

Chart 11512

NM 23/11

SAVANNAH RIVER CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 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	43.5	43.5	44.0	42.5	2-11	600	3.79	44
BLOODY POINT RANGE	43.0	44.0	44.0	42.5	1, 2-11	600	3.41	44
JONES ISLAND RANGE	42.0	42.0	43.5	44.0	1, 2-11	600	1.33	44
TYBEE KNOLL CUT RANGE	43.0	44.0	44.0	42.5	1, 2-11	500	2.84	42
NEW CHANNEL RANGE (A)	41.0	42.5	43.5	43.0	3-11	500	1.89	42
L. I. CROSSING RANGE	41.5	42.0	42.5	42.0	3-11	500	3.03	42
LOWER FLATS RANGE	40.5	45.0	44.5	43.5	3-11	500	1.52	42
UPPER FLATS RANGE	43.0	45.0	45.5	43.5	3-11	500	1.33	42
THE BIGHT CHANNEL	44.5	46.5	47.0	48.0	3-11	500	1.7	42
FT. JACKSON RANGE	44.0	47.0	46.5	43.5	3-11	500	0.76	42
OGLETHORPE RANGE	40.5	46.0	45.5	44.5	3-11	500	1.33	42
WRECKS CHANNEL (B)	39.5	43.5	46.0	44.0	3-11	500	1.7	42
CITY FRONT CHANNEL	42.0	45.5	44.5G	37.0	3-11	500	1.7	42
MARSH ISLAND CHANNEL (C)	41.5H	42.0	45.0	41.0	3-11	500	1.9	42
KINGS ISLAND CHANNEL (D)	40.0	40.5	42.0	42.0I	3-11	500	2.46	42
WHITEHALL CHANNEL (E)	28.0	28.5	29.5	31.0	3-11	400	0.66	42-36
PORT WENTWORTH CHANNEL (F)	30.0J	29.5	29.5	32.0	12-94; 3-11	200	1.33	30

A. OYSTER BED I. TURNING BASIN-CONTROLLING DEPTH 44.0 FT, 41.0 FT 100 FT FROM BACKSIDE.
B. FIG ISLAND TURNING BASIN-CONTROLLING DEPTH 38.0 FT, 26.0 FT 100 FT FROM BACKSIDE.
C. MARSH ISLAND TURNING BASIN-CONTROLLING DEPTH 34.0 FT, 27.0 FT 100 FT FROM BACKSIDE.
D. KINGS ISLAND TURNING BASIN-CONTROLLING DEPTH 47.0 FT, 44.0 FT 100 FT FROM BACKSIDE.
E. ARGYLE ISLAND TURNING BASIN-CONTROLLING DEPTH 32.0 FT 100 FT FROM BACKSIDE.
F. PORT WENTWORTH TURNING BASIN-CONTROLLING DEPTH 28.0 FT, 19.0 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 23/11

SAVANNAH RIVER CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 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	40.5	46.0	45.5	44.5	3-11	500	1.33	42
WRECKS CHANNEL (A)	39.5	43.5	46.0	44.0	3-11	500	1.7	42
CITY FRONT CHANNEL	42.0	45.5	44.5F	37.0	3-11	500	1.7	42
MARSH ISLAND CHANNEL (B)	41.5G	42.0	45.0	41.0	3-11	500	1.9	42
KINGS ISLAND CHANNEL (C)	40.0	40.5	42.0	42.0H	3-11	500	2.46	42
WHITEHALL CHANNEL (D)	28.0	28.5	29.5	31.0	3-11	400	0.66	42-36
PORT WENTWORTH CHANNEL (E)	30.0I	29.5	29.5	32.0	12-94; 3-11	200	1.33	30

A. FIG ISLAND TURNING BASIN-CONTROLLING DEPTH 38.0 FT, 26.0 FT 100 FT FROM BACKSIDE.
B. MARSH ISLAND TURNING BASIN-CONTROLLING DEPTH 34.0 FT, 27.0 FT 100 FT FROM BACKSIDE.
C. KINGS ISLAND TURNING BASIN-CONTROLLING DEPTH 47.0 FT, 44.0 FT 100 FT FROM BACKSIDE.
D. ARGYLE ISLAND TURNING BASIN-CONTROLLING DEPTH 32.0 FT 100 FT FROM BACKSIDE.
E. PORT WENTWORTH TURNING BASIN-CONTROLLING DEPTH 28.0 FT, 19.0 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

Chart 14832

NM 23/11

BUFFALO HARBOR CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JAN 2011 AND 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 (FEET)	DEPTH LWD (FEET)
BUFFALO HARBOR:								
SOUTH APPROACH	27.9	28.0	27.3	11.3	5-10	1000	2000	30
SOUTH ENTRANCE	26.5	25.5	24.2	19.7	5-10	1200-400	1950	29
INNER HARBOR SOUTH SECTION	13.2	21.2	22.8	23.4	5-10	1100-1600	3900	28
INNER HARBOR MOORING AREA	18.0	18.5	19.5	21.4	5-10	0-900	4200	23
INNER HARBOR MIDDLE SECTION	20.5	22.6	23.0	21.7	5-10	500-1600	11150	27
NORTH ENTRANCE	22.4	24.4	24.7	22.8	5-10	800	3000	25
INNER HARBOR NORTH SECTION	17.1	19.9	20.8	20.6	5-10	1370-1200	4800	23
BUFFALO RIVER ENTRANCE CHANNEL	8.9	14.3	17.4	13.2	6,7,8,9-10	1600-450	4100	23
BLACK ROCK CANAL:								
ENTRANCE CHANNEL	19.5	19.6	18.4	9.5	5,6,7,8-08	1000-450	2500	21
ENTRANCE TO BLACK ROCK LOCKS	5.7	19.8	20.3	5.0	5,6,7,8-08	500-200	1840	21
THENCE TO BUOY 12	10.9	18.7	19.6	10.9	5,6,7,8-08	200-400	1.7 NM	21

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

Chart 14833

NM 23/11

BUFFALO HARBOR CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JAN 2011 AND 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 (FEET)	DEPTH LWD (FEET)
BUFFALO HARBOR:								
SOUTH APPROACH	27.9	28.0	27.3	11.3	5-10	1000	2000	30
SOUTH ENTRANCE	26.5	25.5	24.2	19.7	5-10	1200-400	1950	29
INNER HARBOR SOUTH SECTION	13.2	21.2	22.8	23.4	5-10	1100-1600	3900	28
INNER HARBOR MOORING AREA	18.0	18.5	19.5	21.4	5-10	0-900	4200	23
INNER HARBOR MIDDLE SECTION	20.5	22.6	23.0	21.7	5-10	500-1600	11150	27
NORTH ENTRANCE	22.4	24.4	24.7	22.8	5-10	800	3000	25
INNER HARBOR NORTH SECTION	17.1	19.9	20.8	20.6	5-10	1370-1200	4800	23
BUFFALO RIVER:								
ENTRANCE CHANNEL	9.9	14.3	17.4	13.2	6,7,8,9-10	1600-450	4100	23
BUFFALO SHIP CANAL	17.9	20.1	20.1	18.4	6,7,8,9-10	125	5500	23
FROM ENTRANCE TO HAMBURG ST	3.4	19.1	19.1	11.2	6,7,8,9-10	150-350	8700	23
FROM HAMBURG ST TO SOUTH PARK STREET BRIDGE	3.2	7.8	7.8	5.0	6,7,8,9-10	150-700	14000	23
FROM SOUTH PARK BRIDGE TO END OF PROJECT	8.1	10.1	10.1	8.7	6,7,8,9-10	150-200	3000	23
BLACK ROCK CANAL:								
ENTRANCE CHANNEL	19.5	19.6	18.4	9.5	5,6,7,8-08	1000-450	2500	21
ENTRANCE TO BLACK ROCK LOCKS	5.7	19.8	20.3	5.0	5,6,7,8-08	500-200	1840	21

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

SECTION I

Chart 14841

NM 23/11

LORAIN HARBOR CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2010 AND REPORTS TO FEB 2011								
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 (FEET)	DEPTH LWD (FEET)
LAKE APPROACH CHANNEL	26.2	26.7	29.0	26.4	6-10	800-525	2000 (a)	29
OUTER HARBOR	25.0	26.6	27.5	23.6	6-10	800-200	2700 (b)	28
EAST MOORING AREA	15.9	17.3	18.5	20.9	6-10	0-580 (c)	1250 (b)	25
WEST MOORING AREA	19.3	16.4	14.5	16.2	6-10	0-1000 (c)	1550 (b)	25
BLACK RIVER CHANNEL :								
FROM EAST PIER LIGHT TO 1000 FEET UPSTREAM (E)	24.1	28.0	28.0	28.0	6-10	220	1000	28
FROM UPSTREAM END OF (E) TO N&W RAILROAD BRIDGE	18.3	26.2	26.2	22.7	6-10	200-400	4400	27
FROM N&W RAILROAD BRIDGE TO THE 21ST STREET BRIDGE	22.5	23.8	23.8	21.1	6-10	200-600	4100	27
FROM 21ST STREET BRIDGE TO WITHIN 400 FEET OF UPSTREAM PROJECT LIMITS	13.6	15.3	15.3	24.9	8-10	200-400	4800	27
LOWER TURNING BASIN	16.9	15.9	15.9	16.7	6-10	0-200	1000 (b)	20
UPPER TURNING BASIN (J)	12.2	12.7	12.7	12.7	6-10	0-700	1200 (b)	21
UPPER TURNING BASIN (K)	7.5	7.6	7.6	8.4	6,8-10	0-400	600 (b)	17
BLACK RIVER CHANNEL, UPSTREAM 400 FEET	16.4	20.6	20.6	16.3	8-10	200	400	24

a. LENGTH VARIES DEPENDING ON THE LOCATION OF THE 29 FOOT CONTOUR IN LAKE ERIE.
b. IRREGULARLY SHAPED, WITH THE WIDTH VARYING.
c. NOT FULLY MAINTAINED.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 14843

NM 23/11

HURON HARBOR CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO NOV 2010 AND REPORTS TO JAN 2011							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (FEET)	DEPTH LWD (FEET)
LAKE APPROACH CHANNEL	25.4	25.4	24.8	11-10	400	8400 A	29.0
ENTRANCE CHANNEL:							
FROM LAKE APPROACH CHANNEL TO END OF THE EAST BREAKWATER	23.9	26.4	26.5	11-10	400-300	700	29.0
FROM END OF EAST BREAKWATER TO SLIP #1	23.0	24.4	7.5	11-10	300-150	1900	28.0
HURON RIVER CHANNEL	23.6	23.9	21.8	11-10	120-350	1500	27.0
TURNING BASIN	10.9	11.0	10.9	11-10	0-400	600	21.0

A. LENGTH VARIES DEPENDING ON THE LOCATION OF THE 29 FOOT CONTOUR IN LAKE ERIE.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 95016

NM 23/11

CAUTIONS

1. Area temporarily dangerous to navigation or anchorage and is under the direct control of naval authorities at Vladivostok. For further details, contact the local maritime authority.
2. Area No. 9 is a former mined area which has been swept and is now considered safe for navigation. For further details, see Sailing Directions.
3. Anchoring, fishing, underwater and dredging operations, trawling and underwater explosions also proceeding with anchor and chain walked out are prohibited.
4. Coastal waters of Korea are mined. Mariners must not enter these waters without obtaining route instructions from the authorities of the Democratic Peoples Republic of Korea.
5. Lights on the coast of North Korea are unreliable, being frequently extinguished.
6. Mariners are warned of many set nets that have been placed along the coast of Korea.
7. This chart is intended for offshore navigation only. Detailed navigational information has been omitted within the 20 meter depth curve contiguous to land areas. Notice to Mariners affecting this chart will only be issued for corrections to wrecks, obstructions, offshore hydrography, principal navigational aids and electronic navigational information.
8. Only the principal lights are shown on this chart. For details of these and other lights, the larger scale charts and List of Lights should be consulted.

Chart 97021

NM 23/11

CAUTIONS

1. This chart is intended for offshore navigation only. Detailed navigational information has been omitted within the 20 meter depth curve contiguous to land areas. Notice to Mariners affecting this chart will only be issued for corrections to wrecks, obstructions, offshore hydrography, principal navigational aids and electronic navigational information.
2. Only the principal lights are shown on this chart. For details of these and other lights, the larger scale charts and List of Lights should be consulted.