

# BookletChart™

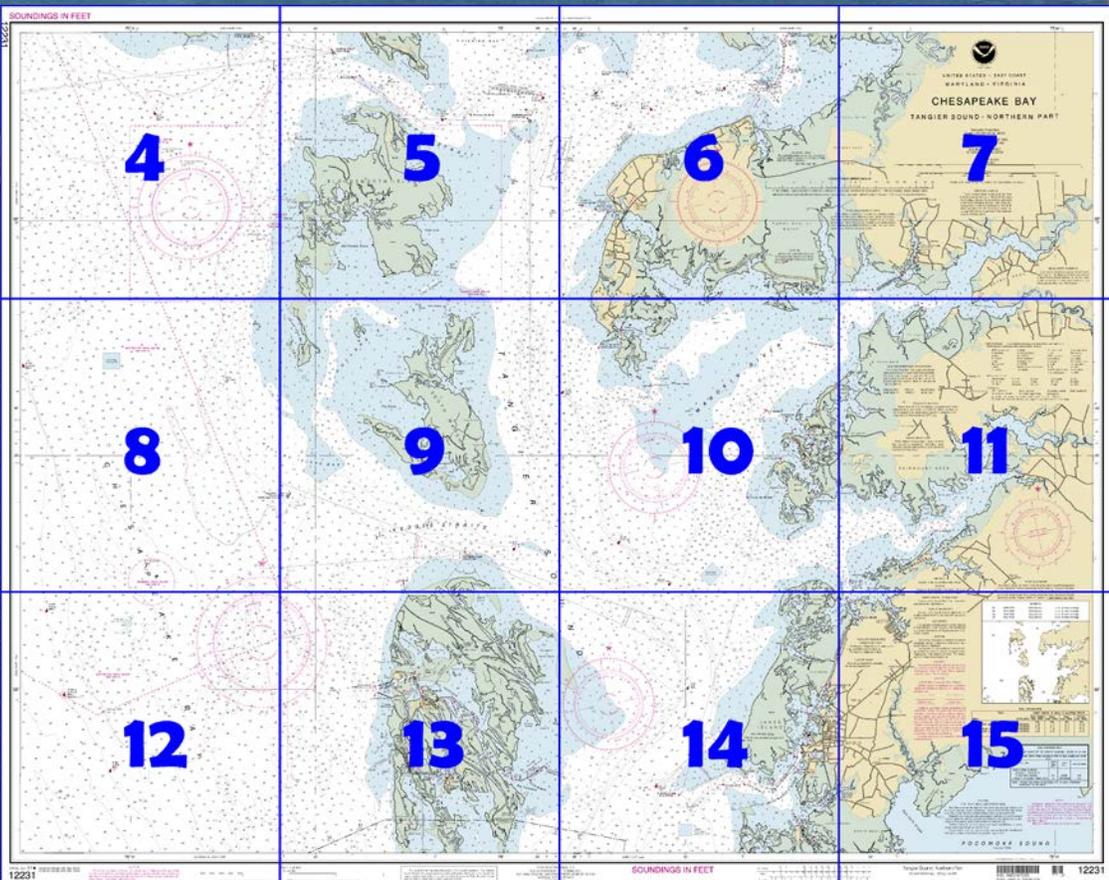


## Chesapeake Bay – Tangier Sound, Northern Part NOAA Chart 12231

*A reduced-scale NOAA nautical chart for small boaters  
When possible, use the full-size NOAA chart for navigation.*



- Complete, reduced-scale nautical chart
- Print at home for free
- Convenient size
- Up-to-date with Notices to Mariners
- Compiled by NOAA's Office of Coast Survey, the nation's chartmaker



**Published by the  
National Oceanic and Atmospheric Administration  
National Ocean Service  
Office of Coast Survey  
[www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov)  
888-990-NOAA**

### What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

### What is a BookletChart™?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

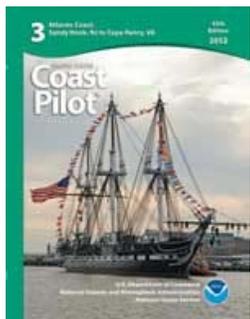
Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

### Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at <http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=12231>.



### (Selected Excerpts from Coast Pilot)

**Smith Island** consists of a large group of marshy islands separated by narrow thorofares; travel from place to place is mostly by boat. **Tylerton, Ewell, and Rhodes Point** are small villages along the interior channels; crabbing, oystering, and fishing are the principal industries. Gasoline and diesel fuel are available at Ewell and only diesel fuel at Rhodes Point; some supplies can be obtained at the villages. The island

has telephone and motorboat communication with Crisfield. A marine railway at Rhodes Point can haul out boats up to 40 feet for hull repairs. A well-marked 5-mile channel with several dredged sections extends from Tangier Sound through **Big Thorofare** to Ewell, thence

northwestward in **Levering Creek** and again through Big Thorofare to Chesapeake Bay. In 1992-2010, the midchannel controlling depth was 3.4 feet from Tangier Sound to Tyler Ditch; thence in 2010, a midchannel controlling depth of 7 feet to Ewell, thence 7 feet from Ewell to Light 9; thence in 2008-2010, a midchannel controlling depth of 1.8 feet to Chesapeake Bay.

A marked channel leads southward from Big Thorofare through **Tyler Ditch** to Tylerton, about 1.7 miles above the entrance. In 2010, the controlling depth was 6 feet in the dredged section, thence natural depths of about 4 feet to Tylerton.

Another marked dredged channel from Tylerton to Rhodes Point, in 2010, had a controlling depth of 5.5 feet. Local fishermen in shallow-draft boats sometimes approach Tylerton from southward at high water, leaving the main channel in Tangier Sound 7 miles north of Tangier Sound Light and following the deeper water northward into Tyler Creek. The depth in the southern approach is about 4 feet.

**Sheep Pen Gut** is the approach to Rhodes Point from the west. A dredged channel marked by daybeacons leads from Chesapeake Bay through the gut. In 1995-2010, the controlling depth was 1.5 feet. Several other thorofares, with depths less than 3 feet, lead westward from the interior of Smith Island to Chesapeake Bay. Navigation of these channels requires local knowledge.

**Kedges Straits**, between Smith Island on the south and uninhabited **South Marsh Island** on the north, is used by vessels bound from northward in Chesapeake Bay to points southward of Manokin River in Tangier Sound. The inner approach to the straits is about 16 miles north of Tangier Sound Light. A depth of 10 feet can be carried through the marked straits.

**Holland Island Bar Light** (38°04'07"N., 76°05'45"W.), 37 feet above the water, is shown from a white square house with a black and white diamond-shaped daymark on piles in depths of 9 feet on the north side of the bay approach to Kedges Straits; a seasonal sound signal is at the light, which is 6.3 miles due east of a point on the bay ship channel 72.6 miles above the Virginia Capes.

**Solomons Lump Light** (38°02'53"N., 76°00'54"W.) is shown from a white octagonal dwelling, with a square tower, on a brown cylindrical base, in depths of 7 feet on the Smith Island side of Kedges Straits.

Easterly winds raise the water and northwesterly winds lower it sometimes as much as 2 feet below the normal level. In severe winters, floating ice makes navigation of the straits dangerous.

**Holland Straits**, on the north side of Kedges Straits between South Marsh Island on the south and **Bloodsworth Island** and other smaller uninhabited low marshy islands on the north, is generally shallow and should not be used without local knowledge. Sandbars obstruct the Chesapeake Bay side and patches of eel grass uncover in the Tangier Sound entrance on the lower tides. Bloodsworth Island is within a **danger zone** for naval firing and bombing. A **prohibited area**, within the danger zone and with a radius of 0.5 mile, is close off the western side of the island. (See **334.190**, chapter 2, for limits and regulations of the danger zone and prohibited area.)

**Hooper Strait**, between Bloodsworth Island on the south and Hooper Islands and Bishops Head on the north, is the most northerly direct passage from Chesapeake Bay into Tangier Sound and is used by vessels bound from northward in the bay to tributaries at the north end of the sound. The inner approach to the strait is 27 miles north of Tangier Sound Light.

### U.S. Coast Guard Rescue Coordination Center 24 hour Regional Contact for Emergencies

RCC Norfolk

Commander

5th CG District

Norfolk, VA

(575) 398-6231

# Navigation Managers Area of Responsibility



NOAA's navigation managers serve as ambassadors to the maritime community.

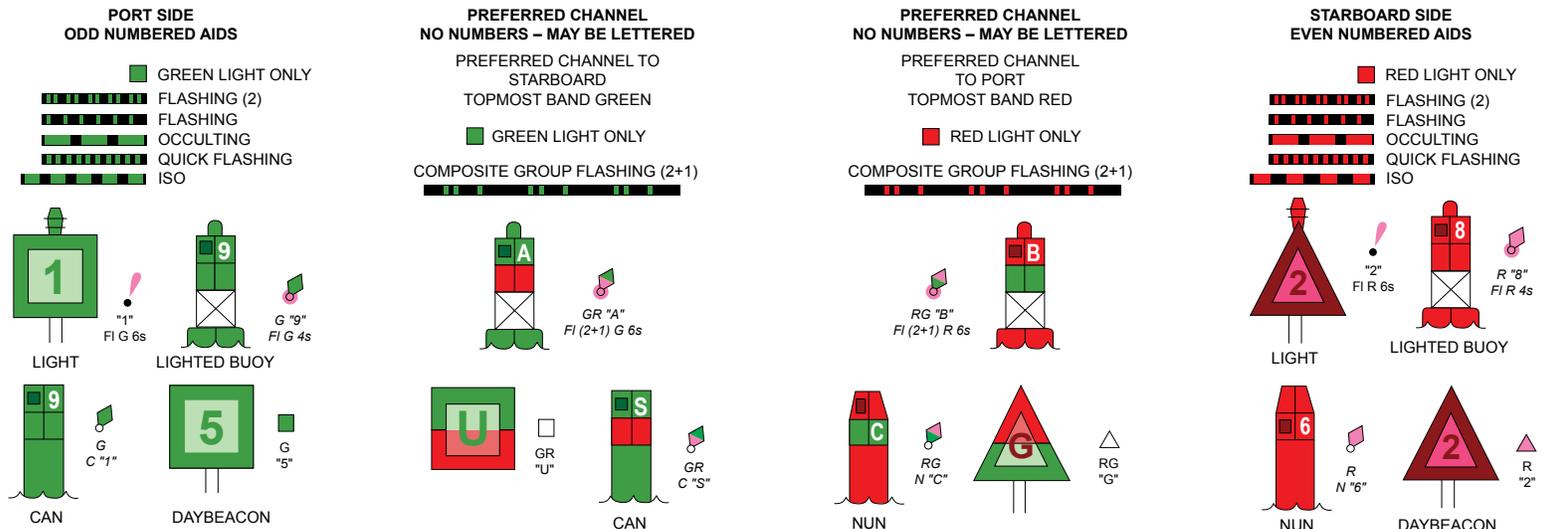
They help identify navigational challenges facing professional and recreational mariners, and provide NOAA resources and information for safe navigation. For additional information, please visit [nauticalcharts.noaa.gov/service/navmanagers](http://nauticalcharts.noaa.gov/service/navmanagers)

To make suggestions or ask questions online, go to [nauticalcharts.noaa.gov/inquiry](http://nauticalcharts.noaa.gov/inquiry).

To report a chart discrepancy, please use [ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx](http://ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx).

## Lateral System As Seen Entering From Seaward

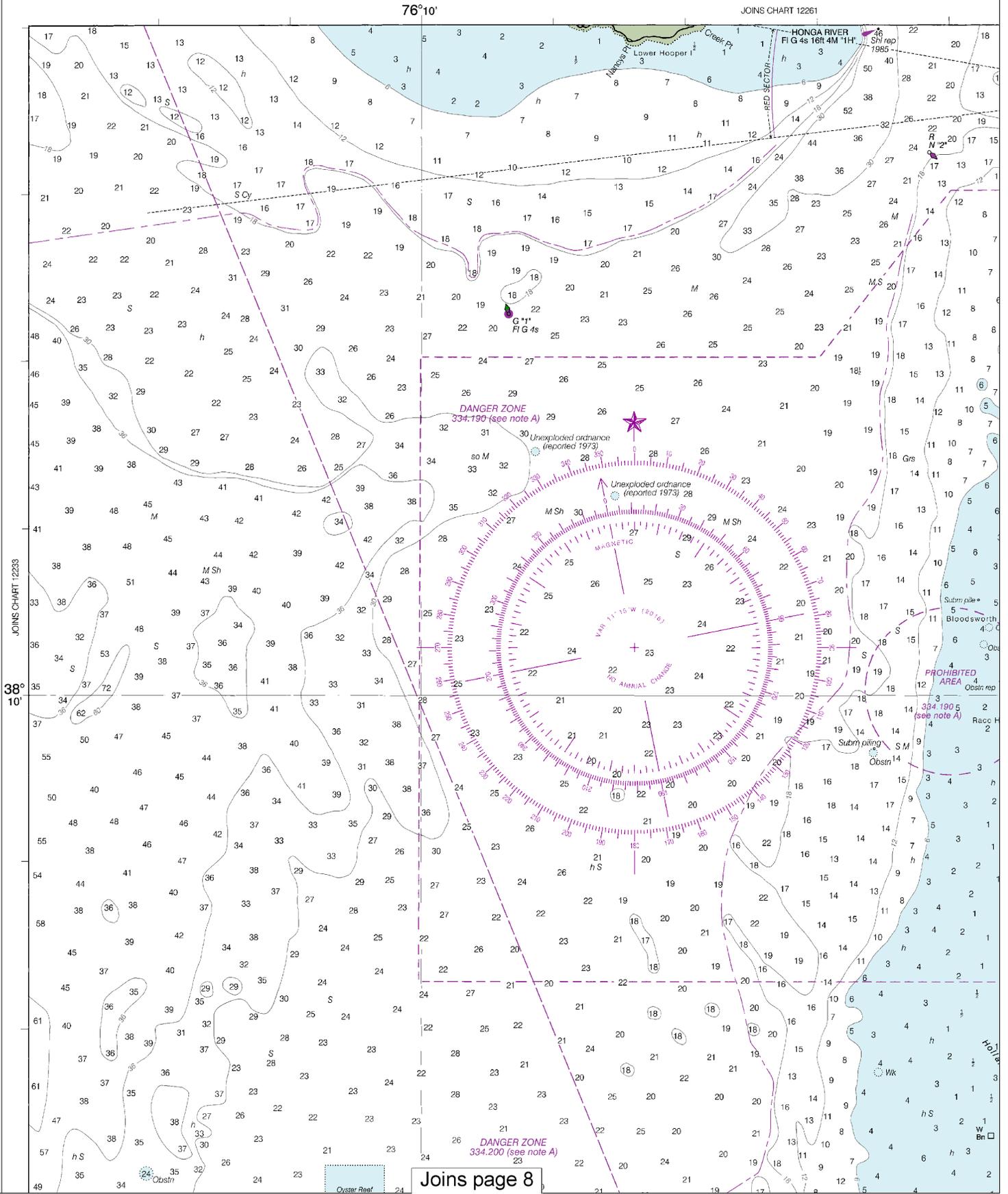
on navigable waters except Western Rivers



For more information on aids to navigation, including those on Western Rivers, please consult the latest USCG Light List for your area. These volumes are available online at <http://www.navcen.uscg.gov>

# SOUNDINGS IN FEET

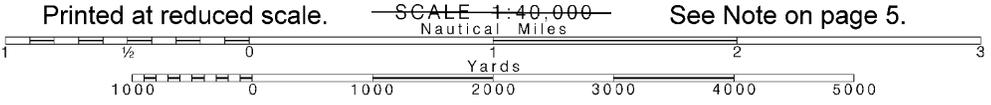
12231

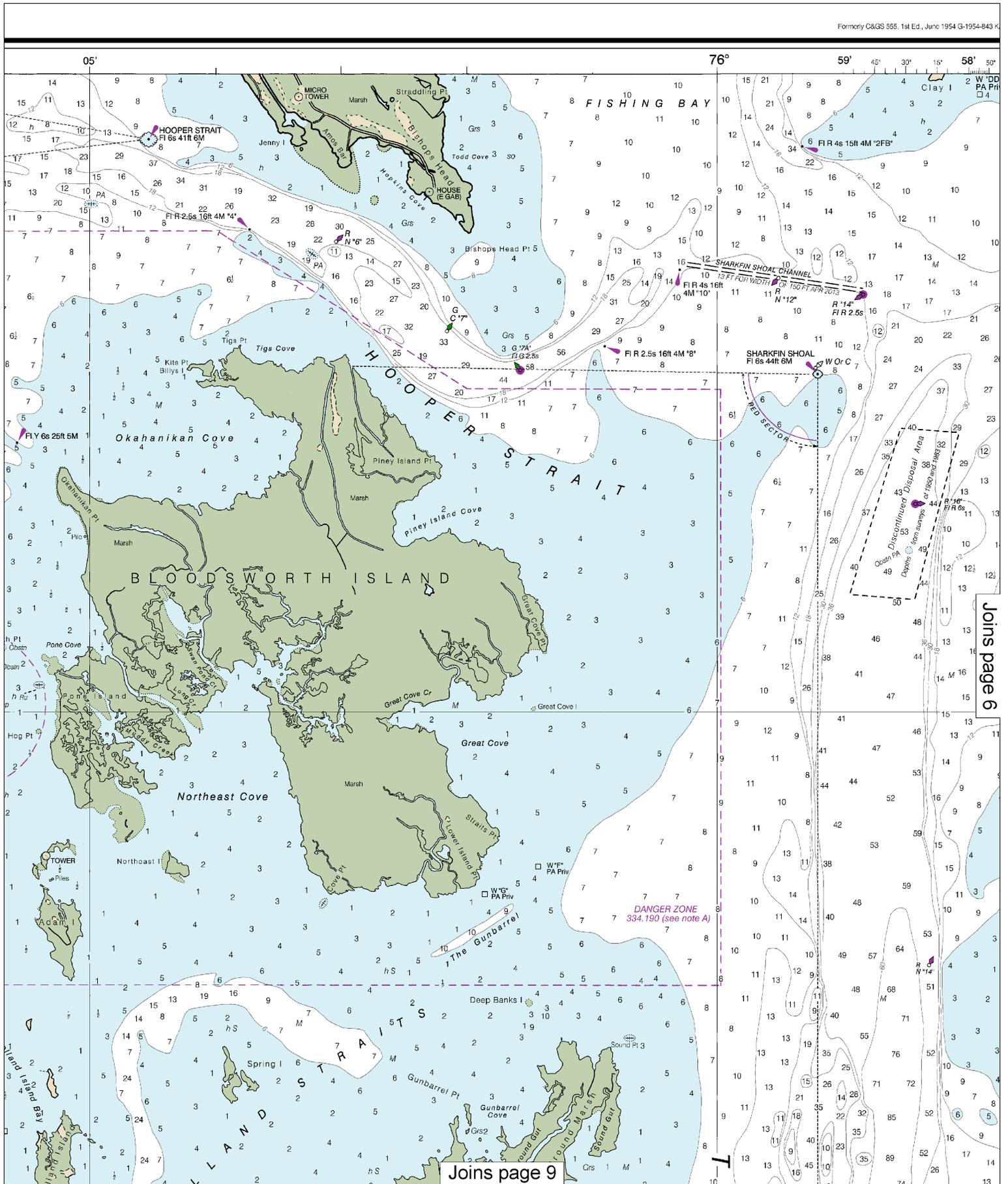


Joins page 8

4

Note: Chart grid lines are aligned with true north.



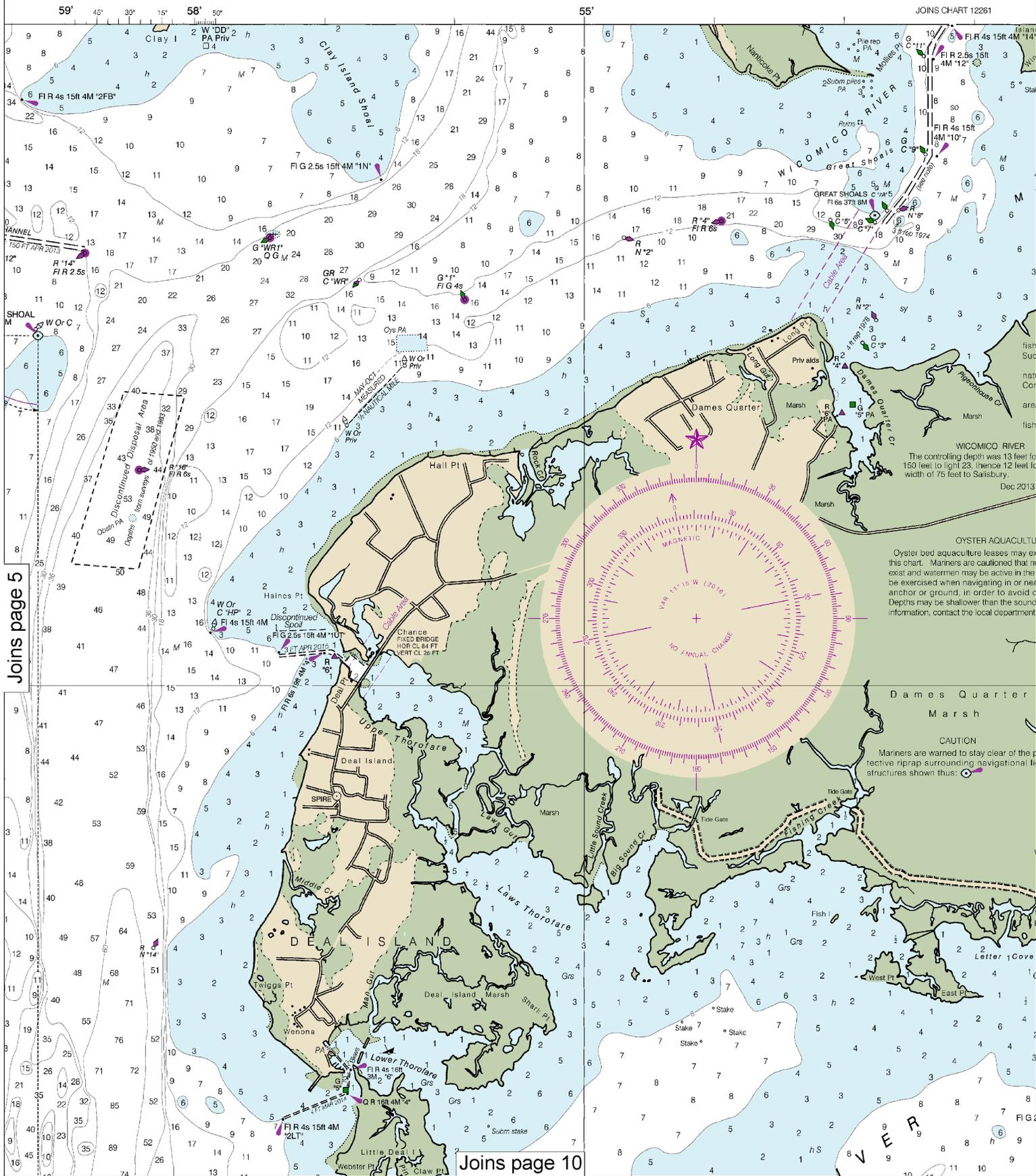


Joins page 6

Joins page 9

This BookletChart was reduced to 70% of the original chart scale.  
 The new scale is 1:57142. Barscales have also been reduced and  
 are accurate when used to measure distances in this BookletChart.





Joins page 5

Joins page 10

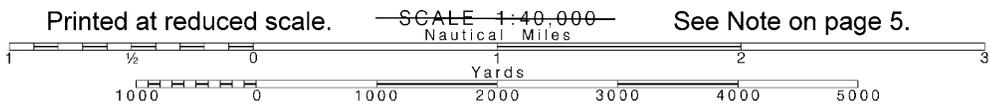
WICOMICCO RIVER  
The controlling depth was 13 feet for 150 feet to light 23, thence 12 feet to width of 75 feet to Salisbury.  
Dec 2013

OYSTER AQUACULTURE  
Oyster bed aquaculture leases may not exist and watermen may be active in the bed. Mariners are cautioned that the bed is exercised when navigating in or near the bed. Depths may be shallower than the soundings shown. In order to avoid oyster beds, contact the local department.

CAUTION  
Mariners are warned to stay clear of the protective riprap surrounding navigational structures shown thus:



Note: Chart grid lines are aligned with true north.



See Note on page 5.

50°

75°45'



UNITED STATES - EAST COAST  
MARYLAND - VIRGINIA

# CHESAPEAKE BAY

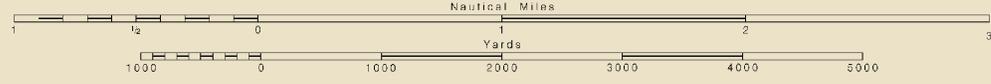
## TANGIER SOUND - NORTHERN PART

Mercator Projection  
Scale 1:40,000 at Lat. 38°05'

North American Datum of 1983  
(World Geodetic System of 1984)

SOUNDINGS IN FEET  
AT MEAN LOWER LOW WATER

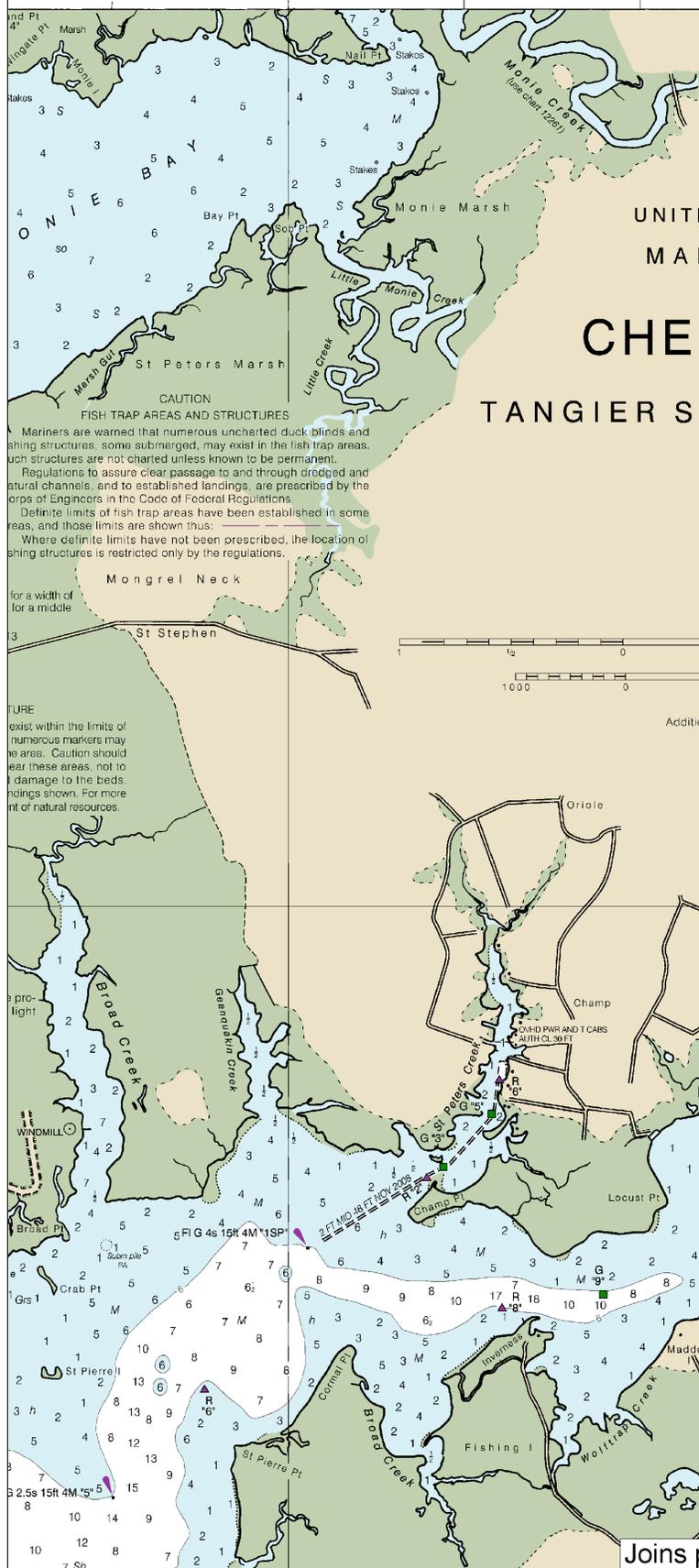
SCALE 1:40,000



Additional information can be obtained at [nauticalcharts.noaa.gov](http://nauticalcharts.noaa.gov).

### HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.444' northward and 1.232' eastward to agree with this chart.



**CAUTION**  
FISH TRAP AREAS AND STRUCTURES  
Mariners are warned that numerous uncharted duck blinds and fishing structures, some submerged, may exist in the fish trap areas. Such structures are not charted unless known to be permanent.  
Regulations to assure clear passage to and through dredged and natural channels, and to established landings, are prescribed by the Corps of Engineers in the Code of Federal Regulations.  
Definite limits of fish trap areas have been established in some areas, and those limits are shown thus: \_\_\_\_\_  
Where definite limits have not been prescribed, the location of fishing structures is restricted only by the regulations.

**CAUTION**  
Numerous uncharted duck blinds and fishing structures may exist within the limits of numerous markers in this area. Caution should be exercised near these areas, not to damage to the beds, and soundings shown. For more information of natural resources.

**SMALL CRAFT WARNINGS**  
During the boating season small-craft warnings will be displayed from sunrise to sunset on Maryland Marine Police Cruisers while underway in Maryland waters of the Chesapeake Bay and tributaries.

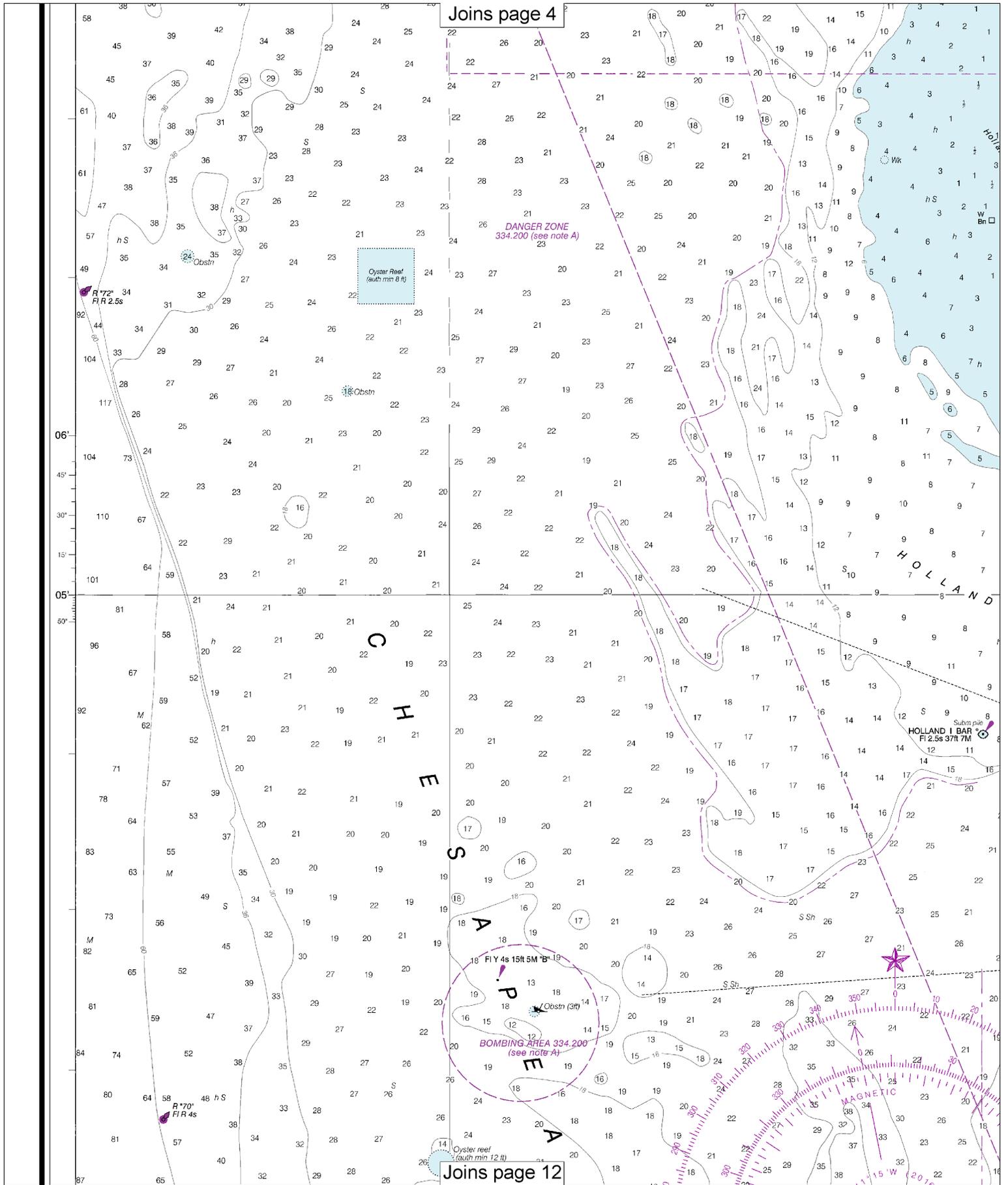
ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)  
Aids to Navigation (lights are white unless otherwise indicated):

AERO aeronautical	G green	Mo morse code	R TR radio tower
Al alternating	IC interrupted quick	N nun	Rot rotating
B black	Isa isophase	OBSC obscured	s seconds
Bn beacon	LT LC lighthouse	Oc occulting	SEC sector

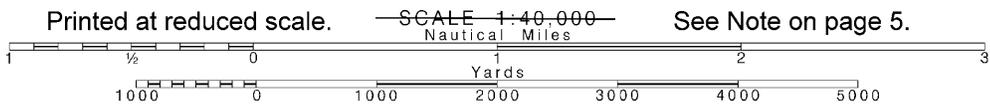
Joins page 11

31st Ed., May 2016. Last Correction: 11/1/2016. Cleared through:  
LNM: 4816 (11/29/2016), NM: 5016 (12/10/2016)





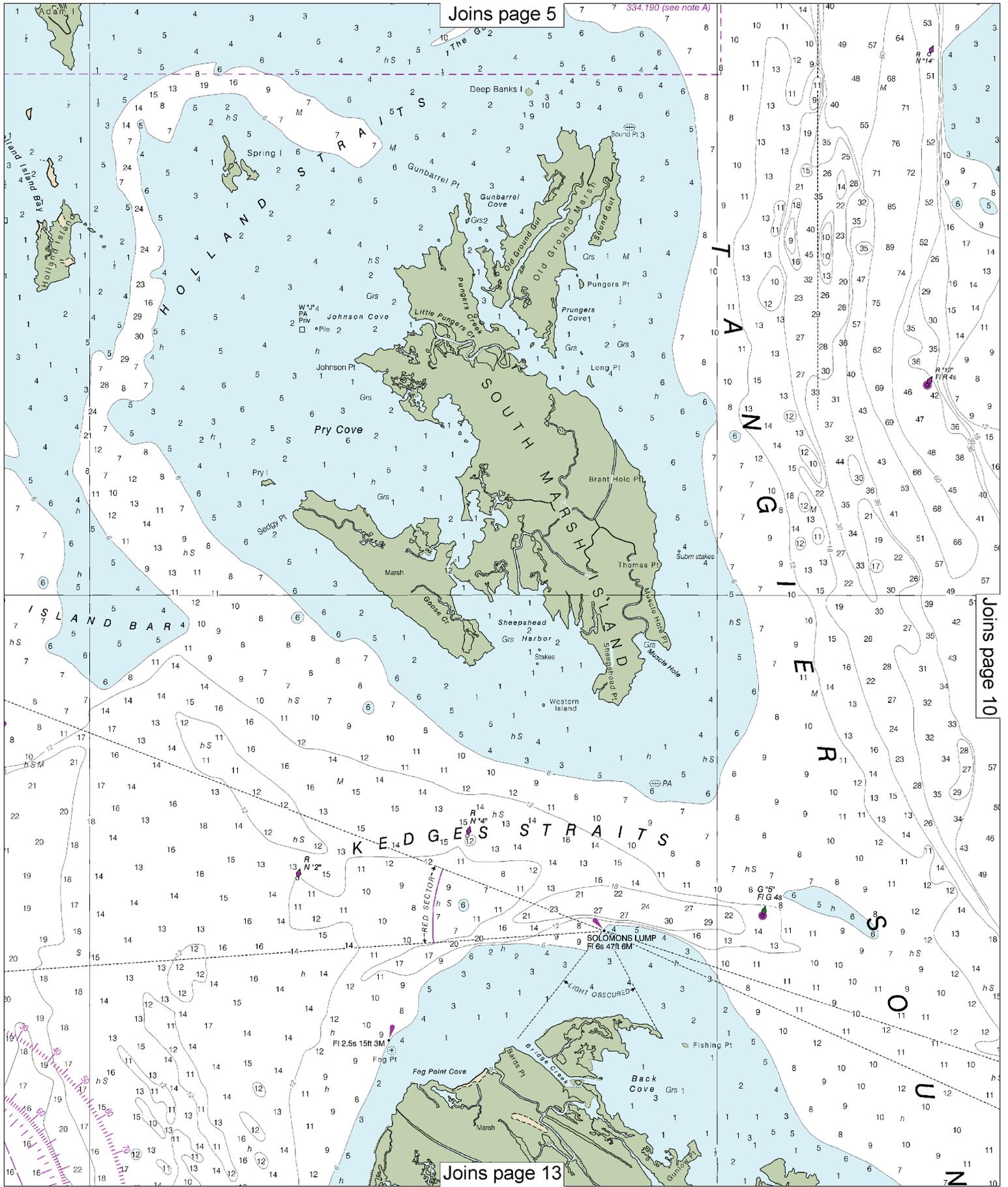
Note: Chart grid lines are aligned with true north.



See Note on page 5.

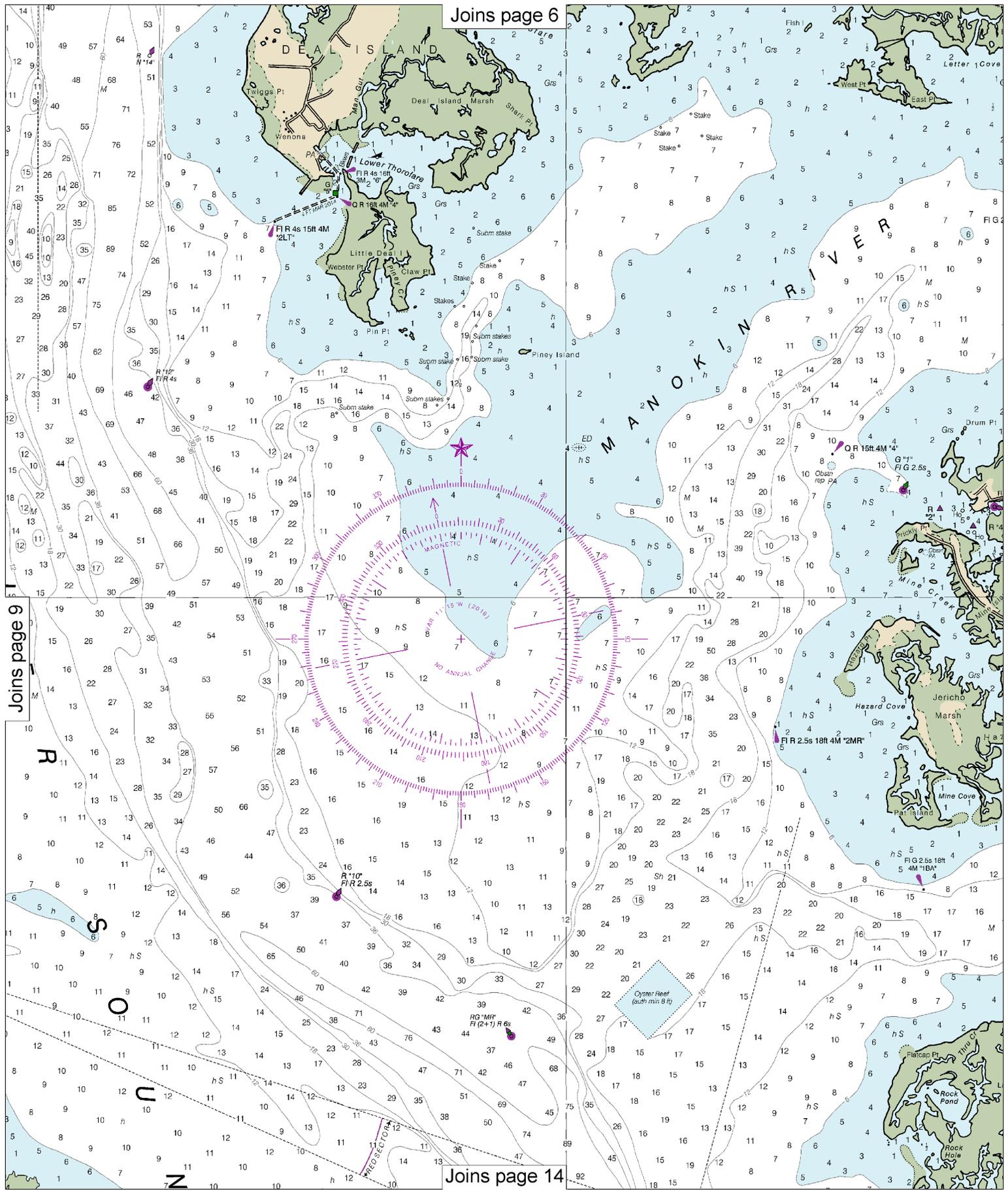
Joins page 5

334.190 (see note A)



Joins page 10

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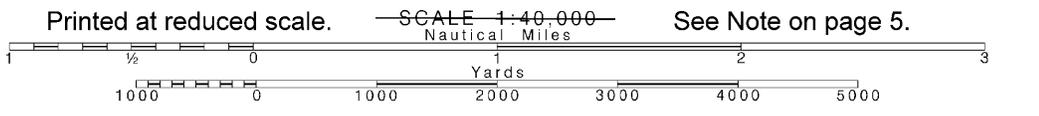
Joins page 6

Joins page 9

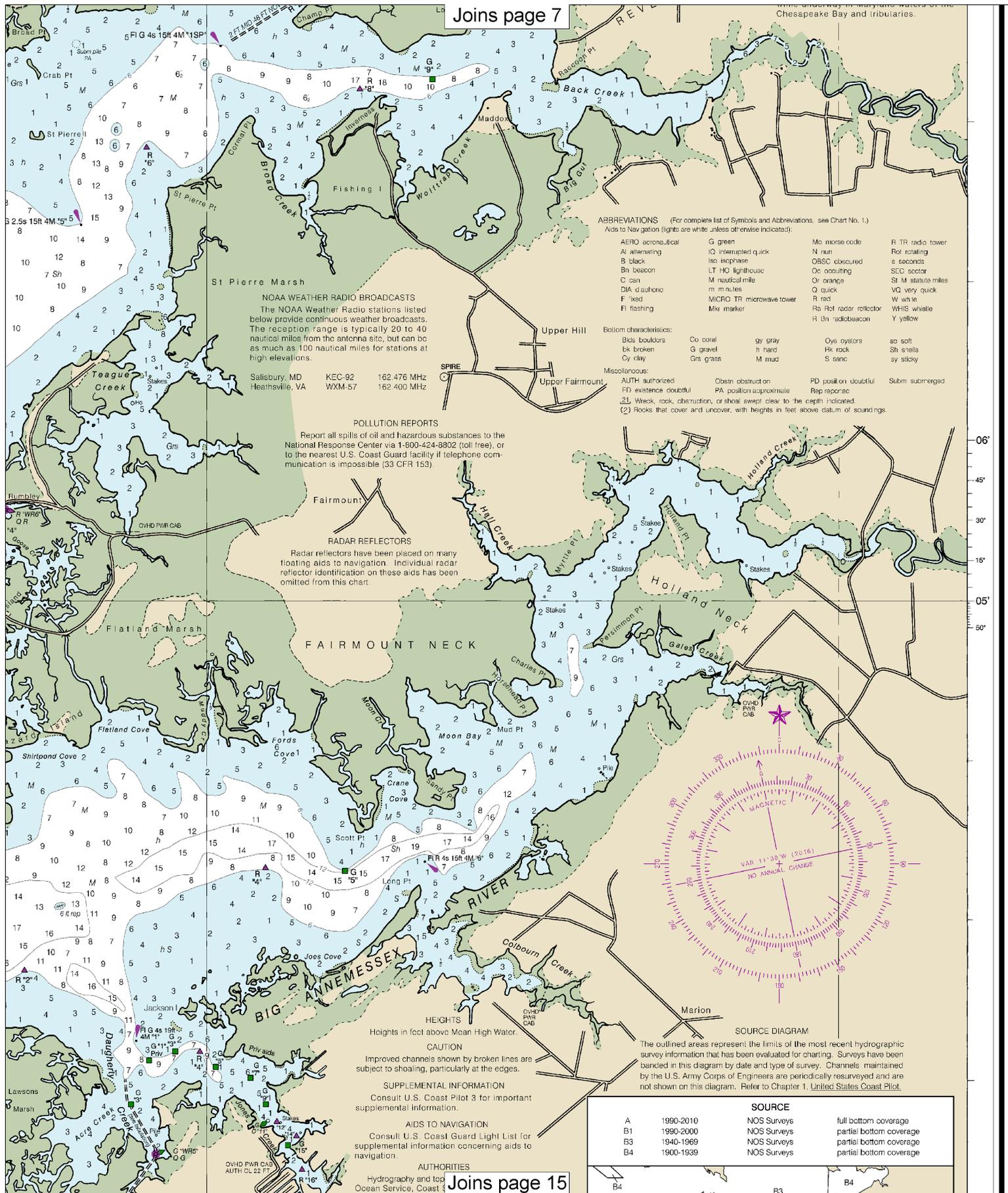
Joins page 14

**10**

Note: Chart grid lines are aligned with true north.



See Note on page 5.



**ABBREVIATIONS** (For complete list of Symbols and Abbreviations, see Chart No. 1.)  
 Aids to Navigation (lights are white unless otherwise indicated):

AERO aeronautical	G green	Mo morse code	R TR radio tower
Al alternating	IQ interrupted quick	N nun	Rot rotating
B black	Isa isophase	OBSC obscured	s seconds
Bn beacon	LT LC lighthouse	OC occulting	SEC sector
C can	M nautical mile	St M statute miles	
DIA d'astrolabe	m m nutes	VQ very quick	
F fixed	MICRO TR microwave tower	R rad	W white
Fl flashing	Mk marker	Ra Ref radar reflector	WHIS whistle
		Rn Rn radiobeacon	Y yellow

**NOAA WEATHER RADIO BROADCASTS**  
 The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Salisbury, MD	KEC-92	162.476 MHz
Heathsville, VA	WXM-57	162.400 MHz

**POLLUTION REPORTS**  
 Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

**RADAR REFLECTORS**  
 Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

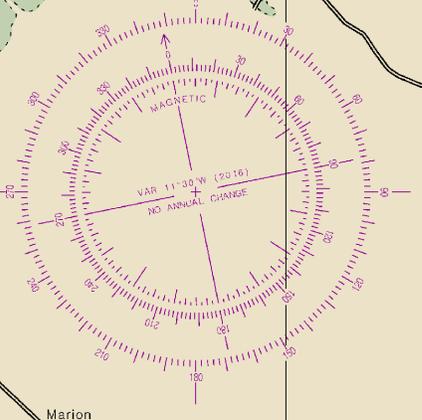
**Bottom characteristics:**

Bld boulders	Co coral	gy gray	Oys oysters
bk broken	G gravel	h hard	Rk rock
Cy clay	Grs grass	M mud	S sand

**Miscellaneous:**

AUTH authorized	Chain obstruction	PD position doubtful	Subm submerged
FD existence doubtful	PA position approximate	Rep report	

(1) Wreck, rock, obstruction, or shoal shown clear to the depth indicated.  
 (2) Rocks that cover and uncover, with heights in feet above datum of soundings.



**HEIGHTS**  
 Heights in fact above Mean High Water.

**CAUTION**  
 Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

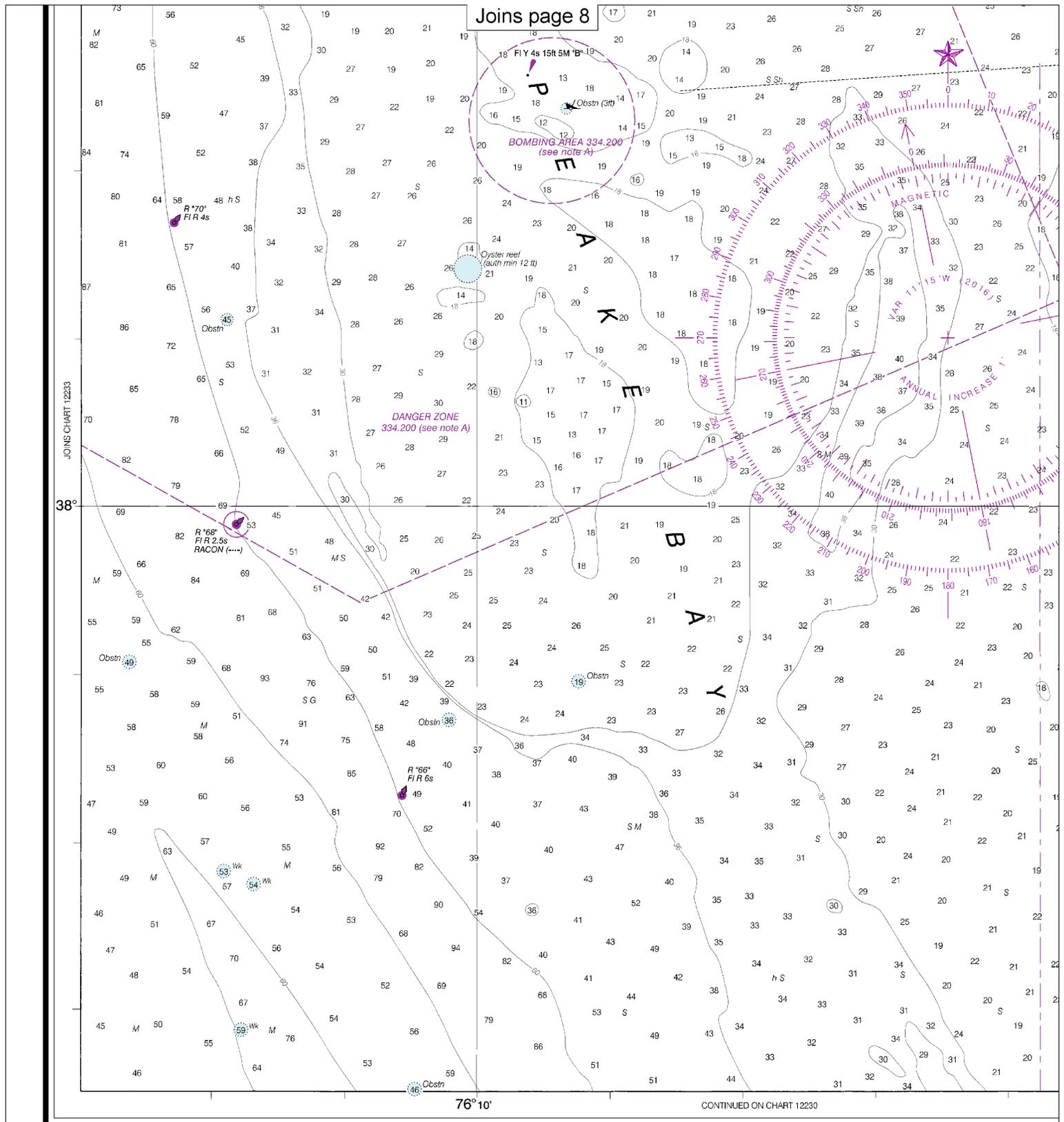
**SUPPLEMENTAL INFORMATION**  
 Consult U.S. Coast Pilot 3 for important supplemental information.

**SOURCE DIAGRAM**  
 The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

**AIDS TO NAVIGATION**  
 Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

SOURCE		
A	1990-2010	full bottom coverage
B1	1990-2000	partial bottom coverage
B3	1940-1969	partial bottom coverage
B4	1900-1939	partial bottom coverage

**AUTHORITIES**  
 Hydrography and top  
 Ocean Service, Coast



Joins page 8

JOINS CHART 12233

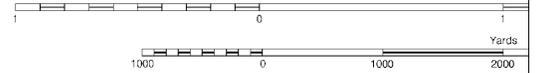
CONTINUED ON CHART 12230

12231

CAUTION  
 This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at [nauticalcharts.noaa.gov](http://nauticalcharts.noaa.gov).

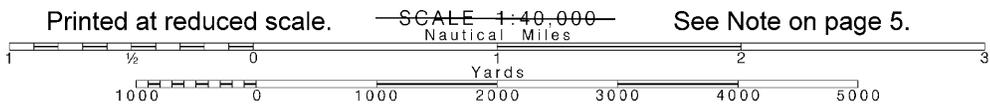
31st Ed., May 2016. Last Correction: 11/1/2016. Cleared through:  
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SCALE 1:40,000

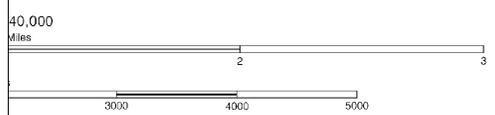
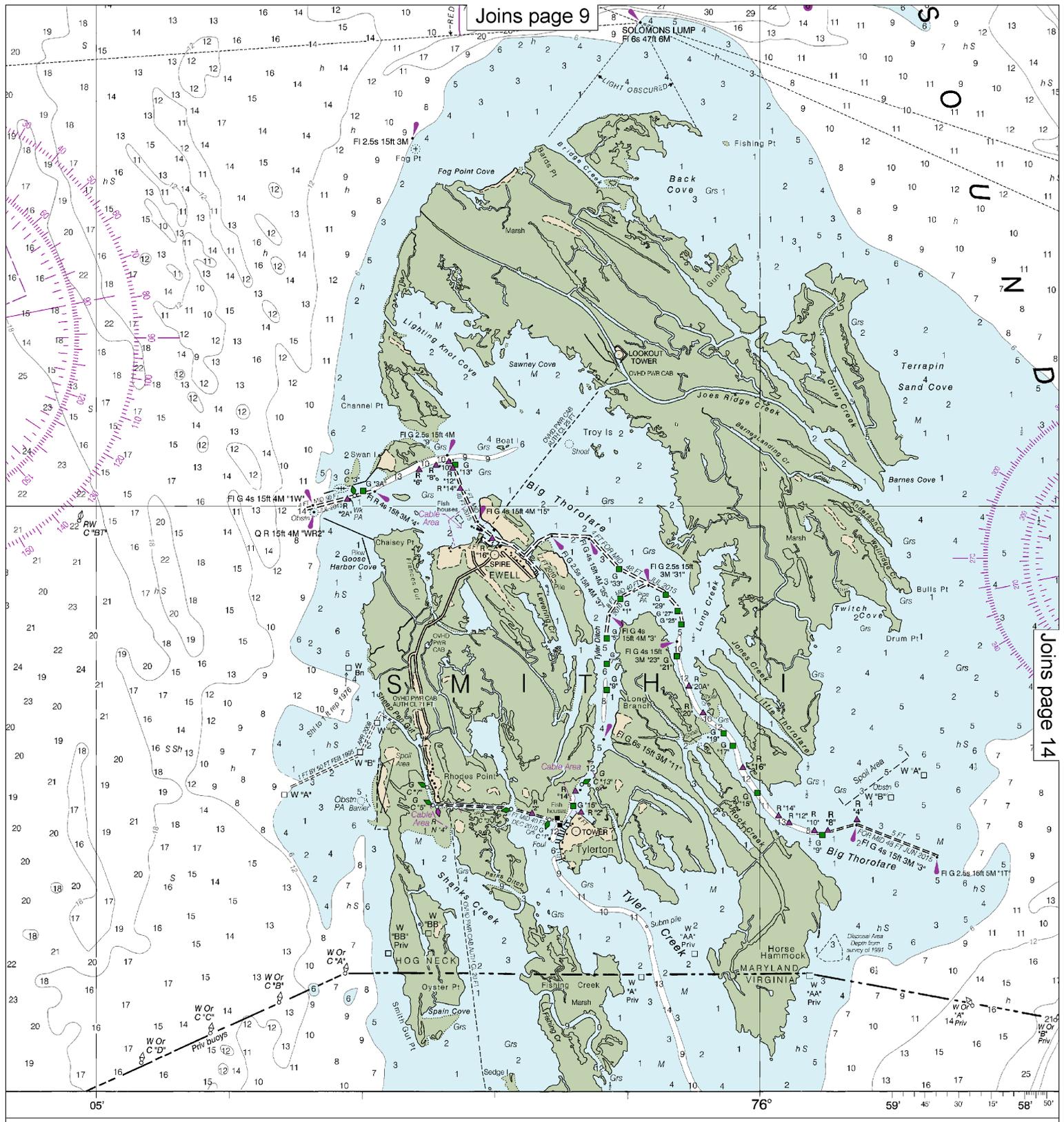


12

Note: Chart grid lines are aligned with true north.

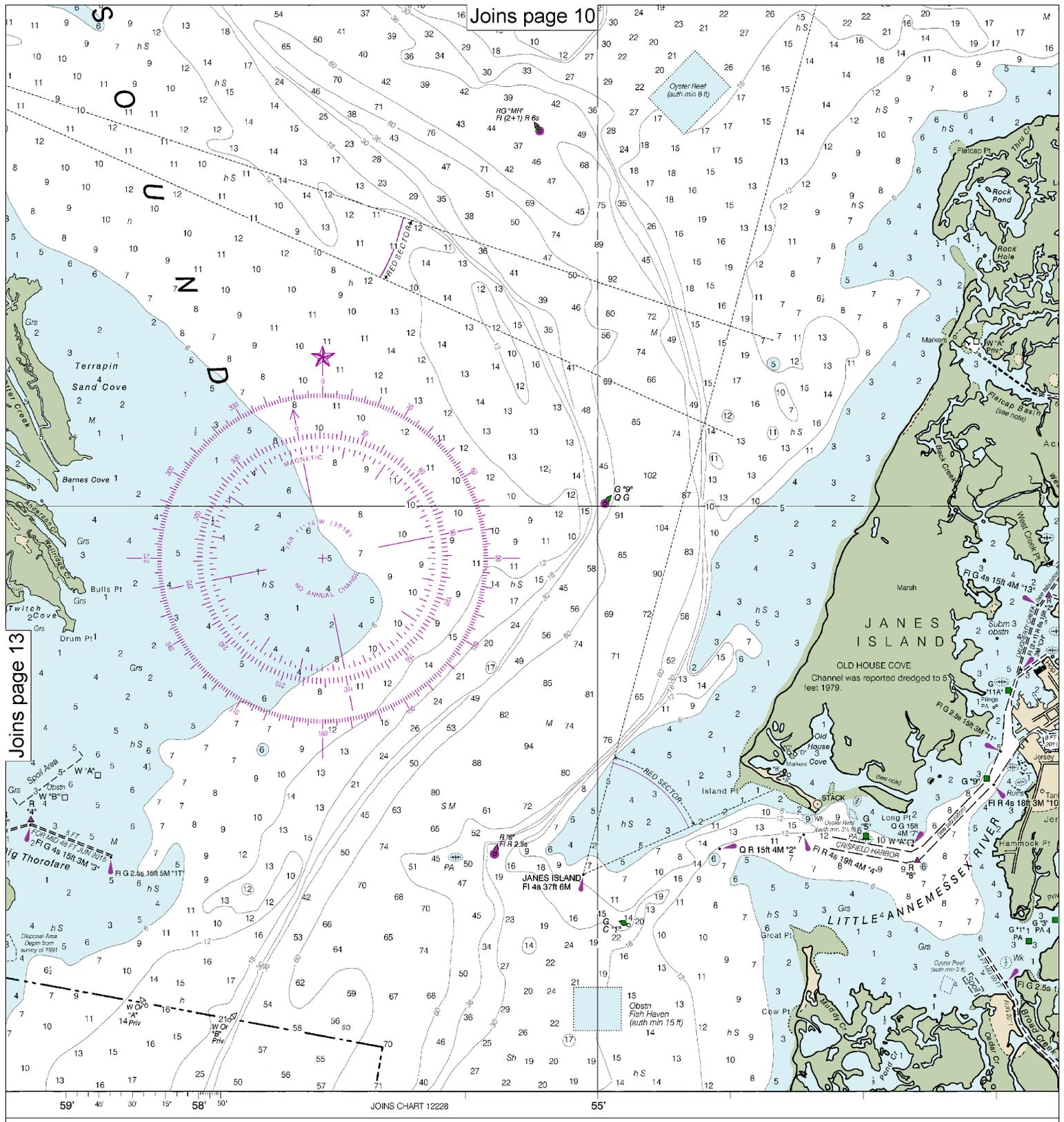


See Note on page 5.



NOAA encourages users to submit inquiries, discrepancies or comments about this chart at <http://www.nauticalcharts.noaa.gov/staff/contact.htm>.

Published at Washington, D.C.  
 U.S. DEPARTMENT OF COMMERCE  
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
 NATIONAL OCEAN SERVICE  
 COAST SURVEY



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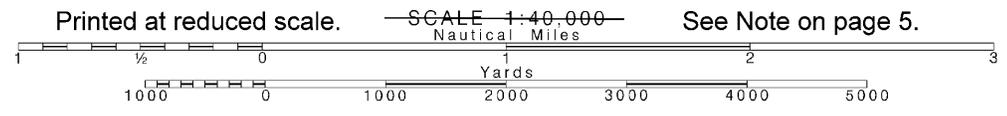
JOINS CHART 12228

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 U.S. DEPARTMENT OF COMMERCE  
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
 NATIONAL OCEAN SERVICE  
 COAST SURVEY

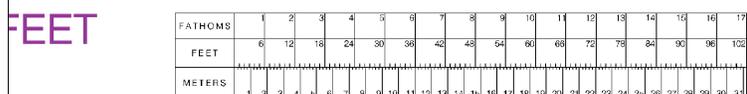
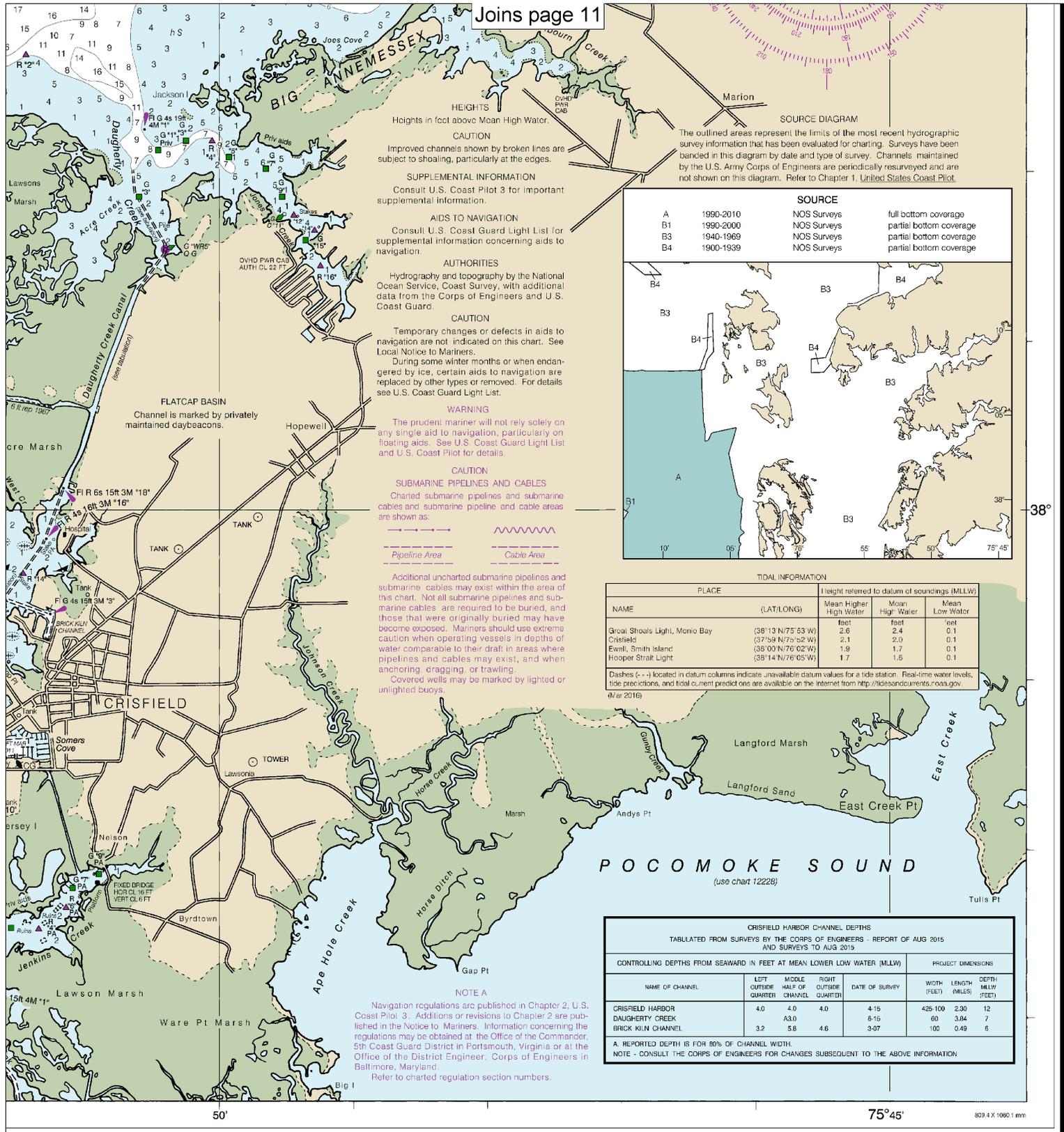
SOUNDINGS IN F

14

Note: Chart grid lines are aligned with true north.



See Note on page 5.



Tangier Sound, Northern Part  
SOUNDINGS IN FEET - SCALE 1:40,000

12231



EMERGENCY INFORMATION

### VHF Marine Radio channels for use on the waterways:

**Channel 6** – Inter-ship safety communications.

**Channel 9** – Communications between boats and ship-to-coast.

**Channel 13** – Navigation purposes at bridges, locks, and harbors.

**Channel 16** – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.

**Channel 22A** – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

**Channels 68, 69, 71, 72 and 78A** – Recreational boat channels.

**Getting and Giving Help** — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

### Distress Call Procedures

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
- Release transmit button.
- Wait for 10 seconds — If no response Repeat MAYDAY call.

**HAVE ALL PERSONS PUT ON LIFE JACKETS!**



**NOAA Weather Radio All Hazards (NWR)** is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.

<http://www.nws.noaa.gov/nwr/>

### Quick References

- Nautical chart related products and information — <http://www.nauticalcharts.noaa.gov>
- Interactive chart catalog — <http://www.charts.noaa.gov/InteractiveCatalog/nrnc.shtml>
- Report a chart discrepancy — <http://ocsddata.ncd.noaa.gov/idrs/discrepancy.aspx>
- Chart and chart related inquiries and comments — <http://ocsddata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs>
- Chart updates (LNM and NM corrections) — [http://www.nauticalcharts.noaa.gov/mcd/updates/LNM\\_NM.html](http://www.nauticalcharts.noaa.gov/mcd/updates/LNM_NM.html)
- Coast Pilot online — <http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm>
- Tides and Currents — <http://tidesandcurrents.noaa.gov>
- Marine Forecasts — <http://www.nws.noaa.gov/om/marine/home.htm>
- National Data Buoy Center — <http://www.ndbc.noaa.gov/>
- NowCoast web portal for coastal conditions — <http://www.nowcoast.noaa.gov/>
- National Weather Service — <http://www.weather.gov/>
- National Hurricane Center — <http://www.nhc.noaa.gov/>
- Pacific Tsunami Warning Center — <http://ptwc.weather.gov/>
- Contact Us — <http://www.nauticalcharts.noaa.gov/staff/contact.htm>



— For the latest news from Coast Survey, follow @NOAAcharts



This Booklet chart has been designed for duplex printing (printed on front and back of one sheet). If a duplex option is not available on your printer, you may print each sheet and arrange them back-to-back to allow for the proper layout when viewing.