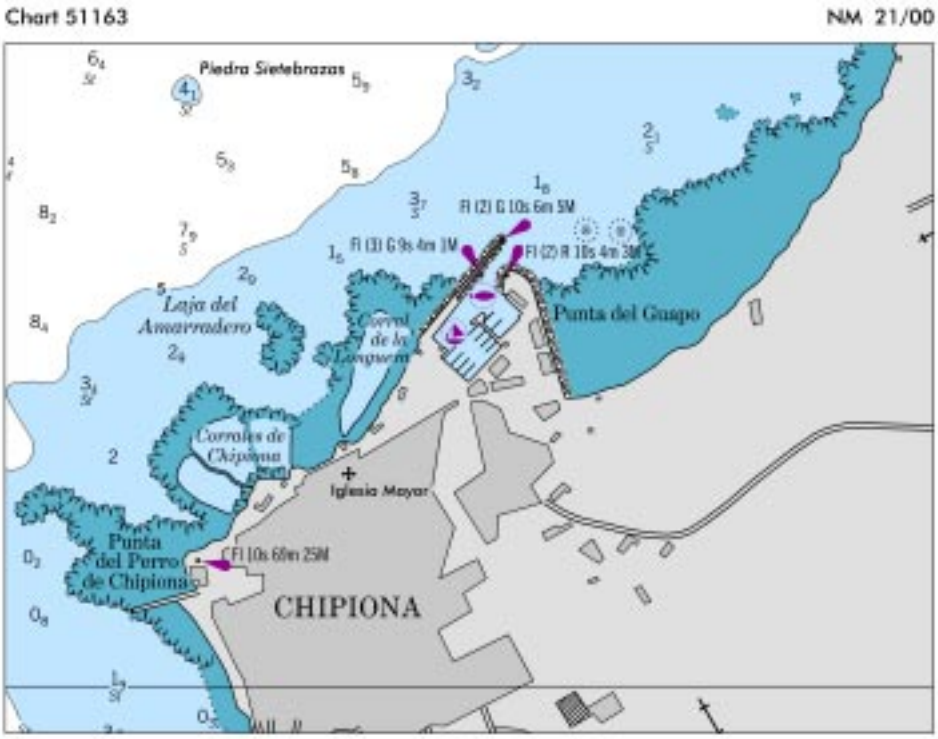


Chart 51163
NM 21/00
Piedra Sietebrazos
Fl (2) G 10s 6m 5M
Fl (3) G 9s 4m 3M
Fl (2) R 10s 4m 3M
Laja del Amarradero
Corral de la Longueira
Punta del Guapo
Corralles de Chipiona
Iglesia Mayor
Punta del Perro de Chipiona
CFl 10s 68m 25M
CHIPIONA

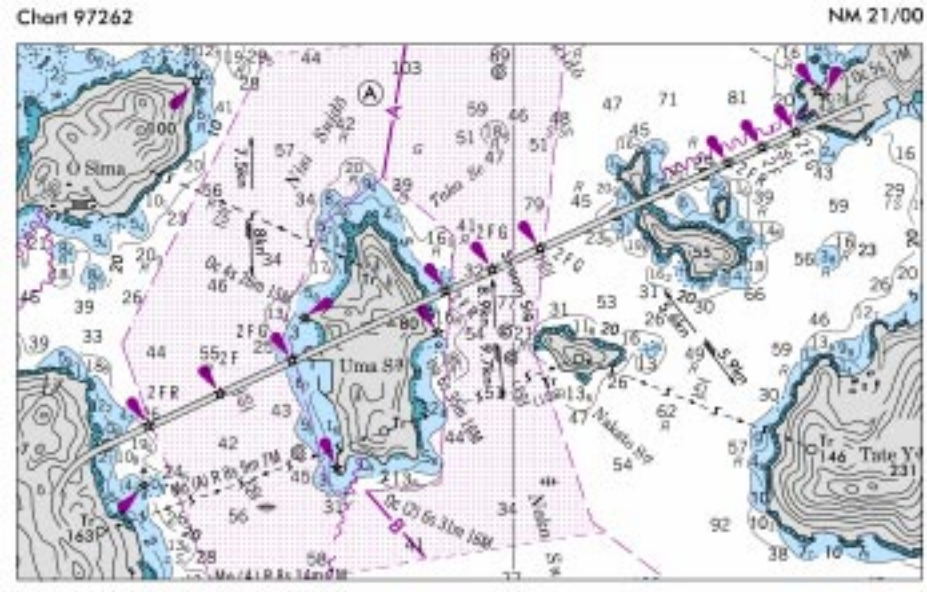
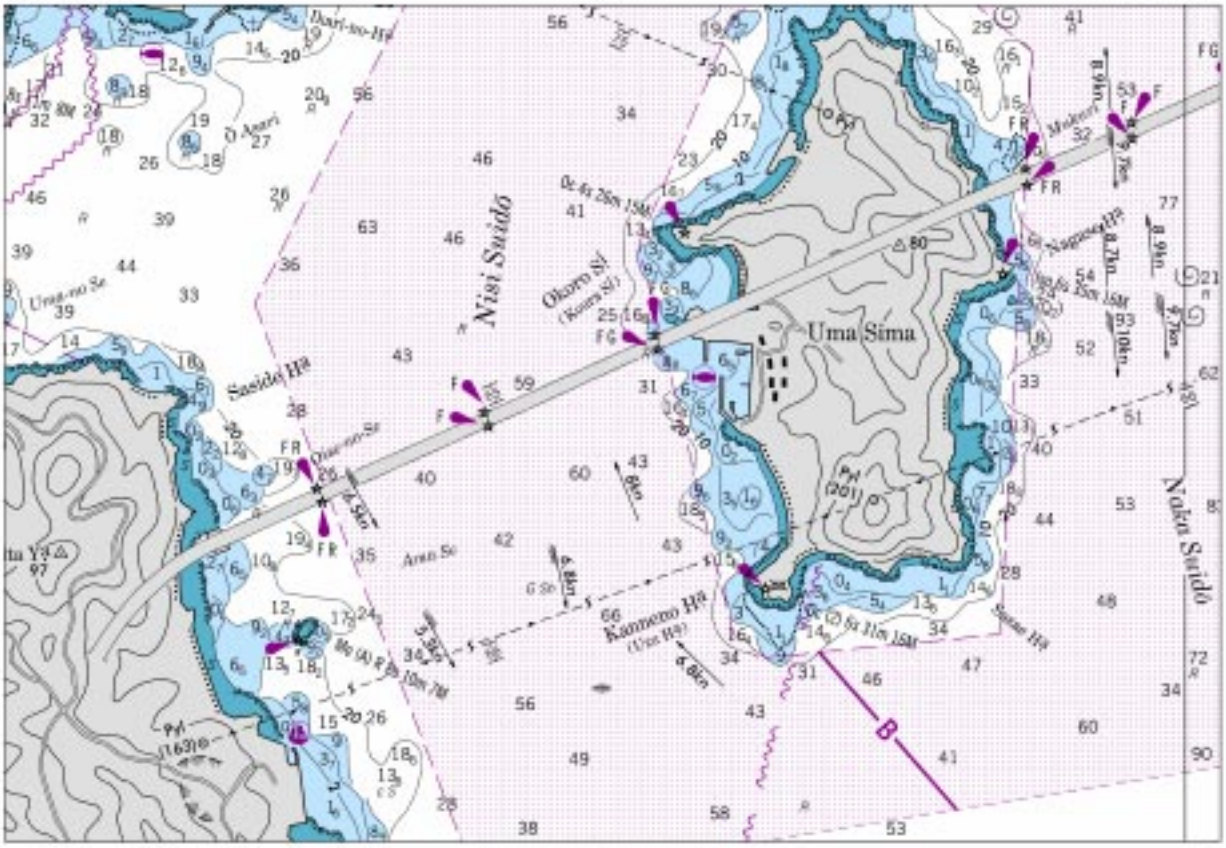


Chart 97262
NM 21/00
O Sima
Uma Sd
Tate Y

Chart 97263 (A) NM 21/00



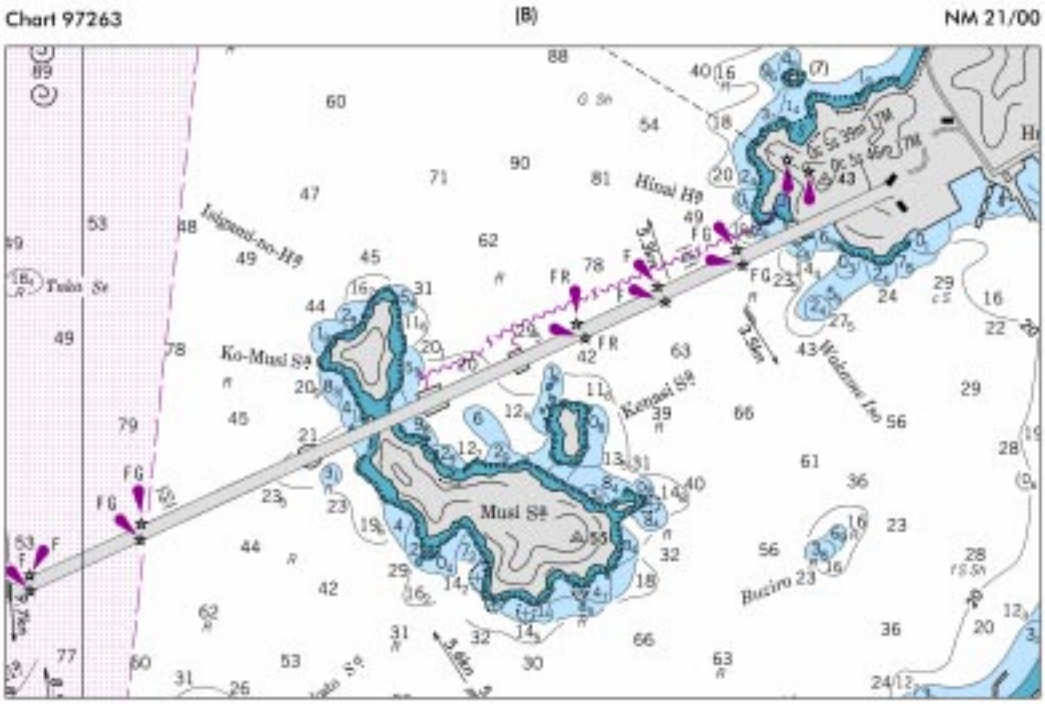


Chart 97263
(B)
NM 21/00
Hinai Hg
Ko-Musi Sg
Musi Sg
Kenasi Sg
Buziro

CHART 11537 NM 21/00

CAPE FEAR RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 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)
BALDHEAD SHOAL	38.1	38.8	38.7	37.9	2,3-00	500	5.0	40
SMITH ISLAND	18.7	34.9	39.7	40.6	3-00	500	1.0	40
BALDHEAD CASWELL CHANNEL	35.2	40.4	41.0	42.9	12-99	500	0.4	40
SOUTHPORT CHANNEL	41.6	41.0	43.2	40.2	3-00	500	1.0	40
BATTERY ISLAND CHANNEL	44.7	44.7	41.2	40.4	3-00	500	0.5	40
LOWER SWASH	36.0	36.5	38.8	35.7	3-99	400	1.6	38
SNOWS MARSH	35.1	39.6	37.3	36.9	2-99	400	3.1	38
HORSESHOE SHOAL	33.9	36.0	37.5	37.2	12-99	400	1.2	38
REAVES POINT	37.4	36.0	37.8	36.5	12-99	400	1.2	38
LOWER MIDNIGHT	36.3	39.1	39.5	35.2	2-00	400	1.6	38
UPPER MIDNIGHT	35.8	37.9	37.4	35.1	12-99	400	2.7	38
LOWER LILLIPUT	35.8	36.3	38.1	37.0	12-99	400	1.9	38
UPPER LILLIPUT	35.8	36.7	38.1	37.1	11-99	400	1.9	38
KEG ISLAND	36.0	36.4	37.8	32.8	10-99	400	1.4	38
BIG ISLAND LOWER	35.1	37.1	36.6	33.5	10-99	400	0.8	38
BIG ISLAND UPPER	37.7	36.2	37.7	33.4	11-99,3-00	400	0.5	38
LOWER BRUNSWICK	37.1	38.2	37.1	34.9	3-00	400	1.6	38
UPPER BRUNSWICK	37.4	39.1	39.6	37.5	3-00	400	1.0	38
FOURTH EAST JETTY	37.9	38.3	37.7	35.7	2-00	400	1.2	38
BETWEEN CHANNEL	35.4	38.9	39.0	38.6	2-00	550	0.8	38
ANCHORAGE BASIN & APP CHANNEL	33.6	36.6	36.8	34.5	12-99;1,2-00	450-1000	1.3	35
HWY 74-76 TO BATTLESHIP	30.7	32.9	36.2	29.0	12-99	400	0.6	32
BATTLESHIP TO HWY 117 INCLUDING TURNING BASIN	8.6	30.0	32.2	29.4	3-99;11-99	150-650	-	32
HWY 117 TO HILTON BR	25.1	29.6	31.6	25.7	3-99	200-400	0.5	32
THENCE TO END OF PROJECT AT 34°16'36"N, 77°57'01"W	23.1	23.6A	23.5B	21.9C	6-99	200	1.2	25
TURNING BASIN	24.6	21.0	22.2	16.1	6-99	500	0.1	25

A. EXCEPT FOR SHOALING TO 21.4 FEET FOR THE LAST 150 FEET OF THE PROJECT.
B. EXCEPT FOR SHOALING TO 16.4 FEET FOR THE LAST 150 FEET OF THE PROJECT.
C. EXCEPT FOR SHOALING TO 10.2 FEET FOR THE LAST 150 FEET OF THE PROJECT.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

CHART 11545 NM 21/00

MOREHEAD CITY HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 1999

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)
BEAUFORT INLET CHANNEL FROM 2000 FT NORTH OF LTD. BUOY "9"	42.1	48.8	38.2	26.6A	12-98;1,2-99	450-800	2.26	47
CUTOFF CHANNEL	47.4	49.5	48.1	34.8	3-99	600	0.38	42
MOREHEAD CITY CHANNEL	46.6	45.5	45.9	43.8	3-99	400	1.10	40
TURNING BASIN								
EAST LEG	43.3	44.9	43.9	41.2	10-99	400-1200	0.70	40
WEST LEG	34.1	35.0	38.3	39.8	10-99	800-1000	0.39	35

A. EXCEPT FOR SHOALING TO 12.0 FT AT 34°41'12.9"N, 76°39'58.2"W.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

CHART 11547 NM 21/00

MOREHEAD CITY HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 1999

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BEAUFORT INLET CHANNEL FROM 2000 FT NORTH OF LTD. BUOY "8"	42.1	48.8	38.2	26.6A	12-98;1,2-99	450-800	2.26	47
CUTOFF CHANNEL	47.4	49.5	48.1	34.8	3-99	600	0.38	42
MOREHEAD CITY CHANNEL	46.6	45.5	45.9	45.0	3-99	400	1.10	40
TURNING BASIN								
EAST LEG	43.3	44.9	43.9	41.2	10-99	400-1200	0.70	40
WEST LEG	34.1	35.0	38.3	39.8	10-99	800-1000	0.39	35

A. EXCEPT FOR SHOALING TO 12.0 FT AT 34°41'12.9"N, 76°39'58.2"W.

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

CHART 12251 (SIDE B) NM 21/00

JAMES RIVER

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF DEC 1999 AND SURVEYS TO OCT 1999

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)		
	DEPTH MLLW (FEET)	WIDTH (FEET)	DATE OF SURVEY
HOPEWELL TO RICHMOND			
DEEPWATER TERMINAL 37°27'05.0"N, 77°25'07.4"W	20.3	200	2,10-98
CHANNEL ADJOINING TURNING BASIN	25.3	200	10-99
TURNING BASIN	25.5	305	10-99
THENCE TO RICHMOND			
HARBOR TURNING BASIN	16.9	200	10-99
TURNING BASIN	16.6	140-175	10-99
THENCE TO 37°31'29.0"N, 77°25'14.5"W	17.8	200	10-99

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE

CHART 13221 NM 21/00

MOUNT HOPE BAY-FALL RIVER HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JAN 2000 AND SURVEYS TO JAN-APR 1998

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BUOY 2 (41°39'48"N, 71°13'45"W) TO FIRST TURN	29.0	34.9	34.9	31.5	1,4-98	400	2.68	35
THENCE TO BUOY 15	29.2	35.3	34.9	32.1	1,4-98	400	1.32	35
THENCE TO BRIGHTMAN ST. BRIDGE	22.4	24.7	33.1	33.3	1,4-98	600-130	1.11	35
BRIGHTMAN ST. BRIDGE TO TURNING BASIN	35.6	35.4	35.7	36.3	1,4-98	400	.62	35
TURNING BASIN	24.4	26.0	34.3	35.0	1,4-98	400-1100	.27	35

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

CHART 13226 NM 21/00

MOUNT HOPE BAY-FALL RIVER HARBOR CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JAN 2000
AND SURVEYS TO JAN - APR 1998

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)
BUOY 2 (41°39'45"N., 71°13'45"W) TO FIRST TURN	29.0	34.9	34.9	31.5	1,4-98	400	2.68	35
THENCE TO BUOY 15	29.2	35.3	34.9	32.1	1,4-98	400	1.32	35
THENCE TO BRIGHTMAN ST. BRIDGE	22.4	24.7	33.1	33.3	1,4-98	600-100	1.11	35
BRIGHTMAN ST. BRIDGE TO TURNING BASIN	35.8	35.4	35.7	36.3	1,4-98	400	.62	35
TURNING BASIN	24.4	26.0	34.3	35.8	1,4-98	400-1100	.27	35

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

CHART 13227 NM 21/00

MOUNT HOPE BAY-FALL RIVER HARBOR CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JAN 2000
AND SURVEYS TO JAN - APR 1998

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)
BUOY 2 (41°39'45"N., 71°13'45"W) TO FIRST TURN	29.0	34.9	34.9	31.5	1,4-98	400	2.68	35
THENCE TO BUOY 15	29.2	35.3	34.9	32.1	1,4-98	400	1.32	35
THENCE TO BRIGHTMAN ST. BRIDGE	22.4	24.7	33.1	33.3	1,4-98	600-100	1.11	35
BRIGHTMAN ST. BRIDGE TO TURNING BASIN	35.8	35.4	35.7	36.3	1,4-98	400	.62	35
TURNING BASIN	24.4	26.0	34.3	35.8	1,4-98	400-1100	.27	35

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