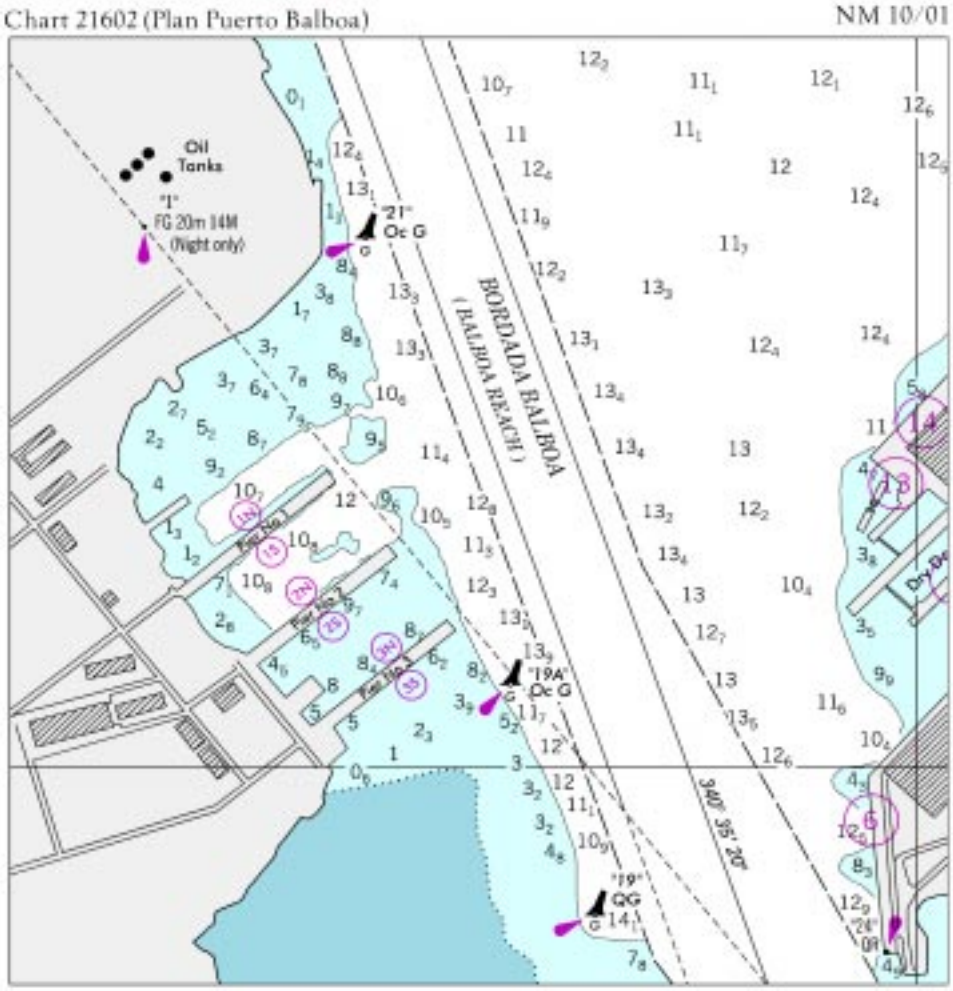
Chart 21602 (Plan Puerto Balboa)
NM 10/01
Oil Tanks
"1"
FG 20m 14M
(Night only)
"21"
Oc G
BORDADA BALBOA
(BALBOA REACH)
"19A"
Oc G
"19"
QG
340° 35' 20"
Dry Dock

Chart 11493 NM N10/01

ST. MARYS ENTRANCE AND CUMBERLAND SOUND CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF DEC 2000
AND SURVEYS TO NOV 2000

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)
ENTRANCE CHANNEL	45.0	46.3	45.3	41.8	11-00	500	12.36	46
RANGE A	45.0	47.8	47.4	44.1	9-00	482	1.34	42
RANGE A1, A2	47.3	46.1	45.1	40.2	9-00	591-834	0.66	42
RANGE B	47.0	48.1	47.2	45.0	9-00	582-655	0.55	42
RANGE C	38.6	46.4	45.8	43.4	9-00	498	1.19	42
RANGE D	35.4	43.5	42.3	37.7	9-00	489-498	1.35	42
RANGE E	43.1	42.9	42.4	37.7	9-00	512	0.87	42
RANGE F (WARRIOR REACH)	43.2	44.8	43.1	42.1	9-00	564-638	0.25	42
RANGE G (SOUTH TURNING BASIN)	35.5	43.8	42.4	43.4	9-00	661-1191	0.49	42
RANGE H (TENNESSEE REACH)	A 30.9	42.6	42.8	46.9	9-00	482-1197	0.83	42
RANGE I (NORTH TURNING BASIN)	43.8	45.5	45.6	B 37.8	9-00	483-1425	0.46	42

A. EXCEPT FOR SHOALING TO 22.1 FT AT 30°47'40.1"N, 081°30'34.5"W.
B. EXCEPT FOR SHOALING TO 24.2 FT AT 30°48'35.6"N, 081°31'12.3"W.

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

Chart 11494 NM N10/01

ST. MARYS ENTRANCE AND CUMBERLAND SOUND CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF DEC 2000
AND SURVEYS TO NOV 2000

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)
ENTRANCE CHANNEL	45.0	46.3	45.3	41.8	11-00	500	12.36	46
RANGE A	45.0	47.8	47.4	44.1	9-00	482	1.34	42
RANGE A1, A2	47.3	46.1	45.1	40.2	9-00	591-834	0.66	42
RANGE B	47.0	48.1	47.2	45.0	9-00	582-655	0.55	42
RANGE C	38.6	46.4	45.8	43.4	9-00	498	1.19	42
RANGE D	35.4	43.5	42.3	37.7	9-00	489-498	1.35	42
RANGE E	43.1	42.9	42.4	37.7	9-00	512	0.87	42

A. EXCEPT FOR SHOALING TO 22.1 FT AT 30°47'40.1"N, 081°30'34.5"W.

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

Chart 11503 NM 10/01

ST. MARYS ENTRANCE AND CUMBERLAND SOUND CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF DEC 2000
AND SURVEYS TO NOV 2000

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)
ENTRANCE CHANNEL	45.0	46.3	46.3	41.8	11-00	500	12.36	46
RANGE A	45.0	47.8	47.4	44.1	9-00	482	1.34	42
RANGE A1, A2	47.3	46.1	45.1	40.2	9-00	591-634	0.66	42
RANGE B	47.0	46.1	47.2	45.0	9-00	582-650	0.55	42
RANGE C	38.5	46.4	45.8	43.4	9-00	498	1.19	42
RANGE D	35.4	43.5	42.3	37.7	9-00	489-498	1.35	42
RANGE E	43.1	42.9	42.4	37.7	9-00	512	0.87	42
RANGE F (WARRIOR REACH)	43.3	44.8	43.1	42.1	9-00	564-836	0.25	42
RANGE G (SOUTH TURNING BASIN)	35.5	42.8	42.4	43.4	9-00	661-1181	0.49	42
RANGE H (TENNESSEE REACH)	A 30.9	42.6	42.8	40.9	9-00	482-1197	0.83	42
RANGE I (NORTH TURNING BASIN)	43.8	45.5	45.6	B 37.8	9-00	483-1425	0.46	42

A. EXCEPT FOR SHOALING TO 22.1 FT AT 30°47' 40.1"N, 081°30'34.5"W.
B. EXCEPT FOR SHOALING TO 24.2 FT AT 30°48' 35.6"N, 081°31'12.3"W.

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

Chart 11505 NM 10/01

SAVANNAH RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JAN 2001

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)
TYBEE RANGE	43.0	44.0	44.0	44.0	11-00	600	3.3	44
BLOODY POINT RANGE	43.0	43.5	44.0	40.5	11-00	600	3.0	44
JONES ISLAND RANGE	45.5	44.0	44.0	42.0	11-00	600	1.2	44
TYBEE KNOLL CUT RANGE	44.0	45.0	44.5	43.0	11-00	600	2.5	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 11512 NM 10/01

SAVANNAH RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JAN 2001

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)
TYBEE RANGE	43.0	44.0	44.0	44.0	11-00	600	3.3	44
BLOODY POINT RANGE	43.0	43.5	44.0	43.5	11-00	600	3.0	44
JONES ISLAND RANGE	45.5	44.0	44.0	42.0	11-00	600	1.2	44
TYBEE KNOLL CUT RANGE	44.0	45.0	44.5	43.0	11-00	500	2.5	42
NEW CHANNEL RANGE (A)	41.0	43.5	43.0	43.0	1-01	500	1.6	42
L. I. CROSSING RANGE	44.0	45.0	44.0	43.0	1-01	500	2.8	42
LOWER FLATS RANGE	44.0	47.0	46.0	45.0	1-01	500	1.3	42
UPPER FLATS RANGE	45.0	46.5	46.0	41.0	1-01	500	1.2	42
THE BIGHT CHANNEL	44.0	46.0	47.0	47.0	1-01	500	1.5	42
FT. JACKSON RANGE	46.5	47.0	47.0	42.0	1-01	500	0.7	42
OGLETHORPE RANGE	41.0	45.5	45.5	45.0	1-01	500	1.2	42
WRECKS CHANNEL (B)	44.0	43.0	47.0	46.0	1-01	500	1.5	42
CITY FRONT CHANNEL	44.0	43.0	43.0	37.0	1-01	500	1.5	42
MARSH ISLAND CHANNEL (C)	45.0	44.5	44.0	43.0	1-01	500	1.7	42
KINGS ISLAND CHANNEL (D)	37.0	39.5	42.0	39.0	1-01	500	2.1	42
WHITEHALL CHANNEL (E)	32.0	33.0	36.0	37.5	1-01	400	0.6	42-36
PORT WENTWORTH CHANNEL (F)	30.0	31.5	30.0	32.0	12-94; 1-01	200	1.2	30

A. OYSTER BED (TURNING BASIN-CONTROLLING DEPTH 43.5 FT, 42.5 FT 900 FT FROM BACKSIDE.
B. FIG ISLAND TURNING BASIN-CONTROLLING DEPTH 41.0 FT, 35.0 FT 100 FT FROM BACKSIDE.
C. MARSH ISLAND TURNING BASIN-CONTROLLING DEPTH 35.0 FT, 25.0 FT 100 FT FROM BACKSIDE.
D. KINGS ISLAND TURNING BASIN-CONTROLLING DEPTH 51.5 FT, 50.5 FT 100 FT FROM BACKSIDE.
E. ARGYLE ISLAND TURNING BASIN-CONTROLLING DEPTH 39.0 FT 100 FT FROM BACKSIDE.
F. PORT WENTWORTH TURNING BASIN-CONTROLLING DEPTH 13.0 FT, 31.0 FT 100 FT FROM BACKSIDE.
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 10/01

SAVANNAH RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JAN 2001

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)
OGLETHORPE RANGE	41.0	45.5	45.5	45.0	1-01	500	1.2	42
WRECKS CHANNEL (A)	44.0	43.0	47.0	46.0	1-01	500	1.5	42
CITY FRONT CHANNEL	44.0	43.0	43.0	37.0	1-01	500	1.5	42
MARSH ISLAND CHANNEL (B)	43.0	44.5	44.0	43.0	1-01	500	1.7	42
KINGS ISLAND CHANNEL (C)	37.0	39.5	42.0	39.0	1-01	500	2.1	42
WHITEHALL CHANNEL (D)	32.0	33.0	36.0	37.5	1-01	400	0.6	42-36
PORT WENTWORTH CHANNEL (E)	30.0	31.5	30.0	32.0	12-94; 1-01	200	1.2	30

A. FIG ISLAND TURNING BASIN-CONTROLLING DEPTH 41.0 FT, 35.0 FT 100 FT FROM BACKSIDE.
B. MARSH ISLAND TURNING BASIN-CONTROLLING DEPTH 35.0 FT, 25.0 FT 100 FT FROM BACKSIDE.
C. KINGS ISLAND TURNING BASIN-CONTROLLING DEPTH 51.5 FT, 50.5 FT 100 FT FROM BACKSIDE.
D. ARGYLE ISLAND TURNING BASIN-CONTROLLING DEPTH 39.0 FT 100 FT FROM BACKSIDE.
E. PORT WENTWORTH TURNING BASIN-CONTROLLING DEPTH 31.0 FT, 31.0 FT 100 FT FROM BACKSIDE.
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 14924 NM 10/01

MILWAUKEE HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS SURVEYS APR - MAY 2000

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)						PROJECT DIMENSIONS		
ENTRANCE CHANNELS	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH LWD (FEET)
ENTRANCE TO END OF BKW	32.3	32.1	31.8	32.0	4-00	800-300	0.33	30
BKW TO PIERHEAD LT	27.8	27.9	26.9	24.6	4-00	600	0.53	28
S. HARBOR AREA	27.9	27.9	27.4	26.2	4, 6-00	2300	1.0	28
PIERHEAD LT TO PT AT 43°01'29"N 087°54'06"W	26.2	27.2	26.9	26.3	4-00	250-460	0.36	27
RIVER CHANNELS	LEFT OUTSIDE QUARTER	MIDDLE HALF		RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH LWD (FEET)
KINNICKINNIC R. PT AT 43°01'29"N 87°54'11"W SOUTH TO FIRST RR BRIDGE	25.7A	25.4B		24.2C	4-00	400-160	0.6	27
MILWAUKEE R. PT AT 43°01'29"N 087°54'11"W NORTH TO FIRST RR BRIDGE	25.9	24.7D		22.9	4-00	400-260	0.33	27
FIRST RR BRIDGE TO SECOND ST BRIDGE	14.6	16.6		19.2	4, 6-00	250-100	0.53	21

A. SHOALING TO 22.1 FEET WITHIN THE LAST 300 FEET OF REACH
B. SHOALING TO 24.8 FEET AT 43°01'29.0"N 087°54'11.5"W AND TO 20.5 FEET WITHIN THE LAST 300 FEET OF REACH
C. SHOALING TO 21.4 FEET WITHIN THE LAST 300 FEET OF REACH
D. SHOALING TO 18.0 FEET AT 43°01'39.3"N 087°54'16.7"W