Chart 11478 NM 33/01

PORT CANAVERAL CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAY 2001 AND SURVEYS OF APR 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)
OUTER REACH	43.0	43.1	43.0	43.1	4-01	400	5.5	44
MIDDLE REACH	43.8	43.4	43.6	43.9	4-01	400	0.9	44
INNER REACH	39.2	40.4	40.4	38.1	4-01	400	0.8	40
WEST ACCESS CHANNEL (EAST PORTION)	39.1	40.7	40.6	40.1	11-00	400	0.3	39
WEST ACCESS CHANNEL (WEST PORTION)	30.4	35.5	35.4	34.5	11-00	400	0.3	31

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

Chart 11481 NM 33/01

PORT CANAVERAL CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAY 2001 AND SURVEYS OF APR 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)
OUTER REACH	43.0	43.1	43.0	43.1	4-01	400	5.5	44
MIDDLE REACH	43.8	43.4	43.6	43.9	4-01	400	0.9	44
INNER REACH	39.2	40.4	40.4	38.1	4-01	400	0.8	40
WEST ACCESS CHANNEL (EAST PORTION)	39.1	40.7	40.6	40.1	11-00	400	0.3	39
WEST ACCESS CHANNEL (WEST PORTION)	30.4	35.5	35.4	34.5	11-00	400	0.3	31

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

Chart 14975 NM 33/01

SUPERIOR HARBOR

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2000

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)
SUPERIOR ENTRY	A	A	A	A				
1	28.7	32.0	32.2	25.0	10-2000	600-1100	.18	31
2	28.0	31.0	31.9	27.3	10-2000	415-1100	.15	30
3	29.0	30.9	30.3	27.1	8-2000	415	.08	29
4	29.0	30.5	28.5	25.2	8-2000	415-430	.08	28
5	24.2	28.8	29.4	26.2	8-2000	430-840	.08	27
SUPERIOR HARBOR BASIN	B19.6	24.7	23.5	21.2	7,8-2000	600-2000	1.21	27
ALLOUEZ BAY CHANNEL	22.4	24.0	23.9	23.8	8-2000	400-900	.44	27
SUPERIOR FRONT CHANNEL	24.5	27.3	27.1	25.0	6,7-2000	600	2.32	27
EAST GATE BASIN (SOUTH)	26.1	25.6	26.2	25.8	6-2000	600-3200	.57	27

A. CHANNEL DIVIDED INTO QUARTERS WHEN ENTERING FROM LAKE.
B. SHOALING TO 5.6 FT SHOREWARD OF BUOY 5 AT 46°42'15.96" N, 92°01'38.3" W.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 14975 NM 33/01

DULUTH HARBOR

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO NOV 2000

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)
DULUTH ENTRY	A	A	A	A				
1	28.0	32.9	33.0	28.1	5,7-2000	245-1000	.13	32
2	27.9	33.7	33.4	26.9	5,7-2000	245	.08	31
3	31.9	32.4	32.2	30.2	5,7-2000	245	.07	30
4	31.8	31.5	31.3	27.8	5,7-2000	245	.07	29
5	29.9	32.1	33.0	24.5	5,7-2000	245-480	.07	28
DULUTH HARBOR BASIN								
NORTHERN SECTION	22.9	27.0	26.4	22.9	5,7-2000	1100-2700	.64	28
SOUTHERN SECTION	24.9	B25.7	25.3	26.1	6,11-2000	1200-2700	.91	27
EAST GATE BASIN (NORTH)	25.8	26.1	27.7	23.2	6,8-2000	1500-3300	.33	27
WEST GATE BASIN	25.6	27.0	27.3	25.1	7-2000	400-850	.66	27
HOWARDS BAY	22.8	24.0	24.9	20.1	7-2000	100-750	.99	27
NORTH CHANNEL								
EASTERN SECTION	19.8	19.6	22.9	G14.7	7-2000	400	1.66	27
WESTERN SECTION	20.6	21.1	21.3	18.4	10,11-2000	400	.59	21
21ST AVE WEST CHANNEL	C6.3	C21.1	C21.1	C16.6	6-71;10-91	200	.33	20
SOUTH CHANNEL								
EASTERN SECTION	22.0	23.4	23.9	25.9	10-2000	400-800	.74	27
WESTERN SECTION	22.4	23.3	23.7	22.7	11-2000	400	.83	23
CROSS CHANNEL	20.8	27.4	27.9	17.5	9-2000	1300	.33	27
UPPER CHANNEL	21.0	23.8	21.9	19.4	11-2000	500	1.00	23
MINNESOTA CHANNEL								
EASTERN SECTION	D20.6	22.8	21.1	E19.1	11-2000	600	.95	23
WESTERN SECTION	7.6	15.3	10.4	F7.8	10-2000	200	2.39	20

A. CHANNEL DIVIDED INTO QUARTERS WHEN ENTERING FROM LAKE.
B. SHOALING TO 12.0 FT IN THE VICINITY OF WRECK AT 46°45'30.3"N, 92°05'29.7"W.
C. RECENT SURVEYS NOT AVAILABLE FOR 21ST AVE WEST CHANNEL.
D. SHOALING TO 7.4 FT ALONG THE EDGE OF CHANNEL AT 46°43'13.0"N, 92°08'34.3"W.
E. SHOALING TO 7.7 FT IN THE OUTSIDE HALF OF THE QUARTER FOR THE NORTHERN 950 FT OF THE REACH.
F. SHOALING TO 2.2 FT IN THE OUTSIDE HALF OF THE QUARTER.
G. SHOALING TO UNKNOWN DEPTH BEHIND THE 12 FT CURVE FROM 46°45'02.5"N, 92°06'08.8"W TO 46°45'07.2"N, 92°06'18.6"W
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION.