

Chart 11324

NM 38/11

GALVESTON BAY AND HOUSTON SHIP CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2011								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH MLLW (FEET)
GALVESTON HARBOR:								
ENTRANCE CHANNEL	44.0	49.0	49.0	41.0	5-11	800-1000	8.6	47
OUTER BAR CHANNEL	42.0	49.0	49.0	50.0	4-11	800	1.7	47
INNER BAR CHANNEL	42.0	49.0	49.0	40.0	4-11	800	3.3	47
ANCHORAGE BASIN A	39.1	37.9	35.9	30.2	4-11	3100	1.9	34
BOLIVAR ROADS CHANNEL	47.0	49.0	45.0	44.0	5-11	800	0.85	47
HOUSTON SHIP CHANNEL:								
BOLIVAR ROADS TO RED FISH LIGHT 1	45.0	47.0	48.0	45.0	3-11	530	12.38	45
RED FISH LIGHT 1 TO BEACON 76	30.0	44.0	43.0	35.0	4-11	400	8.33	45
BCN 76 TO LWR END MORGANS PT CUT	30.0	46.0	45.0	31.0	4-11	530	5.49	45
GALVESTON CHANNEL	38.8	42.5	39.8	24.3	3, 4-11	1125-1075	4.44	40
BOLIVAR ROADS TO TURNING BASIN	45.1	47.7	47.7	46.7	7-11	400	6.8	45
TEXAS CITY TURNING BASIN	42.0	43.5	47.2	45.0	7-11	1200	0.81	45
INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.								
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 11477

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PORT CANAVERAL CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2005 AND SURVEYS TO JUN 2011								
CONTROLLING DEPTHS FROM SEAWARD IN METERS AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (METERS)	LENGTH (NAUT. MILES)	DEPTH MLLW (METERS)
OUTER REACH	12.4	13.1	12.9	13.0	3,4-11	122	4.7	13.4
MIDDLE REACH	12.5	12.8	12.8	12.5	3,8-11	122	0.9	13.4
INNER REACH	12.0	12.4	12.6	11.6	3-11	122	0.7	12.2
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 11478

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PORT CANAVERAL CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2005 AND SURVEYS TO JUN 2011								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
OUTER REACH	40.7	43.1	42.5	42.6	3,4-11	400	4.7	44
MIDDLE REACH	41.0	42.2	42.2	41.0	3,8-11	400	0.9	44
INNER REACH	39.6	40.8	41.4	38.2	3-11	400	0.7	40
WEST ACCESS CHANNEL (EAST PORTION)	37.3	40.3	40.9	37.2	3-11	400	0.3	39
WEST ACCESS CHANNEL (WEST PORTION)	35.8	35.6	35.6	35.2	3-11	400	0.3	31
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

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Chart 11481

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PORT CANAVERAL CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2005 AND SURVEYS TO JUN 2011								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
OUTER REACH	40.7	43.1	42.5	42.6	3,4-11	400	4.7	44
MIDDLE REACH	41.0	42.2	42.2	41.0	3,6-11	400	0.8	44
INNER REACH	39.6	40.8	41.4	38.2	3-11	400	0.7	40
WEST ACCESS CHANNEL (EAST PORTION)	37.3	40.3	40.9	37.2	3-11	400	0.3	39
WEST ACCESS CHANNEL (WEST PORTION)	35.8	35.6	35.6	35.2	3-11	400	0.3	31

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11505

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SAVANNAH RIVER CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2011								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH MLLW (FEET)
TYBEE RANGE	44.0	44.0	45.0	43.0	7-11	600	3.79	44
BLOODY POINT RANGE	43.0	44.0	45.0	42.5	7-11	600	3.41	44
JONES ISLAND RANGE	43.5	44.0	45.0	44.0	7-11	600	1.33	44
TYBEE KNOLL CUT RANGE	43.5	44.0	44.5	43.0	7-11	500	2.84	42

NOTE: AT MEAN HIGH WATER, DEPTHS ARE ABOUT 7 FEET GREATER AT LOWER END OF THE HARBOR AND 7.7 FEET GREATER AT UPPER END OF HARBOR.
NOTE: FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 75 FEET INSIDE THE CHANNEL LIMITS.
NOTE: CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

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NM 38/11

Chart 11506

NM 38/11

BRUNSWICK HARBOR CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUN 2011								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT	LEFT	RIGHT	RIGHT	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH MLLW (FEET)
	OUTSIDE QUARTER	INSIDE QUARTER	INSIDE QUARTER	OUTSIDE QUARTER				
ENTRANCE THRU TURTLE RIVER								
ST. SIMONS RANGE (A)	336.0	338.0	39.0	35.5	6-11	500	9.7	38
PLANTATION CREEK RANGE (B)	37.5	40.0	42.0	41.5	6-11	400	1.8	36
JEKYLL ISLAND RANGE (C)	39.5	38.0	39.0	37.0	6-11	400	1.8	36
CEDAR HAMMOCK RANGE (D)	35.5	36.5	36.0	33.5	6-11	400	1.4	36
BRUNSWICK POINT CUT RANGE	35.5	38.0	38.0	37.0	6-11	400	2.4	36
TURTLE RIVER LOWER RANGE	36.0	37.5	37.5	37.0	6-11	400	1.8	36
BLYTHE ISLAND RANGE	30.0	29.0	28.0	27.0	6-11	300	1.5	30
TURTLE RIVER UPPER RANGE	30.5	30.0	28.0	27.0	6-11	300	2.7	30
EAST RIVER (E)								
ENTRANCE TO SECOND AVE (F)	37.0	37.0	37.0	37.0	6-11	400	1.2	37-41
SECOND AVE TO MAYOR'S POINT	337.5	38.0	37.0	37.0	6-11	400	1.0	36
SOUTH BRUNSWICK RIVER (G & H)	35.0	37.5	37.5	36.0	6-11	400	1.3	36

A. THE ST. SIMONS RANGE WIDENER LEAST DEPTH WAS 33.0 FEET, LOCATED 50 FEET INSIDE THE CHANNEL LIMIT FROM THE RIGHT SIDE.

B. THE WIDENER AT INTERSECTION OF PLANTATION CREEK RANGE AND JEKYLL ISLAND RANGE LEAST DEPTHS WERE 46.0 FEET, LOCATED 100 FEET INSIDE THE CHANNEL LIMIT, AND 52.0 FEET, LOCATED 400 FEET INSIDE THE CHANNEL LIMIT FROM THE LEFT SIDE.

C. THE WIDENER AT INTERSECTION OF JEKYLL ISLAND RANGE AND CEDAR HAMMOCK RANGE LEAST DEPTH WAS 37.5 FEET, LOCATED 75 FEET INSIDE THE CHANNEL LIMIT FROM THE RIGHT SIDE.

D. THE WIDENER AT INTERSECTION OF CEDAR HAMMOCK RANGE AND BRUNSWICK POINT CUT RANGE LEAST DEPTH WAS 37.0 FEET, LOCATED 50 FEET INSIDE THE CHANNEL LIMIT FROM THE RIGHT SIDE.

E. THE EAST RIVER TURNING BASIN LEAST DEPTHS WERE 38.0 FEET 100 FEET FROM BACKSIDE, 37.5 FEET 400 FEET FROM BACKSIDE AND 36.0 FEET 600 FEET FROM BACKSIDE.

F. THE EAST RIVER ENTRANCE TO SECOND AVE WIDENER LEAST DEPTHS WERE 26.0 FEET LOCATED 50 FEET INSIDE THE CHANNEL LIMIT AND 35.5 FEET LOCATED 150 FEET INSIDE THE CHANNEL LIMIT FROM THE LEFT SIDE, AND 41.5 FEET LOCATED 50 FEET INSIDE THE CHANNEL LIMIT FROM THE RIGHT SIDE.

G. THE SOUTH BRUNSWICK RIVER TURNING BASIN LEAST DEPTHS WERE 40.0 FEET, 100 FEET AND 40.0 FEET, 400 FEET FROM THE LEFT SIDE AND 40.0 FEET, 100 FEET AND 39.5 FEET, 400 FEET FROM THE RIGHT SIDE.

H. THE SOUTH BRUNSWICK RIVER GPA DOCK LEAST DEPTHS WERE 33.0 FEET ALONG THE DOCK AND 32.0 FEET ON THE RIGHT SIDE.

J. EXCEPT FOR A 35 FEET OBSTRUCTION LOCATED BY A NOS SURVEY OF JUL 2006 AT 31°04'15.5"N, 081°16'57.4"W.

K. EXCEPT FOR A DANGEROUS WRECK LOCATED IN APPROXIMATE POSITION 31°08'49.8"N, 81°29'59.3"W.

NOTE - FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 50 FEET INSIDE THE CHANNEL LIMITS. (EXCEPT FOR THE EAST RIVER TURNING BASIN)

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

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Chart 11512

NM 38/11

SAVANNAH RIVER CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2011								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH MLLW (FEET)
TYBEE RANGE	44.0	44.0	45.0	43.0	7-11	600	3.79	44
BLOODY POINT RANGE	43.0	44.0	45.0	42.5	7-11	600	3.41	44
JONES ISLAND RANGE	43.5	44.0	45.0	44.0	7-11	600	1.33	44
TYBEE KNOLL CUT RANGE	43.5	44.0	44.5	43.0	7-11	500	2.84	42
NEW CHANNEL RANGE (A)	39.0	43.0	44.0	42.0	7-11	500	1.89	42
L. I. CROSSING RANGE	40.5	41.5	42.5	41.0	7-11	500	3.03	42
LOWER FLATS RANGE	39.5	45.0	44.5	42.5	7-11	500	1.52	42
UPPER FLATS RANGE	42.5	44.0	45.0	42.5	7-11	500	1.33	42
THE BIGHT CHANNEL	45.5	46.0	46.5	47.0	7-11	500	1.7	42
FT. JACKSON RANGE	43.5	46.0	46.0	42.5	7-11	500	0.76	42
OGLETHORPE RANGE	38.5	45.0	44.5	43.0	7-11	500	1.33	42
WRECKS CHANNEL (B)	38.0	44.5	46.0	43.5	7-11	500	1.7	42
CITY FRONT CHANNEL	43.0	44.5	46.0G	40.5	7-11	500	1.7	42
MARSH ISLAND CHANNEL (C)	40.0H	41.0	44.5	39.0	7-11	500	1.9	42
KINGS ISLAND CHANNEL (D)	38.0	40.0	42.0	39.0I	7-11	500	2.46	42
WHITEHALL CHANNEL (E)	37.0	38.5	32.0	34.0	7-11	400	0.66	42-36
PORT WENTWORTH CHANNEL (F)	30.0J	29.5	29.0	32.0	12-94; 7-11	200	1.33	30

A. OYSTER BED I. TURNING BASIN-CONTROLLING DEPTH 43.0 FT, 40.0 FT 100 FT FROM BACKSIDE.
 B. FIG ISLAND TURNING BASIN-CONTROLLING DEPTH 38.0 FT, 25.0 FT 100 FT FROM BACKSIDE.
 C. MARSH ISLAND TURNING BASIN-CONTROLLING DEPTH 32.0 FT, 24.5 FT 100 FT FROM BACKSIDE.
 D. KINGS ISLAND TURNING BASIN-CONTROLLING DEPTH 42.0 FT, 35.0 FT 100 FT FROM BACKSIDE.
 E. ARGYLE ISLAND TURNING BASIN-CONTROLLING DEPTH 28.0 FT 100 FT FROM BACKSIDE.
 F. PORT WENTWORTH TURNING BASIN-CONTROLLING DEPTH 28.0 FT, 16.5 FT 100 FT FROM BACKSIDE.
 G. EXCEPT FOR A 41 FOOT OBSTRUCTION LOCATED BY A NOS SURVEY AT 32°05'00.06"N 81°05'27.07"W
 H. EXCEPT FOR A 39 FOOT OBSTRUCTION LOCATED BY A NOS SURVEY AT 32°05'18.29"N 81°05'58.99"W
 I. EXCEPT FOR A 38 FOOT OBSTRUCTION LOCATED BY A NOS SURVEY AT 32°07'27.45"N 81°08'02.29"W
 J. EXCEPT FOR A 31 FOOT OBSTRUCTION LOCATED BY A NOS SURVEY AT 32°09'15.04"N 81°09'11.46"W

NOTE: AT MEAN HIGH WATER, DEPTHS ARE ABOUT 7 FEET GREATER AT LOWER END OF THE HARBOR AND 7.7 FEET GREATER AT UPPER END OF HARBOR.
 NOTE: FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 75 FEET INSIDE THE CHANNEL LIMITS.
 NOTE: CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11514 (Side A)

NM 38/11

SAVANNAH RIVER CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2011								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH MLLW (FEET)
OGLETHORPE RANGE	38.5	45.0	44.5	43.0	7-11	500	1.33	42
WRECKS CHANNEL (A)	38.0	44.5	46.0	43.5	7-11	500	1.7	42
CITY FRONT CHANNEL	43.0	44.5	46.0F	40.5	7-11	500	1.7	42
MARSH ISLAND CHANNEL (B)	40.0G	41.0	44.5	39.0	7-11	500	1.9	42
KINGS ISLAND CHANNEL (C)	38.0	40.0	42.0	39.0H	7-11	500	2.46	42
WHITEHALL CHANNEL (D)	37.0	38.5	32.0	34.0	6-11	400	0.66	42-36
PORT WENTWORTH CHANNEL (E)	30.0I	29.5	29.0	32.0	12-94; 7-11	200	1.33	30

A. FIG ISLAND TURNING BASIN-CONTROLLING DEPTH 38.0 FT, 25.0 FT 100 FT FROM BACKSIDE.
 B. MARSH ISLAND TURNING BASIN-CONTROLLING DEPTH 32.0 FT, 24.5 FT 100 FT FROM BACKSIDE.
 C. KINGS ISLAND TURNING BASIN-CONTROLLING DEPTH 42.0 FT, 35.0 FT 100 FT FROM BACKSIDE.
 D. ARGYLE ISLAND TURNING BASIN-CONTROLLING DEPTH 28.0 FT 100 FT FROM BACKSIDE.
 E. PORT WENTWORTH TURNING BASIN-CONTROLLING DEPTH 28.0 FT, 16.5 FT 100 FT FROM BACKSIDE.
 F. EXCEPT FOR A 41 FOOT OBSTRUCTION LOCATED BY A NOS SURVEY AT 32°05'00.06"N 81°05'27.07"W
 G. EXCEPT FOR A 39 FOOT OBSTRUCTION LOCATED BY A NOS SURVEY AT 32°05'18.29"N 81°05'58.99"W
 H. EXCEPT FOR A 38 FOOT OBSTRUCTION LOCATED BY A NOS SURVEY AT 32°07'27.45"N 81°08'02.29"W
 I. EXCEPT FOR A 31 FOOT OBSTRUCTION LOCATED BY A NOS SURVEY AT 32°09'15.04"N 81°09'11.46"W

NOTE: AT MEAN HIGH WATER, DEPTHS ARE ABOUT 7 FEET GREATER AT LOWER END OF THE HARBOR AND 7.7 FEET GREATER AT UPPER END OF HARBOR.
 NOTE: FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 75 FEET INSIDE THE CHANNEL LIMITS.
 NOTE: CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SECTION I

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Chart 11516

NM 38/11

PORT ROYAL SOUND AND BEAUFORT RIVER CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2011 AND SURVEYS TO JUN 2011							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH MLLW (FEET)
ENTRANCE CHANNEL	20.4	16.1	15.0	6-11	500	5.2	27
BAYPOINT REACH	24.9	25.2	26.3	6-11	500	7.3	27
FORT FREMONT REACH	24.3	23.1	24.0	6-11	300-500	3.2	24
COWEN REACH	24.0	23.5	23.3	6-11	300	2.1	24
CAT ISLAND REACH	24.1	24.9	24.8	6-11	300	1.6	24
PORT ROYAL REACH	21.9	22.7	23.0	6-11	300	1.2	24
TURNING BASIN	22.0	20.0	26.7	6-11	600	0.2	27

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11524

NM 38/11

CHARLESTON HARBOR, COOPER RIVER AND SHIPYARD RIVER TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS- SURVEYS TO JUN 2011								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS			
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH MLLW (FEET)
ENTRANCE CHANNEL	45.2	48.5	48.4	46.1	3-11	1000	17.5	A47
MOUNT PLEASANT RANGE	45.6	49.0	49.5	49.1	12-10	1000-600	1.8	A45
REBELLION REACH	46.6	48.7	49.0	47.4	12-10	600	1.6	45
BENNIS REACH	45.7	48.5	48.3	47.9	12-10	600	1.5	45
HORSE REACH	50.3	50.6	49.6	45.3	12-10	VARIES	0.6	45
CUSTOMHOUSE REACH	35.0	49.0	48.0	47.0	4-10	1385	0.2	45
SOUTH CHANNEL	25.0	25.0	25.0	B25.0	10-96; 11/10	600-1000	3.6	45
HOG ISLAND REACH	47.6	47.6	46.6	B38.6	12-10	800-600	1.6	45
DRUM ISLAND REACH	44.8	49.6	48.7	45.7	9-10	1200-600	0.8	45
TIDEWATER REACH	36.1	34.0	34.2	34.2	12-10	650	0.7	40
TOWN CREEK LOWER REACH	37.0	42.0	44.3	45.0	12-10	450-400	1.1	45
TOWN CREEK LOWER REACH TB	38.5	38.9	38.9	37.4	12-10	300	0.25	35
TOWN CREEK UPPER REACH	40.6	40.1	40.1	39.1	12-10	250	1.0	16
MYERS BEND	49.7	48.7	47.8	41.8	9-10	900-1500	0.5	45
DANIEL ISLAND REACH	44.7	45.5	43.9	37.9	9-10	880	1.4	45
DANIEL ISLAND BEND	49.0	50.4	51.2	49.8	9-10	800-700	0.5	45
CLOUTER CREEK REACH	46.8	48.2	48.1	45.5	9-10	600	1.3	45
NAVY YARD REACH	45.0	48.6	47.7	41.1	9-10	600-700	1.1	45
NORTH CHARLESTON REACH	46.8	49.4	48.0	47.0	9-10	500-600	1.0	45
FILBIN CREEK REACH	45.5	46.7	49.3	48.4	9-10	500	0.9	45
PORT TERMINAL REACH	44.5	46.0	48.8	47.4	9-10	600	0.7	45
ORDNANCE REACH	37.1	36.9	42.2	43.0	9-10	600	0.4	45
ORDNANCE REACH TURNING BASIN	44.8	35.7	35.7	32.8	9-10	800	0.4	45
WANDO RIVER								
LOWER REACH	45.8	47.8	48.0	43.2	9-10	1500-400	1.4	45
UPPER REACH	47.7	43.1	42.7	43.5	9-10	850-600	0.9	45
TURNING BASIN	43.3	48.1	48.1	47.0	9-10	550	0.4	45
SHIPYARD CREEK								
MAIN CHANNEL	26.8	28.2	28.2	24.6	2-11	1200-200	1.1	45-30
LOWER TURNING BASIN	48.6	47.9	47.9	46.0	2-11	VARIES	0.2	45
UPPER TURNING BASIN	14.0	20.7	20.7	19.6	2-07; 5-10; 2-11	VARIES	0.1	30
COOPER RIVER								
RANGE A	39.0	39.0	39.0	37.0	6-11	400-650	1.2	35
RANGE B	32.6	35.1	35.1	35.0	3-10; 6-11	500-700	0.9	35
RANGE C	22.0	32.8	39.0	35.0	1-99; 12-03; 6-11	550-1000	0.9	35
RANGE D	29.8	30.0	28.0	26.0	3-10; 6-11	400-650	0.7	35
RANGE E	31.0	36.0	38.0	38.0	6-11	350-650	0.4	35
RANGE F	25.0	34.0	36.0	34.0	1-95; 6-11	650-800	0.3	35

A. FOR WIDTH OF 1000 FEET, THE PROJECT DEPTH IS 42 FEET FOR OUTER 100 FEET.
B. ALONG CHANNEL EDGE.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SECTION I

Chart 11527

NM 38/11

COOPER RIVER TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS AND SURVEYS TO JUN 2011								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
COOPER RIVER								
RANGE A	39.0	39.0	39.0	37.0	6-11	400-650	1.02	35
RANGE B	32.6	35.1	35.1	35.0	3-10; 6-11	500-700	.74	35
RANGE C	22.0	32.8	39.0	35.0	1-9; 12-03; 6-11	550-1000	.76	35
RANGE D	29.8	30.0	28.0	26.0	3-10; 6-11	400-650	.58	35
RANGE E	31.0	36.0	38.0	38.0	6-11	350-650	.38	35
RANGE F	25.0	34.0	38.0	34.0	1-95; 6-11	650-800	.29	35

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 14850

NM 38/11

ST. CLAIR RIVER CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS AND PUBLIC WORKS CANADA - SURVEYS TO AUG 2010								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH LWD (FEET)
ST. CLAIR CUTOFF	23.0	27.6	25.6	17.4	4,5,7-02; 10-07; 6-10	700	5.3	27
SOUTHEAST BEND	27.7	31.3	30.4	24.6	7-06; 8-08	700	1.0	27
SOUTHEAST BEND TO RUSSELL I.	19.5	27.1	27.1	23.7A	8-06; 8-08	700-1000	4.3	27
RUSSELL I. TO LT BY "37"	25.3B	27.3	28.5	25.5C	8-08; 6,7-10	1000	3.6	27
LT BY "37" TO MARINE CITY	24.7	29.6	29.9	26.7	7,8-10	1000	4.3	27

A. SHOALING TO 14.5 FEET IN OUTSIDE 40 FEET OF QUARTER.
 B. SHOALING TO 22.3 FEET FROM 42°38'41.4" N 82°30'43.4" W TO 42°38'49.1" N 82°30'44.0" W
 C. SHOALING TO 14.8 FEET AT 42°36'42.0" N 82°31'04.7" W.
 NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 14852

NM 38/11

ST. CLAIR RIVER CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS AND PUBLIC WORKS CANADA - SURVEYS TO SEP 2010								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH LWD (FEET)
ST. CLAIR CUTOFF	23.0	27.6	25.6	17.4	4,5,7-02; 10-07; 6-10	700	5.3	27
SOUTHEAST BEND	27.7	31.3	30.4	24.6	7-06; 8-08	700	1.0	27
SOUTHEAST BEND TO RUSSELL I.	19.5	27.1	27.1	23.7A	8-06; 8-08	700-1000	4.3	27
RUSSELL I. TO LT BY "37"	25.3B	27.3	28.5	25.5C	8-08; 6,7-10	1000	3.6	27
LT BY "37" TO MARINE CITY	24.7	29.6	29.9	26.7	7,8-10	1000	4.3	27
ST. CLAIR TO STAG I.	25.2D	28.3	27.3	25.4	9-10	900-1000	4.3	27
STAG I. TO SARNIA	20.6E	27.1	27.3	25.5F	9-96; 6-99; 8-03; 7-07; 8-08; 9-10	1000-1400	7.9	27

A. SHOALING TO 14.5 FEET IN OUTSIDE 40 FEET OF QUARTER.
 B. SHOALING TO 22.3 FEET FROM 42°38'41.4" N 82°30'43.4" W TO 42°38'49.1" N 82°30'44.0" W
 C. SHOALING TO 14.8 FEET AT 42°36'42.0" N 82°31'04.7" W.
 D. SHOALING TO 14.8 FEET FROM 42°49'40.9" N 82°29'01.7" W TO 42°49'44.5" N 82°29'00.1" W
 E. SHOALING TO 17.9 FEET AT 42°58'21.2" N 82°25'08.0" W
 F. SHOALING TO 24.6 FEET IN OUTSIDE 100 FEET OF QUARTER.
 NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 14853 (Page 37)

NM 38/11

ST. CLAIR RIVER CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS AND PUBLIC WORKS CANADA - SURVEYS TO SEP 2010							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)						PROJECT DIMENSIONS	
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	DEPTH (FEET)
ST. CLAIR CUTOFF	23.0	27.6	25.6	17.4	4,5,7-02; 10-07; 6-10	700	5.3
SOUTHEAST BEND	27.7	31.3	30.4	24.6	7-08; 8-08	700	1.0
SOUTHEAST BEND TO RUSSELL I.	19.5	27.1	27.1	23.7A	8-08; 8-08	700-1000	4.3
RUSSELL I. TO LT BY "37"	25.3B	27.3	28.5	25.5C	8-08; 6,7-10	1000	3.6
LT BY "37" TO MARINE CITY	24.7	29.6	29.9	26.7	7,8-10	1000	4.3
ST. CLAIR TO STAG I.	25.2D	28.3	27.3	25.4	9-10	900-1000	4.3
STAG I. TO SARNIA	20.6E	27.1	27.3	25.5F	9-96; 8-99; 8-03; 7-07; 8-08; 9-10	1000-1400	7.9

A. SHOALING TO 14.5 FEET IN OUTSIDE 40 FEET OF QUARTER.
 B. SHOALING TO 22.3 FEET FROM 42°38'41.4" N 82°30'43.4" W TO 42°38'49.1" N 82°30'44.0" W
 C. SHOALING TO 14.8 FEET AT 42°36'42.0" N 82°31'04.7" W.
 D. SHOALING TO 14.8 FEET FROM 42°49'40.9" N 82°29'01.7" W TO 42°49'44.5" N 82°29'00.1" W
 E. SHOALING TO 17.9 FEET AT 42°58'21.2" N 82°25'08.0" W
 F. SHOALING TO 24.6 FEET IN OUTSIDE 100 FEET OF QUARTER.
 NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18446

NM 38/11

LAKE WASHINGTON SHIP CANAL							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO NOV 2010							
* SEE FOOTNOTE						PROJECT DIMENSIONS	
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH (FEET)
SHILSHOLE BAY ENTRANCE RANGE	A 15.3	26.9	B 2.7	8,9-96	300-100	1.0	34
LARGE LOCK TO LAKE UNION	21.0	26.0	21.0	11-10	100-300	2.2	30
PORTAGE BAY REACH	23.0	25.0	21.0	11-10	350-200	0.8	30
MONTLAKE CUT	17.0	30.0	25.0	11-10	100	0.4	30
UNION BAY REACH	28.0	30.0	18.0	11-10	100-200	0.9	30

A. THE CHANNEL HAS SHOALED ALONG THE EDGE: A DEPTH OF 31.0 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
 B. THE CHANNEL HAS SHOALED ALONG THE EDGE: A DEPTH OF 20.8 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
 * CONTROLLING DEPTHS IN CHANNELS ENTERING FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER BELOW THE LOCKS AND AT LOW REGULATED LAKE LEVEL ABOVE THE LOCKS, PROJECT LENGTHS ARE IN NAUTICAL MILES.
 NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18447 (Side A)

NM 38/11

LAKE WASHINGTON SHIP CANAL							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO NOV 2010							
* SEE FOOTNOTE						PROJECT DIMENSIONS	
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH (FEET)
SHILSHOLE BAY ENTRANCE RANGE	A 15.3	26.9	B 2.7	8,9-96	300-100	1.0	34
LARGE LOCK TO LAKE UNION	21.0	26.0	21.0	11-10	100-300	2.2	30
PORTAGE BAY REACH	23.0	25.0	21.0	11-10	350-200	0.8	30
MONTLAKE CUT	17.0	30.0	25.0	11-10	100	0.4	30
UNION BAY REACH	28.0	30.0	18.0	11-10	100-200	0.9	30

A. THE CHANNEL HAS SHOALED ALONG THE EDGE: A DEPTH OF 31.0 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
 B. THE CHANNEL HAS SHOALED ALONG THE EDGE: A DEPTH OF 20.8 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
 * CONTROLLING DEPTHS IN CHANNELS ENTERING FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER BELOW THE LOCKS AND AT LOW REGULATED LAKE LEVEL ABOVE THE LOCKS, PROJECT LENGTHS ARE IN NAUTICAL MILES.
 NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SECTION I

NM 38/11

Chart 18449

NM 38/11

DUWAMISH WATERWAY							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JAN 2011							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
HARBOR ISLAND REACH	23.3	31.0	25.1	1-11	200	0.5	30
GEORGETOWN REACH	16.1	21.1	20.4	1-11	200	2.1	30
FIRST AVE. 8TH AVE. REACH	16.7	13.8	2.3	1-11	150	0.8	20
14TH AVE. BRIDGE REACH	6.4	7.3	6.0	1-11	150	1.8	15
TURNING BASIN REACH	6.1	11.3	9.6	1-11	150	0.1	15
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 18450

NM 38/11

DUWAMISH WATERWAY							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JAN 2011							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
HARBOR ISLAND REACH	23.3	31.0	25.1	1-11	200	0.5	30
GEORGETOWN REACH	16.1	21.1	20.4	1-11	200	2.1	30
FIRST AVE. 8TH AVE. REACH	16.7	13.8	2.3	1-11	150	0.8	20
14TH AVE. BRIDGE REACH	6.4	7.3	6.0	1-11	150	1.8	15
TURNING BASIN REACH	6.1	11.3	9.6	1-11	150	0.1	15
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 18583

NM 38/11

SIUSLAW RIVER							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUN 2011 AND SURVEYS TO JUN 2011							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH MLLW (FEET)
SIUSLAW RIVER ENTRANCE							
ENTRANCE TO BUOY 11	12	11	18	6-11	300	0.8	18
BUOY 11 TO LIGHT 18	14	16	17	6-11	200	0.6	16
CANNERY HILL REACH	13	12	11	3-11	200	1.3	16
SPRUCE POINT BEND	9	11	12	5-11	200	1.7	16
FLORENCE							
MILE 4.0 TO HIGHWAY BRIDGE	9	11	12	5-11	200	0.6	16
TURNING BASIN	15	14	7	5-11	400	1.1	16
TURNING BASIN TO ROSE HILL	9	9	9	5-11	150	0.9	12
NORTH FORK SHOAL	9	10	10	11-10	150	1.5	12
CUSHMAN	11	11	11	11-10	150	0.9	12
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 18584

NM 38/11

UMPQUA RIVER CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2011 AND SURVEYS TO JUL 2011							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH MLLW (FEET)
UMPQUA RIVER ENTRANCE							
ENTRANCE CHANNEL	22	24	27	7-11	—	1.2	26
UMPQUA RIVER TURN	22	22	24	7-11	200	1.3	22
SALMON HARBOR REACH	22	22	21	6-11	200	2.1	22
BARRETT'S RANGE	19	20	20	3-11	200	2.0	22
MILE SIX BAR	21	21	21	3-11	200	2.2	22
CANNERY SANDS							
JCT TO LEEDS ISLAND LIGHT	15	15	14	4-11	200	1.8	22
GARDINER CHANNEL	13	12	4	4-11	200	1.2	22
TURNING BASIN	5	3	1	4-11	—	0.2	22
REEDSPORT REACH							
CHANNEL (9.65-10.8)	17	17	17	5-11	200	1.15	22
TURNING BASIN	22	25	23	5-11	600	0.2	22
CHANNEL (11.0-11.8)	13	13	8	5-11	200	0.8	22
WINCHESTER BAY							
WEST CHANNEL	10	11	12	1-11	100	0.9	16
EAST CHANNEL (0.0-0.7)	15	12	14	1-11	100	0.9	16
EAST CHANNEL (0.7-0.9)	—	5	—	1-11	75	—	12

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18588

NM 38/11

COQUILLE RIVER CHANNEL							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2011 AND SURVEYS TO JUN 2011							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH MLLW (FEET)
ENTRANCE TO PORT DOCK	13	11	10	6-11	200	0.7	13.0
PORT DOCK TO MILE 1.3	12	13	14	6-11	150	0.5	13.0

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION