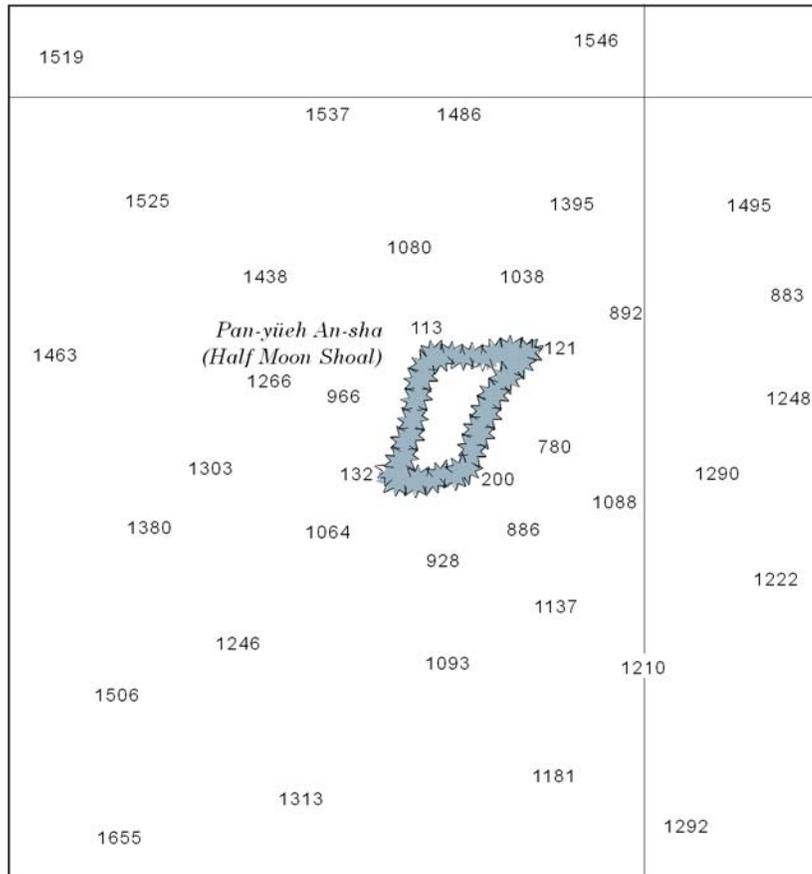


Chart 93046

NM 27/13



SECTION I

Chart 11478

NM 27/13

PORT CANAVERAL CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO DEC 2012								
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	40.8	39.3	39.4	38.4	12-12	400	4.7	44
MIDDLE REACH	40.3	39.3	39.2	37.4	12-12	400	0.9	44
INNER REACH	30.2	41.9	41.5	37.8	12-12	400	0.7	40
WEST ACCESS CHANNEL (EAST PORTION)	37.8	41.0	40.8	38.1	12-12	400	0.3	39
WEST ACCESS CHANNEL (WEST PORTION)	37.7	39.1	39.1	39.5	12-12	400	0.3	31
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 11481

NM 27/13

PORT CANAVERAL CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO DEC 2012								
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	40.8	39.3	39.4	38.4	12-12	400	4.7	44
MIDDLE REACH	40.3	39.3	39.2	37.4	12-12	400	0.9	44
INNER REACH	30.2	41.9	41.5	37.8	12-12	400	0.7	40
WEST ACCESS CHANNEL (EAST PORTION)	37.8	41.0	40.8	38.1	12-12	400	0.3	39
WEST ACCESS CHANNEL (WEST PORTION)	37.7	39.1	39.1	39.5	12-12	400	0.3	31
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 11505

NM 27/13

SAVANNAH RIVER CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2013								
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	42.0	42.0	44.0	41.0	4-13	600	3.79	44
BLOODY POINT RANGE	41.0	43.0	43.0	40.5	4-13	600	3.41	44
JONES ISLAND RANGE	42.5	42.0	43.0	42.5	4-13	600	1.33	44
TYBEE KNOLL CUT RANGE	41.5	43.0	43.5	42.0	4-13	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								

Chart 11506

NM 27/13

BRUNSWICK HARBOR CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2013								
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 THRU TURTLE RIVER								
ST. SIMONS RANGE	33.0	34.5	34.0	32.0	3-13	500	9.7	38
PLANTATION CREEK RANGE (A)	37.0	39.5	41.5	42.0	3-13	400	1.8	36
JEKYLL ISLAND RANGE (B)	39.5	39.0	38.0	37.5	3-13	400	1.9	36
CEDAR HAMMOCK RANGE (C)	36.5	36.5	36.0	33.0	3-13	400	1.4	36
BRUNSWICK POINT CUT RANGE	35.0	36.0	38.0	36.0	3-13	400	2.4	36
TURTLE RIVER LOWER RANGE	37.0	37.0	37.5	37.5	3-13	400	1.8	36
BLYTHE ISLAND RANGE	30.0	29.5	28.0	27.0	3-13	300	1.5	30
TURTLE RIVER UPPER RANGE	30.5	30.5	28.5	27.0	3-13	300	2.7	30
EAST RIVER (D)								
ENTRANCE TO SECOND AVE (E)	38.0	35.0	35.5	35.0	3-13	400	1.2	37- 41
SECOND AVE TO MAYOR'S POINT	36.0	36.0	37.0	36.0	3-13	400	1.0	36
SOUTH BRUNSWICK RIVER (F & G)	36.5	37.5	37.0	35.5	3-13	400	1.3	36
<p>A. 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.</p> <p>B. THE WIDENER AT INTERSECTION OF JEKYLL ISLAND RANGE AND CEDAR HAMMOCK RANGE LEAST DEPTH WAS 38.0 FEET, LOCATED 75 FEET INSIDE THE CHANNEL LIMIT FROM THE RIGHT SIDE.</p> <p>C. THE WIDENER AT INTERSECTION OF CEDAR HAMMOCK RANGE AND BRUNSWICK POINT CUT RANGE LEAST DEPTH WAS 36.0 FEET, LOCATED 50 FEET INSIDE THE CHANNEL LIMIT FROM THE RIGHT SIDE.</p> <p>D. THE EAST RIVER TURNING BASIN LEAST DEPTHS WERE 41.0 FEET 100 FEET FROM BACKSIDE, 38.5 FEET 400 FEET FROM BACKSIDE AND 38.0 FEET 600 FEET FROM BACKSIDE.</p> <p>E. THE EAST RIVER ENTRANCE TO SECOND AVE WIDENER LEAST DEPTHS WERE 37.0 FEET LOCATED 50 FEET INSIDE THE CHANNEL LIMIT AND 38.0 FEET LOCATED 150 FEET INSIDE THE CHANNEL LIMIT FROM THE LEFT SIDE, AND 42.0 FEET LOCATED 75 FEET INSIDE THE CHANNEL LIMIT FROM THE RIGHT SIDE.</p> <p>F. 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 39.0 FEET, 400 FEET FROM THE RIGHT SIDE.</p> <p>G. THE SOUTH BRUNSWICK RIVER GPA DOCK LEAST DEPTHS WERE 35.5 FEET ALONG THE DOCK AND 37.0 FEET ON THE RIGHT SIDE.</p> <p>H. 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.</p> <p>I. EXCEPT FOR A DANGEROUS WRECK LOCATED IN APPROXIMATE POSITION 31°08'49.8"N, 81°29'59.3"W.</p> <p>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)</p> <p>NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION</p>								

SECTION I

NM 27/13

Chart 11512

NM 27/13

SAVANNAH RIVER CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2013								
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	42.0	42.0	44.0	41.0	4-13	600	3.79	44
BLOODY POINT RANGE	41.0	43.0	43.0	40.5	4-13	600	3.41	44
JONES ISLAND RANGE	42.5	42.0	43.0	42.5	4-13	600	1.33	44
TYBEE KNOLL CUT RANGE	41.5	43.0	43.5	42.0	4-13	500	2.84	42
NEW CHANNEL RANGE (A)	40.0	42.5	43.5	42.0	4-13	500	1.89	42
L. I. CROSSING RANGE	42.0	41.0	43.5	42.5	4-13	500	3.03	42
LOWER FLATS RANGE	44.0	44.0	44.0	40.0	4-13	500	1.52	42
UPPER FLATS RANGE	45.0	45.5	46.0	41.5	4-13	500	1.33	42
THE BIGHT CHANNEL	45.0	45.5	48.0	46.5	4-13	500	1.7	42
FT. JACKSON RANGE	43.0	46.5	48.0	43.5	4-13	500	0.76	42
OGLETHORPE RANGE	40.0	45.0	48.0	44.0	4-13	500	1.33	42
WRECKS CHANNEL (B)	38.5	42.0	48.5	44.5	4-13	500	1.7	42
CITY FRONT CHANNEL	41.5	44.5	46.5G	36.5	4-13	500	1.7	42
MARSH ISLAND CHANNEL (C)	41.0H	43.0	44.0	40.5	4-13	500	1.9	42
KINGS ISLAND CHANNEL (D)	38.5	42.5	42.5	40.5I	4-13	500	2.46	42
WHITEHALL CHANNEL (E)	27.5	30.0	32.5	34.0	4-13	400	0.66	42-36
PORT WENTWORTH CHANNEL (F)	30.0J	25.5	25.0	32.0	12-94; 4-13	200	1.33	30

A. OYSTER BED I. TURNING BASIN-CONTROLLING DEPTH 43.0 FT, 38.5 FT 100 FT FROM BACKSIDE.
 B. FIG ISLAND TURNING BASIN-CONTROLLING DEPTH 39.0 FT, 32.0 FT 100 FT FROM BACKSIDE.
 C. MARSH ISLAND TURNING BASIN-CONTROLLING DEPTH 30.0 FT, 24.0 FT 100 FT FROM BACKSIDE.
 D. KINGS ISLAND TURNING BASIN-CONTROLLING DEPTH 45.0 FT, 49.0 FT 100 FT FROM BACKSIDE.
 E. ARGYLE ISLAND TURNING BASIN-CONTROLLING DEPTH 26.0 FT 100 FT FROM BACKSIDE.
 F. PORT WENTWORTH TURNING BASIN-CONTROLLING DEPTH 25.0 FT, 15.0 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 27/13

SAVANNAH RIVER CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2013								
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	40.0	45.0	48.0	44.0	4-13	500	1.33	42
WRECKS CHANNEL (A)	38.5	42.0	48.5	44.5	4-13	500	1.7	42
CITY FRONT CHANNEL	41.5	44.5	46.5F	36.5	4-13	500	1.7	42
MARSH ISLAND CHANNEL (B)	41.0G	43.0	44.0	40.5	4-13	500	1.9	42
KINGS ISLAND CHANNEL (C)	38.5	42.5	42.5	40.5H	4-13	500	2.46	42
WHITEHALL CHANNEL (D)	27.5	30.0	32.5	34.0	4-13	400	0.66	42-36
PORT WENTWORTH CHANNEL (E)	30.0I	25.5	25.0	32.0	12-94; 4-13	200	1.33	30

A. FIG ISLAND TURNING BASIN-CONTROLLING DEPTH 39.0 FT, 32.0 FT 100 FT FROM BACKSIDE.
 B. MARSH ISLAND TURNING BASIN-CONTROLLING DEPTH 30.0 FT, 24.0 FT 100 FT FROM BACKSIDE.
 C. KINGS ISLAND TURNING BASIN-CONTROLLING DEPTH 45.0 FT, 49.0 FT 100 FT FROM BACKSIDE.
 D. ARGYLE ISLAND TURNING BASIN-CONTROLLING DEPTH 26.0 FT 100 FT FROM BACKSIDE.
 E. PORT WENTWORTH TURNING BASIN-CONTROLLING DEPTH 25.0 FT, 15.0 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

NM 27/13

Chart 11524

NM 27/13

CHARLESTON HARBOR, COOPER RIVER AND SHIPYARD RIVER TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS-SURVEYS TO MAR 2013								
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	45.5	48.6	47.4	46.3	9-12	A1000	17.5	B47
MOUNT PLEASANT RANGE	46.1	49.3	49.9	48.4	1-13	1000-600	1.8	45
REBELLION REACH	46.3	48.5	49.0	46.4	1-13	600	1.6	45
BENNIS REACH	45.2	48.7	47.9	47.4	1-13	600	1.5	45
HORSE REACH	51.5	50.5	52.3	43.9	1-13	(C) 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	D25.0	10-96; 11-10	600-1000	3.6	45
HOG ISLAND REACH	43.1	46.2	46.2	43.7	1-13	(E) 800-600	1.7	45
DRUM ISLAND REACH	43.9	48.1	48.7	47.2	1-13	1200-600	0.8	45
TIDEWATER REACH	F36.6	F34.9	F34.5	F35.4	1-13	650	0.7	45
TOWN CREEK LOWER REACH	F38.4	F42.4	F45.5	F44.8	1-13	450-400	1.1	45
TOWN CREEK LOWER REACH TB	43.6	37.1	37.1	37.8	1-13	300	0.25	35
TOWN CREEK UPPER REACH	40.7	40.5	40.5	41.7	7-11	250	1.0	16
MYERS BEND	49.8	49.1	47.7	46.8	1-13	VARIES	0.5	45
DANIEL ISLAND REACH	47.5	47.5	46.4	43.2	3-13	880	1.4	45
DANIEL ISLAND BEND	49.3	51.0	51.0	49.8	3-13	(G) 800-700	0.5	45
CLOUTER CREEK REACH	45.6	48.1	47.9	45.2	3-13	600	1.3	45
NAVY YARD REACH	47.0	47.3	48.2	45.5	3-13	600-700	1.1	45
NORTH CHARLESTON REACH	48.0	49.3	49.6	46.9	3-13	500-600	1.0	45
FILBIN CREEK REACH	43.5	47.8	50.1	46.9	3-13	500	0.9	45
PORT TERMINAL REACH	43.5	47.2	49.3	47.4	3-13	600	0.7	45
ORDNANCE REACH	34.8	36.4	41.4	41.0	3-13	600	0.4	45
ORDNANCE REACH TURNING BASIN	50.3	47.8	47.8	47.8	3-13	800	0.4	45
WANDO RIVER								
LOWER REACH	47.7	49.3	49.3	45.2	1-13	1500-400	1.4	45
UPPER REACH	F44.6	F44.9	F46.8	F44.4	1-13	850-600	0.9	45
TURNING BASIN	46.3	47.7	49.3	46.6	1-13	550	0.4	45
SHIPYARD CREEK								
MAIN CHANNEL	25.9	28.0	28.0	23.7	9-12	1200-200	1.1	45-30
LOWER TURNING BASIN	37.0	39.8	39.8	35.7	9-12	VARIES	0.2	45
UPPER TURNING BASIN	21.9	21.3	21.3	21.0	9-12	VARIES	0.1	30
COOPER RIVER								
RANGE A	39.0	39.0	39.0	H37.0	6-11; 9-11	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. MAINTAINED 800 FEET WIDE.
 B. FOR WIDTH OF 1000 FEET, THE PROJECT DEPTH IS 42 FEET FOR OUTER 100 FEET.
 C. ONLY REPORTING 600' WIDTH FROM RIGHT TOE OF CHANNEL.
 D. ALONG CHANNEL EDGE.
 E. ONLY REPORTING 300' WIDTH FROM LEFT AND RIGHT OF CENTERLINE.
 F. NEAR END OF PIER.
 G. REPORTING 300' LEFT AND RIGHT OF CENTERLINE.
 H. 31.0 FT ALONG CHANNEL EDGE.
 NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SECTION I

NM 27/13

Chart 11532

NM 27/13

WINYAH BAY AND GEORGETOWN HARBOR								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2013 AND SURVEYS TO FEB 2013								
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	25.8	25.4	21.5	13.8	2-13	600	2.4	27
RANGE B	24.6	29.5	28.1	23.7	2-13	600	1.0	27
SOUTH ISLAND BEND (A)	32.9	31.8	24.1	19.9	2-13	600	0.5	27
RANGE C	18.9	19.9	19.9	25.3	2-13	400	1.7	27
RANGE D	27.0	27.1	27.1	28.6	2-13	400B	1.7	27
RANGE E	22.6	23.7	23.7	23.5	2-13	400B	5.7	27
FRAZIER PT. BEND	21.1	21.6	21.6	21.0	2-13	400B	0.7	27
RABBIT ISLAND CHANNEL	23.9	23.7	23.7	23.1	2-13	400B	2.2	27
SAMPIT RIVER CHANNEL	5.4	4.1	4.1	4.9	2-13	400B	1.3	27
STEELMILL CHANNEL	8.6	7.7	7.7	5.1	2-13	VARIES	0.3	27
PAPERMILL CHANNEL	17.2	21.1	21.1	20.7	2-13	VARIES	0.3	27
BYPASS CHANNEL	—	6.7	6.7	—	2-13	400C	1.2	18D

(A) THE LOWER PORTION OF SOUTH ISLAND BEND IS NOT SHOWN ON THE TAB DUE TO SEVERE SHOALING. CHANNEL LIMITS HAVE BEEN REMOVED AND HYDROGRAPHY SHOWN ON CHART. BUOYS MARK THE DEEPER WATER.
 (B) MAINTAINED 300'
 (C) MAINTAINED 100'
 (D) MAINTAINED 12'

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

Chart 12221

NM 27/13

THIMBLE SHOAL AND CHESAPEAKE BAY ENTRANCE CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 2012								
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)
THIMBLE SHOAL CHANNEL (A)	48.3	50.3	50.0	47.1	7-11	1000	13.0	55
NORTH AUXILIARY CHANNEL (B)						450		32
SOUTH AUXILIARY CHANNEL (B)						450		32
CAPE HENRY CHANNEL	45.6	50.0	47.9	43.5	10-11	1000	4.0	50
YORK SPIT CHANNEL	39.9	49.5	50.1	44.8	10,11-11	1000C	18.4	50
YORK RIVER ENTRANCE CHANNEL	36.2	37.9	37.5	36.8	11-11;2-12	750	20.6	37

A. CHANNEL IS RESTRICTED TO EXCLUDE VESSELS AND TOWS DRAWING LESS THAN 25 FEET. CHANNEL MAINTAINED TO 50 FEET.
 B. PROJECT MAINTENANCE DISCONTINUED
 C. CHANNEL WIDTH MAINTAINED TO 800 FEET

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

Chart 12224

NM 27/13

YORK SPIT AND YORK RIVER ENTRANCE CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 2012								
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)
YORK SPIT CHANNEL	39.9	49.5	50.1	44.8	10,11-11	1000A	18.4	50
YORK RIVER ENTRANCE CHANNEL	36.2	37.9	37.5	36.8	11-11;2-12	750	20.6	37

A. CHANNEL WIDTH MAINTAINED TO 800 FEET.

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

SECTION I

Chart 12238

NM 27/13

YORK SPIT AND YORK RIVER ENTRANCE CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 2012								
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)
YORK SPIT CHANNEL	39.9	49.5	50.1	44.8	10,11-11	1000A	18.4	50
YORK RIVER ENTRANCE CHANNEL	36.2	37.9	37.5	36.8	11-11;2-12	750	20.6	37
A. CHANNEL WIDTH MAINTAINED TO 800 FEET. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 12241

NM 27/13

YORK RIVER ENTRANCE CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 2012								
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)
YORK RIVER ENTRANCE CHANNEL	36.2	37.9	37.5	36.8	11-11; 2-12	750	20.6	37
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 12273

NM 27/13

CHESAPEAKE AND DELAWARE CANAL CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2013								
CONTROLLING DEPTHS IN FEET AT LOCAL MEAN LOWER LOW WATER *						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)	
3400 YARDS SOUTH OF POOLES ISLAND TO THE SOUTH END OF POOLES ISLAND	32.1	36.8	36.2	1-13	450	1.88	35	
SOUTH END OF POOLES ISLAND TO WORTON POINT	35.7	35.7	34.9	1-13	450	4.28	35	
WORTON POINT TO HOWELL POINT	35.0	36.5	35.0	2-13	450	4.75	35	
HOWELL POINT TO GROVE POINT	35.0	36.3	32.5	5-12	450	3.37	35	
GROVE POINT TO TURKEY POINT	35.3	35.4	31.7	4-12	450	3.40	35	
TURKEY POINT TO OLD TOWN POINT WHARF	33.4	34.6	30.7	5-12	450	5.45	35	
OLD TOWN POINT WHARF TO BULL MINNOW POINT	32.0	35.5	32.7	5-12	450	1.79	35	
BULL MINNOW POINT TO CHESAPEAKE CITY BRIDGE	A29.6	31.7	A24.6	3-12	450	3.53	35	
CHESAPEAKE CITY BRIDGE TO BETHEL	30.8	31.3	30.6	3-12	450	1.52	35	
* ENTERING FROM CHESAPEAKE BAY. A. CHESAPEAKE CITY BRIDGE SOUNDINGS ARE 25 FEET NEAR THE EDGE. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

SECTION I

NM 27/13

Chart 12274

NM 27/13

CHESAPEAKE AND DELAWARE CANAL CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2013							
CONTROLLING DEPTHS IN FEET AT LOCAL MEAN LOWER LOW WATER *					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)
SOUTH END OF POOLIS ISLAND TO WORTON POINT	35.7	35.7	34.9	1-13	450	4.28	35
WORTON POINT TO HOWELL POINT	35.0	36.5	35.0	2-13	450	4.75	35
HOWELL POINT TO GROVE POINT	35.0	36.3	32.5	5-12	450	3.37	35
GROVE POINT TO TURKEY POINT	35.3	35.4	31.7	4-12	450	3.40	35
TURKEY POINT TO OLD TOWN POINT WHARF	33.4	34.6	30.7	5-12	450	5.45	35
OLD TOWN POINT WHARF TO BULL MINNOW POINT	32.0	35.5	32.7	5-12	450	1.79	35
BULL MINNOW POINT TO CHESAPEAKE CITY BRIDGE	A29.6	31.7	A24.6	3-12	450	3.53	35
CHESAPEAKE CITY BRIDGE TO BETHEL	30.8	31.3	30.6	3-12	450	1.52	35

* ENTERING FROM CHESAPEAKE BAY.
A. CHESAPEAKE CITY BRIDGE SOUNDINGS ARE 25 FEET NEAR THE EDGE.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12277 (Upper Panel)

NM 27/13

CHESAPEAKE AND DELAWARE CANAL CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2013							
CONTROLLING DEPTHS IN FEET AT LOCAL MEAN LOWER LOW WATER *					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)
TURKEY POINT TO OLD TOWN POINT WHARF	33.4	34.6	30.7	5-12		5.45	35
OLD TOWN POINT WHARF TO BULL MINNOW POINT	32.0	35.5	32.7	5-12		1.79	35
BULL MINNOW POINT TO CHESAPEAKE CITY BRIDGE	A29.6	31.7	A24.6	3-12		3.53	35
CHESAPEAKE CITY BRIDGE TO BETHEL	30.8	31.3	30.6	3-12		1.52	35
BETHEL TO GUTHRIES RUN	28.9	31.4	32.1	3-12		1.13	35
GUTHRIES RUN TO SUMMIT BRIDGE	30.9	33.7	32.5	3-12		1.02	35
SUMMIT BRIDGE TO CONRAIL BRIDGE	34.3	34.2	32.5	3-12		1.65	35
CONRAIL BRIDGE TO ST. GEORGES BRIDGE	31.8	36.9	34.2	3-12		2.27	35
ST. GEORGES BRIDGE TO BIDDLE POINT	31.3	32.7	32.6	3-12		1.87	35
BIDDLE POINT TO REEDY POINT BRIDGE	33.0	34.9	33.2	3-12		1.68	35
REEDY POINT BRIDGE TO DELAWARE RIVER	26.9	33.6	31.8	3-12		1.63	35

* ENTERING FROM CHESAPEAKE BAY.
A. CHESAPEAKE CITY BRIDGE SOUNDINGS ARE 25 FEET NEAR THE EDGE.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SECTION I

NM 27/13

Chart 12278

NM 27/13

CHESAPEAKE AND DELAWARE CANAL CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2013							
CONTROLLING DEPTHS IN FEET AT LOCAL MEAN LOWER LOW WATER *					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH (FEET)
3400 YARDS SOUTH OF POOLES ISLAND TO THE SOUTH END OF POOLES ISLAND	32.1	36.8	36.2	1-13	450	1.88	35
SOUTH END OF POOLES ISLAND TO WORTON POINT	35.7	35.7	34.9	1-13	450	4.28	35

* ENTERING FROM CHESAPEAKE BAY.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18622

NM 27/13

HUMBOLDT BAY AND HARBOR CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 2013								
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 (FEET)
BAR CHANNEL	36	38	39	38	2-13	2100-750	1.0	48
ENTRANCE CHANNEL	37	39	37	32	2-13	750	0.8	48
NORTH BAY CHANNEL	30A	35	31	24	2-13	400-500	3.0	38
EUREKA CHANNEL								
OUTER REACH	30	29	28	15	2-13	400	0.4	38
INNER REACH	13B	13C	16D	13E	2-13	400	1.1	26
SAMOA CHANNEL	36	38	37	35	2-13	400	1.3	38
TURNING BASIN	34	38	37	24	2-13	400-1000	0.3	38
FIELDS LANDING CHANNEL	20	27	26	19	2-13	300	1.9	26
TURNING BASIN	16	22	26	24	2-13	300-800	0.1	26

A. SHOALING TO 12 FEET AT 40°45'27.1"N 124°13'22.9"W
B. SHOALING TO 4 FEET FOR LAST 3,000 FEET OF THE REACH.
C. SHOALING TO 4 FEET FOR LAST 3,000 FEET OF THE REACH.
D. SHOALING TO 9 FEET FOR LAST 3,000 FEET OF THE REACH.
E. SHOALING TO 9 FEET FOR LAST 3,500 FEET OF THE REACH.
NOTE-CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18649

NM 27/13

RICHMOND HARBOR AND SOUTHAMPTON SHOAL CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 2013								
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 (FEET)
SOUTHAMPTON SHOAL CHANNEL	42	45	46	43	2-13	600	1.1	45
RICHMOND HARBOR								
ENTRANCE CHANNEL	36	36	36	36	3-12;2-13	600-550	1.0	38
POINT POTRERO REACH	37	37	37	37	2-13	500-600	1.4	38
POINT POTRERO TURN	36	37	36	35	2-13	600-1250	0.6	38
HARBOR CHANNEL	36	37	37	37	3-12;2-13	850-200	0.5	38
SANTA FE CHANNEL	27	29	29	26	9-09; 3-12	200	0.5	38-30
TURNING BASIN	27	28	27	21	9-09	200-500	0.16	30

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

Chart 18649

NM 27/13

SAN FRANCISCO BAY								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 2013								
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)
MAIN SHIP CHANNEL: ENTRANCE	50.0	53.0	54.0	53.0	3-13	2000	4.3	55
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 18653

NM 27/13

RICHMOND HARBOR AND SOUTHAMPTON SHOAL CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 2013								
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)
SOUTHAMPTON SHOAL CHANNEL	42	45	46	43	2-13	600	1.1	45
RICHMOND HARBOR								
ENTRANCE CHANNEL	36	36	36	36	3-12;2-13	600-550	1.0	38
POINT POTRERO REACH	37	37	37	37	2-13	500-600	1.4	38
POINT POTRERO TURN	36	37	36	35	2-13	600-1250	0.6	38
HARBOR CHANNEL	36	37	37	37	3-12;2-13	850-200	0.5	38
SANTA FE CHANNEL	27	29	29	26	9-09; 3-12	200	0.5	38-30
TURNING BASIN	27	28	27	21	9-09	200-500	0.16	30
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 55133

NM N27/13

OIL AND GAS PIPELINES

Mariners are advised not to anchor or trawl in the vicinity of pipelines. Gas from a damaged pipeline could cause an explosion, loss of a vessel's buoyancy or some other serious hazard. Pipelines are not always buried and their presence may effectively reduce the charted depth.