412
M4210.3		17714	M4223.9		17695	M4252		17481	M4271.5		17414
M4210.5		17713	M4224		17680	M4254		17480	M4272		17420
M4210.8		17643.1	M4225		17676	M4254.2		17482	M4272.2		17416
M4211		17644	M4225.5		17692	M4254.3		17483	M4272.25		17429
M4211.2		17644.2	M4226		17700	M4254.35		17483.5	M4272.3		17424
M4211.5		17666	M4227		17708	M4254.355		17484.1	M4272.35		17434
M4212		17672	M4227.2		17709	M4254.4		17488	M4272.36		17435
M4212.5		17668	M4227.4		17710	M4254.6		17484	M4272.42		17432
M4212.55		17668.1	M4228		17704	M4254.8		17490	M4272.46		17437
M4212.7		17669	M4228.5		17588	M4254.9		17489	M4272.5		17436
M4212.8		17670	M4228.6		17587	M4255		17496	M4272.52		17438
M4213		17652	M4228.8		17646	M4255.15		17496.5	M4272.54		17440
M4213.5		17660	M4229		17648	M4255.25		17497	M4272.55		17441
M4213.8		17661	M4229.1		17649	M4255.35		17498	M4272.552		17441.1
M4214		17664	M4229.5		17645	M4255.4		17503	M4272.57		17448
M4214.3		17664.1	M4229.8		17644.5	M4255.5		17502	M4272.6		17444
M4214.4		17664.5	M4230		17643	M4256		17500	M4272.7		17452
M4214.5		17665	M4230.2		17642.5	M4256.15		17500.7	M4272.71		17452.5
M4214.7		17665.5	M4230.8		17650	M4256.2		17500.5	M4272.73		17453
M4215		17620	M4231		17656	M4256.3		17500.6	M4272.75		17454
M4215.5		17632	M4231.2		17553	M4256.4		17501.1	M4272.78		17454.5
M4215.7		17633	M4231.3		17657.1	M4256.5		17501	M4272.8		17456
M4215.8		17634	M4231.4		17657	M4257		17508	M4272.95		17455.5
M4216		17636	M4231.5		17658	M4258		17504	M4272.955		17456.2
M4216.1		17638	M4231.6		17589	M4259		17505	M4272.958		17456.1
M4216.2		17641	M4232		17584	M4259.5		17501.2	M4272.97		17457
M4216.5		17640	M4232.6		17582	M4262		17516	M4273		17468

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M4274.505		17467	M4292		17248	M4305.44		17218.3	M4311.4		17060
M4274.52		17472	M4292.5		17245.5	M4305.45		17218.1	M4311.6		17048
M4274.55		17476.1	M4292.51		17245	M4305.5		17218	M4311.65		17050
M4274.58		17477	M4292.6		17247	M4305.6		17222	M4311.7		17051
M4274.6		17478	M4293		17246	M4306		17216	M4311.73		17058.1
M4274.65		17372	M4293.5		17243	M4307		17224	M4311.75		17051.5
M4274.7		17368	M4294		17260	M4307.05		17226	M4311.78		17047
M4274.8		17366	M4294.3		17260.5	M4307.1		17154	M4311.8		17046
M4274.85		17366.5	M4294.5		17240	M4307.25		17153	M4314		17044
M4275		17360	M4295		17236	M4307.27		17073.1	M4315		17040
M4276		17348	M4295.2		17236.1	M4307.28		17073	M4317		16972
M4277		17352	M4295.3		17234	M4307.3		17068	M4317.5		16974
M4277.5		17356	M4295.4		17234.1	M4307.4		17069	M4317.7		16975
M4277.6		17357	M4295.5		17290, 17291.3	M4307.45		17069.1	M4317.9		16974.6
M4277.8		17344	M4295.7		17291	M4307.5		17072	M4318		16976
M4277.9		17364	M4295.82		17291.35	M4307.7		17074	M4318.2		16974.2
M4278		17532	M4296		17292	M4307.75		17074.5	M4318.4		16974.4
M4278.15		17531	M4296.5		17293	M4307.8		17075	M4318.5		16977
M4278.16		17320.5	M4296.7		17292.5	M4308		17064	M4319		17000
M4278.17		17321	M4296.8		17233	M4308.05		17066	M4319.2		16984, 16999
M4278.2		17530	M4297		17228	M4308.15		17063	M4319.5		16978
M4278.3		17529	M4297.2		17229.2	M4308.2		17080	M4320.2		16986
M4278.4		17544	M4297.25		17229.5	M4308.3		17084	M4320.3		16981
M4278.8		17535	M4297.3		17229.4	M4308.35		17088	M4320.35		16981.5
M4279		17536	M4297.4		17230	M4308.4		17156	M4320.4		16983.3
M4279.3		17540	M4297.5		17301.6	M4308.45		17161	M4320.42		16983
M4279.35		17534	M4297.55		17301.55	M4308.5		17160	M4320.45		16968
M4279.36		17533.5	M4297.65		17300.8	M4308.55		17165	M4320.6		16988
M4279.37		17531.5	M4297.8		17294	M4308.58		17166	M4320.61		16992
M4279.4		17320	M4298.5		17272.5	M4308.6		17212	M4320.8		16995
M4279.5		17324	M4298.55		17230.2	M4308.72		17148	M4321		16964
M4279.6		17301.5, 17325	M4298.6		17230.5	M4308.74		17152	M4321.08		16965
M4279.7		17326	M4298.65		17230.51	M4308.75		17211	M4321.12		16966
M4279.88		17327.4	M4298.66		17230.52	M4308.8		17100	M4321.13		17001
M4280		17332	M4298.9		17295	M4308.9		17092	M4321.2		17004
M4280.5		17328	M4299.2		17298	M4308.94		17096	M4321.4		17020
M4280.7		17321.5	M4299.3		17298.1	M4308.97		17100.5	M4321.45		17012
M4280.75		17305.1	M4299.4		17299	M4308.98		17101	M4321.47		17013
M4280.8		17305	M4299.6		17298.5	M4309		17104	M4321.495		17008.1
M4281		17304	M4299.61		17299.1	M4309.4		17108	M4321.5		17008
M4281.2		17312	M4299.68		17300.5	M4309.8		17120	M4321.52		17008.5
M4281.4		17308	M4299.72		17227	M4310		17116	M4321.55		16962
M4281.5		17310	M4299.75		17273	M4310.2		17112	M4321.58		17010
M4281.55		17302.5	M4299.8		17274	M4310.3		17126	M4321.59		17010.5
M4281.58		17302.1	M4300		17280	M4310.52		17135	M4321.6		17036
M4281.6		17302	M4300.2		17280.4	M4310.54		17140	M4321.8		16963
M4281.65		17303	M4300.3		17282	M4310.57		17136	M4321.83		16963.5
M4281.7		17301	M4300.35		17280.5	M4310.58		17134	M4322		17032
M4281.8		17306	M4300.4		17232	M4310.6		17124	M4322.2		17024
M4281.9		17307	M4300.5		17262	M4310.63		17123	M4322.3		17028
M4282		17340	M4300.55		17261	M4310.65		17173	M4322.35		17090
M4283		17341	M4300.6		17264	M4310.66		17173.5	M4322.4		16960
M4283.4		17336	M4301		17284	M4310.7		17144	M4322.42		16961
M4283.6		17338	M4302		17268	M4310.72		17170	M4322.5		16954
M4283.7		17309	M4302.5		17231.1	M4310.74		17171	M4322.55		16958
M4283.8		17398	M4303		17231	M4310.82		17200.8	M4322.6		16956
M4284		17316	M4304		17272	M4310.86		17174	M4322.62		16956.3
M4285.1		17316.5	M4305		17220	M4310.88		17174.5	M4322.65		16956.5
M4286		17244	M4305.2		17221	M4310.9		17188	M4322.7		16868
M4286.25		17249	M4305.25		17221.2	M4310.91		17192	M4322.72		16894
M4286.5		17251	M4305.3		17221.1	M4310.94		17196	M4322.75		16893
M4287		17252	M4305.36		17219.1	M4310.95		17200	M4322.8		16888
M4290.2		17250	M4305.38		17219.2	M4310.96		17200.2	M4322.82		16886.5
M4290.25		17249.5	M4305.4		17219	M4310.97		17200.5	M4322.85		16886
			M4305.43		17218.2	M4311		17056	M4322.87		16887

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M4322.875	.....	16887.1	M4340.8	.....	16824	M4353.2	.....	16772.1	M4374.7	.....	16724.8
M4322.9	.....	16884	M4340.85	.....	16823	M4353.5	.....	16772	M4374.8	.....	16725.8
M4322.95	.....	17016	M4340.9	.....	16830	M4353.7	.....	16775.5	M4374.81	.....	16725.9
M4323	.....	16952	M4340.92	.....	16830.1	M4353.87	.....	16780.9	M4375.52	.....	16724.22
M4323.055	.....	16953	M4340.97	.....	16930	M4353.965	.....	16773	M4375.53	.....	16724.21
M4323.1	.....	16942	M4340.973	.....	16929.9	M4354	.....	16768	M4375.56	.....	16726.6
M4323.6	.....	16920	M4340.974	.....	16821.5	M4354.5	.....	16770	M4375.57	.....	16726.7
M4323.8	.....	16924	M4340.975	.....	16931	M4354.53	.....	16771.6	M4375.6	.....	16724
M4324	.....	16892	M4340.977	.....	16931.1	M4354.54	.....	16771.7	M4375.7	.....	16723.5
M4325	.....	16908	M4340.978	.....	16820.9	M4354.55	.....	16771.8	M4375.71	.....	16723.51
M4325.1	.....	16882	M4340.979	.....	16820.93	M4354.6	.....	16768.5	M4375.9	.....	16721
M4325.4	.....	16911	M4340.98	.....	16821	M4354.7	.....	16769	M4375.95	.....	16722.5
M4325.5	.....	16915.7	M4340.983	.....	16821.03	M4354.8	.....	16771	M4375.98	.....	16723
M4325.55	.....	16915.5	M4340.984	.....	16821.2	M4354.9	.....	16771.5	M4376	.....	16720
M4325.7	.....	16914	M4340.99	.....	16821.1	M4354.92	.....	16763	M4376.3	.....	16719
M4325.8	.....	16915	M4341	.....	16828	M4354.921	.....	16763.5	M4376.4	.....	16718.6
M4325.85	.....	16918.5	M4341.4	.....	16832	M4354.95	.....	16768.4	M4376.6	.....	16718.5
M4325.9	.....	16918	M4342	.....	16819	M4354.951	.....	16768.3	M4377.1	.....	16718
M4326	.....	16912	M4342.4	.....	16818	M4355	.....	16764	M4377.53	.....	16716.1
M4326.3	.....	16929	M4342.5	.....	16817.3	M4355.1	.....	16765	M4377.6	.....	16714
M4326.5	.....	16916	M4342.51	.....	16817.4	M4355.4	.....	16760	M4377.7	.....	16716.2
M4326.55	.....	16919	M4342.52	.....	16817.5	M4355.5	.....	16760.5	M4377.9	.....	16713
M4327	.....	16928	M4342.53	.....	16817.2	M4355.55	.....	16759.51	M4378	.....	16712
M4328	.....	16936	M4342.54	.....	16817.1	M4355.56	.....	16759.5	M4378.03	.....	16711.95
M4329	.....	16932	M4342.7	.....	16822	M4355.6	.....	16768.2	M4378.05	.....	16711.94
M4329.5	.....	16881	M4343	.....	16808	M4355.7	.....	16768.1	M4378.1	.....	16711.89
M4330	.....	16880	M4344	.....	16796	M4355.9	.....	16727.8	M4378.2	.....	16711.9
M4330.1	.....	16880.5	M4345	.....	16792	M4356	.....	16728	M4379.2	.....	16708
M4330.15	.....	16879.5	M4345.3	.....	16805	M4356.2	.....	16736	M4379.4	.....	16710
M4330.2	.....	16879	M4345.35	.....	16793	M4356.4	.....	16734	M4379.45	.....	16710.5
M4330.3	.....	16879.3	M4345.38	.....	16806	M4356.5	.....	16735	M4379.48	.....	16710.6
M4330.4	.....	17863.2	M4345.5	.....	16794	M4356.55	.....	16738	M4379.5	.....	16711
M4330.7	.....	16898	M4346	.....	16804	M4356.58	.....	16739	M4379.6	.....	16711.3
M4330.8	.....	16899	M4347	.....	16800	M4356.6	.....	16733.1	M4379.65	.....	16711.35
M4331	.....	16900	M4347.5	.....	16802	M4356.7	.....	16733	M4379.7	.....	16709
M4331.15	.....	16886.7	M4347.7	.....	16803	M4356.8	.....	16732.8	M4381	.....	16711.85
M4331.25	.....	16902	M4348	.....	16816	M4356.9	.....	16732.9	M4381.12	.....	16706
M4331.5	.....	16896	M4348.7	.....	16815.9	M4357.6	.....	16749	M4381.14	.....	16711.6
M4331.515	.....	16887.5	M4348.8	.....	16815	M4357.8	.....	16749.5	M4381.15	.....	16711.66
M4331.55	.....	16876.9	M4348.9	.....	16815.5	M4359	.....	16748.5	M4381.151	.....	16711.67
M4331.6	.....	16877	M4349.2	.....	16813	M4359.5	.....	16741	M4381.16	.....	16711.65
M4331.7	.....	16876	M4349.3	.....	16814	M4360	.....	16748	M4381.18	.....	16711.8
M4331.75	.....	16875.5	M4350.1	.....	16780.4	M4361	.....	16740.2	M4381.19	.....	16705
M4331.85	.....	16876.5	M4350.2	.....	16780.5	M4363	.....	16750	M4381.2	.....	16705.1
M4332	.....	16872	M4350.5	.....	16779.7	M4365	.....	16751	M4381.21	.....	16711.84
M4332.5	.....	16875	M4350.6	.....	16779.71	M4366	.....	16752	M4381.3	.....	16690
M4333	.....	16874	M4350.8	.....	16779.5	M4368	.....	16756	M4381.301	.....	16690.1
M4334	.....	16864	M4351	.....	16780	M4369	.....	16756.5	M4381.302	.....	16690.2
M4334.2	.....	16873	M4351.1	.....	16789	M4369.45	.....	16757	M4381.303	.....	16690.3
M4334.21	.....	16873.1	M4351.11	.....	16789.1	M4369.461	.....	16759.2	M4381.304	.....	16690.4
M4335	.....	16862	M4351.15	.....	16781.5	M4369.491	.....	16759.1	M4381.305	.....	16690.5
M4335.4	.....	16861	M4351.2	.....	16781	M4369.5	.....	16759.3	M4381.306	.....	16690.6
M4335.6	.....	16861.5	M4351.26	.....	16774.1	M4369.55	.....	16759.4	M4381.307	.....	16690.7
M4336	.....	16860	M4351.261	.....	16774.11	M4374	.....	16732	M4381.308	.....	16690.8
M4337.3	.....	16857	M4351.3	.....	16783	M4374.05	.....	16727.6	M4381.36	.....	16691
M4337.4	.....	16857.5	M4351.4	.....	16782	M4374.051	.....	16727.7	M4381.38	.....	16691.5
M4338	.....	16852	M4351.5	.....	16782.1	M4374.055	.....	16727.4	M4381.4	.....	16692
M4340	.....	16856	M4351.8	.....	16778	M4374.1	.....	16727.5	M4381.5	.....	16696
M4340.3	.....	16848	M4351.9	.....	16829	M4374.123	.....	16726.5	M4381.6	.....	16696.1
M4340.4	.....	16846	M4351.98	.....	16831	M4374.2	.....	16727	M4381.8	.....	16699.5
M4340.45	.....	16847	M4352	.....	16776	M4374.3	.....	16727.1	M4382	.....	16700
M4340.5	.....	16840	M4352.3	.....	16779	M4374.35	.....	16726.4	M4382.5	.....	16698
M4340.6	.....	16844	M4352.31	.....	16779.1	M4374.4	.....	16724.4	M4382.7	.....	16699
M4340.7	.....	16836	M4352.5	.....	16775.7	M4374.5	.....	16725.2	M4383	.....	16702
M4340.75	.....	16838	M4353	.....	16775	M4374.6	.....	16725.6	M4383.2	.....	16702.5

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M4385	.....	16688	M4411.4	.....	16626	M4434.7	.....	16506	M4458.4	.....	16409.5
M4388	.....	16687	M4411.41	.....	16627	M4434.75	.....	16505	M4458.45	.....	16410
M4389	.....	16686	M4412	.....	16624	M4435	.....	16496	M4458.6	.....	16412
M4390	.....	16684	M4412.5	.....	16632	M4436	.....	16488	M4458.63	.....	16396.5
M4394	.....	16680	M4412.6	.....	16628	M4437	.....	16492	M4458.64	.....	16397
M4394.5	.....	16683	M4412.7	.....	16634	M4437.2	.....	16487	M4458.7	.....	16376.7
M4395	.....	16682	M4412.72	.....	16633	M4440	.....	16548	M4459	.....	16380
M4396.5	.....	16680.9	M4412.8	.....	16642	M4443	.....	16536	M4459.15	.....	16385
M4396.6	.....	16681.2	M4413	.....	16620.5	M4443.5	.....	16542	M4459.16	.....	16384
M4396.7	.....	16675.5	M4413.2	.....	16620	M4445	.....	16544	M4459.2	.....	16386
M4396.8	.....	16675	M4413.21	.....	16621.1	M4445.7	.....	16524	M4459.25	.....	16386.1
M4397	.....	16674	M4413.22	.....	16621.2	M4445.8	.....	16528	M4459.3	.....	16378
M4397.1	.....	16673.6	M4413.23	.....	16621.3	M4446.2	.....	16520	M4459.4	.....	16379
M4397.3	.....	16673.5	M4413.4	.....	16621	M4446.4	.....	16541	M4459.43	.....	16377
M4397.4	.....	16673	M4413.55	.....	16612.5	M4446.5	.....	16484	M4459.45	.....	16376.5
M4397.5	.....	16673.1	M4413.57	.....	16612.3	M4446.6	.....	16480	M4459.5	.....	16388
M4397.7	.....	16672.7	M4413.58	.....	16612.2	M4446.65	.....	16486.1	M4459.54	.....	16396
M4397.77	.....	16672.6	M4413.6	.....	16612	M4446.7	.....	16486	M4459.6	.....	16392
M4397.85	.....	16672.3	M4413.625	.....	16611.9	M4446.8	.....	16478	M4459.65	.....	16387
M4397.86	.....	16672.5	M4413.63	.....	16611.8	M4447	.....	16464	M4459.7	.....	16376
M4398.2	.....	16672.1	M4413.632	.....	16611.7	M4447.5	.....	16463	M4459.75	.....	16374
M4399.2	.....	16672.2	M4413.636	.....	16611.65	M4447.51	.....	16463.5	M4459.9	.....	16369
M4399.5	.....	16669	M4413.638	.....	16611.6	M4447.6	.....	16460	M4460	.....	16365
M4400	.....	16668	M4413.65	.....	16611.5	M4448	.....	16466	M4460.1	.....	16365.1
M4401	.....	16665	M4413.7	.....	16609	M4448.4	.....	16467	M4461	.....	16364
M4402	.....	16664	M4413.75	.....	16610	M4448.5	.....	16469	M4462	.....	16359
M4403	.....	16662	M4413.8	.....	16611	M4449	.....	16456	M4464	.....	16360
M4403.3	.....	16661.9	M4414	.....	16604	M4449.05	.....	16455	M4464.5	.....	16362
M4403.5	.....	16661.7	M4415	.....	16600	M4449.06	.....	16455.1	M4465	.....	16358
M4403.6	.....	16661.61	M4417	.....	16596.5	M4449.1	.....	16454	M4466	.....	16356
M4403.8	.....	16661.5	M4418	.....	16596	M4449.2	.....	16454.1	M4468	.....	16352
M4403.85	.....	16661.6	M4419	.....	16595	M4449.25	.....	16454.2	M4472	.....	16332
M4403.88	.....	16661.4	M4420	.....	16588	M4449.3	.....	16449	M4474	.....	16328
M4403.9	.....	16661.3	M4420.3	.....	16594	M4449.35	.....	16450	M4480	.....	16340
M4404	.....	16656	M4421	.....	16592	M4449.4	.....	16453	M4484	.....	16348
M4404.1	.....	16656.1	M4424	.....	16584	M4449.5	.....	16452	M4484.4	.....	16344
M4404.3	.....	16655.1	M4424.5	.....	16597	M4449.6	.....	16451.7	M4485	.....	16326
M4404.4	.....	16655	M4424.6	.....	16598	M4449.65	.....	16451.8	M4487	.....	16325
M4404.6	.....	16654	M4426	.....	16572	M4449.7	.....	16451.6	M4488	.....	16324
M4405	.....	16660	M4427	.....	16574	M4449.75	.....	16451.65	M4490	.....	16323
M4405.5	.....	16661	M4428.1	.....	16581	M4449.8	.....	16451	M4492	.....	16316
M4405.6	.....	16652.1	M4430	.....	16580	M4449.85	.....	16451.5	M4495	.....	16322
M4406	.....	16652	M4430.04	.....	16576	M4449.9	.....	16435.1	M4506	.....	16312
M4408	.....	16643	M4430.2	.....	16571	M4450	.....	16436	M4506.5	.....	16308.5
M4408.5	.....	16642.5	M4430.3	.....	16569.7	M4452	.....	16440	M4507	.....	16310
M4408.55	.....	16642.6	M4430.31	.....	16569.9	M4452.5	.....	16444	M4508	.....	16309
M4408.6	.....	16642.4	M4430.5	.....	16569	M4453	.....	16448	M4510	.....	16308
M4408.8	.....	16645	M4430.8	.....	16569.1	M4455	.....	16432	M4510.4	.....	16306
M4409	.....	16644	M4430.85	.....	16569.5	M4455.4	.....	16433	M4510.6	.....	16307
M4410	.....	16648	M4431	.....	16568	M4455.5	.....	16431	M4511.4	.....	16306.1
M4410.1	.....	16648.6	M4431.2	.....	16566	M4455.6	.....	16430	M4512	.....	16304
M4410.2	.....	16648.5	M4431.4	.....	16566.2	M4456	.....	16428	M4513	.....	16303
M4410.5	.....	16616	M4431.45	.....	16565	M4456.2	.....	16429	M4514	.....	16301
M4410.52	.....	16614.5	M4431.5	.....	16564	M4456.5	.....	16424	M4514.4	.....	16302
M4410.54	.....	16615	M4432	.....	16552	M4456.8	.....	16423.1	M4516	.....	16284
M4410.6	.....	16614	M4432.6	.....	16556	M4456.85	.....	16423	M4520	.....	16296
M4410.65	.....	16615.5	M4433	.....	16560	M4456.9	.....	16421	M4522	.....	16288
M4410.8	.....	16613	M4433.5	.....	16551	M4456.93	.....	16422	M4524	.....	16292
M4410.9	.....	16613.5	M4433.6	.....	16551.1	M4457	.....	16420	M4526	.....	16300
M4410.94	.....	16615.8	M4433.7	.....	16508	M4458	.....	16404	M4530	.....	16280
M4410.95	.....	16615.9	M4433.8	.....	16516	M4458.1	.....	16406	M4531	.....	16277
M4410.96	.....	16615.6	M4433.9	.....	16518	M4458.15	.....	16416	M4532	.....	16278
M4410.97	.....	16615.7	M4434.2	.....	16504	M4458.18	.....	16418	M4533	.....	16276.5
M4411	.....	16636	M4434.3	.....	16502	M4458.2	.....	16414	M4534	.....	16272
M4411.2	.....	16640	M4434.5	.....	16504.5	M4458.3	.....	16408	M4536	.....	16276

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M4540	.....	16252	M4740.87	.....	13372	M4765.3	.....	13236	M4804	.....	12990
M4542	.....	16260	M4740.9	.....	13372.2	M4765.34	.....	13228	M4805	.....	12984
M4543	.....	16262	M4740.95	.....	13374	M4765.35	.....	13232	M4812	.....	11064
M4544	.....	16264	M4741.3	.....	13388	M4765.4	.....	13224	M4815.3	.....	11056
M4546	.....	16268	M4743	.....	13392	M4765.5	.....	13242	M4817	.....	11060
M4547	.....	16269	M4744	.....	13371	M4765.51	.....	13242.1	M4819	.....	11048
M4556	.....	16248	M4744.8	.....	13382	M4765.6	.....	13212	M4819.5	.....	11044
M4558	.....	16232	M4745	.....	13404	M4765.8	.....	13216	M4820	.....	11024
M4568	.....	16228	M4745.2	.....	13368.5	M4766	.....	13220	M4820.2	.....	11028
M4570	.....	16200	M4746	.....	13368	M4766.5	.....	13196	M4820.6	.....	11040
M4574	.....	16220	M4747	.....	13365	M4766.7	.....	13200	M4820.8	.....	11030
M4576	.....	16224	M4748	.....	13364	M4766.8	.....	13204	M4821	.....	11032
M4578	.....	16216	M4748.5	.....	13362	M4766.81	.....	13208	M4821.2	.....	11036
M4582	.....	16208	M4749	.....	13360	M4767	.....	13132	M4821.6	.....	10924
M4584	.....	16212	M4749.5	.....	13349	M4767.6	.....	13140	M4822	.....	10932
M4590	.....	16204	M4750	.....	13352	M4767.8	.....	13134	M4823	.....	11008
M4728	.....	13580	M4750.2	.....	13354	M4767.81	.....	13134.1	M4823.02	.....	11004
M4728.3	.....	13586	M4750.4	.....	13356	M4768	.....	13144	M4823.06	.....	11002
M4728.4	.....	13576	M4750.7	.....	13348	M4770	.....	13148	M4823.12	.....	11000
M4730	.....	13560	M4750.84	.....	13336	M4770.4	.....	13148.5	M4823.2	.....	10996
M4731	.....	13564	M4752	.....	13316	M4771	.....	13150	M4823.3	.....	10992
M4732	.....	13536	M4752.4	.....	13320	M4771.5	.....	13151	M4823.4	.....	11016
M4733	.....	13532	M4753	.....	13324	M4778	.....	13168	M4823.42	.....	11020
M4734	.....	13528	M4753.4	.....	13340	M4780	.....	13172	M4824	.....	10936
M4734.15	.....	13542	M4754	.....	13308	M4780.5	.....	13176	M4824.5	.....	10937
M4734.26	.....	13540	M4754.5	.....	13322	M4780.6	.....	13180	M4825	.....	10960
M4734.3	.....	13544	M4754.6	.....	13306	M4780.7	.....	13184	M4825.5	.....	10944
M4734.4	.....	13548	M4754.7	.....	13305	M4781	.....	13192	M4826	.....	10940
M4734.5	.....	13550	M4754.8	.....	13310	M4781.5	.....	13188	M4826.4	.....	10948
M4735	.....	13568	M4754.9	.....	13310.5	M4782	.....	13112	M4827.4	.....	10956
M4735.2	.....	13570	M4755	.....	13326	M4782.2	.....	13114	M4828	.....	10964
M4736	.....	13524	M4757.5	.....	13304.5	M4782.4	.....	13116	M4828.2	.....	10968
M4737	.....	13516	M4758	.....	13284	M4782.5	.....	13124	M4828.6	.....	10971
M4737.5	.....	13520	M4759	.....	13296	M4782.51	.....	13128	M4828.7	.....	10972
M4737.7	.....	13513	M4759.2	.....	13300	M4782.61	.....	13120	M4828.8	.....	10973
M4738	.....	13504	M4759.25	.....	13300.5	M4782.8	.....	13104	M4831	.....	10980
M4738.4	.....	13508	M4759.4	.....	13304	M4782.9	.....	13108	M4831.7	.....	10981
M4738.5	.....	13506	M4760	.....	13302	M4782.95	.....	13102	M4834	.....	10920
M4738.6	.....	13510	M4761.4	.....	13292	M4783	.....	13096	M4835	.....	10916
M4739	.....	13500	M4761.6	.....	13290	M4784	.....	13100	M4836	.....	10912
M4739.2	.....	13492	M4761.8	.....	13282	M4784.5	.....	13092	M4837	.....	10908
M4739.37	.....	13490	M4762.2	.....	13272	M4785	.....	13088	M4839	.....	10904
M4739.39	.....	13491	M4762.4	.....	13280	M4786	.....	13080	M4840	.....	10900
M4739.4	.....	13480	M4762.9	.....	13268	M4786.3	.....	13076	M4841.5	.....	10899.1
M4739.42	.....	13482	M4763	.....	13264	M4786.6	.....	13084	M4842	.....	10896
M4739.47	.....	13476	M4763.2	.....	13266	M4787	.....	12992	M4842.6	.....	10898
M4739.48	.....	13472	M4763.4	.....	13440	M4787.2	.....	12994	M4857	.....	10885
M4739.5	.....	13464	M4763.44	.....	13444	M4788	.....	13072	M4857.5	.....	10884
M4739.6	.....	13468	M4763.5	.....	13424	M4790	.....	13064	M4858	.....	10892
M4739.7	.....	13466	M4763.54	.....	13436	M4790.4	.....	13068	M4860	.....	10876
M4739.75	.....	13461	M4763.57	.....	13449	M4790.6	.....	13060	M4860.2	.....	10880
M4739.76	.....	13467	M4763.6	.....	13448	M4791	.....	13052	M4861	.....	10874
M4739.763	.....	13467.5	M4763.61	.....	13450	M4791.2	.....	13048	M4864	.....	10868
M4739.77	.....	13460.5	M4763.64	.....	13452	M4792	.....	13032	M4864.4	.....	10872
M4739.8	.....	13460	M4763.7	.....	13432	M4793	.....	13028	M4865	.....	10864
M4739.85	.....	13462	M4763.8	.....	13244	M4793.5	.....	13024	M4866	.....	10860
M4739.88	.....	13463	M4763.9	.....	13246	M4794	.....	13020	M4866.4	.....	10856
M4739.9	.....	13408	M4764	.....	13248	M4796	.....	13004	M4866.8	.....	10844
M4739.92	.....	13407	M4764.4	.....	13252	M4798.6	.....	13016	M4867	.....	10848
M4739.95	.....	13410	M4764.41	.....	13256	M4798.8	.....	13002	M4870	.....	10808
M4740	.....	13412	M4764.5	.....	13263	M4799	.....	13000	M4870.5	.....	10820
M4740.3	.....	13420	M4764.7	.....	13262	M4800.4	.....	13036	M4870.51	.....	10824
M4740.4	.....	13422	M4765	.....	13260	M4800.6	.....	13040	M4872	.....	10828
M4740.6	.....	13414	M4765.05	.....	13261	M4801	.....	13496	M4873	.....	10832
M4740.85	.....	13380	M4765.2	.....	13240	M4802	.....	12988	M4873.6	.....	10836

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M4874	.....	10840	M4920.5	.....	10586	M4974.2	.....	9704	M5012.8	.....	12786
M4876	.....	10804	M4921	.....	10574	M4974.6	.....	9708	M5013	.....	12780
M4880	.....	10796	M4922	.....	10524	M4975	.....	9712	M5013.4	.....	12784
M4881	.....	10800	M4923	.....	10528	M4975.5	.....	9714	M5014	.....	12776
M4882	.....	10784	M4923.3	.....	10526	M4976.2	.....	9716	M5014.5	.....	12774
M4883	.....	10780	M4924	.....	10532	M4976.6	.....	9734	M5015	.....	12772
M4884	.....	10788	M4927.5	.....	10535	M4977	.....	9726	M5015.3	.....	12768
M4884.1	.....	10792	M4928	.....	10536	M4977.3	.....	9728	M5016	.....	12724
M4886	.....	10776	M4928.5	.....	10538	M4978	.....	9720	M5016.4	.....	12740
M4887	.....	10768	M4929	.....	10552	M4978.5	.....	9724	M5017.2	.....	12756
M4888	.....	10772	M4930	.....	10548	M4979	.....	9730	M5017.4	.....	12748
M4889	.....	10764	M4938.3	.....	10556	M4981	.....	9738	M5017.5	.....	12750
M4889.2	.....	10762	M4939	.....	10558	M4982	.....	9742	M5017.7	.....	12744
M4889.4	.....	10763	M4940	.....	10560	M4982.3	.....	9744	M5017.8	.....	12716
M4890	.....	10760	M4941	.....	10564	M4982.5	.....	9736	M5018	.....	12720
M4892.6	.....	10756	M4943	.....	10568	M4983	.....	9746	M5020	.....	12760
M4893	.....	10752	M4943.5	.....	10570	M4984	.....	9750	M5022	.....	12732
M4894	.....	10748	M4944	.....	9316	M4985	.....	9754	M5024	.....	12736
M4896	.....	10736	M4945	.....	9312	M4985.5	.....	9756	M5025	.....	12728
M4897	.....	10712	M4945.5	.....	9310	M4986	.....	9758	M5025.5	.....	12729
M4898	.....	10716	M4946	.....	9308	M4992	.....	11096	M5026	.....	12764
M4898.6	.....	10708	M4946.6	.....	9320	M4994	.....	11100	M5026.6	.....	12808
M4898.7	.....	10740	M4947	.....	9300	M4994.2	.....	11094	M5027	.....	12812
M4899	.....	10724	M4947.04	.....	9304	M4994.4	.....	11092	M5027.4	.....	12816
M4899.7	.....	10720	M4947.06	.....	9321	M4994.6	.....	11088	M5027.65	.....	12818
M4900	.....	10688	M4947.08	.....	9322	M4994.7	.....	11084	M5028	.....	12824
M4900.2	.....	10704	M4947.09	.....	9338	M4994.8	.....	11112	M5028.4	.....	12828
M4900.7	.....	10696	M4947.1	.....	9332	M4995	.....	11108	M5028.6	.....	12972
M4900.8	.....	10700	M4947.11	.....	9328	M4996	.....	11104	M5028.8	.....	12974
M4900.94	.....	10692	M4947.12	.....	9324	M4996.4	.....	11152	M5029	.....	12948
M4902	.....	10684	M4947.15	.....	9336	M4997	.....	11160	M5029.2	.....	12940
M4903	.....	10680	M4947.18	.....	9340	M4998	.....	12980	M5029.21	.....	12944
M4903.6	.....	10676	M4947.19	.....	9341	M5002	.....	12904	M5029.4	.....	12936
M4903.7	.....	10672	M4947.26	.....	9344	M5002.5	.....	12900	M5029.5	.....	12934
M4904	.....	10648	M4947.3	.....	9342	M5002.6	.....	12896	M5029.6	.....	12932
M4904.2	.....	10650	M4947.4	.....	9348	M5002.7	.....	12890	M5029.8	.....	12928
M4904.4	.....	10656	M4947.5	.....	9352	M5002.8	.....	12892	M5030	.....	12924
M4904.5	.....	10660	M4947.6	.....	9356	M5003	.....	12976	M5032	.....	12912
M4904.6	.....	10644	M4947.7	.....	9364	M5003.5	.....	12894	M5033	.....	12916
M4904.8	.....	10652	M4947.74	.....	9360	M5004	.....	12880	M5033.5	.....	12920
M4904.9	.....	10668	M4947.8	.....	9368	M5005	.....	12884	M5034	.....	12908
M4905.4	.....	10640	M4947.9	.....	9376	M5005.4	.....	12888	M5038	.....	12588
M4906	.....	10632	M4948	.....	9372	M5005.7	.....	12876	M5039	.....	12584
M4907	.....	10636	M4948.4	.....	9380	M5006	.....	12864	M5040	.....	12582
M4907.5	.....	10638	M4948.6	.....	9384	M5006.41	.....	12868	M5042	.....	12580
M4908	.....	10624	M4950	.....	9388	M5006.55	.....	12970	M5047	.....	12564
M4908.4	.....	10628	M4951	.....	9392	M5007	.....	12968	M5048.5	.....	12568
M4908.6	.....	10630	M4953	.....	9396	M5008	.....	12856	M5050.5	.....	12562
M4909	.....	10620	M4954	.....	9400	M5008.2	.....	12862	M5051	.....	12556
M4909.1	.....	10610	M4954.5	.....	9404	M5008.4	.....	12952	M5051.5	.....	12558
M4909.3	.....	10613	M4955	.....	9408	M5008.45	.....	12960	M5052	.....	12544
M4909.4	.....	10614	M4955.5	.....	9412	M5008.6	.....	12956	M5052.5	.....	12540
M4909.8	.....	10608	M4955.57	.....	9414	M5009	.....	12832	M5053	.....	12548
M4910	.....	10604	M4956	.....	9416	M5009.6	.....	12836	M5054	.....	12552
M4912	.....	10464	M4962	.....	9421	M5010	.....	12860	M5056	.....	12536
M4913	.....	10600	M4964	.....	9424	M5010.2	.....	12844	M5056.4	.....	12532
M4913.5	.....	10594	M4965	.....	9428	M5010.3	.....	12852	M5056.6	.....	12528
M4914	.....	10596	M4966	.....	9432	M5010.35	.....	12848	M5056.8	.....	12524
M4916	.....	10572	M4968	.....	9676	M5010.5	.....	12806	M5056.9	.....	12520
M4917	.....	10576	M4968.4	.....	9680	M5010.6	.....	12804	M5057	.....	12512
M4917.5	.....	10578	M4968.6	.....	9684	M5011	.....	12792	M5057.4	.....	12516
M4918	.....	10580	M4969	.....	9688	M5011.5	.....	12802	M5057.9	.....	12510
M4920	.....	10592	M4971	.....	9696	M5012	.....	12796	M5058	.....	12496
M4920.2	.....	10588	M4972	.....	9692	M5012.4	.....	12800	M5060	.....	12504
M4920.4	.....	10584	M4974	.....	9700	M5012.6	.....	12788	M5060.1	.....	12508

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M5062	.....	12500	M5129.15	.....	11376	M5148	.....	11460	M5181	.....	11580
M5065	.....	12492	M5129.2	.....	11400	M5149.4	.....	11468	M5182	.....	11576
M5067	.....	12488	M5129.25	.....	11380	M5150	.....	11472	M5182.2	.....	11709.2
M5068	.....	12484	M5129.3	.....	11396	M5150.4	.....	11476	M5182.5	.....	11584
M5068.4	.....	12480	M5129.4	.....	11404	M5150.6	.....	11480	M5182.8	.....	11709
M5069	.....	12476	M5129.6	.....	11388	M5150.8	.....	11500	M5183	.....	11524
M5069.2	.....	12477	M5129.7	.....	11389	M5151	.....	11484	M5183.2	.....	11709.8
M5069.4	.....	12472	M5129.8	.....	11390	M5152	.....	11488	M5183.5	.....	11710
M5070	.....	12456	M5130	.....	11196	M5152.5	.....	11494	M5184	.....	11712
M5070.3	.....	12462	M5131	.....	11208	M5153	.....	11496	M5186	.....	11716
M5070.32	.....	12460	M5133	.....	11204	M5154	.....	11438	M5187.2	.....	11716.1
M5070.4	.....	12464	M5134	.....	11212	M5154.4	.....	11492	M5187.3	.....	11728
M5070.5	.....	12468	M5136.4	.....	11224	M5154.6	.....	11504	M5187.4	.....	11732
M5071	.....	12600	M5136.7	.....	11228	M5154.7	.....	11536	M5187.5	.....	11730
M5072	.....	12608	M5137.4	.....	11236	M5154.8	.....	11508	M5187.55	.....	11729
M5073	.....	12604	M5137.46	.....	11234	M5155.1	.....	11274	M5187.6	.....	11736
M5073.2	.....	12612	M5137.47	.....	11240	M5156	.....	11528	M5187.64	.....	11752
M5073.3	.....	12614	M5137.48	.....	11242	M5157	.....	11532	M5187.67	.....	11754
M5073.4	.....	12616	M5137.5	.....	11244	M5158	.....	11540	M5188	.....	11740
M5073.6	.....	12622	M5137.6	.....	11256	M5159	.....	11542	M5188.3	.....	11744
M5073.7	.....	12620	M5137.8	.....	11248	M5160	.....	11544	M5189	.....	11748
M5074	.....	12596	M5138	.....	11410	M5162	.....	11548	M5189.51	.....	11750
M5074.6	.....	12590	M5138.4	.....	11412	M5164	.....	11552	M5190	.....	11760
M5076	.....	12440	M5138.5	.....	11260	M5165	.....	11560	M5191	.....	11756
M5078	.....	12446	M5138.6	.....	11264	M5167	.....	11588	M5191.4	.....	11749
M5080	.....	11068	M5138.8	.....	11268	M5168	.....	11592	M5192	.....	11764
M5082	.....	11076	M5138.85	.....	11270	M5170	.....	11596	M5193	.....	11768
M5083	.....	11072	M5138.9	.....	11269	M5171	.....	11600	M5193.2	.....	11772
M5084	.....	11080	M5138.95	.....	11279	M5172	.....	11604	M5193.3	.....	11776
M5084.5	.....	11081	M5139	.....	11276	M5172.4	.....	11608	M5193.4	.....	11780
M5087	.....	11124	M5139.2	.....	11278	M5172.7	.....	11612	M5193.42	.....	11784
M5087.5	.....	11126	M5139.5	.....	11276.5	M5173.2	.....	11616	M5193.5	.....	11786
M5088	.....	11120	M5140.2	.....	11284	M5174	.....	11628	M5193.6	.....	11788
M5090	.....	11116	M5140.4	.....	11288	M5174.4	.....	11632	M5193.8	.....	11804
M5091	.....	11128	M5140.5	.....	11292	M5175	.....	11636	M5193.95	.....	11798
M5092	.....	11156	M5140.55	.....	11294	M5175.3	.....	11640	M5194	.....	11792
M5093	.....	11148	M5140.6	.....	11296	M5175.5	.....	11705	M5195	.....	11796
M5094	.....	11136	M5140.8	.....	11300	M5175.8	.....	11704	M5195.5	.....	11808
M5094.25	.....	11146	M5141	.....	11312	M5175.85	.....	11706	M5197	.....	11816
M5094.28	.....	11140	M5141.2	.....	11316	M5175.9	.....	11708	M5198.4	.....	11820
M5094.3	.....	11138	M5141.3	.....	11512	M5176.5	.....	11688	M5198.8	.....	11812
M5094.6	.....	11132	M5141.4	.....	11516	M5176.7	.....	11692	M5199	.....	11828
M5095	.....	11164	M5141.5	.....	11520	M5176.8	.....	11696	M5200	.....	11826
M5096	.....	11168	M5141.6	.....	11320	M5176.85	.....	11700	M5201	.....	11836
M5098	.....	11169.1	M5142	.....	11308	M5177	.....	11660	M5202	.....	11834
M5100	.....	11172	M5142.4	.....	11304	M5177.2	.....	11664	M5202.3	.....	11835
M5100.2	.....	11180	M5143	.....	11556	M5177.22	.....	11698	M5202.5	.....	11833
M5101	.....	11176	M5143.2	.....	11564	M5177.24	.....	11699	M5202.51	.....	11833.1
M5102	.....	11184	M5143.6	.....	11340	M5177.4	.....	11668	M5203	.....	11832
M5103	.....	11188	M5143.7	.....	11322	M5177.41	.....	11672	M5207	.....	11840
M5106	.....	11192	M5143.8	.....	11416	M5177.5	.....	11676	M5207.6	.....	11856
M5106.2	.....	11363	M5144	.....	11424	M5177.6	.....	11680	M5208	.....	11852
M5106.5	.....	11361	M5144.45	.....	11426	M5177.8	.....	11684	M5208.4	.....	11848
M5107.5	.....	11346	M5144.5	.....	11436	M5178.5	.....	11656	M5209	.....	11844
M5109	.....	11360	M5144.6	.....	11432	M5178.6	.....	11654	M5209.2	.....	11859
M5110.2	.....	11328	M5145	.....	11440	M5179	.....	11644	M5209.3	.....	11859.5
M5117	.....	11352	M5146	.....	11448	M5179.04	.....	11648	M5209.5	.....	11860
M5118	.....	11344	M5146.25	.....	11443.5	M5179.1	.....	11652	M5210	.....	11872
M5119	.....	11354	M5146.253	.....	11441	M5179.2	.....	11624	M5211	.....	11900
M5120	.....	11324	M5146.26	.....	11443.1	M5179.6	.....	11620	M5213	.....	11870
M5126.5	.....	11369	M5146.27	.....	11440.5	M5179.65	.....	11622	M5224.5	.....	11906
M5128	.....	11384	M5146.28	.....	11443	M5179.7	.....	11610	M5225	.....	11904
M5129	.....	11392	M5146.4	.....	11444	M5179.75	.....	11609	M5226	.....	11908
M5129.05	.....	11394	M5147	.....	11452	M5179.8	.....	11568	M5230	.....	11912
M5129.1	.....	11372	M5147.4	.....	11456	M5180	.....	11572	M5232	.....	11920

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M5232.4		11916	M5255.1		12124	M5269.5		12260	M5326		.9952
M5233		11868	M5255.22		12112	M5269.55		12262	M5327		.9956
M5236		11928	M5255.23		12120	M5269.62		12268	M5327.2		.9954
M5236.5		11924	M5255.24		12116	M5269.7		12264	M5327.6		.9953
M5236.7		11921	M5255.3		12136	M5269.8		12280	M5328		.9960
M5236.8		11922	M5255.35		12154	M5269.9		12296	M5329		1544
M5236.9		11923	M5255.4		12144	M5269.92		12292	M5330		1540
M5238		12004	M5255.5		12152	M5269.94		12288	M5332		.9948
M5239.05		12002	M5255.7		12148	M5269.95		12283	M5334		.9944
M5239.12		12000	M5256		12160	M5269.96		12284	M5334.2		.9946
M5239.15		12010	M5257		12168	M5270		12304	M5334.5		.9942
M5239.2		12008	M5257.1		12172	M5270.15		12286	M5335.2		.9924.5
M5239.5		12012	M5257.4		12176	M5270.2		12300	M5335.4		.9928
M5239.55		12014	M5258		12704	M5270.3		12312	M5337		.9932
M5239.56		12015	M5259		12624	M5270.4		12308	M5337.1		.9936
M5239.6		11994	M5259.2		12628	M5270.6		12328	M5338.4		.9864
M5239.65		11994.5	M5259.25		12688	M5271		12316	M5339		.9860
M5239.7		11992	M5259.27		12689	M5272		12320	M5340		.9836
M5239.8		11988	M5259.29		12689.1	M5272.4		12324	M5340.1		.9840
M5240		11984	M5259.32		12630	M5273		12340	M5340.3		.9820
M5240.4		11960	M5259.34		12632	M5274.5		12338	M5340.31		.9824
M5240.43		11964	M5259.38		12636	M5275		12348	M5340.6		.9804
M5240.44		11957	M5259.4		12660	M5275.2		12346	M5340.61		.9808
M5240.46		11976	M5259.45		12638	M5275.4		12352	M5343		.9872
M5240.48		11956	M5259.6		12644	M5276		12344	M5343.4		.9876
M5240.6		11956.5	M5259.61		12648	M5279		12356	M5343.7		.9868
M5240.65		11956.7	M5260		12640	M5282		12360	M5344		.9848
M5240.7		11958	M5260.2		12641	M5282.2		12364	M5344.1		.9852
M5241		11972	M5260.4		12664	M5282.4		12368	M5345		.9844
M5242.1		11980	M5261.11		12697	M5282.51		12388	M5347		.9816
M5242.2		11968	M5261.2		12680	M5282.52		12382	M5351		.9794
M5242.4		12020	M5261.3		12676	M5282.53		12384	M5352		.9788
M5242.6		12016	M5261.4		12672	M5283		12390	M5353		.9786
M5244		12032	M5261.45		12684	M5284		12336	M5354		.9790
M5245		12024	M5261.5		12692	M5284.4		12332	M5355		.9774
M5245.5		12034	M5261.72		12690	M5285		12416	M5355.2		.9792
M5246		12036	M5261.74		12700	M5286		12420	M5356		.9778
M5247		12038	M5261.8		12698	M5288		12392	M5356.1		.9782
M5248		12048	M5261.9		12712	M5289		12396	M5358		.9770
M5248.2		12044	M5262		12276	M5289.2		12400	M5360		.9762
M5250		12052	M5263		12452	M5289.8		12404	M5366		.9672
M5250.4		12064	M5265		12220	M5290		12412	M5372		.9668
M5250.6		12040	M5265.4		12192	M5291		12408	M5376		.9664
M5250.7		12054	M5265.6		12184	M5291.4		12424	M5380		.9656
M5250.8		12056	M5265.65		12188	M5291.5		12428	M5380.1		.9660
M5250.9		12060	M5265.7		12708	M5291.55		12430	M5382		.9640
M5251		12076	M5265.8		12216	M5291.6		12432	M5386		.9636
M5251.5		12075	M5266		12228	M5292		12436	M5387		.9648
M5252		12072	M5266.2		12224	M5293		12438	M5387.3		.9652
M5253		12068	M5266.25		12226	M5295		12439	M5387.5		.9632
M5253.2		12070	M5266.3		12208	M5295.5		12439.5	M5388		.9628
M5253.4		12080	M5266.35		12212	M5297		9912	M5389		.9624
M5254		12084	M5266.4		12204	M5300		9888	M5390		.9608
M5254.5		12092	M5266.45		12193.5	M5300.1		9892	M5390.4		.9612
M5254.7		12098	M5266.5		12194	M5301		9896	M5390.45		.9616
M5254.8		12100	M5267		12196	M5301.1		9900	M5390.6		.9604
M5254.86		12104	M5268		12180	M5302		9880	M5391.4		.9596
M5254.9		12156	M5269		12240	M5312		9766	M5392		.9592
M5254.91		12157	M5269.02		12232	M5322		1548	M5393		.9588
M5254.95		12088	M5269.04		12236	M5323		1550	M5394		.9584
M5254.97		12090	M5269.06		12244	M5324		9962	M5394.5		.9580
M5255		12108	M5269.2		12256	M5324.4		9962.2	M5396		.9577
M5255.05		12118	M5269.22		12252	M5324.5		9962.4	M5397		.9574
M5255.06		12118.1	M5269.24		12248	M5324.7		9962.6	M5397.5		.9512.3
M5255.07		12118.2	M5269.3		12254	M5324.8		9962.8	M5398.5		.9512

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M5399		9516	M5445		8896	M5501		8372	M5550.6		.8016
M5400		9520	M5446		8790	M5502		8252	M5550.7		.8012
M5400.3		9532	M5447		8792	M5502.5		8264	M5550.8		.8004
M5400.4		9528	M5448		8788	M5502.7		8268	M5550.85		.8000
M5400.5		9524	M5450		8772	M5503		8248	M5550.9		.7996
M5400.8		9568	M5451		8768	M5503.5		8244	M5551		.7994
M5400.81		9572	M5452		8764	M5504		8240	M5551.3		.7988
M5401		9556	M5454		8760	M5504.5		8236	M5551.5		.7168
M5401.6		9544	M5456		8716	M5505		8260	M5551.6		.7988.5
M5402.5		9548	M5456.1		8720	M5506		8232	M5551.75		.7164
M5402.51		9552	M5458		8744	M5507		8228	M5551.8		.7144
M5404		9536	M5459.3		8748	M5507.5		8310	M5551.9		.7146
M5404.4		9508	M5459.4		8752	M5508		8368	M5552		.7148
M5404.5		9496	M5459.44		8756	M5509		8364	M5552.4		.7152
M5404.7		9500	M5459.7		8736	M5512		8352	M5552.41		.7156
M5404.8		9504	M5460		8732	M5515		8348	M5552.55		.7162
M5405		9488	M5461		8740	M5518		8344	M5552.6		.7160
M5405.2		9494	M5462		8724	M5520.8		8340	M5553		.7136
M5405.4		9492	M5463		8728	M5521.5		8336	M5553.4		.7140
M5406		9484	M5464		8712	M5524		8320	M5554		.7132
M5406.2		9486	M5467		8700	M5525		8324	M5555		.7088
M5406.5		9472	M5468		8704	M5525.1		8328	M5555.4		.7084
M5406.55		9474	M5468.5		8708	M5530		8332	M5556		.7120
M5406.7		9476	M5470		8692	M5533		8216	M5559		.7116
M5406.8		9480	M5470.3		8696	M5534		8220	M5560		.7112
M5407		9464	M5470.5		8688	M5535		8212	M5561		.7104
M5407.4		9460	M5470.6		8687	M5536		8208	M5562		.7108
M5408		9456	M5470.7		8676	M5538		8144	M5564		.7092
M5408.5		9468	M5470.71		8680	M5538.6		8152	M5565		.7096
M5409		9444	M5471		8672	M5538.7		8150	M5565.4		.7100
M5409.1		9448	M5472		8656	M5539		8160	M5568		.7080
M5409.4		9452	M5473		8660	M5539.2		8156	M5570		.7184
M5410		9232	M5474.8		8682	M5539.25		8155	M5570.2		.7188
M5412		9164	M5475		8684	M5539.6		8205	M5570.5		.7192
M5413		9228	M5475.2		8686.5	M5540		8204	M5570.8		.7078
M5414		9160	M5475.4		8686	M5540.6		8196	M5571		.7076
M5415		9224	M5475.5		8654	M5540.8		8164	M5572		.7072
M5418		9156	M5475.7		8542	M5540.9		8168	M5572.5		.7066
M5418.5		9152	M5476		8564	M5541		8172	M5574		.7068
M5424		9296	M5476.5		8566	M5541.6		8176	M5575		.7064
M5426		9292	M5477		8568	M5545		8136	M5575.6		.7056
M5427		9288	M5477.5		8577	M5545.6		8128	M5576		.7044
M5427.5		9284	M5478		8572	M5546		8132	M5576.4		.7048
M5427.8		9280	M5479		8576	M5546.5		8124	M5577		.7052
M5428		9272	M5479.5		8582	M5546.8		8120	M5577.06		.9964
M5429		9276	M5480		8584	M5547		7916	M5577.1		.9983
M5430		9270	M5480.4		8588	M5547.4		7920	M5577.15		.9984
M5430.5		9268	M5481		8580	M5547.5		7912	M5577.2		.9988
M5431		9264	M5482		8384	M5547.55		7904	M5578.5		10000
M5432		9260	M5483		8624	M5547.6		7908	M5578.6		10012
M5432.6		9252	M5484		8620	M5547.8		7900	M5578.8		10004
M5432.8		9256	M5484.4		8653	M5548		7896	M5579.4		10016
M5432.9		9246	M5484.6		8647	M5549		7928	M5579.6		10024
M5432.95		9247	M5484.65		8648	M5549.2		7924	M5579.7		10028
M5433		9248	M5488		8640	M5549.3		7922	M5581		10032
M5433.8		9240	M5488.5		8645	M5549.5		8033	M5581.1		10036
M5434		9244	M5490		8636	M5549.55		8034	M5581.2		10040
M5435		9236	M5494		8608	M5549.6		8032	M5581.4		10044
M5436		9128	M5495		8612	M5549.7		8030	M5581.6		10048
M5437		8812	M5496		8616	M5549.9		8119	M5581.8		10052
M5439		8810	M5498		8592	M5549.95		8031.5	M5584		10056
M5439.8		8806	M5499		8376	M5550		8031	M5584.3		10060
M5441		8804	M5499.9		8380.5	M5550.2		8024	M5585		10064
M5442		8800	M5500		8380	M5550.3		8028	M5585.3		10065
M5444		8796	M5500.5		8386	M5550.5		8008	M5585.5		10068

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M5585.6	.....	10072	M5609.5	.....	10336	M5640	.....	9200	M5680.95	.....	8978
M5585.65	.....	10066	M5609.7	.....	10328	M5641	.....	9202	M5681	.....	8984
M5585.7	.....	10080	M5610	.....	10332	M5642	.....	9204	M5681.2	.....	9036
M5585.8	.....	10076	M5610.12	.....	10324	M5644	.....	9148	M5681.4	.....	9034
M5586	.....	10084	M5610.17	.....	10330	M5644.4	.....	9144	M5683	.....	9028
M5587.2	.....	10092	M5610.2	.....	10520	M5645	.....	9140	M5684	.....	9024
M5587.3	.....	10096	M5610.4	.....	10516	M5645.4	.....	9192	M5684.2	.....	9023
M5587.4	.....	10098	M5610.45	.....	10514	M5645.6	.....	9196	M5684.4	.....	9023.5
M5589	.....	10100	M5610.5	.....	10512	M5646	.....	9188	M5685	.....	9022
M5590	.....	10104	M5611	.....	10504	M5646.3	.....	9190	M5686	.....	9020
M5591	.....	10108	M5611.2	.....	10508	M5646.5	.....	9184	M5687	.....	9004
M5592.2	.....	10112	M5611.3	.....	10500	M5646.7	.....	9186	M5687.4	.....	9012
M5592.3	.....	10116	M5611.4	.....	10496	M5647	.....	9168	M5687.5	.....	9008
M5592.4	.....	10118	M5612	.....	10492	M5649	.....	9172	M5688.4	.....	8994
M5592.5	.....	10120	M5612.1	.....	10488	M5650	.....	9176	M5689	.....	8992
M5592.55	.....	10124	M5612.14	.....	10484	M5651	.....	9180	M5690	.....	9000
M5592.6	.....	10128	M5612.2	.....	10480	M5651.2	.....	8902	M5691	.....	8996
M5592.8	.....	10132	M5612.3	.....	10476	M5651.3	.....	8900	M5691.5	.....	9049
M5593	.....	10136	M5612.5	.....	10472	M5651.6	.....	9136	M5692	.....	9052
M5593.2	.....	10140	M5613	.....	10468	M5651.7	.....	9132	M5692.5	.....	9050
M5593.3	.....	10142	M5614	.....	10456	M5651.75	.....	9130	M5692.7	.....	9054
M5593.4	.....	10144	M5614.1	.....	10452	M5651.8	.....	8780	M5693	.....	9056
M5593.5	.....	10148	M5614.2	.....	10444	M5652	.....	8776	M5694	.....	9060
M5594	.....	10152	M5614.3	.....	10448	M5652.5	.....	8778	M5694.1	.....	9064
M5594.8	.....	10160	M5614.34	.....	10440	M5653	.....	8784	M5694.5	.....	9068
M5595	.....	10156	M5614.4	.....	10420	M5654	.....	8904	M5695	.....	8888
M5596.2	.....	10192	M5614.5	.....	10436	M5654.5	.....	8914	M5695.5	.....	8886
M5596.25	.....	10190	M5614.9	.....	10430	M5655	.....	8912	M5695.56	.....	8890
M5596.3	.....	10188	M5615	.....	10428	M5656	.....	8908	M5695.7	.....	8872
M5596.4	.....	10196	M5615.6	.....	10424	M5657	.....	9108	M5695.8	.....	8868
M5596.5	.....	10204	M5616	.....	10416	M5657.5	.....	9106	M5696	.....	8892
M5596.6	.....	10208	M5616.2	.....	10368	M5658	.....	9100	M5696.4	.....	8864
M5596.7	.....	10210	M5616.4	.....	10360	M5659	.....	9104	M5697	.....	8848
M5597	.....	10212	M5618	.....	10356	M5660	.....	9102	M5697.1	.....	8852
M5598	.....	10224	M5618.2	.....	10358	M5662	.....	8920	M5697.2	.....	8856
M5598.1	.....	10216	M5619	.....	10344	M5663	.....	9096	M5697.4	.....	8860
M5598.15	.....	10220	M5619.2	.....	10348	M5664	.....	8916	M5697.5	.....	8840
M5598.25	.....	10234	M5619.4	.....	10412	M5664.4	.....	9092	M5697.6	.....	8844
M5598.3	.....	10228	M5620	.....	10408	M5664.7	.....	9088	M5697.7	.....	8846
M5598.5	.....	10252	M5621	.....	10352	M5665.5	.....	9080	M5697.8	.....	8880
M5598.7	.....	10256	M5621.4	.....	10404	M5666	.....	9076	M5697.9	.....	8834
M5599.3	.....	10248	M5622	.....	10400	M5666.5	.....	9072	M5698	.....	8836
M5599.4	.....	10244	M5622.4	.....	10392	M5668	.....	8924	M5698.4	.....	8828
M5599.6	.....	10246	M5622.5	.....	10396	M5669	.....	8956	M5699	.....	8832
M5600	.....	10260	M5622.7	.....	10388	M5670	.....	8958	M5699.4	.....	8830
M5600.2	.....	10258	M5623	.....	10372	M5671	.....	8952	M5700	.....	8524
M5601	.....	10264	M5623.4	.....	10376	M5672	.....	8951	M5700.5	.....	8746
M5601.3	.....	10266	M5623.5	.....	10378	M5672.5	.....	8950	M5702	.....	8520
M5601.6	.....	10276	M5623.6	.....	10380	M5675.4	.....	8948	M5703	.....	8516
M5601.7	.....	10273	M5624.5	.....	10384	M5675.6	.....	8949	M5706	.....	8512
M5601.8	.....	10272	M5625	.....	10466	M5675.7	.....	8944	M5708	.....	8820
M5601.9	.....	10270	M5625.2	.....	10465.5	M5675.9	.....	8946	M5709	.....	8822
M5602	.....	10284	M5625.6	.....	10465	M5676.4	.....	9044	M5710	.....	8816
M5602.4	.....	10286	M5626	.....	9436	M5677	.....	9040	M5710.6	.....	8824
M5603	.....	10288	M5626.2	.....	9440	M5677.2	.....	8932	M5710.8	.....	8528
M5604	.....	10296	M5627	.....	9220	M5677.4	.....	8928	M5711.2	.....	8536
M5605	.....	10304	M5628	.....	9216	M5678	.....	8936	M5711.4	.....	8540
M5606	.....	10308	M5632	.....	9120	M5678.4	.....	8940	M5711.5	.....	8544
M5607.3	.....	10292	M5634	.....	9124	M5678.6	.....	8977	M5711.8	.....	8550
M5607.4	.....	10301	M5634.5	.....	9116	M5679	.....	8964	M5712	.....	8504
M5607.5	.....	10310	M5636	.....	9112	M5680	.....	8980	M5713	.....	8500
M5608	.....	10312	M5638	.....	9110	M5680.4	.....	8988	M5714	.....	8496
M5608.4	.....	10316	M5639	.....	9212	M5680.6	.....	8968	M5715	.....	8492
M5608.7	.....	10320	M5639.2	.....	9210	M5680.8	.....	8972	M5715.5	.....	8490
M5609	.....	10340	M5639.4	.....	9208	M5680.9	.....	8976	M5716	.....	8488

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M5717.4	.....	8484	M5744	.....	8090	M5771	.....	7720	M5843	.....	7492
M5718	.....	8480	M5746	.....	8094	M5771.6	.....	7712	M5843.1	.....	7494
M5718.5	.....	8479	M5747	.....	8074	M5772	.....	7708	M5843.2	.....	7491
M5719	.....	8476	M5747.3	.....	8088	M5772.5	.....	7704	M5843.4	.....	7490
M5719.5	.....	8478	M5747.4	.....	8088.5	M5773	.....	7700	M5844	.....	7488
M5720	.....	8472	M5747.6	.....	8064	M5774	.....	7684	M5848	.....	7482
M5721	.....	8526	M5748	.....	8070	M5774.4	.....	7680	M5852	.....	7476
M5722	.....	8452	M5748.3	.....	8060	M5775	.....	7692	M5854	.....	7408
M5723	.....	8456	M5748.5	.....	8058	M5780	.....	7676	M5857	.....	7472
M5723.3	.....	8474	M5748.6	.....	8040	M5781	.....	7672	M5857.5	.....	7472.5
M5723.4	.....	8458	M5749	.....	8048	M5782	.....	7668	M5860	.....	7464
M5723.7	.....	8450.5	M5750	.....	8044	M5782.6	.....	7664	M5860.2	.....	7471
M5724	.....	8468	M5751	.....	8052	M5782.8	.....	7666	M5860.3	.....	7470
M5724.2	.....	8552	M5751.2	.....	8056	M5783	.....	7652	M5861	.....	7460
M5724.4	.....	8464	M5751.4	.....	8036	M5784	.....	7660	M5862	.....	7456
M5724.6	.....	8560	M5751.5	.....	8038	M5785	.....	7656	M5864.63	.....	7412
M5724.8	.....	8556	M5751.6	.....	7856	M5796	.....	7648	M5865	.....	7414
M5724.9	.....	8450	M5751.8	.....	7848	M5797	.....	7936	M5865.51	.....	7415
M5725	.....	8444	M5752	.....	7852	M5798.4	.....	7940	M5865.52	.....	7415.5
M5725.4	.....	8448	M5752.2	.....	7844	M5798.6	.....	7944	M5866	.....	7416
M5726	.....	8440	M5752.4	.....	7840	M5798.8	.....	7946	M5866.3	.....	7420
M5727	.....	8436	M5754	.....	7828	M5799	.....	7948	M5867	.....	7424
M5728	.....	8460	M5754.5	.....	7824	M5799.5	.....	7956	M5867.2	.....	7428
M5728.5	.....	8424	M5754.7	.....	7822	M5800	.....	7952	M5868	.....	7452
M5728.7	.....	8428	M5754.85	.....	7826	M5802	.....	7960	M5870	.....	7436
M5729	.....	8420	M5755	.....	7820	M5803	.....	7964	M5871	.....	7440
M5729.4	.....	8412	M5755.3	.....	7816	M5804	.....	7968	M5871.1	.....	7440.5
M5729.5	.....	8410	M5755.6	.....	7800	M5806	.....	7972	M5872	.....	7448
M5729.6	.....	8416	M5756	.....	7804	M5809	.....	7980	M5886	.....	7404
M5729.7	.....	8404	M5756.2	.....	7808	M5809.2	.....	7976	M5894	.....	7384
M5729.71	.....	8408	M5756.21	.....	7812	M5811	.....	7984	M5899	.....	7400
M5729.8	.....	8396	M5756.4	.....	7788	M5811.4	.....	7172	M5899.2	.....	7430
M5729.81	.....	8400	M5756.6	.....	7792	M5812	.....	7176	M5899.3	.....	7402
M5729.9	.....	8393	M5756.61	.....	7796	M5814	.....	7180	M5899.5	.....	7398
M5730	.....	8392	M5756.7	.....	7780	M5814.2	.....	7182	M5906	.....	7332
M5731	.....	8388	M5756.8	.....	7784	M5814.25	.....	7183	M5907	.....	7336
M5731.2	.....	8388.5	M5757	.....	7892	M5814.3	.....	7196	M5920	.....	7344
M5731.7	.....	8312	M5757.3	.....	7888	M5814.6	.....	7516	M5932	.....	7348
M5731.8	.....	8308	M5757.4	.....	7884	M5815	.....	7520	M5939	.....	7312
M5731.85	.....	8306	M5757.41	.....	7880.5	M5815.5	.....	7524	M5939.4	.....	7316
M5731.9	.....	8304	M5757.42	.....	7882	M5816	.....	7528	M5939.6	.....	7310
M5732	.....	8300	M5757.45	.....	7885	M5818.4	.....	7536	M5939.7	.....	7296
M5732.02	.....	8296	M5757.5	.....	7886	M5819.5	.....	7548	M5939.8	.....	7292
M5732.04	.....	8288	M5757.6	.....	7880	M5821	.....	7592	M5940	.....	7304
M5732.08	.....	8292	M5757.9	.....	7876	M5822	.....	7596	M5945	.....	7308
M5732.11	.....	8294	M5758	.....	7868	M5822.12	.....	7600	M5950	.....	7284
M5732.15	.....	8284	M5758.4	.....	7864	M5822.16	.....	7604	M5951	.....	7288
M5732.17	.....	8181	M5759.6	.....	7776	M5822.22	.....	7610	M5952	.....	7289
M5732.19	.....	8283	M5759.7	.....	7772	M5822.3	.....	7612	M5952.1	.....	7289.1
M5732.2	.....	8274	M5760	.....	7768	M5822.4	.....	7616	M5953	.....	7280
M5732.23	.....	8282	M5761	.....	7764	M5822.5	.....	7618	M5953.6	.....	7272
M5732.3	.....	8280	M5762	.....	7752	M5822.6	.....	7620	M5953.7	.....	7271.9
M5732.4	.....	8276	M5763.3	.....	7790	M5822.8	.....	7624	M5953.75	.....	7271.95
M5733	.....	8272	M5763.5	.....	7756	M5823	.....	7626	M5954	.....	7271
M5734	.....	8256	M5763.6	.....	7760	M5828	.....	7628	M5955	.....	7260
M5735	.....	8118	M5764	.....	7748	M5829	.....	7632	M5955.04	.....	7264
M5737	.....	8114	M5764.6	.....	7740	M5834	.....	7640	M5955.06	.....	7250
M5737.5	.....	8110	M5764.8	.....	7744	M5834.2	.....	7644	M5955.2	.....	7268
M5737.7	.....	8102	M5766	.....	7732	M5836	.....	7650, 7650.5,	M5955.3	.....	7242
M5737.8	.....	8106	M5766.3	.....	7728	7651,	7651.5,		M5955.5	.....	7248
M5738	.....	8098	M5766.5	.....	7736	7651.6			M5956.2	.....	7244
M5739	.....	8086	M5767	.....	7726	M5838.6	.....	7504	M5956.25	.....	7256
M5740	.....	8082	M5768	.....	7860	M5838.7	.....	7508	M5956.4	.....	7252
M5741.7	.....	8072	M5769	.....	7724	M5840	.....	7500	M5957.2	.....	7240
M5743	.....	8078	M5770	.....	7716	M5842.4	.....	7496	M5957.4	.....	7236

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M5957.5	.....	7234	M5980.8	.....	6858	M6025.4	.....	6536	M6052	.....	5812
M5957.52	.....	7235	M5980.9	.....	6848	M6025.7	.....	6537	M6053	.....	5816
M5957.61	.....	7233	M5981	.....	6864	M6026.3	.....	6520	M6053.4	.....	5820
M5957.62	.....	7231	M5981.1	.....	6868	M6026.35	.....	6522	M6055	.....	6072
M5957.63	.....	7231.1	M5981.6	.....	6872	M6026.4	.....	6516	M6055.5	.....	5836
M5957.64	.....	7233.5	M5981.7	.....	6850	M6026.5	.....	6508	M6056.2	.....	6064
M5957.7	.....	7230.6	M5981.8	.....	6876	M6027	.....	6512	M6057.5	.....	6060
M5957.72	.....	7230.3	M5984	.....	6824	M6027.15	.....	6500	M6057.6	.....	6074
M5957.73	.....	7230.5	M5986	.....	6820	M6027.17	.....	6504	M6057.8	.....	6308
M5957.74	.....	7230.1	M5987	.....	6816	M6027.3	.....	6496	M6058	.....	6312
M5957.75	.....	7230	M5988	.....	6808	M6027.4	.....	6492	M6059	.....	6316
M5957.8	.....	7229	M5988.4	.....	6812	M6027.5	.....	6488	M6063	.....	6292
M5958	.....	7212	M5989	.....	6804	M6027.6	.....	6484	M6063.4	.....	6296
M5958.2	.....	7224	M5990	.....	6802	M6028	.....	6476	M6063.5	.....	6294
M5959	.....	7204	M5991	.....	6788	M6031	.....	6452	M6063.6	.....	6264
M5960	.....	7200	M5991.1	.....	6792	M6032	.....	6448	M6064	.....	6268
M5960.4	.....	7208	M5994	.....	6776	M6032.2	.....	6456	M6066	.....	6260
M5960.5	.....	7206	M5995	.....	6768	M6032.7	.....	6420	M6072.1	.....	6255
M5961	.....	7040	M5995.6	.....	6772	M6033	.....	6440	M6073.5	.....	6254
M5961.6	.....	7036	M5996	.....	6780	M6033.2	.....	6444	M6074	.....	6252
M5961.8	.....	7034	M5996.05	.....	6740	M6033.3	.....	6424	M6080	.....	6232
M5962.4	.....	7024	M5996.2	.....	6736	M6033.31	.....	6428	M6080.2	.....	6244
M5963	.....	7028	M5996.4	.....	6748	M6033.32	.....	6432	M6080.21	.....	6248
M5964	.....	7032	M5997	.....	6744	M6033.41	.....	6392	M6081	.....	6236
M5965	.....	7018	M5997.2	.....	6784	M6033.42	.....	6436	M6081.2	.....	6240
M5965.05	.....	7016	M5997.3	.....	6752	M6033.46	.....	6416	M6081.4	.....	6228
M5965.12	.....	7012	M5997.6	.....	6760	M6033.5	.....	6412	M6082	.....	6224
M5965.2	.....	7008	M5998	.....	6756	M6033.6	.....	6414	M6084	.....	6220
M5966	.....	7000	M5999	.....	6742	M6033.7	.....	6408	M6085	.....	6222
M5966.2	.....	7004	M6000	.....	6732	M6033.8	.....	6404	M6087	.....	6212
M5966.5	.....	6980	M6001	.....	6724	M6034.2	.....	6396	M6093	.....	6208
M5966.62	.....	6976	M6001.1	.....	6728	M6034.5	.....	6400	M6093.5	.....	6210
M5966.8	.....	6988	M6001.5	.....	6720	M6036	.....	6384	M6093.6	.....	6209
M5967	.....	6984	M6002	.....	6716	M6036.2	.....	6388	M6094	.....	6204
M5967.2	.....	6992	M6003	.....	6708	M6036.3	.....	6307	M6094.4	.....	6200
M5967.3	.....	6996	M6003.4	.....	6712	M6036.4	.....	6380	M6095	.....	6196
M5967.35	.....	6972	M6004	.....	6700	M6038	.....	6376	M6095.6	.....	6140
M5967.4	.....	6968	M6006	.....	6704	M6038.2	.....	6378	M6095.62	.....	6140.21
M5967.5	.....	6964	M6006.8	.....	6696	M6042	.....	6356	M6095.63	.....	6140.22
M5967.8	.....	6960	M6007	.....	6688	M6042.25	.....	6374	M6095.64	.....	6140.31
M5967.82	.....	6958	M6007.1	.....	6692	M6042.3	.....	6352	M6095.65	.....	6140.32
M5967.84	.....	6956	M6007.2	.....	6684	M6042.4	.....	6362	M6096	.....	6192
M5968	.....	6952	M6007.3	.....	6682	M6042.46	.....	6364	M6097	.....	6164
M5968.3	.....	6948	M6007.4	.....	6680	M6042.6	.....	6368	M6097.6	.....	6184
M5968.4	.....	6950	M6007.5	.....	6678	M6044	.....	6372	M6098	.....	6176
M5968.5	.....	6946	M6008	.....	6644	M6044.5	.....	6360	M6099	.....	6180
M5968.6	.....	6944	M6008.5	.....	6640	M6045	.....	6344	M6110.1	.....	6161
M5969.06	.....	6918	M6008.7	.....	6636	M6045.2	.....	6348	M6110.12	.....	6161.1
M5969.08	.....	6932	M6009	.....	6632	M6046	.....	6336	M6110.15	.....	6162
M5969.4	.....	6912	M6009.5	.....	6652	M6046.3	.....	6340	M6110.16	.....	6162.1
M5969.6	.....	6904	M6010	.....	6668	M6047	.....	6332	M6111	.....	6152
M5969.7	.....	6908	M6010.2	.....	6672	M6047.2	.....	6330	M6115	.....	6146
M5970	.....	6900	M6010.4	.....	6624	M6047.4	.....	6300	M6133	.....	6136
M5974	.....	6888	M6011	.....	6620	M6047.6	.....	6288	M6135	.....	6132
M5974.5	.....	6892	M6012	.....	6580	M6047.8	.....	6304	M6136	.....	6128
M5975	.....	6896	M6013	.....	6588	M6048	.....	6328	M6137	.....	6124
M5977	.....	6884	M6022	.....	6548	M6048.5	.....	6320	M6138	.....	6120
M5977.4	.....	6880	M6022.2	.....	6568	M6049	.....	6324	M6138.5	.....	6116
M5977.6	.....	6840	M6022.4	.....	6560	M6050	.....	6276	M6138.6	.....	6110.9
M5977.7	.....	6836	M6022.5	.....	6564	M6050.1	.....	6280	M6139	.....	6112
M5978	.....	6832	M6022.7	.....	6558	M6050.3	.....	6284	M6141	.....	6110
M5979	.....	6828	M6023.8	.....	6544	M6050.8	.....	6272	M6144	.....	6108
M5980	.....	6844	M6024	.....	6552	M6051	.....	5824	M6146	.....	6104
M5980.4	.....	6852	M6024.8	.....	6540	M6051.3	.....	5832	M6156	.....	6096
M5980.61	.....	6860	M6025	.....	6524	M6051.5	.....	5822	M6156.5	.....	6100

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M6158.2	.....	6088	M6217	.....	5844	M6272.5	.....	5558	M6354.3	.....	5048
M6158.5	.....	6092	M6217.4	.....	5848	M6272.8	.....	5562	M6355	.....	5056
M6159	.....	6036	M6218.5	.....	5810	M6273	.....	5560	M6357	.....	5060
M6159.2	.....	6032	M6219	.....	5800	M6273.5	.....	5552	M6358	.....	5064
M6159.3	.....	6028	M6221	.....	5804	M6274	.....	5564	M6358.1	.....	5068
M6159.4	.....	6016	M6221.2	.....	5808	M6274.4	.....	5568	M6359	.....	5072
M6159.45	.....	6018	M6224	.....	5792	M6274.8	.....	5566	M6359.5	.....	5055
M6159.5	.....	6024	M6225	.....	5790	M6275	.....	4924	M6360	.....	5076
M6160	.....	6012	M6226	.....	5784	M6275.5	.....	4922	M6361	.....	5084
M6160.2	.....	6020	M6228	.....	5778	M6276	.....	4920	M6362	.....	5080
M6160.3	.....	6055	M6230	.....	5780	M6276.1	.....	4928	M6368	.....	5092
M6160.4	.....	6054	M6233	.....	5774	M6276.3	.....	4938	M6370.09	.....	5095
M6160.5	.....	6050	M6234	.....	5772	M6276.4	.....	4932	M6372	.....	5132
M6160.6	.....	6056	M6234.5	.....	5770	M6276.6	.....	4939	M6376	.....	5128
M6161	.....	6076	M6234.6	.....	5769	M6277	.....	4952	M6377	.....	5140
M6161.2	.....	6082	M6234.7	.....	5768	M6277.4	.....	4956	M6377.25	.....	5142
M6161.3	.....	6080	M6234.73	.....	5766	M6278.1	.....	4948	M6377.5	.....	5141
M6161.4	.....	6084	M6234.8	.....	5764	M6278.5	.....	4950	M6378	.....	5136
M6161.5	.....	6008	M6235	.....	5760	M6279.6	.....	4940	M6379.4	.....	5094
M6161.6	.....	6044	M6235.1	.....	5762	M6280	.....	5488	M6380	.....	5144
M6161.7	.....	6048	M6235.5	.....	5756	M6281.1	.....	5492	M6390	.....	5146
M6161.8	.....	6040	M6236	.....	5752	M6281.2	.....	5496	M6395	.....	5147
M6161.9	.....	6006	M6236.2	.....	5754	M6281.7	.....	5486	M6400.6	.....	5148
M6162	.....	6000	M6236.3	.....	5753	M6282	.....	5476	M6400.61	.....	5152
M6162.3	.....	6004	M6237	.....	5748	M6284	.....	5480	M6401	.....	5156
M6163	.....	5984	M6238	.....	5746	M6286	.....	5500	M6401.2	.....	5160
M6163.4	.....	5972	M6239	.....	5744	M6290	.....	5548	M6401.3	.....	5164
M6163.6	.....	5988	M6239.4	.....	5736	M6291	.....	5546	M6401.32	.....	5168
M6164	.....	5980	M6239.5	.....	5740	M6292	.....	5536	M6401.4	.....	5172
M6164.4	.....	5992	M6241	.....	5732	M6293	.....	5544	M6401.45	.....	5170
M6178	.....	5968	M6244	.....	5724	M6293.3	.....	5540	M6401.47	.....	5171
M6180	.....	5964	M6244.5	.....	5726	M6294	.....	5532	M6401.5	.....	5180
M6192.3	.....	5962	M6248	.....	5708	M6295	.....	5528	M6401.6	.....	5176
M6193	.....	5960	M6248.4	.....	5704	M6296	.....	5524	M6401.64	.....	5182
M6194.2	.....	5944	M6249	.....	5700	M6297	.....	5522	M6402	.....	5188
M6194.4	.....	5948	M6249.4	.....	5692	M6300	.....	5504	M6406	.....	5184
M6194.5	.....	5952	M6249.5	.....	5696	M6300.4	.....	5512	M6407	.....	5204
M6194.7	.....	5940	M6263	.....	5668	M6300.6	.....	5520	M6411	.....	5200
M6195	.....	5936	M6264	.....	5624	M6302	.....	5516	M6413	.....	5192
M6195.4	.....	5932	M6264.2	.....	5628	M6302.4	.....	5472	M6417.2	.....	5210
M6195.6	.....	5920	M6265	.....	5632	M6303	.....	5468	M6417.3	.....	5211
M6196	.....	5928	M6265.1	.....	5636	M6304	.....	5464	M6417.4	.....	5212
M6196.4	.....	5916	M6266	.....	5640	M6308	.....	5448	M6418	.....	5216
M6196.5	.....	5924	M6266.4	.....	5644	M6309	.....	5444	M6418.2	.....	5220
M6196.54	.....	5926	M6267.4	.....	5652	M6311	.....	5440	M6418.4	.....	5224
M6196.6	.....	5908	M6267.5	.....	5648	M6314	.....	5432	M6418.41	.....	5228
M6196.7	.....	5912	M6267.6	.....	5656	M6318	.....	5428	M6419.2	.....	5244
M6197	.....	5900	M6267.64	.....	5660	M6323	.....	5424	M6420	.....	5236
M6197.2	.....	5904	M6267.68	.....	5662	M6326	.....	5420	M6421.8	.....	5246
M6197.6	.....	5896	M6267.69	.....	5663	M6328	.....	5412	M6424	.....	5254
M6198	.....	5888	M6267.7	.....	5664	M6329	.....	5406	M6426	.....	5256
M6199	.....	5884	M6268.2	.....	5616	M6332	.....	5404	M6427.17	.....	5268
M6200	.....	5880	M6268.4	.....	5620	M6333	.....	5400	M6427.19	.....	5272
M6201.5	.....	5870	M6268.8	.....	5612	M6336	.....	5398	M6427.8	.....	5284
M6201.8	.....	5866	M6268.9	.....	5608	M6338	.....	5388	M6428	.....	5292
M6202	.....	5868	M6269	.....	5604	M6339	.....	5392	M6429	.....	5288
M6204	.....	5864	M6269.2	.....	5600	M6340	.....	5396	M6430	.....	5304
M6206	.....	5860	M6269.22	.....	5602	M6340.5	.....	5394	M6430.5	.....	5301
M6207	.....	5858	M6269.27	.....	5592	M6342	.....	5384	M6431	.....	5296
M6208	.....	5874	M6269.3	.....	5588	M6343	.....	5368	M6432	.....	5300
M6208.7	.....	5875	M6269.5	.....	5584	M6344	.....	5372	M6433	.....	5308
M6209.5	.....	5873	M6269.6	.....	5580	M6345	.....	5376	M6433.6	.....	5312
M6210	.....	5872	M6270	.....	5572	M6347	.....	5364	M6434.2	.....	5316
M6216	.....	5852	M6270.4	.....	5576	M6349	.....	5380	M6434.5	.....	5320
M6216.4	.....	5856	M6272	.....	5556	M6354	.....	5044	M6434.67	.....	5356

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M6434.9		5340	M6479		4788	M6516.85		4497	M6567.3		4254
M6434.95		5336	M6482		4752	M6517		4488	M6567.4		4272
M6435		5332	M6482.2		4768	M6517.4		4480	M6567.48		4246
M6439.4		5116	M6482.4		4764	M6517.45		4484	M6567.5		4252
M6439.41		5120	M6483		4756	M6517.46		4479	M6568		4240
M6440		5124	M6483.4		4760	M6517.47		4478	M6570		4236
M6440.4		5110	M6491		4776	M6517.5		4476	M6571		4216
M6440.6		5108	M6491.4		4750	M6518		4472	M6572		4214
M6440.8		5106	M6491.41		4750.1	M6520		4432	M6578		4224
M6441		5096	M6492		4744	M6520.5		4434	M6579		4220
M6442		5100	M6492.4		4741	M6521		4452	M6581		4208
M6443		5104	M6493.2		4740	M6521.05		4457.5	M6582		4172
M6443.5		5055.5	M6494.2		4732	M6521.1		4464	M6582.2		4176
M6443.8		5053	M6495		4720	M6521.2		4460	M6582.4		4180
M6443.9		5052.5	M6495.3		4708	M6521.25		4457	M6582.6		4184
M6444		5052	M6495.4		4728	M6521.32		4458	M6582.9		4196
M6444.5		5051	M6495.45		4710	M6521.35		4456	M6583.3		4204
M6445		5040	M6495.5		4704	M6521.4		4448	M6583.4		4206
M6445.5		5036	M6495.6		4702	M6521.5		4454	M6583.5		4188
M6446.5		5030	M6495.8		4688	M6522		4444	M6583.7		4192
M6447		5028	M6495.9		4684	M6523		4442	M6584		4166
M6448		5020	M6496		4692	M6530		4428	M6586		4164
M6448.4		5024	M6496.02		4700	M6531		4424	M6586.2		4162
M6451		5012	M6496.03		4696	M6532		4412	M6586.4		4160
M6451.2		5016	M6496.04		4680	M6533		4408	M6586.6		4156
M6452		5004	M6496.1		4676	M6533.4		4400	M6587		4152
M6455		5000	M6496.2		4672	M6533.6		4404	M6588		4148
M6456		4992	M6496.3		4668	M6533.8		4416	M6588.2		4144
M6457		4984	M6496.6		4660	M6533.81		4420	M6588.4		4140
M6457.1		4988	M6497		4664	M6534		4380	M6589		4136
M6457.4		4990	M6498.2		4656	M6535.2		4384	M6589.25		4108
M6458		4980	M6499		4652	M6537		4376	M6589.3		4113
M6459		4912	M6499.8		4632	M6538		4372	M6589.4		4132
M6459.1		4916	M6500		4636	M6540		4368	M6589.8		4128
M6461		4900	M6500.4		4612	M6540.5		4366	M6592		4116
M6462		4904	M6500.6		4620	M6541		4364	M6593		4100
M6463		4890	M6502		4624	M6542		4349	M6593.2		4104
M6465		4888	M6502.8		4644	M6544		4348	M6593.3		4098
M6465.4		4892	M6503		4640	M6545		4352	M6594		4096
M6466		4880	M6503.5		4648	M6545.5		4360	M6594.5		4092
M6466.6		4882	M6504		4608	M6545.7		4354	M6595		4084
M6467.4		4876	M6505		4604	M6546		4344	M6595.04		4088
M6468		4872	M6505.4		4592	M6547		4336	M6595.1		4060
M6468.2		4868	M6505.6		4588	M6548		4340	M6595.15		4058
M6468.4		4860	M6507		4584	M6549		4320	M6595.2		4076
M6468.41		4864	M6507.4		4580	M6549.5		4324	M6595.4		4068
M6469		4848	M6508		4560	M6549.8		4334	M6595.5		4064
M6469.2		4852	M6509.6		4564	M6554		4304	M6595.7		4072
M6469.4		4856	M6511		4556	M6555		4316	M6596		4040
M6470		4836	M6512		4552	M6555.2		4308	M6597		4048
M6470.1		4844	M6513		4550	M6555.21		4312	M6597.2		4056
M6470.14		4840	M6514.2		4536	M6556		4300	M6597.3		4052
M6470.2		4828	M6514.3		4542	M6557		4296	M6597.35		4044
M6470.3		4832	M6514.6		4524	M6558		4292	M6597.6		4036
M6470.7		4824	M6514.8		4532	M6560		4284	M6598		4028
M6470.8		4826	M6514.9		4528	M6560.2		4285	M6599		4026
M6470.9		4818	M6514.95		4520	M6561		4288	M6600		4025
M6471		4816	M6514.96		4512	M6561.6		4282	M6602		4024
M6471.03		4812	M6514.97		4516	M6562		4280	M6603		4020
M6471.1		4804	M6515		4504	M6564		4276	M6603.5		4018
M6471.11		4808	M6515.2		4508	M6566		4268	M6604		4016
M6472		4800	M6515.4		4500	M6566.5		4256	M6604.1		4015
M6477		4796	M6516		4496	M6567		4248	M6604.2		4014
M6478		4780	M6516.7		4499	M6567.2		4260	M6604.5		4012
M6478.4		4784	M6516.8		4498	M6567.21		4264	M6605		4008

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M6605.25		4006	M6638		3810	M6722		880	M6774		660
M6605.4		4000	M6638.4		3809	M6724		876	M6774.3		658
M6605.8		3996	M6639.5		3806	M6724.4		868	M6774.4		652
M6606		3992	M6639.6		3808	M6725		864	M6774.6		648
M6607		3988	M6640		3804	M6727		860	M6775		644
M6607.4		3986	M6640.2		3802	M6727.4		860.5	M6776		640
M6607.5		3984	M6640.25		3800	M6728.5		858	M6777		632
M6607.8		3983	M6640.4		3790	M6729		856	M6777.5		636
M6608		3972	M6641		3780	M6730		852	M6778		628
M6609		3980	M6641.2		3788	M6730.3		851	M6780		626
M6610		3976	M6641.4		3778	M6730.5		850	M6781		620
M6610.3		3978	M6641.6		3776	M6731		848	M6783		624
M6610.6		3982	M6641.7		3772	M6732		844	M6784		616
M6612		3956	M6642		3768	M6733		836	M6786		604
M6612.1		3960	M6642.5		3764	M6734		842	M6788		608
M6613		3964	M6643		3760	M6735		832	M6789		612
M6613.3		3968	M6643.2		3744	M6737		830	M6790		602
M6614		3952	M6643.5		3740	M6738		828	M6791		600
M6615		3948	M6645.5		3736	M6740		812	M6792		596
M6618		3944	M6646		3731.5	M6740.5		814	M6794		590
M6618.4		3942	M6647.5		3734	M6741		816	M6794.5		589
M6619		3941	M6648		3731	M6741.05		816.5	M6797		584
M6620		3896	M6650.5		3728	M6741.1		818	M6798		588
M6621		3900	M6650.7		3726	M6741.2		820	M6799		578
M6622		3920	M6651		3724	M6741.25		820.5	M6802		576
M6623		3924	M6654		3716	M6741.3		824	M6803		572
M6623.2		3928	M6656		3720	M6741.35		811	M6807.5		556
M6623.6		3922	M6657		3712	M6741.4		810	M6808		560
M6624		3936	M6657.5		3714	M6741.5		808	M6809		562
M6624.4		3940	M6658		3708	M6742		796	M6810		564
M6624.7		3916	M6662		3704	M6742.4		800	M6811.7		554
M6624.8		3904	M6662.5		3707	M6744		792	M6812		552
M6624.85		3906	M6663		3706	M6744.2		790.5	M6812.4		548
M6625		3892	M6668		3696	M6744.5		788	M6813		544
M6625.5		3908	M6672		3692	M6745		688	M6814		516
M6625.7		3884	M6673		3688	M6745.5		692	M6814.1		522
M6626		3888	M6684		988	M6746		708	M6814.2		520
M6627		3880	M6686		992	M6746.4		704	M6814.3		542
M6627.3		3878	M6690		964	M6746.6		696	M6814.4		540
M6628		3860	M6691		968	M6747		712	M6814.5		529
M6628.4		3872	M6691.2		960.5	M6748		724	M6815		524
M6628.8		3856	M6692		960	M6749		716	M6816		536
M6630		3852	M6693		956	M6750		720	M6816.4		532
M6631		3848	M6695		948	M6754.3		736	M6822		512
M6631.2		3847	M6696		952	M6754.31		740	M6826		508
M6631.4		3845	M6698		944	M6755		748	M6826.5		510
M6631.5		3846	M6700		940	M6755.1		752	M6828		500
M6631.6		3846.5	M6701		936	M6756		744	M6828.4		502
M6631.8		3846.1	M6701.5		934	M6762		756	M6829		504
M6632		3840	M6702		928	M6762.1		760	M6830		492
M6633		3844	M6702.5		932	M6763		764	M6830.4		498
M6633.5		3836	M6703		924	M6763.1		768	M6831		496
M6633.6		3835	M6704		920	M6768		772	M6834		488
M6633.8		3834	M6704.5		922	M6768.1		776	M6834.3		486
M6634		3828.6	M6706		900	M6769		780	M6834.5		484
M6634.5		3832	M6707		904	M6769.1		784	M6835		480
M6635		3830	M6707.4		908	M6770		680	M6835.5		478
M6635.4		3833	M6707.5		898	M6770.3		684	M6836		472
M6636		3828.2	M6708		912	M6772		676	M6837		476
M6636.2		3828.4	M6714		916	M6773		664	M6837.5		474
M6636.3		3828	M6715		896	M6773.1		674	M6837.7		470
M6636.4		3818	M6716		892	M6773.3		675	M6838.4		469
M6636.7		3816	M6718		888	M6773.4		668	M6839		460
M6637		3812	M6719		884	M6773.7		672	M6839.2		468
M6637.4		3811	M6720		882	M6773.75		673	M6839.4		464

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M6839.6		458	M6902.4		1488	M6979		1231.5	M7042		972
M6840		448	M6903.4		1492	M6980		1232	M7044		976
M6842		452	M6904		1486	M6981.2		1231.2	M7048		3680
M6845		444	M6905		1486.5	M6981.4		1230	M7052		3672
M6847		440	M6905.2		1480	M6981.41		1231	M7052.5		3674
M6850		436	M6906		1474	M6988		1224	M7053		3676
M6852		432	M6907		1472	M6989		1228	M7053.3		3670
M6853		438	M6908		1428	M6992		1220	M7053.6		3668
M6854		439	M6908.4		1432	M6995		1216	M7053.8		3664
M6856		388	M6909		1424	M6996		1212	M7054		3660
M6856.5		392	M6910		1436	M6997.5		1210	M7054.4		3658
M6856.7		396	M6910.5		1444.5	M6998		1196	M7055		3652
M6857		400	M6910.7		1440	M6998.4		1204	M7055.1		3644
M6857.4		402	M6911		1448	M6998.6		1200	M7055.12		3646
M6857.5		404	M6911.2		1466	M6999.4		1208	M7055.14		3648
M6858		424	M6912		1460	M7001		1188	M7055.2		3640
M6859		412	M6912.4		1464	M7002		1184	M7055.5		3636
M6861		416	M6913		1452	M7003		1180	M7055.8		3632
M6861.2		420	M6913.5		1462	M7004		1172	M7055.9		3628
M6861.4		426	M6914		1433	M7004.5		1178	M7056		3624
M6861.5		428	M6915		1372	M7005		1176	M7056.3		3622
M6862		308	M6917		1378	M7005.2		1168	M7057		3612
M6863		430	M6919		1420	M7005.5		1164	M7057.2		3620
M6866		296	M6922		1416	M7005.7		1160	M7057.4		3608
M6870		304	M6922.4		1412	M7006		1152	M7058		3604
M6872		300	M6923		1408	M7008		1156	M7058.8		3600
M6876		294	M6923.6		1404	M7009		1148	M7058.9		3596
M6877		288	M6924		1400	M7010		1144	M7059.5		3592
M6878		292	M6925		1396	M7011		1140	M7059.6		3588
M6878.5		293	M6926		1392	M7012		1136	M7060		3584
M6882		280	M6927		1388	M7013		1132	M7061		3560
M6884		272	M6928		1380	M7013.2		1130	M7061.4		3562
M6884.3		271	M6930		1384	M7013.4		1128	M7062		3564
M6884.4		268	M6932		1368.5	M7014		1124	M7062.7		3574
M6884.6		270	M6934.1		1367	M7015		1120	M7063.3		3576
M6885		252	M6934.5		1356	M7016		1116	M7063.4		3572
M6886		256	M6935		1364	M7018		1112	M7063.5		3568
M6886.2		262	M6939		1336	M7018.5		1108	M7064		3580
M6886.4		260	M6941		1332	M7019		1100	M7066		3552
M6887		264	M6941.5		1350	M7019.4		1104	M7067		3556
M6889		248	M6942		1352	M7020		1096	M7069		3544
M6890		244	M6942.6		1344	M7021		1088	M7069.6		3540
M6892		236	M6942.8		1348	M7022		1080	M7070		3528
M6893.5		232	M6944		1324	M7023		1084	M7072		3520
M6893.6		228	M6945		1330	M7023.2		1076	M7072.4		3524
M6893.65		226	M6946		1328	M7023.3		1092	M7075		3516
M6893.7		224	M6953		1312	M7023.8		1072	M7075.5		3513
M6894.4		216	M6954		1308	M7024.4		1064	M7076		3504
M6894.5		212	M6954.4		1320	M7024.6		1068	M7076.1		3506
M6894.6		208	M6955		1316	M7025.2		1056	M7076.2		3512
M6895		204	M6957		1304	M7025.4		1052	M7076.3		3508
M6895.2		202	M6958		1300	M7026		1048	M7077		3496
M6895.4		200	M6959		1296	M7028		1032	M7077.4		3500
M6896		1524	M6960.6		1272	M7028.4		1044	M7080		3492
M6896.5		1536	M6960.8		1280	M7029		1036	M7082		3472
M6897		1532	M6961		1276	M7029.4		1040	M7082.5		3476
M6897.4		1522	M6962		1284	M7031		1024	M7083		3484
M6897.6		1520	M6970		1260	M7032.4		1016	M7085		3488
M6898		1516	M6972		1268	M7032.6		1008	M7086		3470
M6899		1512	M6972.2		1256	M7033		1012	M7087		3460
M6900		1508	M6972.4		1258	M7034		1004	M7087.1		3464
M6900.5		1510	M6973.5		1252	M7036		1000	M7087.35		3456.1
M6901		1476	M6974		1248	M7037		996	M7087.4		3456
M6901.2		1487	M6974.4		1244	M7039		984	M7087.8		3440
M6902		1484	M6975.5		1240	M7040		980	M7087.9		3444

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M7088		3428	M7125.5		3202	M7183.5		2982	M7239.7		2712
M7088.4		3432	M7128		3196	M7184		2972	M7240		2704
M7088.6		3436	M7132		3192	M7185		2960	M7240.2		2708
M7088.8		3424	M7132.5		3188	M7186		2964	M7240.3		2696
M7089		3416	M7132.8		3180	M7186.2		2968	M7240.4		2700
M7089.5		3420	M7133		3184	M7186.6		2956	M7240.5		2692
M7090		3412	M7134		3172	M7188		2944	M7240.7		2688
M7090.7		3405	M7135		3168	M7188.1		2940	M7241		2684
M7090.8		3406	M7136.5		3170	M7188.2		2936	M7241.5		2680
M7092		3272	M7136.6		3164	M7188.4		2948	M7242		2676
M7092.4		3276	M7136.7		3156	M7189		2932	M7242.6		2672
M7092.6		3280	M7136.8		3160	M7189.4		2928	M7243		2668
M7093		3284	M7136.9		3152	M7189.6		2924	M7243.5		2666
M7093.5		3286	M7137		3148	M7190		2920	M7243.7		2640
M7094		3292	M7137.2		3144	M7190.8		2916	M7243.75		2636
M7094.4		3290	M7137.6		3140	M7192.4		2912	M7243.8		2632
M7095		3288	M7142		3132	M7192.6		2914	M7244		2628
M7096		3296	M7144		3136	M7194		2904	M7245		2624
M7096.5		3300	M7144.4		3124	M7194.5		2902	M7245.5		2620
M7097		3304	M7144.5		3128	M7195		2896	M7246		2600
M7098		3308	M7145		3120	M7195.4		2900	M7247		2604
M7099		3310	M7147		3116	M7195.8		2892	M7248.2		2616
M7100.2		3312	M7148		3108	M7195.9		2876	M7249		2596
M7101.5		3315	M7149		3112	M7195.95		2880	M7249.6		2592
M7102		3316	M7150.5		3100	M7196		2888	M7250		2588
M7102.5		3320	M7150.6		3098	M7198		2872	M7250.5		2584
M7102.7		3214	M7151		3096	M7199		2884	M7250.6		2585
M7103		3216	M7151.4		3092	M7200		2856	M7251		2580
M7103.08		3218	M7151.6		3104	M7201		2860	M7251.4		2576
M7103.3		3220	M7151.8		3090	M7201.4		2864	M7251.6		2572
M7103.5		3224	M7152		3084	M7201.6		2868	M7252		2556
M7103.51		3226	M7154		3088	M7202		2852	M7252.4		2560
M7103.52		3222	M7156		3080	M7204		2836	M7252.7		2568
M7103.6		3228	M7160		3056	M7206		2840	M7252.8		2564
M7104		3232	M7160.4		3060	M7207		2844	M7254		2548
M7104.4		3236	M7160.6		3064	M7209		2832	M7254.4		2544
M7104.5		3240	M7160.9		3072	M7210		2830	M7254.6		2552
M7104.7		3244	M7160.92		3068	M7212		2828	M7254.7		2554
M7105		3248	M7161.3		3076	M7212.4		2824	M7255		2540
M7106		3256	M7162.2		3066	M7213		2820	M7255.4		2538
M7106.2		3258	M7162.3		3065	M7214		2812	M7256.6		2528
M7106.4		3252	M7162.4		3064.1	M7216		2816	M7257		2536
M7107		3260	M7164.5		3052	M7220		2792	M7257.2		2532
M7107.4		3264	M7166		3044	M7221		2804	M7258		2504
M7107.6		3268	M7166.5		3048	M7221.1		2808	M7259		2516
M7108.2		3388	M7166.75		3046	M7221.3		2790	M7260		2512
M7108.4		3396	M7167.4		3040	M7221.4		2791	M7261		2520
M7108.6		3392	M7168		3036	M7221.6		2788	M7262		2518
M7109		3380	M7169		3032	M7224		2780	M7267		2500
M7110		3384	M7169.5		3030	M7225		2772	M7268.8		2497
M7110.5		3352	M7170		3028	M7226		2776	M7269.4		2488
M7111.2		3356	M7170.5		3024	M7230		2768	M7269.45		2486
M7112		3360	M7171		3020	M7232		2752	M7269.5		2492
M7113		3372	M7171.4		3016	M7232.4		2764	M7269.6		2496
M7116		3376	M7171.8		2994	M7233		2760	M7269.7		2484
M7116.5		3370	M7172		2992	M7233.2		2756	M7270		2480
M7116.8		3350	M7172.4		2988	M7234		2744	M7271.4		2476
M7117		3348	M7173		2984	M7234.4		2748	M7271.6		2472
M7117.4		3344	M7174		2996	M7236		2740	M7272		2468
M7118		3340	M7174.5		3000	M7236.4		2736	M7273		2464
M7118.4		3332	M7177		3004	M7237		2720	M7274		2456
M7119		3328	M7180		3008	M7237.2		2732	M7274.1		2460
M7119.5		3326	M7182.2		3014	M7237.4		2728	M7274.2		2452
M7120		3324	M7182.6		2980	M7238		2724	M7274.4		2448
M7125		3200	M7183		2976	M7239.5		2716	M7274.5		2444

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M7274.7		2443	M7304		2212	M7328		1972	M7368		1764
M7275		2440	M7305		2204	M7331		1960	M7369.6		1760
M7276		2428	M7306		2192	M7331.5		1964	M7370		1748
M7277		2432	M7307		2196	M7332		1958	M7372.4		1754
M7278		2436	M7308		2200	M7333		1956	M7374		1758
M7278.6		2412	M7314		2016	M7333.2		1952	M7377		1628
M7279		2416	M7315		2020	M7333.5		1944	M7378		1632
M7279.1		2420	M7315.2		2024	M7333.7		1948	M7378.2		1634
M7279.2		2424	M7315.4		2028	M7334		1936	M7378.6		1640
M7280		2400	M7315.6		2168	M7335		1940	M7378.8		1644
M7280.2		2401.01	M7316		2172	M7336		1924	M7378.9		1648
M7280.21		2401	M7317		2176	M7336.4		1928	M7379		1636
M7280.3		2401.1	M7318		2010	M7337		1932	M7380		1684
M7280.4		2408	M7318.4		2012	M7337.6		1922	M7381.8		1656
M7280.7		2402	M7318.6		2008	M7338		1916	M7381.9		1660
M7281		2376	M7318.8		2006	M7339		1920	M7382		1652
M7281.5		2380	M7319.5		2076	M7341		1904	M7382.2		1664
M7282		2392	M7319.7		2072	M7341.2		1912	M7384		1668
M7283		2396	M7319.75		2070	M7341.4		1900	M7386		1680
M7283.2		2372	M7319.77		2069	M7342		1888	M7388		1620
M7283.3		2384	M7319.8		2068	M7343		1892	M7389		1672
M7283.4		2368	M7320		2064	M7343.6		1884	M7389.5		1624
M7283.5		2360	M7320.2		2056	M7345		1876	M7390.5		1616
M7283.51		2364	M7320.4		2060	M7346		1868	M7391		1612
M7283.52		2352	M7320.8		2052	M7346.2		1872	M7392		1604
M7283.54		2356	M7321.1		2048	M7346.4		1864	M7394		1600
M7283.57		2340	M7321.12		2046	M7346.5		1860	M7394.2		1596
M7283.58		2348	M7321.14		2044	M7347		1856	M7395		1592
M7283.59		2344	M7321.16		2040	M7347.4		1852	M7395.2		1594
M7283.6		2332	M7321.2		2032	M7348		1824	M7395.4		1576
M7283.7		2336	M7321.25		2036	M7348.5		1844	M7395.6		1580
M7283.8		2328	M7321.3		2088	M7349		1828	M7395.8		1588
M7283.84		2324	M7321.4		2084	M7349.15		1832	M7396		1584
M7283.85		2320	M7321.42		2082	M7349.2		1840	M7397		1568
M7283.9		2308	M7321.5		2080	M7349.3		1838	M7397.5		1570
M7283.94		2316	M7321.7		2152	M7351		1848	M7399		1564
M7283.96		2312	M7321.74		2164	M7351.5		1820	M7399.2		1566.1
M7284		2300	M7321.77		2148	M7352.4		1804	M7399.5		1566
M7285		2304	M7321.8		2166	M7353		1816	M7400		1560
M7285.5		2298	M7321.9		2160	M7354		1812	M7401		1556
M7286		2296	M7321.94		2156	M7355		1808	M7402		1552
M7286.4		2292	M7322		2136	M7357		1800	M7420		16198
M7287		2288	M7322.6		2132	M7358		1788	M7420.01		16198.1
M7287.5		2276	M7322.8		2140	M7358.4		1792	M7422		16196
M7287.6		2286	M7323		2092	M7358.41		1796	M7428		16192
M7287.7		2280	M7323.2		2096	M7359		1784	M7430		16188
M7288.6		2264	M7323.21		2098	M7360		1780	M7434		16172
M7288.8		2268	M7323.24		2100	M7360.4		1776	M7435.5		16170.3
M7288.9		2260	M7323.36		2120	M7360.5		1740	M7436		16170.4
M7289		2256	M7323.4		2116	M7360.6		1736	M7438		16170.35
M7289.1		2252	M7323.44		2124	M7360.7		1732	M7440		16170.25
M7289.14		2248	M7323.5		2104	M7360.8		1724	M7440.1		16170.26
M7289.2		2236	M7323.6		2128	M7360.85		1730	M7470		16166
M7289.3		2244	M7323.7		2112	M7360.9		1728	M7471		16167
M7289.4		2240	M7323.8		2108	M7361		1692	M7472		16169
M7290.2		2232	M7324		2004	M7361.2		1726	M7472.01		16169.1
M7292		2224	M7324.4		2000	M7361.4		1720	M7472.02		16169.2
M7293		2220	M7324.5		1996	M7362		1696	M7473		16169.3
M7293.5		2216	M7324.6		1992	M7362.5		1722	M7474		16169.7
M7294		2180	M7324.7		1988	M7363.6		1704	M7474.01		16169.8
M7294.5		2182	M7325		1976	M7363.7		1712	M7478		16169.91
M7296		2184	M7325.4		1980	M7363.8		1708	M7479		16169.92
M7297		2188	M7326		1984	M7364		1716	M7480		16170
M7298		2190	M7327		1971	M7364.5		1723	M7480.01		16170.1
M7300		2208	M7327.5		1968	M7365		1688	M7482		16170.18

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M7498	16160	M7660	15796	M7840	165	M8049	344
M7502	.....	16052	M7670	.....	15776	M7841.5	.....	166	M8049.3	.....	345
M7503	.....	16053	M7674	.....	15768	M7842	.....	168	M8049.5	.....	346
M7504	.....	16054	M7675	.....	15761.3	M7846	.....	170	M8050	.....	348
M7528	.....	16056	M7676	.....	15761.4	M7847	.....	172.5	M8050.5	.....	349
M7538	.....	16008	M7676.5	.....	15761.35	M7848	.....	172	M8051	.....	352
M7558	.....	16004	M7677	.....	15761	M7870	.....	174	M8051.5	.....	354
M7562	.....	15948	M7677.1	.....	15761.1	M7875	.....	180	M8052	.....	360
M7563	.....	15952	M7677.5	.....	15761.2	M7876	.....	184	M8053	.....	356
M7563.2	.....	15944	M7677.51	.....	15761.21	M7876.1	.....	188	M8054	.....	372
M7563.4	.....	15992	M7678	.....	15760	M7884	.....	196	M8054.2	.....	376.5
M7563.41	.....	15996	M7679	.....	15587	M7885	.....	192	M8054.5	.....	376
M7563.6	.....	16000	M7679.4	.....	15584.45	M7885.1	.....	193	M8054.6	.....	379
M7564	.....	15960	M7679.41	.....	15584.46	M7890	.....	194	M8054.7	.....	380.5
M7564.1	.....	15964	M7679.5	.....	15744.2	M7902	.....	15588	M8056	.....	384
M7566	.....	15968	M7679.51	.....	15744.21	M7902.5	.....	195	M8056.2	.....	384.5
M7566.1	.....	15972	M7680	.....	15744.26	M7903	.....	15590	M8056.5	.....	385
M7567	.....	15956	M7680.1	.....	15744.27	M7904	.....	15589	M8057	.....	386
M7567.9	.....	15958.05	M7685	.....	15744.51	M7910	.....	15585	M8057.6	.....	456
M7567-7	.....	15958	M7685.1	.....	15744.52	M7920	.....	195.5	M8057.8	.....	456.5
M7568	.....	15958.07	M7685.2	.....	15744.53	M7982	.....	15744.45	M8058	.....	364
M7568.05	.....	15958.08	M7686	.....	15744.6	M7982.1	.....	15744.4	M8059	.....	366
M7568.1	.....	15958.1	M7686.1	.....	15744.61	M7982.11	.....	15744.41	M8060	.....	368
M7568.11	.....	15958.11	M7700	.....	15744	M7982.2	.....	15744.36	M8062	.....	15520
M7568.2	.....	15958.2	M7703	.....	15740	M7982.3	.....	15745.15	M8063	.....	15525
M7568.21	.....	15958.21	M7706	.....	162	M7982.31	.....	15745.16	M8063.5	.....	15526
M7568.4	.....	15965.1	M7707	.....	161	M7982.35	.....	15745.2	M8064	.....	15516
M7568.5	.....	15965	M7708	.....	160	M7982.351	.....	15745.21	M8065	.....	15442.7
M7569	.....	15940	M7709	.....	156	M7982.4	.....	15745	M8066	.....	15442.5
M7570	.....	15942	M7709.2	.....	157	M7982.41	.....	15745.1	M8067	.....	15442
M7572	.....	15936	M7709.4	.....	148	M7985	.....	15584	M8068	.....	15441.6
M7573	.....	15934	M7709.41	.....	152	M7986	.....	15582	M8069	.....	15441
M7574	.....	15926	M7711	.....	140	M8006	.....	15569	M8070.5	.....	15441.3
M7576	.....	15924	M7711.5	.....	132	M8007	.....	15568	M8076	.....	15440.5
M7578	.....	15920	M7712	.....	136	M8008	.....	15566.55	M8096	.....	15440
M7579	.....	15909.5	M7713	.....	108	M8008.1	.....	15566.2	M8102	.....	15432
M7579.5	.....	15909	M7713.1	.....	112	M8008.2	.....	15566	M8108	.....	15428
M7581	.....	15908	M7714	.....	124, 15720	M8009	.....	15564	M8120	.....	15424
M7584	.....	15900	M7714.2	.....	128, 15720.1	M8009.5	.....	15564.1	M8125	.....	15420
M7588	.....	15896	M7716	.....	104	M8010	.....	15561.1	M8126	.....	15416
M7596	.....	15880	M7738	.....	100	M8010.5	.....	15561.12	M8128	.....	15408
M7604	.....	15868	M7746	.....	56	M8011	.....	15562	M8129	.....	15410
M7608	.....	15864	M7748	.....	76	M8011.5	.....	15563	M8130	.....	15412
M7610	.....	15860	M7750	.....	80	M8012	.....	15562.2	M8150	.....	15348
M7612	.....	15856	M7752	.....	60	M8012.1	.....	15562.21	M8153	.....	15352
M7613	.....	15854	M7752.1	.....	64	M8013	.....	15561.4	M8157	.....	15353
M7614	.....	15852	M7753	.....	68	M8015	.....	15561	M8157.1	.....	15353.1
M7616	.....	15848	M7753.1	.....	72	M8021	.....	15560	M8157.5	.....	15353.5
M7617	.....	15844	M7754	.....	84	M8022	.....	15553.15	M8159	.....	15356
M7618	.....	15840	M7754.3	.....	92	M8024	.....	15553.1	M8169	.....	15345
M7622	.....	15836	M7754.5	.....	96	M8026	.....	15553.05	M8169.1	.....	15345.01
M7626	.....	15832	M7778	.....	44	M8028	.....	15553	M8172	.....	15344
M7630	.....	15828	M7778.1	.....	48	M8030	.....	15552	M8172.5	.....	15340
M7634	.....	15824	M7788	.....	36	M8036	.....	15532	M8173	.....	15336
M7636	.....	15820	M7794	.....	16	M8037.5	.....	15530	M8176	.....	15328
M7640	.....	15812	M7796	.....	20	M8038	.....	15528	M8178	.....	15332
M7642	.....	15798	M7800	.....	12	M8041	.....	316, 322	M8180	.....	15320
M7643	.....	15784	M7802	.....	8	M8041.5	.....	15522	M8182	.....	15324
M7650	.....	15786	M7804	.....	4	M8042	.....	320	M8183	.....	15317
M7651	.....	15788	M7806	.....	2	M8043	.....	15538	M8183.1	.....	15317.5
M7652	.....	15790	M7810	.....	162.3	M8044.1	.....	322.1	M8186	.....	15316
M7653	.....	15792	M7828	.....	162.4	M8045	.....	323	M8188	.....	15312
M7653.1	.....	15792.2	M7830	.....	164	M8046	.....	324	M8190	.....	15308
M7653.2	.....	15792.4	M7831	.....	162.5	M8047	.....	326	M8192	.....	15304
M7654	.....	15794	M7832	.....	162.7	M8048	.....	340	M8193	.....	15303

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M8194		15302	P3341		20151	P3359.99		20012.15	P3404.3		19995.1
M8194.2		15289.3	P3342		20148	P3360		20004	P3404.6		19993
M8194.8		15289.7	P3342.73		20146	P3360.1		20008	P3404.9		19995
M8195		15289.1	P3342.74		20147	P3360.4		20010	P3405		19992
M8196		15300	P3343.3		20145	P3360.41		20012	P3405.5		19988
M8208		15284	P3346		20132	P3360.415		20012.1	P3405.6		19986
M8210		15289	P3347		20136	P3360.43		20002	P3405.85		19985
M8211		15283	P3347.1		20140	P3364		20013.7	P3406		19984
M8212		15282	P3347.3		20144	P3368		20016	P3406.5		19984.5
M8214		15280	P3347.4		20144.1	P3368.1		20020	P3406.9		19987
M8216		15281	P3347.95		20131	P3368.2		20013.5	P3407		19980
M8217		15281.1	P3348		20130.5	P3368.64		20012.7	P3407.48		19888
M8220		15272	P3348.1		20124	P3368.81		20021	P3416		19640
M8226		15268	P3348.23		20128.1	P3368.82		20021.1	P3420		19720
M8232		15260	P3348.3		20128	P3370		20013	P3420.5		19723
M8346		4964, 4968	P3348.35		20122	P3372.1		20014	P3424		19648
M8347		4962	P3348.4		20120	P3374		20024	P3426		19656
M8348		4960	P3348.43		20212.6	P3374.1		20028	P3427		19644
M8350		4972	P3348.44		20212.5	P3375		20029	P3427.1		19644.2
M8351		4974	P3348.46		20212	P3378		20032	P3427.2		19660
M8360		4976	P3348.5		20208	P3378.1		20036	P3427.5		19658
P3196		20288	P3348.6		20204	P3378.19		20028.5	P3428		19664
P3197.5		20280	P3348.65		20203	P3378.2		20028.55	P3429		19668
P3199.5		20284	P3348.8		20200	P3378.3		20023	P3430		19672
P3316		20215	P3348.92		20199	P3378.35		20065.3	P3432		19676
P3316.1		20095	P3348.93		20198	P3378.4		20022	P3432.5		19684
P3316.3		20213	P3349		20196	P3378.5		20022.5	P3432.51		19680
P3316.8		20093.56	P3350		20194	P3379		20056	P3433		19687
P3316.82		20093.55	P3350.2		20194.5	P3379.1		20060	P3434		19690
P3319		20093.8	P3350.4		20194.6	P3379.92		20038	P3435		19696
P3319.3		20093.6	P3350.5		20195	P3379.928		20038.5	P3435.2		19702
P3319.4		20093.65	P3351		20195.5	P3379.93		20039	P3435.4		19693
P3319.5			P3351.1		20195.51	P3379.95		20039.5	P3435.6		19699
20093.66		20093.7	P3352		20194.7	P3381		20048	P3442		19708
P3319.78		20093.5	P3356		20192	P3381.1		20052	P3448.5		19717
P3320		20092	P3357		20188	P3381.18		20046, 20053	P3449.4		19718.5
P3320.5		20087	P3357.5		20184	P3381.185		20054.1	P3449.57		19718
P3320.51		20087.1	P3357.75		20121.5	P3381.188		20054.15	P3449.58		19870
P3321		20088	P3357.78		20121	P3381.19		20054	P3449.59		19870.1
P3321.1		20088.1	P3357.82		20121.3	P3381.652		20065.1	P3449.63		19692.1
P3326		20096	P3357.85		20121.4	P3381.68		20065.5	P3452		19779
P3327		20100	P3357.88		20121.1	P3382		20076	P3456		19804
P3327.4		20103	P3357.9		20121.6	P3382.1		20080	P3456.1		19802
P3328		20104	P3357.96		20121.2	P3382.15		20080.1	P3456.11		19803
P3328.5		20105	P3358		20112	P3382.3		20082	P3457.4		19762
P3332		20106	P3358.1		20121.7	P3382.31		20082.1	P3457.41		19762.1
P3333		20107	P3358.44		20106.02	P3382.32		20082.12	P3458		19754
P3334		20116	P3358.45		20106.01	P3382.33		20082.11	P3458.1		19754.1
P3335.39		20117	P3358.5		20110	P3382.362		20082.2	P3459		19778
P3335.65		20121.8	P3359		20000	P3382.4		20083	P3461.5		19808.8
P3335.71		20106.04	P3359.1		20001	P3382.41		20083.1	P3462		19808.9
P3335.72		20106.03	P3359.16		20000.5	P3382.421		20084	P3464		19809.5
P3336		20108	P3359.18		19999.5	P3382.422		20084.1	P3464.5		19809
P3337		20164	P3359.22		19999	P3382.425		20083.2	P3465		19809.2,
P3337.1		20176	P3359.225		20001.5	P3382.426		20083.3	19810		
P3337.3		20180	P3359.275		20001.55	P3383.5		20067	P3465.24		19810.3
P3337.6		20168	P3359.3		20012.9	P3383.6		20067.2	P3465.25		19810.4
P3337.61		20172	P3359.58		20012.6	P3403.06		19997	P3465.305		19810.5
P3337.85		20163	P3359.62		20012.5	P3403.12		19998	P3465.306		19810.6
P3337.89		20162	P3359.63		20012.51	P3403.155		19996.1	P3465.307		19811.1
P3338.2		20160	P3359.65		20012.3	P3403.17		19996.2	P3465.308		19811.2
P3338.34		20157	P3359.72		20012.05	P3403.18		19996.4	P3465.309		19811.4
P3338.4		20156	P3359.75		20012.12	P3403.3		19996.3	P3465.39		19808.1
P3338.9		20153	P3359.9		20012.06	P3404		19996	P3465.41		19808
P3339		20152	P3359.98		20012.14	P3404.2		19995.3	P3465.451		19806

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
P3466		19812	P3523.22		19578.2	P3537.41		19483.25	P3577.8		19427.5
P3468.1		19815	P3523.23		19578.4	P3537.432		19483.3	P3577.84		19427
P3468.2		19815.1	P3523.24		19578.6	P3537.435		19483.31	P3577.86		19431
P3473.9		19820	P3523.25		19578.8	P3537.6		19504	P3578		19326
P3474		19824	P3523.26		19579	P3537.7		19508	P3578.3		19292
P3474.1		19828	P3523.38		19607.1	P3537.8		19445	P3578.4		19296
P3474.6		19829	P3523.4		19582	P3538		19460	P3580.6		19318
P3474.605		19829.1	P3523.5		19587	P3540.7		19483	P3580.7		19322
P3476		19832	P3523.53		19608	P3540.75		19483.1	P3580.88		19314
P3476.1		19836	P3523.55		19611	P3540.8		19482	P3580.9		19306
P3482		19840	P3523.58		19612	P3540.85		19482.1	P3580.93		19310
P3482.1		19844	P3523.6		19610	P3541		19480.5	P3580.94		19312
P3483		19848	P3523.8		19586	P3541.3		19480	P3580.95		19300
P3483.1		19852	P3524		19588	P3545.5		19476	P3580.98		19290
P3483.2		19856	P3524.5		19724	P3545.55		19476.2	P3581.218		19289
P3483.21		19860	P3525.5		19726	P3545.7		19476.4	P3581.228		19289.5
P3490		19864	P3525.6		19727	P3545.75		19476.6	P3581.284		19288.5
P3490.2		19872	P3526		19742	P3548		19473	P3581.298		19288
P3515		19590	P3526.2		19746	P3548.2		19473.3	P3581.345		19284
P3517		19590.5	P3526.25		19753	P3548.3		19473.6	P3581.35		19286
P3518		19590.6	P3526.5		19800	P3551		19400.2	P3582		19280
P3520		19594	P3526.6		19750	P3551.2		19400	P3584		19276
P3520.3		19593.1	P3526.8		19752	P3551.4		19400.1	P3585		19272
P3520.5		19593	P3526.9		19768	P3553		19400.4	P3586		19264
P3521		19606	P3527		19766	P3553.3		19400.3	P3587.43		19223
P3521.005		19592	P3527.1		19765	P3553.6		19400.5	P3587.62		19207
P3521.01		19591	P3527.6		19729.2	P3560.5		19389	P3587.625		19206.5
P3521.02		19606.3	P3527.66		19728	P3560.55		19389.2	P3587.7		19206
P3521.025		19595	P3527.7		19728.2	P3560.6		19389.4	P3587.74		19206.3
P3521.03		19595.1	P3527.72		19728.4	P3560.65		19389.6	P3588		19208
P3521.05		19606.4	P3527.73		19728.6	P3562.5		19386	P3588.5		19210
P3521.08		19606.1	P3527.74		19729.4	P3562.55		19386.3	P3588.8		19209
P3521.1		19606.5	P3527.8		19728.8	P3562.6		19386.6	P3588.81		19209.2
P3521.13		19607	P3527.82		19729	P3566		19379.5	P3589		19230
P3521.15		19609	P3527.9		19732	P3567		19379	P3589.2		19229
P3521.18		19619	P3528		19734	P3568		19376	P3589.4		19231
P3521.185		19618.2	P3529		19736	P3569		19381	P3590		19232
P3521.186		19618.25	P3529.3		19738	P3570		19370	P3591		19216
P3521.19		19618.1	P3529.5		19528	P3571.5		19373	P3592.3		19234
P3521.2		19618	P3530		19532	P3571.52		19373.5	P3593		19224
P3521.3		19622	P3530.6		19520	P3571.72		19367	P3593.1		19224.1
P3521.35		19626	P3530.8		19521	P3571.8		19364	P3594		19240
P3521.37		19627	P3530.9		19523	P3572		19355	P3594.1		19240.1
P3521.4		19628	P3531		19516	P3573		19358	P3595.2		19244
P3521.43		19628.95	P3531.3		19544	P3573.6		19352	P3595.3		19249
P3521.46		19629	P3531.5		19546	P3574		19342	P3598		19205
P3521.54		19540	P3532		19526	P3575		19353	P3598.5		19204
P3521.6		19552	P3532.2		19512	P3575.4		19349	P3600.3		19202
P3521.66		19548	P3532.25		19514	P3575.6		19334	P3600.5		19201
P3521.7		19550	P3532.3		19524	P3575.8		19338	P3603		19200
P3521.72		19550.5	P3534		19492	P3576		19330	P3603.4		19194
P3521.8		19554.5	P3534.2		19488	P3576.6		19405	P3603.55		19195
P3521.83		19554	P3534.22		19488.2	P3576.8		19415	P3603.6		19193
P3521.9		19555	P3534.24		19488.4	P3577		19410	P3603.7		19193.5
P3521.905		19556	P3534.3		19488.6	P3577.1		19420	P3604		19192
P3521.91		19556.2	P3535.42		19484.1	P3577.2		19412	P3605		19188
P3521.915		19556.4	P3535.666		19483.5	P3577.3		19421.1	P3605.5		19187
P3521.92		19556.6	P3535.668		19483.6	P3577.4		19422	P3606		19196
P3521.922		19556.7	P3535.72		19485.1	P3577.44		19442	P3607		19197
P3521.925		19557	P3535.78		19485	P3577.46		19558	P3608.2		19186.05
P3521.93		19556.8	P3535.91		19486.1	P3577.5		19562	P3608.35		19186.1
P3522		19574	P3535.94		19486	P3577.6		19437	P3609		19186
P3522.3		19570	P3536.5		19496	P3577.64		19432	P3609.2		19186.2
P3523		19566	P3536.72		19498	P3577.68		19425	P3609.25		19186.25
P3523.2		19578	P3537.4		19483.2	P3577.7		19430	P3610		19184

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
P3612		19180	P3635.42		19114	P3662.7		19066	P3714.82		18917
P3612.195		19150.7	P3635.44		19120.4	P3662.8		19067	P3714.965		18930.3
P3612.2		19150.8	P3635.45		19120	P3663		19054	P3715		18928
P3612.54		19151.8	P3635.65		19122	P3663.22		19024	P3715.21		18930.1
P3612.552		19151.85	P3635.673		19122.15	P3663.23		19028	P3715.3		18929
P3612.553		19151.86	P3635.68		19110	P3663.24		19032	P3715.4		18920
P3612.57		19151.7	P3635.69		19110.2	P3663.25		19036	P3715.6		18919
P3612.68		19165	P3635.723		19122.2	P3663.5		19064	P3716		18916
P3613		19152	P3635.725		19122.1	P3663.6		19060	P3716.304		18919.5
P3613.5		19156	P3635.73		19122.25	P3664.5		19016	P3716.39		18913
P3614		19160	P3635.731		19122.3	P3665		19012	P3716.4		18912
P3614.4		19162	P3635.745		19123.5	P3667		19010	P3716.435		18910
P3614.5		19163	P3641		19091.53	P3667.5		19009	P3716.46		18914
P3615		19168	P3641.05		19091.55	P3668		19008	P3716.48		18966
P3615.5		19164	P3641.1		19091.2	P3669		19004	P3716.66		18908.7
P3616		19172	P3641.2		19091.5	P3670		19000	P3716.7		18908.9
P3617		19174	P3641.35		19091.51	P3674		18996	P3716.71		18909
P3618.061		19174.51	P3641.38		19091.52	P3675.5		18984	P3716.715		18909.3
P3618.07		19174.55	P3641.572		19091.54	P3676		18992	P3716.722		18909.6
P3618.38		19174.6	P3641.576		19091.57	P3680.25		18982.5	P3716.723		18909.5
P3618.385		19175	P3641.577		19091.56	P3681		18983	P3716.727		18909.1
P3618.4		19175.1	P3641.598		19091.59	P3682		18982	P3716.736		18909.7
P3620		19176	P3641.625		19091.6	P3682.285		18981.6	P3716.737		18909.75
P3620.08		19175.7	P3641.63		19091.7	P3682.8		18981.5	P3716.748		18908.6
P3620.25		19150.6	P3641.635		19091.75	P3683.45		18981.1	P3716.751		18908.5
P3620.28		19150.5	P3641.67		19091.72	P3683.48		18981.3	P3716.753		18906
P3620.33		19150.51	P3641.85		19091.4	P3684		18981	P3716.78		18909.85
P3620.4		19150.4	P3641.88		19091.28	P3685		18980.5	P3716.79		18909.9
P3620.8		19150	P3641.91		19091.47	P3689		18980	P3716.8		18908
P3625		19148	P3641.92		19091.45	P3690.25		18979.15	P3717		18892
P3626		19144	P3641.93		19091.3	P3691		18979.1	P3717.31		18887.7
P3627		19141	P3641.935		19091.35	P3691.7		18979.05	P3717.33		18888.5
P3627.5		19137	P3641.94		19091.38	P3691.8		18979	P3717.5		18888
P3627.52		19137.1	P3641.95		19091	P3692		18978	P3717.74		18892.31
P3627.78		19139.1	P3642		19090.5	P3692.28		18976.1	P3717.754		18892.3
P3627.8		19139	P3642.3		19090.7	P3712		18936	P3717.78		18892.32
P3627.9		19139.5	P3642.4		19090.9	P3713		18933	P3717.79		18892.34
P3627.905		19139.9	P3643.01		19088	P3714		18932	P3717.9		18887.5
P3627.908		19140.1	P3643.02		19088.2	P3714.008		18938	P3717.96		18887.52
P3627.92		19136.3	P3643.03		19088.3	P3714.015		18955.5	P3717.961		18887.53
P3628		19124	P3644		19090	P3714.02		18955	P3717.962		18887.54
P3632		19136	P3648		19087	P3714.1		18977.1	P3717.964		18887.51
P3632.3		19135	P3648.46		19085.6	P3714.14		18940	P3717.968		18887.45
P3632.5		19134	P3648.6		19085	P3714.143		18937	P3717.972		18887.4
P3633.025		19136.7	P3648.8		19085.5	P3714.148		18954	P3717.99		18885
P3633.03		19136.8	P3649		19086.5	P3714.16		18944	P3718.15		18885.8
P3633.15		19136.4	P3649.3		19086.3	P3714.18		18948	P3718.25		18885.9
P3633.17		19136.5	P3650		19086	P3714.185-1		18977	P3718.3		18886
P3633.185		19136.2	P3655		19085.7	P3714.2		18952	P3718.498		18886.5
P3633.3		19133	P3656		19085.3	P3714.206		18953	P3718.53		18887
P3633.4		19133.6	P3657.3		19084.8	P3714.21		18953.5	P3718.8		18893
P3633.8		19133.4	P3657.4		19084.3	P3714.22		18956	P3718.81		18892.45
P3633.87		19133.5	P3657.55		19084.6	P3714.228		18958	P3718.82		18892.5
P3633.9		19133.2	P3657.56		19084.7	P3714.24		18960	P3718.833		18892.8
P3634		19132	P3657.57		19084.5	P3714.245		18957	P3718.84		18892.4
P3634.2		19132.5	P3659		19084	P3714.254		18965	P3718.89		18892.48
P3634.4		19128	P3660		19080	P3714.26		18964	P3719.75		18909.77
P3634.8		19092	P3660.4		19076	P3714.266		18976	P3719.8		18902.5
P3635		19096	P3660.8		19018	P3714.28		18968	P3719.88		18905
P3635.1		19100	P3661		19068	P3714.3		18972	P3719.9		18904.5
P3635.2		19104	P3661.2		19070	P3714.32		18973	P3720		18904
P3635.4		19112	P3661.5		19072	P3714.33		18973.1	P3720.3		18903.7
P3635.41		19116	P3662		19020, 19053	P3714.34		18973.3	P3720.7		18903.5
P3635.415		19114.25	P3662.4		19048	P3714.6		18922	P3721.3		18903.3
P3635.417		19114.1	P3662.6		19052	P3714.8		18916.5	P3723		18903.1

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
P3724	18903	P3754.652	18826.14	P3796.8	18779.34	P3812.5	18749.97
P3728	.....	18900	P3754.655	.....	18826.15	P3797.8	.....		P3812.8	.....	18749.99
P3730	.....	18902	P3754.656	.....	18826.04	18779.321			P3813	.....	18750
P3734	.....	18896	P3754.657	.....	18826.05	P3798	.....	18779.32	P3814	.....	18668
P3734.8	.....	18892.7	P3754.658	.....	18826.16	P3799	.....		P3816	.....	18670
P3738	.....	18884	P3754.659	.....	18826.06	18779.318			P3818	.....	18672
P3739	.....	18879.6	P3754.661	.....	18826.17	P3799.05	.....		P3820	.....	18676
P3740	.....	18880	P3754.662	.....	18826.18	18779.319			P3821	.....	18678
P3740.02	.....	18878	P3754.663	.....	18826.07	P3799.5	.....		P3822	.....	18684
P3740.025	.....	18878.5	P3754.664	.....	18826.19	18779.316			P3823	.....	18686
P3740.027	.....	18878.2	P3754.665	.....	18826.08	P3799.505	.....		P3824	.....	18692
P3740.028	.....	18878.7	P3754.666	.....	18826.2	18779.312			P3824.185	.....	18749
P3740.055	.....	18879.5	P3754.667	.....	18826.09	P3799.506	.....		P3824.25	.....	18694
P3740.06	.....	18879.1	P3754.67	.....	18826.01	18779.313			P3824.34	.....	18749.8
P3740.08	.....	18879	P3754.673	.....	18826.02	P3799.51	.....		P3824.35	.....	18749.75
P3740.09	.....	18877.7	P3754.676	.....	18826.03	18779.315			P3824.36	.....	18749.7
P3740.73	.....	18877.4	P3754.679	.....	18826.3	P3799.52	.....		P3824.37	.....	18749.65
P3740.8	.....	18877.5	P3754.69	.....	18829	18779.317			P3824.38	.....	18749.6
P3740.9	.....	18877.3	P3754.7	.....	18828	P3800.5	.....	18761	P3824.39	.....	18749.5
P3741	.....	18877	P3762	.....	18780	P3800.64	.....	18777.5	P3824.41	.....	18749.2
P3746	.....	18872	P3764.5	.....	18824.4	P3800.65	.....	18777.6	P3825	.....	18700
P3747	.....	18876	P3764.6	.....	18824.3	P3800.7	.....	18777	P3826	.....	18688
P3747.05	.....	18876.1	P3767	.....	18816	P3800.71	.....	18777.1	P3826.5	.....	18687
P3747.13	.....	18876.5	P3767.5	.....	18816.5	P3800.97	.....	18776	P3827	.....	18690
P3747.14	.....	18876.2	P3768	.....	18824	P3802.3	.....	18764	P3832	.....	18704
P3747.23	.....	18876.6	P3768.8	.....	18824.2	P3802.4	.....	18762	P3836	.....	18708
P3747.26	.....	18876.7	P3768.9	.....	18824.1	P3802.5	.....	18768	P3837	.....	18728
P3747.28	.....	18876.3	P3770	.....	18830	P3803	.....	18778.13	P3837.5	.....	18720
P3747.3	.....	18876.9	P3770.5	.....	18834	P3803.1	.....	18778.15	P3844	.....	18732
P3747.4	.....	18864	P3771	.....	18835	P3803.2	.....	18765	P3844.1	.....	18736
P3747.6	.....	18867	P3779.621	.....	18835.5	P3803.25	.....	18778.5	P3847	.....	18740
P3748	.....	18868	P3779.622	.....	18835.51	P3803.251	.....	18778.55	P3847.1	.....	18744
P3749.1	.....	18863	P3780	.....	18840	P3803.3	.....	18779.2	P3847.5	.....	18748
P3749.2	.....	18863.1	P3780.2	.....	18841	P3803.4	.....	18779.3	P3847.65	.....	18748.5
P3749.3	.....	18863.2	P3780.3	.....	18842	P3803.41	.....	18779.31	P3850.55	.....	18666
P3749.4	.....	18863.3	P3780.4	.....	18843	P3803.43	.....	18779.1	P3850.6	.....	18664
P3750	.....	18796	P3780.5	.....	18844	P3803.48	.....	18778.8	P3856	.....	18660
P3751	.....	18794	P3780.6	.....	18845	P3803.5	.....	18779	P3856.29	.....	18661.2
P3752	.....	18792	P3781	.....	18848	P3803.6	.....	18778.6	P3856.3	.....	18661
P3753	.....	18784	P3781.1	.....	18852	P3803.61	.....	18778.7	P3858	.....	18656
P3754.2	.....	18808	P3782.8	.....	18856	P3803.81	.....	18778.25	P3860	.....	18652
P3754.61	.....	18825	P3782.81	.....	18856.1	P3803.82	.....	18778.26	P3862	.....	18648
P3754.613	.....	18825.01	P3783	.....	18855	P3803.85	.....	18778.2	P3863	.....	18644
P3754.616	.....	18825.02	P3785.4	.....	18858	P3803.86	.....	18778.21	P3864	.....	18640
P3754.6191	.....	18825.13	P3785.41	.....	18858.1	P3804	.....	18760	P3866	.....	18636
P3754.622	.....	18825.04	P3790	.....	18860	P3805.22	.....	18779.01	P3867	.....	18634
P3754.6221	.....	18825.14	P3794.046	.....	18779.91	P3805.7	.....	18754.5	P3868	.....	18608
P3754.625	.....	18825.05	P3794.114	.....	18779.93	P3805.84	.....	18754.1	P3868.5	.....	18617
P3754.6251	.....	18825.15	P3794.135	.....	18779.94	P3806	.....	18756	P3868.55	.....	18617.6
P3754.626	.....	18825.06	P3794.136	.....	18779.95	P3806.5	.....	18753.91	P3868.6	.....	18617.5
P3754.6261	.....	18825.16	P3794.137	.....	18779.81	P3807.7	.....	18753.9	P3868.7	.....	18618
P3754.627	.....	18825.07	P3794.138	.....	18779.82	P3808	.....	18752	P3869	.....	18616
P3754.6271	.....	18825.17	P3794.14	.....	18779.8	P3808.1	.....	18753.4	P3870	.....	18612
P3754.628	.....	18825.08	P3794.168	.....	18779.79	P3808.2	.....	18753	P3871	.....	18624
P3754.6281	.....	18825.18	P3794.1717	.....	18779.88	P3808.21	.....	18753.1	P3871.3	.....	18629
P3754.63	.....	18825.1	P3794.1719	.....	18779.89	P3808.4	.....	18753.7	P3871.35	.....	18624.1
P3754.633	.....	18825.11	P3794.172	.....	18779.9	P3808.6	.....	18751.4	P3871.4	.....	18624.3
P3754.636	.....	18825.12	P3794.175	.....	18779.65	P3808.65	.....	18751.3	P3871.51	.....	18624.2
P3754.638	.....	18825.09	P3794.18	.....	18779.7	P3808.8	.....	18751.2	P3871.511	.....	18624.25
P3754.6381	.....	18825.19	P3794.199	.....	18779.85	P3809	.....	18751	P3871.6	.....	18628.5
P3754.639	.....	18825.2	P3794.2	.....	18779.6	P3810	.....	18680	P3871.63	.....	18628
P3754.64	.....	18826.1	P3794.5	.....	18779.5	P3811	.....	18679.2	P3871.7	.....	18626
P3754.643	.....	18826.11	P3795	.....	18779.4	P3812	.....	18679	P3871.71	.....	18626.1
P3754.646	18826.12	P3795.3	18779.38	P3812.45	18749.95	P3874	18620
P3754.649	18826.13	P3795.4	18779.39	P3812.48	18749.96	P3876	18600

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
P3878	18596	P3911.55	18527.35	P3979.44	18334.61	P4612	13776
P3880	.....	18604	P3911.56	.....	18527.3	P3979.45	.....	18334.62	P4618	.....	13796
P3880.5	.....	18592	P3911.591	.....	18527.21	P3981	.....	18334.6	P4620	.....	13800
P3881	.....	18588	P3911.592	.....	18527.22	P3982	.....	18334.3	P4621	.....	13804
P3881.4	.....	18587.6	P3911.6	.....	18527	P3982.5	.....	18334.2	P4621.5	.....	13794.1
P3881.5	.....	18587.7	P3911.62	.....	18527.1	P3982.6	.....	18334.1	P4621.51	.....	13794.2
P3881.6	.....	18587.8	P3911.8	.....	18506	P3982.8	.....	18334.05	P4621.52	.....	13794
P3882	.....	18572	P3932	.....	18496	P3983	.....	18334	P4622	.....	13806
P3882.5	.....	18587	P3934	.....	18494	P3984	.....	18316	P4622.2	.....	13806.2
P3882.51	.....	18587.1	P3936	.....	18476	P3986	.....	18312	P4623.4	.....	13807
P3884	.....	18576	P3937	.....	18408	P4010	.....	18236	P4623.71	.....	13793.55
P3886	.....	18580	P3937.4	.....	18412	P4012	.....	18238	P4623.72	.....	13793.5
P3886.55	.....	18587.3	P3937.41	.....	18416	P4020	.....	18260	P4624.4	.....	13788
P3887	.....	18586	P3937.6	.....	18420	P4022	.....	18256	P4624.42	.....	13792
P3887.1	.....	18586.1	P3941.14	.....	18468	P4026	.....	18264	P4624.5	.....	13793
P3888	.....	18584	P3941.15	.....	18472	P4028	.....	18268	P4624.51	.....	13793.1
P3891.2	.....	18569.1	P3942	.....	18454	P4043	.....	18282	P4625	.....	13808
P3891.3	.....	18569	P3942.1	.....	18454.5	P4044	.....	18280	P4625.2	.....	13812
P3892	.....	18556	P3943	.....	18440	P4045	.....	18279	P4625.4	.....	13816
P3892.5	.....	18568	P3943.1	.....	18444	P4045.22	.....	18279.1	P4626	.....	13820
P3893	.....	18564	P3943.8	.....	18456	P4045.23	.....	18283	P4626.1	.....	13824
P3893.5	.....	18560	P3943.9	.....	18464	P4045.24	.....	18285.1	P4626.2	.....	13824.5
P3894	.....	18536	P3944.5	.....	18460	P4045.25	.....	18285	P4626.25	.....	13824.6
P3895.22	.....	18559.1	P3945	.....	18466	P4045.3	.....	18284	P4626.3	.....	13825
P3895.28	.....	18539	P3948	.....	18448	P4047.3	.....	18287	P4626.4	.....	13825.1
P3895.3	.....	18538	P3948.1	.....	18452	P4053	.....	18234.1	P4626.43	.....	13825.12
P3895.35	.....	18537	P3948.11	.....	18448.1	P4053.2	.....	18235.2	P4626.5	.....	13826
P3895.85	.....	18558	P3948.15	.....	18448.2	P4056	.....	18235.3	P4628	.....	13828
P3896.15	.....	18535.7	P3949.5	.....	18424	P4058	.....	18220	P4628.1	.....	13828.1
P3896.2	.....	18535.5	P3950	.....	18428	P4058.2	.....	18234.05	P4628.15	.....	13828.2
P3897	.....	18532	P3950.5	.....	18432	P4058.25	.....	18234.06	P4628.2	.....	13828.5
P3898	.....	18533	P3953.81	.....	18452.6	P4058.26	.....	18234.07	P4629	.....	13832
P3898.1	.....	18533.5	P3953.82	.....	18452.7	P4058.3	.....	18233.3	P4629.2	.....	13836
P3898.5	.....	18532.5	P3953.9	.....	18452.8	P4058.36	.....	18234.02	P4629.21	.....	13839.5
P3898.51	.....	18532.51	P3954.65	.....	18453	P4058.4	.....	18233.5	P4629.23	.....	13834
P3899	.....	18534	P3954.9	.....	18453.2	P4058.5	.....	18234	P4629.24	.....	13829
P3899.1	.....	18534.5	P3954.91	.....	18453.4	P4059	.....	18228	P4629.25	.....	13838
P3905.365	.....	18535.1	P3960	.....	18390	P4059.03	.....	18228.5	P4629.26	.....	13838.2
P3906.4	.....	18527.5	P3960.4	.....	18388	P4059.12	.....	18232	P4629.27	.....	13838.4
P3907.82	.....	18500.2	P3964	.....	18387	P4059.13	.....	18232.1	P4629.3	.....	13837
P3907.832	.....	18500.3	P3965.5	.....	18380	P4059.18	.....	18233	P4629.35	.....	13837.2
P3907.833	.....	18500.4	P3966	.....	18382	P4059.19	.....	18233.91	P4629.355	.....	13837.4
P3907.834	.....	18500.5	P3966.1	.....	18382.1	P4059.191	.....	18233.9	P4630	.....	13840
P3908	.....	18500	P3966.2	.....	18384	P4059.2	.....	18227	P4640	.....	13884
P3909.1	.....	18500.6	P3966.5	.....	18383	P4059.3	.....	18229	P4642	.....	13888
P3909.2	.....	18500.7	P3966.51	.....	18383.1	P4059.5	.....	18231	P4646	.....	13892
P3909.5	.....	18501	P3970	.....	18336	P4059.55	.....	18231.1	P4650	.....	13880
P3909.6	.....	18502	P3970.5	.....	18338	P4060	.....	18222	P4652	.....	13872
P3909.71	.....	18503	P3971	.....	18340	P4062	.....	18216	P4654	.....	13860
P3909.72	.....	18503.5	P3971.1	.....	18344	P4064	.....	18212	P4658	.....	13856
P3909.81	.....	18526	P3972	.....	18352	P4065	.....	18225	P4658.4	.....	13844
P3909.815	.....	18524.5	P3972.1	.....	18353	P4065.3	.....	18225.3	P4659.412	.....	13855
P3909.83	.....	18512	P3972.15	.....	18355	P4065.4	.....	18225.5	P4659.415	.....	13854
P3909.831	.....	18516	P3972.3	.....	18358	P4065.5	.....	18226.2	P4659.428	.....	13855.1
P3910	.....	18504	P3972.5	.....	18373	P4066	.....	18226	P4659.45	.....	13853
P3910.1	.....	18508	P3972.51	.....	18374	P4066.23	.....	18225.7	P4659.5	.....	13852
P3910.2	.....	18520	P3975	.....	18375	P4066.25	.....	18224	P4659.7	.....	13893
P3910.21	.....	18524	P3976	.....	18376	P4067	.....	18208	P4660.15	.....	13896
P3911.3	.....	18527.17	P3976.1	.....	18377	P4068.1	.....	18210	P4660.2	.....	13940
P3911.322	.....	18527.16	P3977	.....	18378	P4071	.....	18210.5	P4660.4	.....	13900
P3911.33	.....	18527.15	P3978	.....	18335	P4602	.....	13768	P4660.48	.....	13901
P3911.4	.....	18527.46	P3979	.....	18334.7	P4603.04	.....	13769	P4660.481	.....	13901.1
P3911.5	.....	18527.2	P3979.1	.....	18334.71	P4603.06	.....	13769.5	P4660.5	.....	13902
P3911.52	18527.45	P3979.15	18334.75	P4606	13770	P4660.6	13904
P3911.54	18527.4	P3979.2	18334.8	P4610	13780	P4660.61	13921.5

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
P4660.611	13921.51	P4693.4	13677.2	Q0851	23162	Q0922.7	23053
P4660.614	.....	13921.3	P4694	.....	13680	Q0851.5	.....	23162.2	Q0922.9	.....	23042
P4660.615	.....	13921.31	P4697	.....	13682	Q0852	.....	23162.4	Q0923	.....	23040
P4660.617	.....	13921.2	P4700	.....	13684	Q0852.5	.....	23162.6	Q0923.2	.....	23064
P4660.618	.....	13921.21	P4700.5	.....	13688	Q0853	.....	23162.8	Q0923.5	.....	23036
P4660.62	.....	13921.4	P4700.6	.....	13692	Q0858	.....	23165	Q0925	.....	23028
P4660.621	.....	13921.41	P4701	.....	13696	Q0860	.....	23188	Q0926	.....	23024
P4660.63	.....	13922	P4701.15	.....	13716	Q0861	.....	23184	Q0926.5	.....	23020
P4660.635	.....	13922.1	P4701.2	.....	13700	Q0861.5	.....	23159	Q0926.7	.....	23020.5
P4660.64	.....	13908	P4701.22	.....	13704	Q0862	.....	23160	Q0927	.....	23016
P4660.66	.....	13909	P4701.25	.....	13712	Q0864	.....	23164	Q0927.5	.....	23022
P4660.67	.....	13909.5	P4701.7	.....	13718	Q0868	.....	23172	Q0928	.....	23004
P4660.675	.....	13921.1	P4702	.....	13721	Q0870	.....	23176	Q0928.5	.....	23008
P4660.676	.....	13921.11	P4703	.....	13722	Q0870.2	.....	23180	Q0928.55	.....	23009
P4660.7	.....	13912	P4704	.....	13725	Q0871	.....	23168	Q0928.6	.....	23009.2
P4660.8	.....	13916	P4704.1	.....	13725.5	Q0872.5	.....	23158.5	Q0928.65	.....	23009.4
P4660.9	.....	13919	P4704.2	.....	13726	Q0873	.....	23158	Q0928.7	.....	23009.6
P4660.92	.....	13918	P4705	.....	13728	Q0874	.....	23156	Q0929	.....	23012
P4660.93	.....	13920	P4706	.....	13732	Q0875	.....	23154	Q0929.2	.....	23013
P4660.932	.....	13920.1	P4708	.....	13736	Q0875.7	.....	23153	Q0929.3	.....	23013.5
P4660.94	.....	13906	P4708.1	.....	13740	Q0875.8	.....	23152.5	Q0929.5	.....	23014
P4660.941	.....	13907	P4709	.....	13748	Q0876	.....	23152	Q0929.6	.....	23015
P4661	.....	13944	P4709.1	.....	13749	Q0876.2	.....	23153.5	Q0929.7	.....	23014.5
P4661.4	.....	13946	P4709.3	.....	13750	Q0876.5	.....	23151	Q0931	.....	22752
P4661.5	.....	13948	P4709.5	.....	13746	Q0877	.....	23144, 23150	Q0932	.....	22756
P4661.6	.....	13949	P4710	.....	13747.5	Q0877.5	.....	23148	Q0932.1	.....	22760
P4661.7	.....	13950	P4714	.....	13752	Q0877.6	.....	23153.8	Q0934	.....	22764
P4662	.....	13952	P4716	.....	13756	Q0877.8	.....	23138	Q0934.1	.....	22768
P4663.2	.....	13960.05	P4724	.....	13760	Q0878	.....	23137	Q0936	.....	22770
P4663.25	.....	13960.17	P4725	.....	13764	Q0878.1	.....	23136	Q0938	.....	22772
P4663.26	.....	13960.18	P9584	.....	20193	Q0878.5	.....	23135.7	Q0938.1	.....	22776
P4663.27	.....	13960.19	P9690.4	.....	18528	Q0879	.....	23135.5	Q0938.4	.....	22780
P4663.3	.....	13960.2	Q0800	.....	33036	Q0883	.....	23132	Q0938.41	.....	22784
P4663.4	.....	13960.1	Q0801	.....	33040	Q0883.4	.....	23134	Q0939	.....	22788
P4663.5	.....	13960.13	Q0802	.....	33056	Q0883.5	.....	23135	Q0939.2	.....	22792
P4663.65	.....	13960.62	Q0805	.....	33044	Q0883.55	.....	23126	Q0939.6	.....	22796
P4664	.....	13960	Q0805.6	.....	33050	Q0883.6	.....	23120	Q0939.64	.....	22800
P4664.5	.....	13961.9	Q0806	.....	33052	Q0883.65	.....	23115	Q0939.8	.....	22808
P4665	.....	13962.5	Q0807	.....	33060	Q0883.7	.....	23124	Q0940	.....	22812
P4665.2	.....	13962	Q0808.5	.....	33064	Q0883.75	.....	23116	Q0940.4	.....	22816
P4665.4	.....	13962.9	Q0813.2	.....	27467	Q0883.8	.....	23112	Q0941.4	.....	22824
P4666.5	.....	13964	Q0819	.....	33106	Q0883.95	.....	23101.7	Q0941.41	.....	22828
P4670	.....	13592	Q0820	.....	33096	Q0884	.....	23104	Q0942	.....	22832
P4672	.....	13596	Q0820.4	.....	33100	Q0884.2	.....	23140	Q0943	.....	22836
P4672.2	.....	13600	Q0820.41	.....	33104	Q0884.5	.....	23142	Q0943.2	.....	22840
P4674	.....	13604	Q0821	.....	33120	Q0884.7	.....	23128	Q0943.4	.....	22844
P4675	.....	13616	Q0821.1	.....	33124	Q0885	.....	23102.4	Q0945	.....	22848
P4675.5	.....	13624	Q0821.4	.....	33108	Q0885.2	.....	23102.6	Q0953	.....	22706
P4676	.....	13620	Q0821.41	.....	33112	Q0885.5	.....	23102	Q0954	.....	22708
P4676.6	.....	13628	Q0821.5	.....	33107	Q0885.51	.....	23102.2	Q0956	.....	22709
P4677	.....	13632	Q0822	.....	33080	Q0893	.....	23108	Q0957	.....	22710
P4678	.....	13640	Q0822.1	.....	33084	Q0895	.....	23101	Q0957.5	.....	22711
P4679	.....	13636	Q0822.4	.....	33088	Q0895.4	.....	23101.5	Q0958	.....	22712
P4683	.....	13656	Q0822.41	.....	33092	Q0897	.....	23100	Q0973	.....	22744
P4684	.....	13658	Q0824	.....	23080	Q0898	.....	23099	Q0973.1	.....	22748
P4685	.....	13659	Q0838	.....	23204	Q0900	.....	23098	Q0975	.....	22726
P4686	.....	13660	Q0838.5	.....	23206	Q0904	.....	23096	Q0976	.....	22728
P4687	.....	13661	Q0838.7	.....	23209.5	Q0906	.....	23092	Q0980	.....	22724
P4688	.....	13662	Q0839.4	.....	23208	Q0910	.....	23088	Q0980.4	.....	22722
P4690	.....	13588	Q0842	.....	23192	Q0911	.....	23086	Q0980.5	.....	22722.2
P4692.2	.....	13668	Q0844	.....	23201	Q0913	.....	23077	Q0981	.....	22720
P4692.21	.....	13672	Q0845	.....	23198	Q0914	.....	23076	Q0981.5	.....	22716
P4692.4	.....	13664	Q0846	.....	23200	Q0920	.....	23048	Q0981.9	.....	22926
P4693	13676	Q0850	23196	Q0920.5	23052	Q0982	22924
P4693.1	13678	Q0850.5	23161	Q0922	23044	Q0983	22916

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
Q0984	22908	Q1042	23376	Q1070.4	23416.3	Q1144.65	23573.53
Q0985	.....	22912	Q1043	.....	23380	Q1072.7	.....	23417	Q1144.68	.....	23573.57
Q0986	.....	22914	Q1043.068	.....	23365	Q1072.8	.....	23417.1	Q1144.8	.....	23573.6
Q0988	.....	22904	Q1043.073	.....	23364.5	Q1072.85	.....	23418	Q1145	.....	23574
Q0990	.....	22896	Q1043.1	.....	23367	Q1072.86	.....	23418.1	Q1145.5	.....	23586
Q0991	.....	22884	Q1043.12	.....	23366.2	Q1072.9	.....	23422	Q1149	.....	23590
Q0991.3	.....	22878	Q1044	.....	23384	Q1073.2	.....	23423.2	Q1150	.....	23588
Q0992	.....	22876	Q1045	.....	23382	Q1073.21	.....	23423.4	Q1151	.....	23589
Q0993	.....	22872	Q1045.5	.....	23383	Q1073.4	.....	23429	Q1151.1	.....	23589.4
Q0994	.....	22880	Q1045.7	.....	23383.5	Q1073.5	.....	23428	Q1152	.....	23591.5
Q0996	.....	22868	Q1050	.....	23336	Q1073.6	.....	23436.7	Q1153	.....	23591
Q0998	.....	22864	Q1050.05	.....	23335	Q1073.65	.....	23436.75	Q1157	.....	23608
Q1000	.....	22856	Q1050.06	.....	23334.6	Q1073.8	.....	23436.5	Q1157.5	.....	23612
Q1001	.....	22860	Q1050.07	.....	23334.5	Q1076	.....	23436	Q1158	.....	23616
Q1001.5	.....	22862	Q1050.1	.....	23333	Q1076.5	.....	23437	Q1158.1	.....	23620
Q1002	.....	22968	Q1050.15	.....	23333.4	Q1078	.....	23396	Q1158.2	.....	23624
Q1003	.....	22969	Q1050.2	.....	23332	Q1079	.....	23400	Q1158.51	.....	23625.4
Q1003.1	.....	22969.1	Q1050.3	.....	23333.5	Q1084	.....	23460	Q1158.55	.....	23625
Q1004	.....	22956	Q1050.5	.....	23334	Q1086	.....	23468	Q1158.59	.....	23625.2
Q1005	.....	22952	Q1051	.....	23340	Q1090	.....	23472	Q1158.85	.....	23625.8
Q1005.4	.....	22957	Q1051.1	.....	23342	Q1091.1	.....	23474	Q1159	.....	23626
Q1005.7	.....	22958	Q1051.7	.....	23338	Q1091.11	.....	23474.1	Q1160	.....	23627
Q1006	.....	22960	Q1052	.....	23344	Q1091.12	.....	23475	Q1170	.....	23668
Q1006.5	.....	22964	Q1052.5	.....	23346	Q1091.2	.....	23496	Q1174	.....	23632
Q1007	.....	22948	Q1052.6	.....	23346.7	Q1092	.....	23476	Q1178	.....	23656
Q1008	.....	22946	Q1052.7	.....	23346.5	Q1092.5	.....	23480	Q1183.1	.....	23648
Q1008.1	.....	22946.5	Q1053	.....	23348	Q1092.51	.....	23484	Q1197	.....	23670
Q1009	.....	22940	Q1053.2	.....	23352	Q1093	.....	23488	Q1198	.....	23672
Q1010	.....	22944	Q1053.33	.....	23355.1	Q1095	.....	23492	Q1200	.....	23676
Q1010.5	.....	22936	Q1053.35	.....	23355.3	Q1099	.....	23500	Q1204	.....	23684
Q1010.7	.....	22934	Q1053.6	.....	23356	Q1101	.....	23502	Q1210	.....	23688
Q1011	.....	22928	Q1053.7	.....	23358	Q1102	.....	23520	Q1211	.....	23689
Q1012	.....	22932	Q1053.72	.....	23358.5	Q1105	.....	23504	Q1212	.....	23692
Q1012.5	.....	22933	Q1053.74	.....	23358.6	Q1106	.....	23508	Q1212.2	.....	23696
Q1013	.....	22973	Q1053.9	.....	23359	Q1108	.....	23512	Q1213	.....	23700
Q1020	.....	22972	Q1053.91	.....	23359.5	Q1110	.....	23517	Q1214	.....	23704
Q1020.5	.....	22972.2	Q1054	.....	23360	Q1112	.....	23516	Q1218	.....	23709
Q1020.7	.....	22972.25	Q1054.5	.....	23361	Q1122	.....	23532	Q1220	.....	23708
Q1021	.....	22974	Q1055	.....	23362	Q1124	.....	23524	Q1222	.....	23710
Q1021.5	.....	22974.5	Q1056	.....	23363	Q1126	.....	23528	Q1223	.....	23712
Q1021.6	.....	22972.3	Q1056.5	.....	23363.5	Q1128	.....	23539	Q1224	.....	23773
Q1021.8	.....	22972.5	Q1056.6	.....	23363.9	Q1130	.....	23542	Q1225	.....	23714
Q1022	.....	22980	Q1056.7	.....	23363.6	Q1131	.....	23544	Q1225.5	.....	23715
Q1024	.....	22976	Q1056.8	.....	23363.7	Q1132	.....	23560	Q1226	.....	23716
Q1024.05	.....	22976.5	Q1056.9	.....	23363.8	Q1133	.....	23552	Q1228	.....	23718
Q1024.1	.....	22975.5	Q1058	.....	23364	Q1133.1	.....	23556	Q1230	.....	23720
Q1024.2	.....	22975	Q1060	.....	23368	Q1133.3	.....	23557	Q1232	.....	23724
Q1024.5	.....	22977	Q1060.3	.....	23366	Q1134	.....	23558	Q1236	.....	23728
Q1024.7	.....	22977.5	Q1060.5	.....	23372	Q1135	.....	23559	Q1236.1	.....	23732
Q1025	.....	22978	Q1061	.....	23370	Q1136	.....	23559.1	Q1238	.....	23736
Q1028	.....	23000	Q1062	.....	23404	Q1138	.....	23584	Q1238.1	.....	23740
Q1028.7	.....	23002	Q1063	.....	23405	Q1139	.....	23580	Q1238.5	.....	23742
Q1028.8	.....	22998	Q1064	.....	23406	Q1140	.....	23568	Q1240	.....	23744
Q1030	.....	22984	Q1065	.....	23407	Q1140.2	.....	23568.5	Q1241	.....	23746
Q1031	.....	25055	Q1066	.....	23407.5	Q1140.3	.....	23571.5	Q1242	.....	23748
Q1032	.....	22988	Q1066.2	.....	23407.7	Q1140.4	.....	23571	Q1243	.....	23750
Q1032.5	.....	22990	Q1066.4	.....	23407.8	Q1140.5	.....	23570	Q1243.5	.....	23751
Q1033	.....	25056	Q1068	.....	23420	Q1141	.....	23569	Q1244	.....	23752
Q1033.5	.....	25054	Q1068.5	.....	23416	Q1144	.....	23572	Q1244.5	.....	23754
Q1033.6	.....	25053	Q1069	.....	23408	Q1144.1	.....	23572.5	Q1244.9	.....	23762
Q1033.8	.....	25051	Q1069.4	.....	23412	Q1144.2	.....	23572.8	Q1245	.....	23756
Q1034	.....	25052	Q1070	.....	23416.1	Q1144.3	.....	23573	Q1246	.....	23760
Q1036	.....	25048	Q1070.1	.....	23416.4	Q1144.35	.....	23573.1	Q1246.3	.....	23771
Q1038	23392	Q1070.2	23416.5	Q1144.48	23573.3	Q1246.5	23768
Q1040	23388	Q1070.3	23416.2	Q1144.6	23573.5	Q1247	23764

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
Q1248.5		23770	Q1291.4		25520	Q1323		25584.5	Q1368		25708
Q1249		23774	Q1291.6		25522	Q1324		25585	Q1368.2		25709
Q1250		23776	Q1292		25546	Q1324.5		25586	Q1368.3		25709.5
Q1250.1		23780	Q1294		25548	Q1325		25416.5	Q1369		25708.5
Q1256		23784	Q1294.5		25551	Q1325.3		25416.6	Q1369.5		25709.7
Q1257		23788	Q1294.8		25555.5	Q1325.5		25416.7	Q1369.6		25709.8
Q1257.5		23791	Q1294.9		25555	Q1326		25661.3	Q1371		25717
Q1258		23792	Q1295		25554	Q1327		25662	Q1371.1		25717.1
Q1258.1		23792.5	Q1296		25552	Q1327.1		25662.1	Q1372		25716
Q1261		23806	Q1296.7		25571	Q1327.2		25662.2	Q1372.3		25716.3
Q1261.5		23821	Q1297		25568	Q1327.3		25664.5	Q1372.4		25716.5
Q1262		23821.2	Q1298		25560	Q1327.5		25662.5	Q1372.5		25716.6
Q1262.5		23821.3	Q1298.3		25565	Q1327.7		25664	Q1373		25718
Q1262.8		23821.5	Q1298.35		25565.5	Q1327.8		25665	Q1373.5		25718.5
Q1263		23821.61	Q1298.4		25564	Q1328		25663	Q1374		25719
Q1263.1		23821.62	Q1299		25570	Q1328.5		25666	Q1376		25720
Q1263.9		23821.6	Q1299.3		25571.5	Q1328.7		25668	Q1376.5		25721
Q1264		23821.7	Q1299.5		25569	Q1329		25628.5	Q1378		25722
Q1264.5		23821.9	Q1299.56		25572.7	Q1329.5		25629	Q1379		25724
Q1265		23822	Q1299.57		25572.8	Q1330		25629.2	Q1380		25732
Q1267		23823	Q1299.571		25572.81	Q1330.2		25629.4	Q1380.2		25734
Q1267.8		23823.8	Q1300		25572	Q1330.4		25629.7	Q1380.3		25728
Q1268		23824	Q1300.1		25573.5	Q1331.5		25630	Q1382		25736
Q1270		23852	Q1300.2		25573	Q1332		25631	Q1382.8		25738
Q1270.1		23828	Q1300.3		25573.2	Q1334		25639.5	Q1383		25740
Q1270.11		23832	Q1300.35		25573.4	Q1334.5		25639	Q1384		25741
Q1272		23836	Q1300.4		25573.3	Q1335		25639.3	Q1384.5		25741.2
Q1272.1		23840	Q1301		25576	Q1337		25632	Q1400		25068.7
Q1274		23844	Q1303		25580	Q1338		25638	Q1402		25068
Q1274.1		23848	Q1304		25584	Q1339		25642	Q1402.5		25068.5
Q1274.6		23856	Q1304.4		25602.5	Q1339.5		25643	Q1405.5		25058
Q1274.61		23860	Q1304.6		25602.7	Q1340		25640	Q1406		25060
Q1275.3		23864	Q1305		25574	Q1340.5		25644	Q1407		25064
Q1275.4		23868	Q1306		25574.4	Q1341		25648	Q1407.2		25064.2
Q1276		23822.6	Q1307.3		25604	Q1341.6		25650	Q1407.3		25064.3
Q1276.2		23822.4	Q1307.5		25605	Q1342		25652	Q1407.5		25064.1
Q1276.5		23822.2	Q1308.1		25603	Q1342.5		25651.7	Q1407.7		25064.4
Q1277		23870	Q1308.4		25602	Q1343		25651	Q1408		25065
Q1277.5		23870.5	Q1308.5		25606	Q1343.5		25651.5	Q1408.1		25066
Q1277.8		23870.6	Q1309		25588	Q1343.7		25651.6	Q1408.3		25067
Q1278		23869.5	Q1309.5		25610	Q1344		25712	Q1409		25066.2
Q1278.2		23869	Q1310		25608	Q1344.5		25712.5	Q1409.1		25066.4
Q1279		23871	Q1310.2		25596	Q1345		25711.7	Q1410		25050
Q1279.3		23871.2	Q1310.4		25594	Q1346		25714	Q1410.3		25049
Q1280		23871.5	Q1310.6		25593	Q1347		25710	Q1411		25044
Q1282		23804	Q1310.7		25613	Q1347.5		25711	Q1411.2		25040
Q1282.5		23775	Q1310.8		25614	Q1348		25711.5	Q1411.22		25042
Q1283		25544	Q1311		25616	Q1350		25672	Q1411.23		25042.5
Q1283.5		25543	Q1311.2		25617	Q1352		25676	Q1411.24		25043
Q1283.7		25545	Q1311.5		25618	Q1352.5		25676.2	Q1411.25		25046
Q1284		25542	Q1312		25620	Q1353		25677	Q1411.3		25047
Q1284.2		25541	Q1312.1		25624	Q1354		25678	Q1411.31		25047.1
Q1285		25540	Q1314		25628	Q1356		25680	Q1411.4		25036
Q1286		25538	Q1315		25626	Q1358		25681	Q1411.6		25032
Q1287		25532	Q1315.5		25628.3	Q1360		25684	Q1411.72		25028.5
Q1289		25536	Q1317		25653.5	Q1360.5		25686	Q1411.75		25029
Q1289.1		25536.1	Q1318		25653	Q1362		25688	Q1411.8		25030
Q1290		25528	Q1318.7		25653.1	Q1365		25700	Q1411.85		25030.1
Q1291		25524	Q1319		25658	Q1365.5		25682	Q1412.5		25026
Q1291.2		25526	Q1319.2		25658.1	Q1365.6		25701	Q1412.51		25026.1
Q1291.21		25526.1	Q1319.4		25658.2	Q1365.7		25702	Q1413.45		24998
Q1291.25		25525.2	Q1320.2		25660	Q1365.8		25703	Q1413.7		25000
Q1291.27		25525.1	Q1321		25656	Q1366		25704	Q1413.71		25004
Q1291.29		25525	Q1321.5		25653.2	Q1366.2		25705	Q1416		25012
Q1291.3		25521	Q1322		25578	Q1366.4		25705.5	Q1417		25014

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
Q1418	.....	25016	Q1459.6	.....	24908	Q1518.5	.....	25421	Q1558.32	.....	25349.5
Q1419	.....	25018	Q1459.61	.....	24912	Q1519	.....	25422	Q1558.33	.....	25351
Q1420	.....	24989	Q1459.73	.....	24923	Q1522	.....	25420	Q1558.34	.....	25350.4
Q1422	.....	24988	Q1459.76	.....	24922	Q1523	.....	25423	Q1558.35	.....	25350
Q1422.08	.....	24987.75	Q1459.8	.....	24918	Q1524	.....	25416	Q1558.4	.....	25311
Q1422.1	.....	24987.8	Q1459.94	.....	24847	Q1528	.....	25414	Q1558.5	.....	25312
Q1422.2	.....	24987.9	Q1459.95	.....	24848	Q1532	.....	25412	Q1558.6	.....	25316
Q1422.3	.....	24987.95	Q1460.6	.....	24844.5	Q1532.5	.....	25411	Q1558.7	.....	25310
Q1424	.....	23592	Q1460.7	.....	24845	Q1536	.....	25408	Q1559	.....	25280
Q1424.5	.....	23593	Q1462	.....	24846	Q1537	.....	25417	Q1559.5	.....	25284
Q1426	.....	23604	Q1462.2	.....	24840	Q1537.5	.....	25418	Q1559.7	.....	25288
Q1426.5	.....	24978	Q1462.21	.....	24844	Q1540	.....	25470	Q1559.74	.....	25286
Q1427.4	.....	24974	Q1462.39	.....	24828	Q1540.9	.....	25470.5	Q1559.75	.....	25285
Q1427.8	.....	24948.5	Q1462.4	.....	24836	Q1540.95	.....	25471	Q1559.8	.....	25279
Q1428	.....	24987	Q1462.41	.....	24832	Q1541	.....	25472	Q1559.9	.....	25289
Q1430	.....	24968	Q1462.6	.....	24852	Q1541.1	.....	25472.5	Q1559.95	.....	25278
Q1431	.....	24966	Q1462.61	.....	24856	Q1541.3	.....	25473	Q1559.97	.....	25278.5
Q1432	.....	24964	Q1462.8	.....	24860	Q1541.6	.....	25386	Q1560	.....	25292
Q1433	.....	24963.5	Q1462.81	.....	24864	Q1542	.....	25388	Q1560.05	.....	25296
Q1434	.....	24972	Q1463	.....	24876	Q1544	.....	25390	Q1560.2	.....	25300
Q1435	.....	24973	Q1463.1	.....	24880	Q1545	.....	25404	Q1560.3	.....	25290
Q1435.2	.....	24963.4	Q1464	.....	24868	Q1545.6	.....	25400	Q1560.31	.....	25290.2
Q1435.3	.....	24963.2	Q1464.1	.....	24872	Q1547.5	.....	25406	Q1562	.....	25308
Q1435.4	.....	24963	Q1468.05	.....	24858	Q1547.9	.....	25360	Q1562.93	.....	25274.6
Q1435.5	.....	24961.2	Q1468.25	.....	24859	Q1548	.....	25356	Q1563	.....	25264
Q1435.6	.....	24962	Q1468.46	.....	24881	Q1548.3	.....	25364	Q1563.2	.....	25266
Q1435.7	.....	24961	Q1468.5	.....	24882	Q1548.5	.....	25368	Q1563.5	.....	25268
Q1436	.....	24960	Q1476	.....	25508	Q1548.6	.....	25370	Q1564	.....	25272
Q1438	.....	24952	Q1478	.....	25510	Q1548.65	.....	25370.5	Q1564.2	.....	25273
Q1438.1	.....	24956	Q1480	.....	25512	Q1548.7	.....	25372	Q1564.7	.....	25274
Q1438.2	.....	24957.5	Q1482.5	.....	25516	Q1548.9	.....	25373.5	Q1564.8	.....	25274.2
Q1438.22	.....	24957	Q1484	.....	25504	Q1548.91	.....	25373.6	Q1565	.....	25274.3
Q1438.3	.....	24951	Q1485	.....	25503.8	Q1549	.....	25373	Q1565.5	.....	25249
Q1439	.....	24950	Q1486.4	.....	24946	Q1549.05	.....	25318.8	Q1566	.....	25252
Q1439.4	.....	24950.5	Q1487	.....	24942	Q1549.1	.....	25318.6	Q1566.3	.....	25256, 25376
Q1439.6	.....	24950.6	Q1488.5	.....	24944	Q1549.15	.....	25318.4	Q1566.4	.....	25257
Q1442	.....	24976	Q1489	.....	25503.7	Q1549.2	.....	25319	Q1566.6	.....	25275
Q1442.1	.....	24970	Q1489.1	.....	25503.65	Q1549.25	.....	25319.05	Q1566.7	.....	25275.5
Q1442.2	.....	24969	Q1489.2	.....	25503.6	Q1549.3	.....	25319.1	Q1566.8	.....	25275.6
Q1442.5	.....	24980	Q1490	.....	25500	Q1549.35	.....	25319.3	Q1567.5	.....	25275.7
Q1442.7	.....	24982	Q1490.1	.....	25503	Q1549.4	.....	25317.2	Q1567.6	.....	25275.58
Q1443.5	.....	24986	Q1490.15	.....	25503.5	Q1549.7	.....	25317.6	Q1567.7	.....	25275.8
Q1444	.....	24948	Q1491	.....	25502	Q1550	.....	25318	Q1567.8	.....	25275.9
Q1444.2	.....	24987.5	Q1493	.....	25496	Q1550.5	.....	25317	Q1568	.....	25276
Q1444.3	.....	24987.3	Q1494	.....	25494	Q1551	.....	25320	Q1568.4	.....	25378
Q1444.5	.....	24949	Q1496	.....	25492	Q1551.2	.....	25324	Q1568.5	.....	25379
Q1445	.....	24947	Q1498	.....	25488	Q1551.5	.....	25328	Q1569	.....	25380
Q1446	.....	24946.5	Q1500	.....	25485	Q1551.6	.....	25329	Q1569.5	.....	25384
Q1446.5	.....	24941	Q1506	.....	25476	Q1551.8	.....	25330	Q1571	.....	25260.5
Q1447	.....	24940	Q1506.5	.....	25474	Q1551.9	.....	25331	Q1571.5	.....	25260.2
Q1449	.....	24938	Q1506.6	.....	25474.5	Q1552	.....	25332	Q1572	.....	25260
Q1450	.....	24939	Q1507.5	.....	25482	Q1552.4	.....	25336	Q1572.4	.....	25258
Q1452	.....	24936	Q1508	.....	25468	Q1552.6	.....	25340	Q1572.5	.....	25248.5
Q1454	.....	24932	Q1508.5	.....	25461	Q1553	.....	25352	Q1572.7	.....	25261
Q1455	.....	24928	Q1509	.....	25425	Q1553.2	.....	25352.5	Q1574	.....	25248
Q1456	.....	24924	Q1509.5	.....	25464	Q1553.5	.....	25374	Q1575	.....	25244
Q1457	.....	24929	Q1510	.....	25460	Q1554	.....	25353	Q1576	.....	25240
Q1457.5	.....	24926	Q1510.5	.....	25458	Q1554.1	.....	25354	Q1577	.....	25238.5
Q1458	.....	24923.7	Q1511	.....	25436	Q1554.2	.....	25353.5	Q1578	.....	25239
Q1459	.....	24920	Q1513	.....	25444	Q1554.4	.....	25342	Q1580	.....	25262
Q1459.2	.....	24888	Q1514	.....	25448	Q1555	.....	25344	Q1582	.....	25771
Q1459.21	.....	24892	Q1515	.....	25452	Q1555.8	.....	25346	Q1587.5	.....	25769
Q1459.4	.....	24900	Q1517	.....	25432	Q1558	.....	25348	Q1588	.....	25770
Q1459.41	.....	24904	Q1517.5	.....	25424.5	Q1558.2	.....	25348.5	Q1591	.....	25766
Q1459.42	.....	24896	Q1518	.....	25424	Q1558.3	.....	25349	Q1592	.....	25742

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
Q1594		25748	Q1629.36		25834	Q3344.5		25918	Q3390.4		.26044
Q1596		25744	Q1629.6		25836	Q3344.7		25917.5	Q3391		.26036
Q1597		25746	Q1629.8		25837	Q3345		25917	Q3391.5		.26053
Q1598		25810	Q1630		25840	Q3345.3		25916	Q3392		.26052
Q1599		25750	Q1630.4		25833.5	Q3345.4		25910	Q3392.7		.26056
Q1599.5		25751	Q1630.6		25844	Q3345.5		25912	Q3392.75		.26055
Q1600		25752	Q1631		25848	Q3346		25920	Q3392.8		.26058
Q1600.5		25754	Q1632		25872	Q3347		25924	Q3393		.26060
Q1601		25756	Q1632.4		25884	Q3347.5		25923	Q3393.1		.26064
Q1601.1		25755	Q1632.6		25886	Q3347.6		25922	Q3393.3		.26068
Q1601.15		25754.5	Q1632.7		25886.3	Q3347.7		25925	Q3393.31		.26072
Q1601.3		25756.5	Q1632.8		25886.5	Q3348.4		25940	Q3393.5		.26076
Q1601.5		25760	Q1633		25876	Q3348.7		25938	Q3393.6		.26088
Q1603		25764	Q3336		25887	Q3349		25928	Q3393.7		.26108
Q1603.5		25948.7	Q3338		25888	Q3350		25936	Q3394.5		.26084
Q1605		25796	Q3338.4		25897.5	Q3352		25930	Q3395		.26096
Q1605.5		25794	Q3338.5		25898	Q3354		25932	Q3395.1		.26080
Q1607		25797	Q3338.7		25899	Q3356		25926	Q3395.15		.26081
Q1608		25800	Q3339		25892	Q3357.5		25948.5	Q3395.2		.26082
Q1610.5		25798	Q3339.1		25896	Q3358		25944	Q3395.3		.26106
Q1610.7		25802	Q3339.2		25890	Q3360		25948	Q3395.35		.26106.5
Q1611.8		25803	Q3339.6		25900	Q3361		25949	Q3395.4		.26107
Q1612		25803.5	Q3339.8		25902	Q3362		26020	Q3395.5		.26107.5
Q1612.5		25803.7	Q3340		25904	Q3362.5		26021	Q3395.55		.26107.7
Q1613		25806	Q3340.5		25906	Q3363		26022	Q3395.59		.26101
Q1616		25804	Q3340.51		25906.1	Q3366		25968	Q3395.6		.26100
Q1619		25773	Q3340.52		25906.3	Q3367.9		25980	Q3395.8		.26104
Q1620		25772	Q3340.55		25906.7	Q3368		25972	Q3395.9		.26104.5
Q1621		25776	Q3340.65		25907.1	Q3368.1		25976	Q3396		.26105
Q1621.4		25780	Q3340.67		25907.15	Q3368.5		25984	Q3396.2		.26105.5
Q1622		25782	Q3340.68		25907.2	Q3372		25988	Q3396.6		.26112
Q1622.5		25783	Q3340.7		25907	Q3373.3		25956	Q3396.8		.26092
Q1623		25784	Q3340.8		25907.4	Q3374		25964	Q3396.9		.26115
Q1623.5		25788	Q3340.85		25907.6	Q3376		26024	Q3397		.26116
Q1624.5		25791	Q3340.87		25907.62	Q3376.5		26028	Q3397.5		.26117
Q1624.7		25791.4	Q3340.9		25907.65	Q3379		25992	Q3397.6		.26118
Q1625		25808	Q3340.94		25907.25	Q3381		26000	Q3397.8		.26119
Q1626		25812	Q3340.95		25907.3	Q3381.1		26004	Q3397.95		.26119.5
Q1626.3		25820	Q3341		25850	Q3382		26008	Q3398		.26120
Q1626.5		25816	Q3342.4		25852	Q3384		26012	Q3398.8		.26123
Q1628		25824	Q3342.41		25856	Q3386		26016	Q3398.9		.26123.5
Q1628.5		25828	Q3342.6		25860	Q3387.5		26017	Q3399		.26124
Q1628.8		25830	Q3342.61		25864	Q3389		26032	Q3399.1		.26128
Q1629		25832	Q3343		25908	Q3390		26040	Q3399.8		.26129
Q1629.3		25833	Q3343.5		25914	Q3390.1		26048			