

# BookletChart™

## York River – Yorktown and Vicinity

NOAA Chart 12241

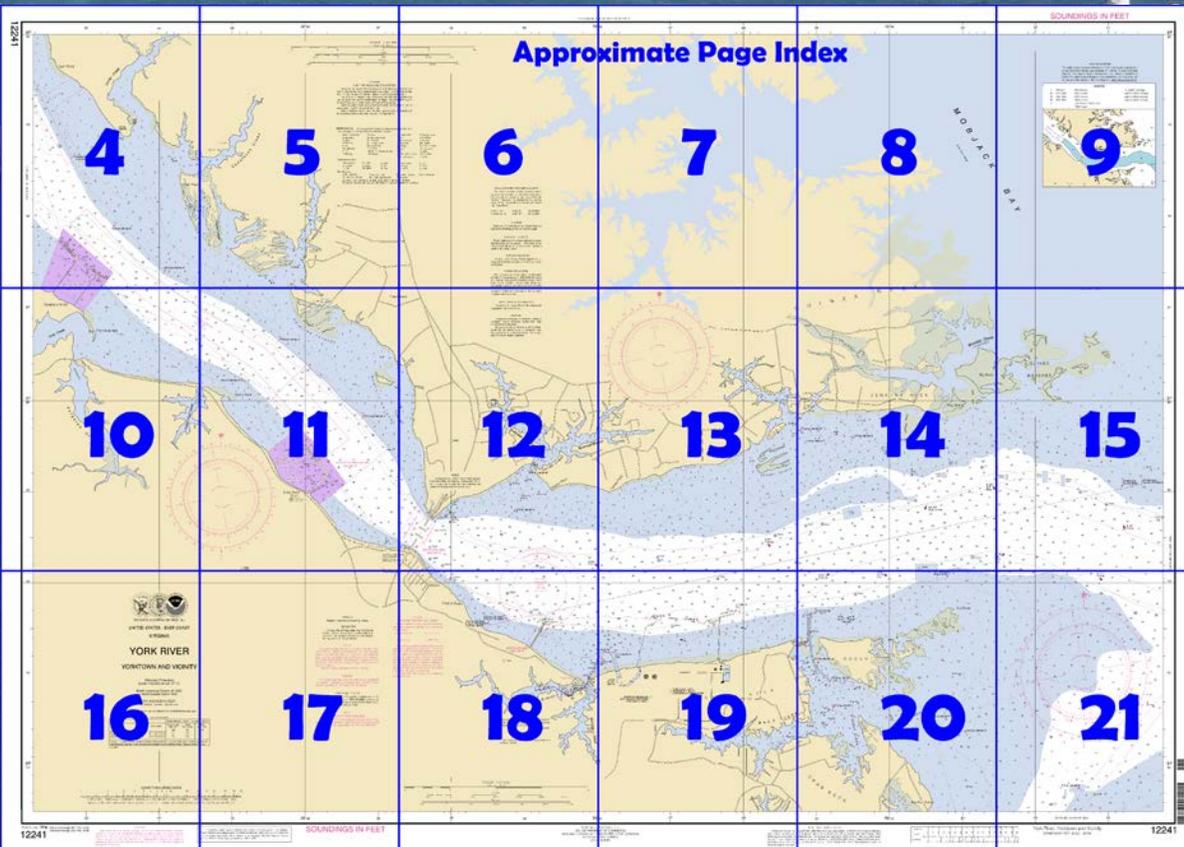


*A reduced-scale NOAA nautical chart for small boaters*

*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.

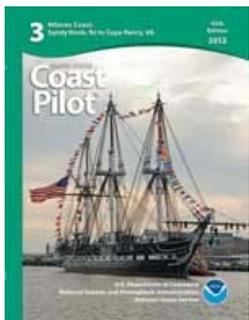
Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

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=12241>



**(Selected Excerpts from Coast Pilot)**

**York River.**—Drafts of vessels using the river are mostly 18 feet or less. York River has a broad and fairly straight channel, is well marked and easily followed. In 1982, the controlling depth in the dredged sections of the river was 18 feet to West Point. Vessels can anchor in the wider parts of York River channel aside from the naval areas described later.

The currents in York River follow the general direction of the channel except in the

narrowest parts where there is a tendency to set a vessel onto the shoals. The velocity varies throughout the river.

**Caution.**—Ships and craft in York River are to proceed at reduced speed

and exercise extreme caution in order to reduce water motion and to prevent damage to the Virginia Fisheries Laboratory equipment and facilities located downstream from the Coleman Memorial Bridge. In no instance should the **speed** of ships underway upriver from the Tue Marshes Light exceed 12 knots.

**Supplies** are available at Yorktown, West Point.

**York Spit** extends outward along the northeast side of the York River approach channel for 7 miles from Guinea Marshes; the inner half of the spit has depths of 1 to 6 feet, and the outer half 10 to 20 feet.

**York Spit Light** (37°12.6'N., 76°15.3' W.), 30 feet above the water, is shown from a pile with a red and white diamond-shaped daymark, in depths of 11 feet near the outer end of the spit.

1.5 miles northwest of York Spit Light, a buoyed lane extends northeastward through the fishtraps. The lane has depths of 15 feet or more and can be used by vessels approaching York River from northward.

The swash channel through York Spit about 5 miles northwest of York Spit Light has a controlling depth of 7 feet; it is marked by a light and daybeacons. The channel shows up well on a bright day.

**Tue Marshes Light** (37°14.1'N., 76° 23.2'W.), 41 feet above the water, is shown from a pile with a green and white diamond-shaped daymark, in depths of 4 feet 0.3 mile north of Tue Point.

**Perrin River** has depths of 6 feet or more in the approach and through a narrow marked channel to the wharf at **Perrin**. A marina on the east side has gasoline, diesel fuel, some supplies. Gasoline and diesel fuel can be obtained at several of the oysterhouse wharves, on the east side of the river entrance; depths of 4 to 7 feet are alongside the wharves.

**Caution.**—Ships and craft underway in York River are to proceed at reduced speed and exercise extreme caution in order to reduce generated water motion and to prevent damage to the Virginia Institute of Marine Science equipment and facilities located downstream from the Coleman Memorial Bridge, near Gloucester Point, ships and craft loading volatile fuels at the Giant Industries refinery pier, and other craft and property close to the shores of the river. In no instance should the **speed** of ships underway upriver from the Tue Marshes Light exceed 12 knots.

**Pilotage, York River.**—Pilotage on the York River is compulsory for all foreign vessels and for U.S. vessels under register in the foreign trade. A **naval explosives handling berth** is northward of the Coast Guard pier. (See **334.260**, chapter 2, for limits and regulations.) In May 2002, an obstruction was within the naval explosives handling berth 1150 yards northward of the Coast Guard T-pier in about 37°14'09"N., 76°38'36"W. The **Yorktown Naval Weapons Station** piers on the southwest side of York River, 8 miles above the mouth, have depths of about 36 to 39 feet at their outer ends. A **prohibited area** and a **restricted area** for mine service testing are off the piers. (See **334.260**, chapter 2, for limits and regulations.) A **naval anchorage** begins off the Naval Weapons Station piers and extends upriver about 4 miles. (See **110.166**, chapter 2, for limits and regulations.)

The **Naval Supply Center** piers at **Cheatham Annex Depot**, on the southwest side of York River 11.5 miles above the mouth, have reported depths of 22 feet at the southeasterly T-pier, and 20 feet alongside the inside face and 21.5 feet alongside the outside face of the northwesterly L-pier; greater depths are close off the outside faces of both piers. The piers are within a **naval restricted area**. (See **334.270**, chapter 2, for limits and regulations.)

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

RCC Norfolk      Commander  
5th CG District      (575) 398-6231  
Norfolk, VA

# 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).

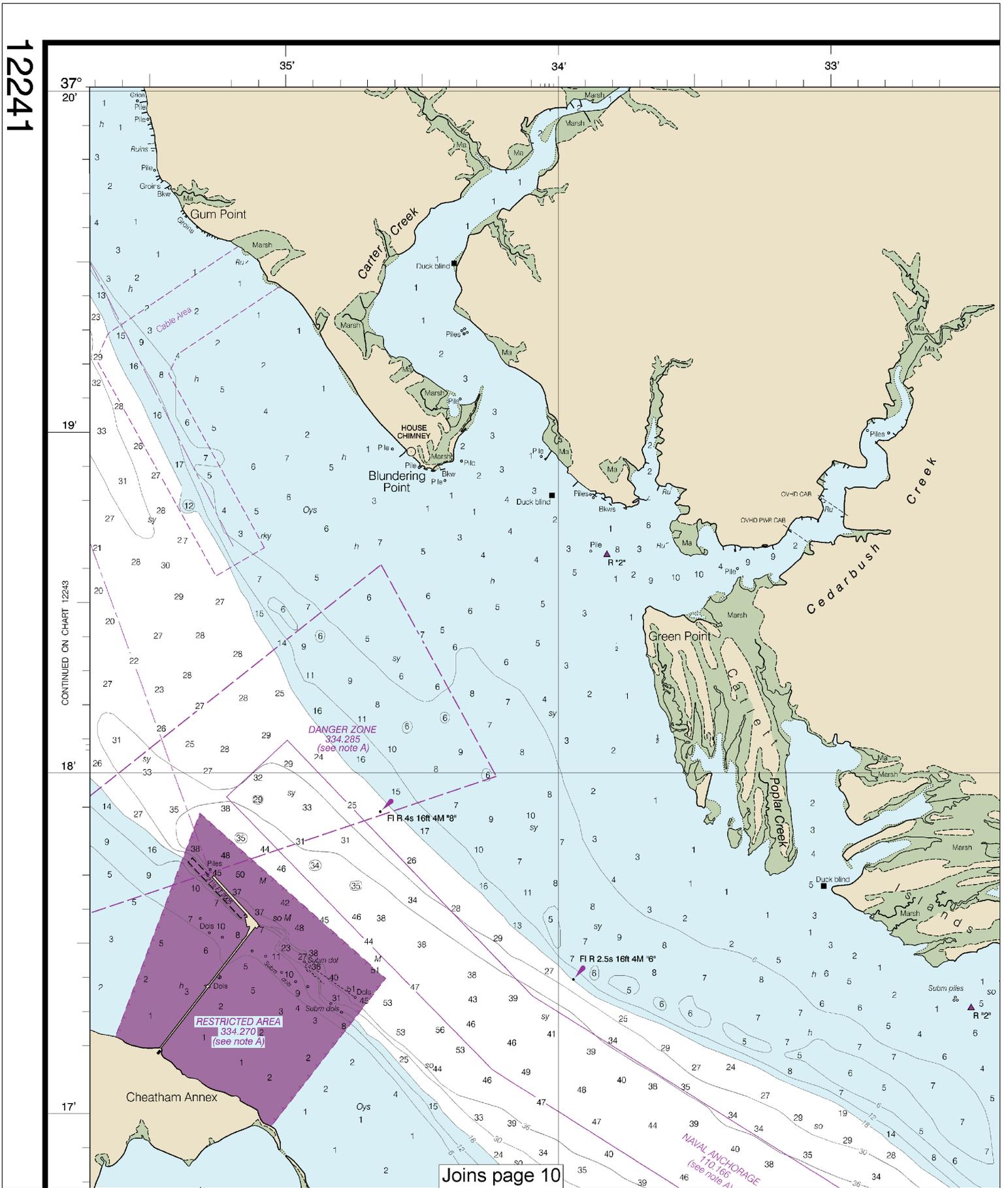
To report a chart discrepancy, please use [ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx](http://ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx).

## 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>



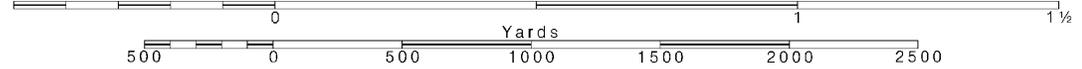
Joins page 10

Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:20,000  
Nautical Miles

See Note on page 5.



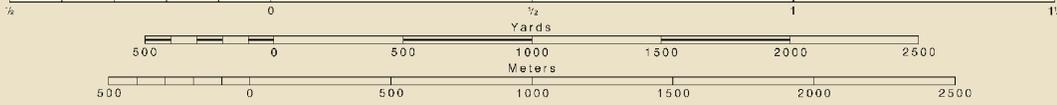
76°32'

31'

30'

29'

SCALE 1:20,000  
Nautical Miles



**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.

**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 HO lighthouse	Oc occulting	SEC sector
C can	M nautical mile	Or orange	St M statute miles
DIA diaphone	m minutes	Q quick	VC very quick
F fixed	MICRO TR microwave tower	R red	W white
Fl flashing	Mkr marker	Ra Ref radar reflector	WHIS whistle
		R Bn radiobeacon	Y yellow

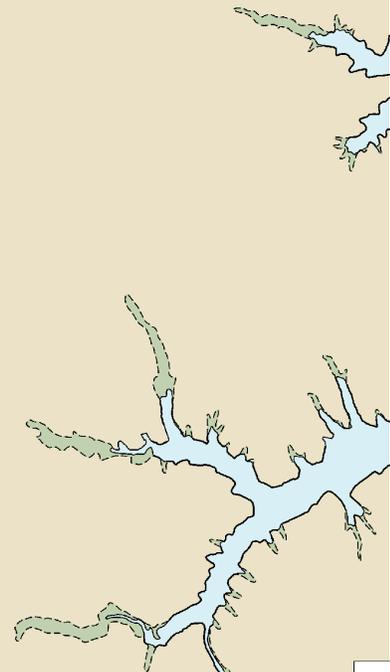
  

<b>Bottom characteristics:</b>			
Blds boulders	Co coral	gy gray	Oys oysters
bk broken	G gravel	h hard	Rk rock
Cy clay	Grs grass	M mud	S sand
			so soft
			Sh shells
			sy sticky

<b>Miscellaneous:</b>			
AUTH authorized	Obstr obstruction	PD position doubtful	Subm submerged
ED existence doubtful	PA position approximate	Rep reported	

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



**NOAA WEATHER RADIO BROADCAST**  
 The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 30 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Norfolk, VA	KHB-37	162.550 MHz
Heathsville, VA	WXM-57	162.400 MHz

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

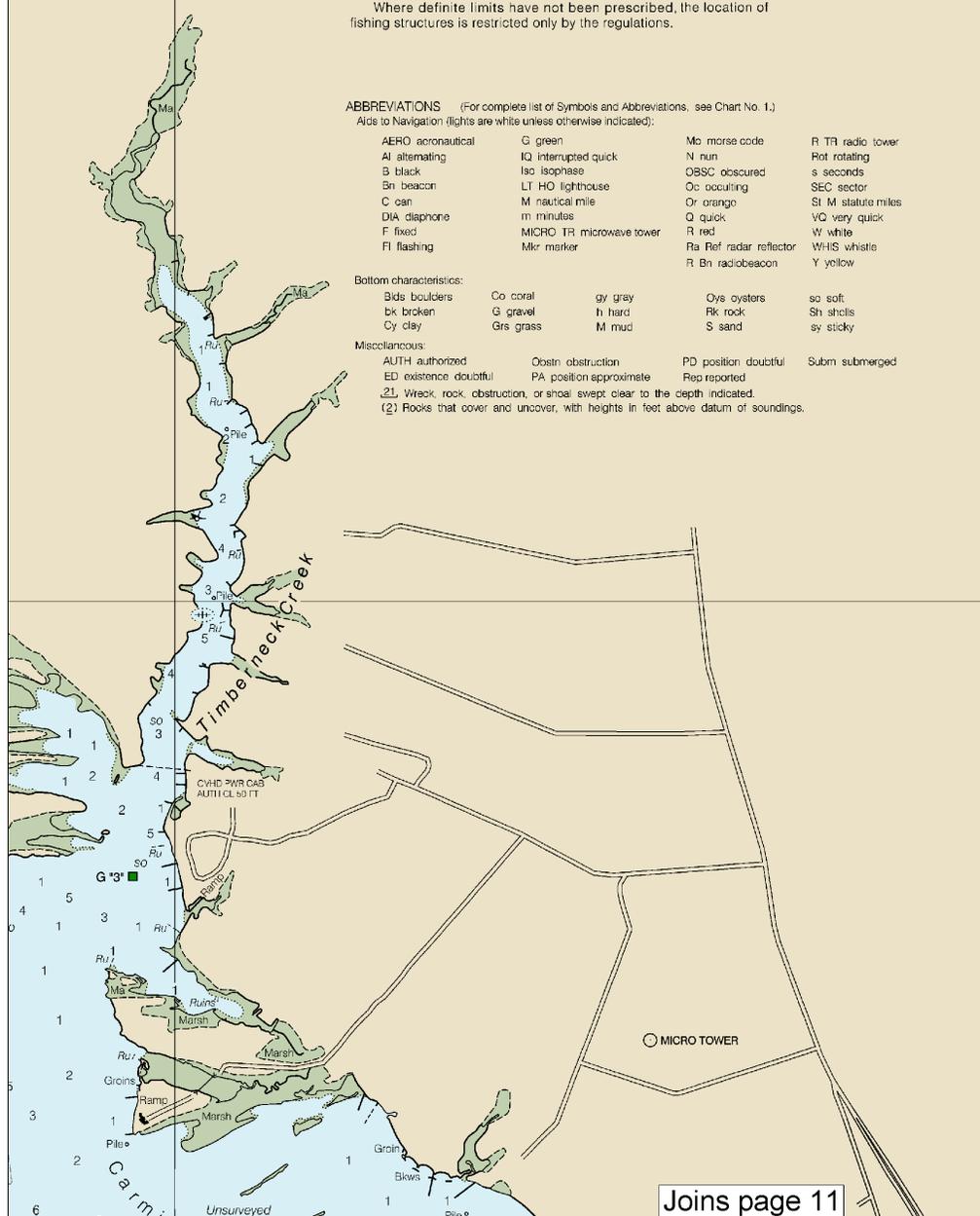
**RADAR REFLECTORS**  
 Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

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

**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 0.520' northward and 1.150' eastward to agree with this chart.

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

**CAUTION**  
 Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.  
 During some winter months or when endan-



Joins page 11

Joins page 6

This BookletChart was reduced to 75% of the original chart scale. The new scale is 1:26666. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.



31' 30' 29' 7

SCALE 1:20,000  
Nautical Miles

Yards

Meters

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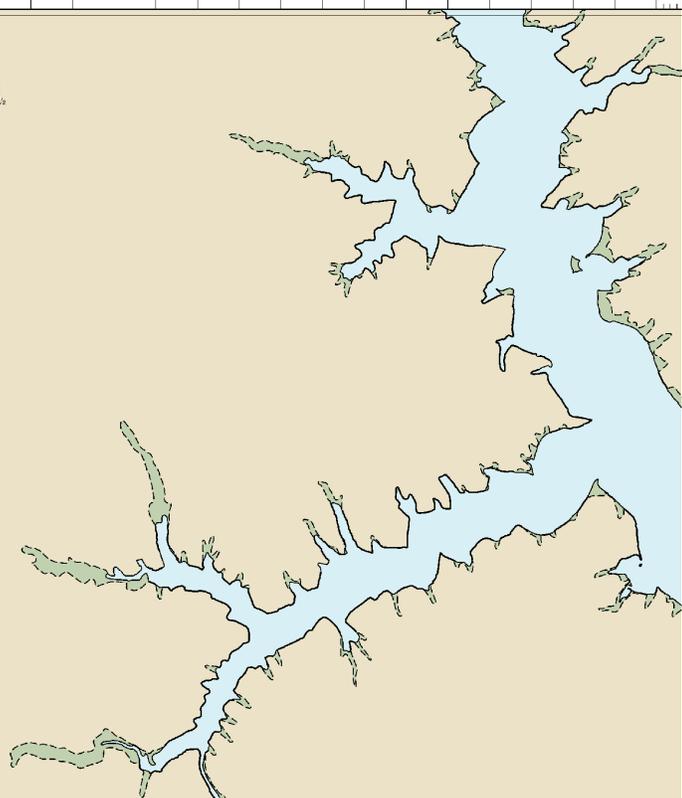
AERO aeronautical	G green	Mo morse code	R TR radio tower
Al alternating	IQ interrupted quick	N nun	Rot rotating
B black	Isi isophase	OBSC obscured	s seconds
Bn beacon	LT HO lighthouse	Oc occulting	SEC sector
C can	M nautical mile	Or orange	St M statute miles
DIA diaphone	m minutes	Q quick	VQ very quick
F fixed	MICRO TR microwave tower	R red	W white
Fl flashing	Mkr marker	Ra Ref radar reflector	WHIS whistle
		R Bn radiobeacon	Y yellow

**Bottom characteristics:**

Bds boulders	Co coral	gy gray	Oys oysters	so soft
bk broken	G gravel	h hard	Rk rock	Sh shells
Cy clay	Grs grass	M mud	S sand	sy sticky

**Miscellaneous:**

AUTH authorized	Ocstrn obstruction	PD position doubtful	Subm submerged
ED existence doubtful	PA position approximate	Rep reported	
(1) Wreck, rock, obstruction, or shoal swept clear to the depth indicated.			
(2) Rocks that cover and uncover, with heights in feet above datum of soundings.			



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Heathsville, VA	WXM-57	162,400 MHz

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

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Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

**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 0.520" northward and 1.180" eastward to agree with this chart.

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

**CAUTION**  
Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.  
During some winter months or when endan-

Joins page 5

Joins page 12

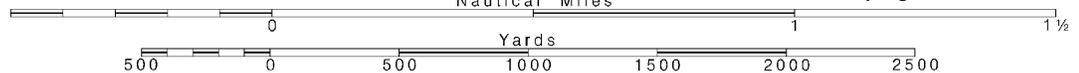


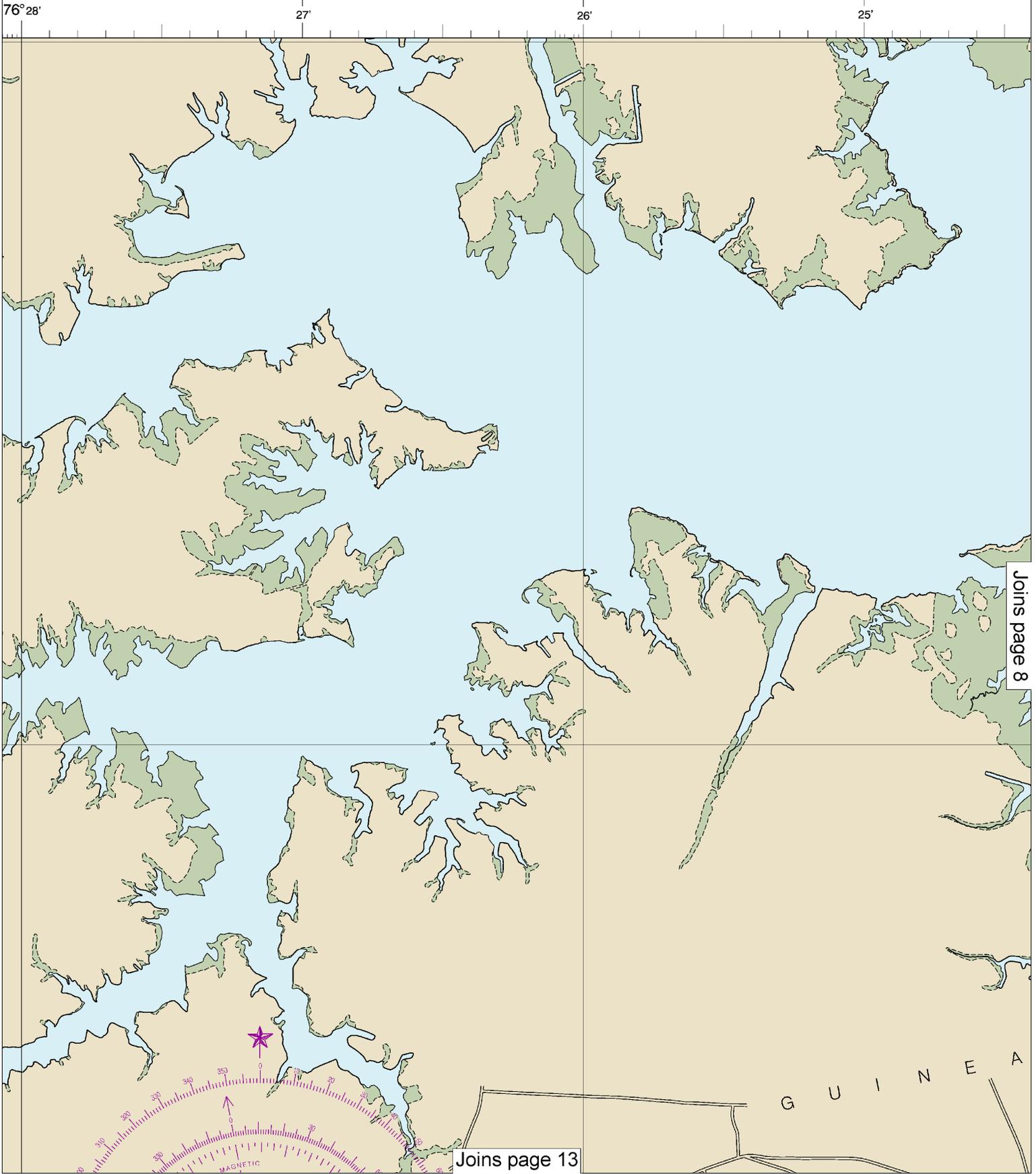
Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:20,000  
Nautical Miles

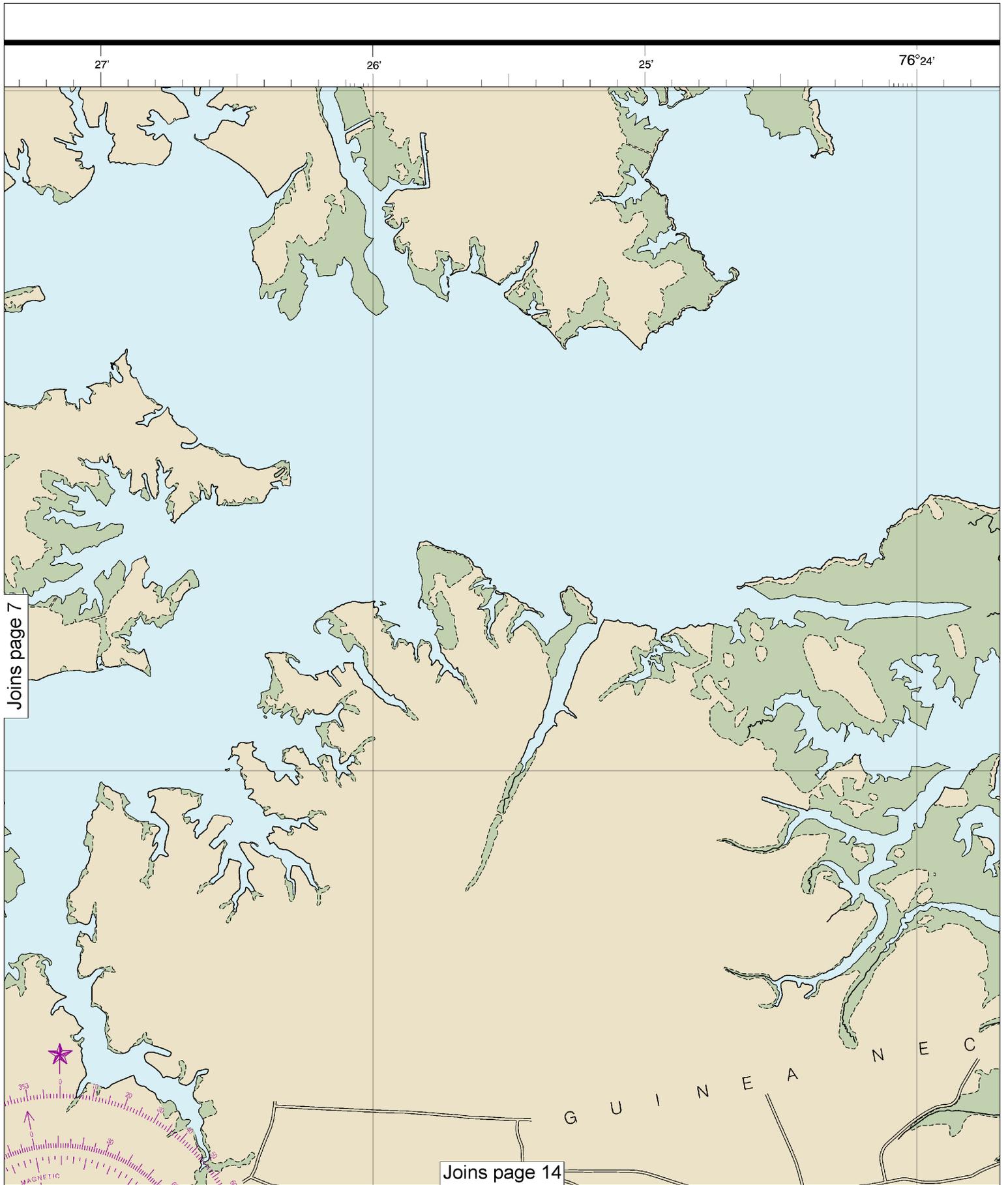
See Note on page 5.



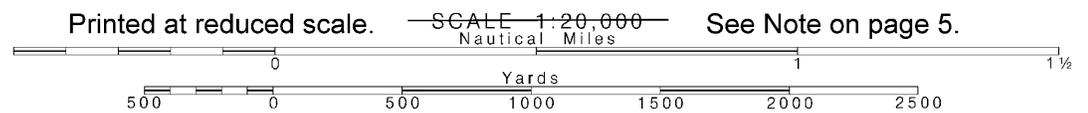


23rd Ed., Mar. 2014. Last Correction: 11/14/2016. Cleared through:  
LNM: 4816 (11/29/2016), NM: 5016 (12/10/2016)





Note: Chart grid lines are aligned with true north.



23'

22'

21'

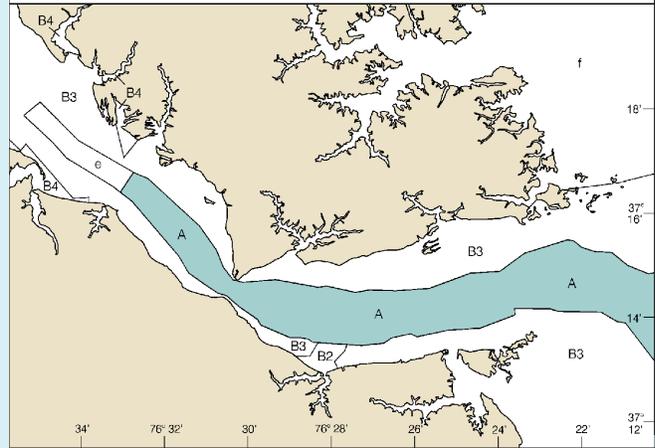
37°  
20'

### 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](#).

### SOURCE

A	1990-2007	NOS Surveys	full bottom coverage
B2	1970-1989	NOS Surveys	partial bottom coverage
B3	1940-1969	NOS Surveys	partial bottom coverage
B4	1900-1939	NOS Surveys	partial bottom coverage
e		U.S. Government Surveys	
f		Chart 12238	

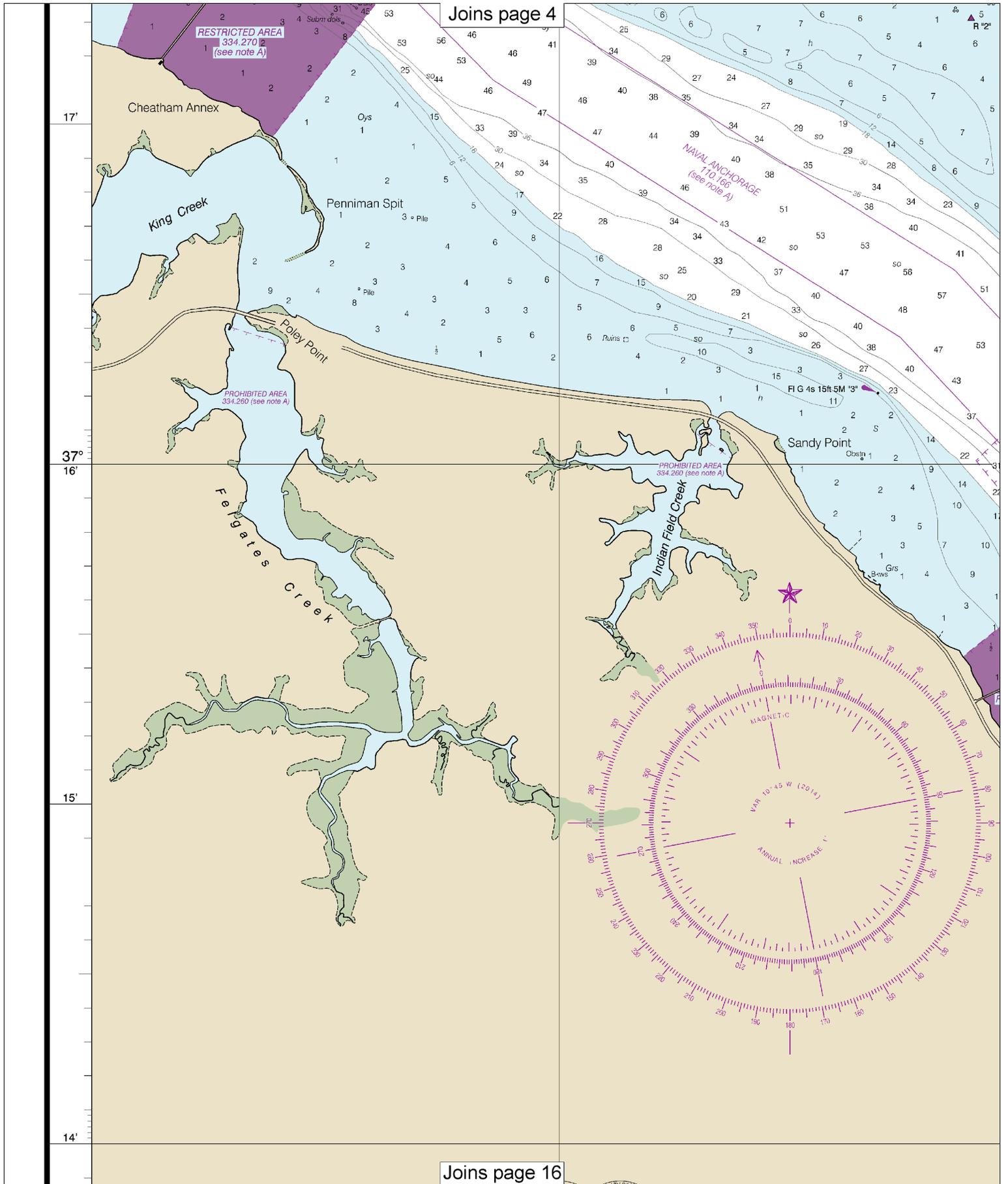


MOBJACK  
BAY

(use chart 12238)

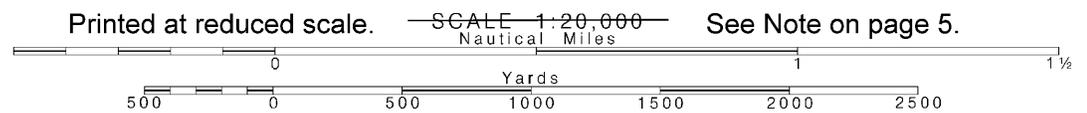
(use chart 12238)

Joins page 15



**10**

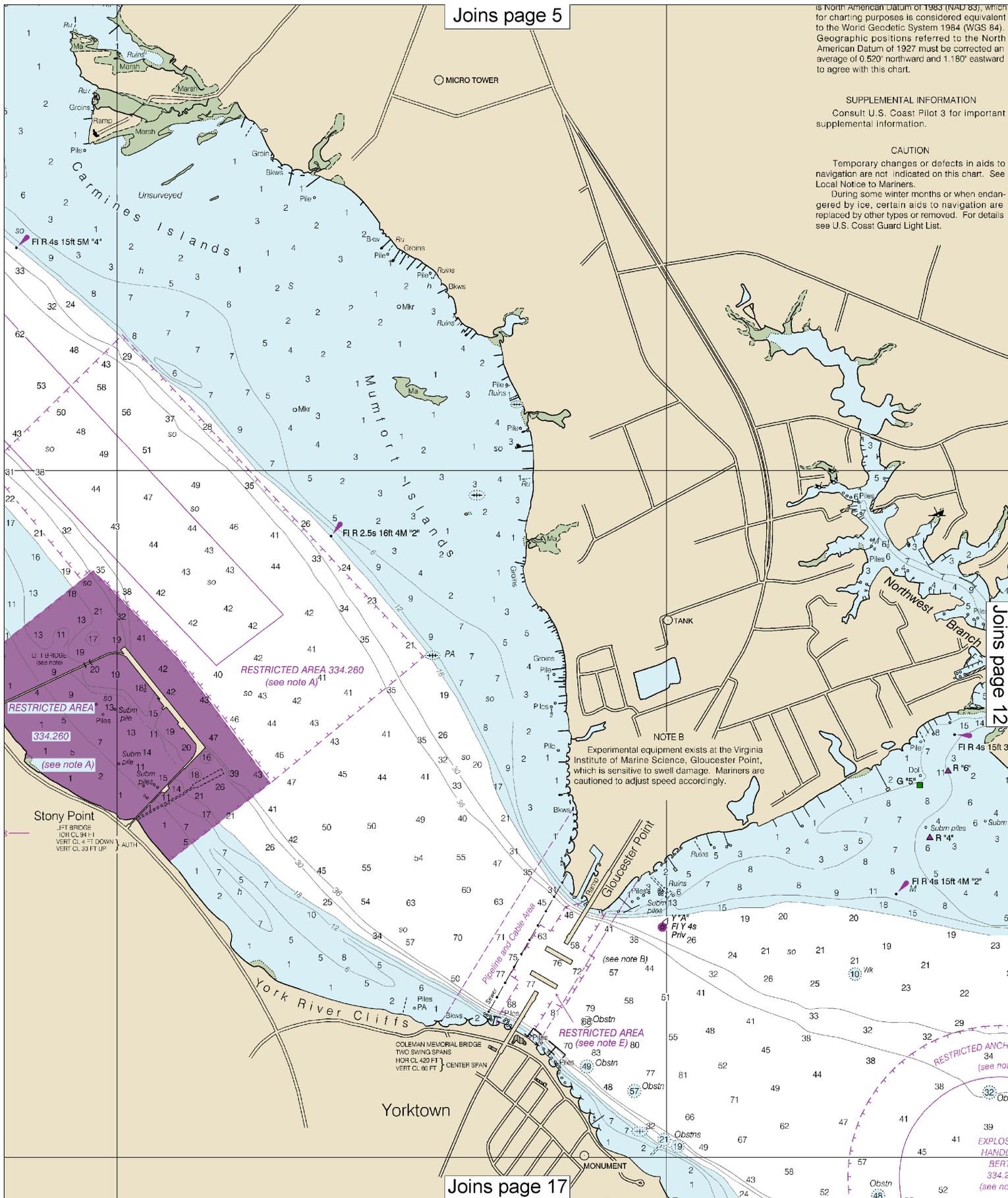
Note: Chart grid lines are aligned with true north.



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 0.520' northward and 1.180' eastward to agree with this chart.

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

**CAUTION**  
Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.  
During some winter months or when endangered by ice, certain aids to navigation are replaced by other types or removed. For details see U.S. Coast Guard Light List.

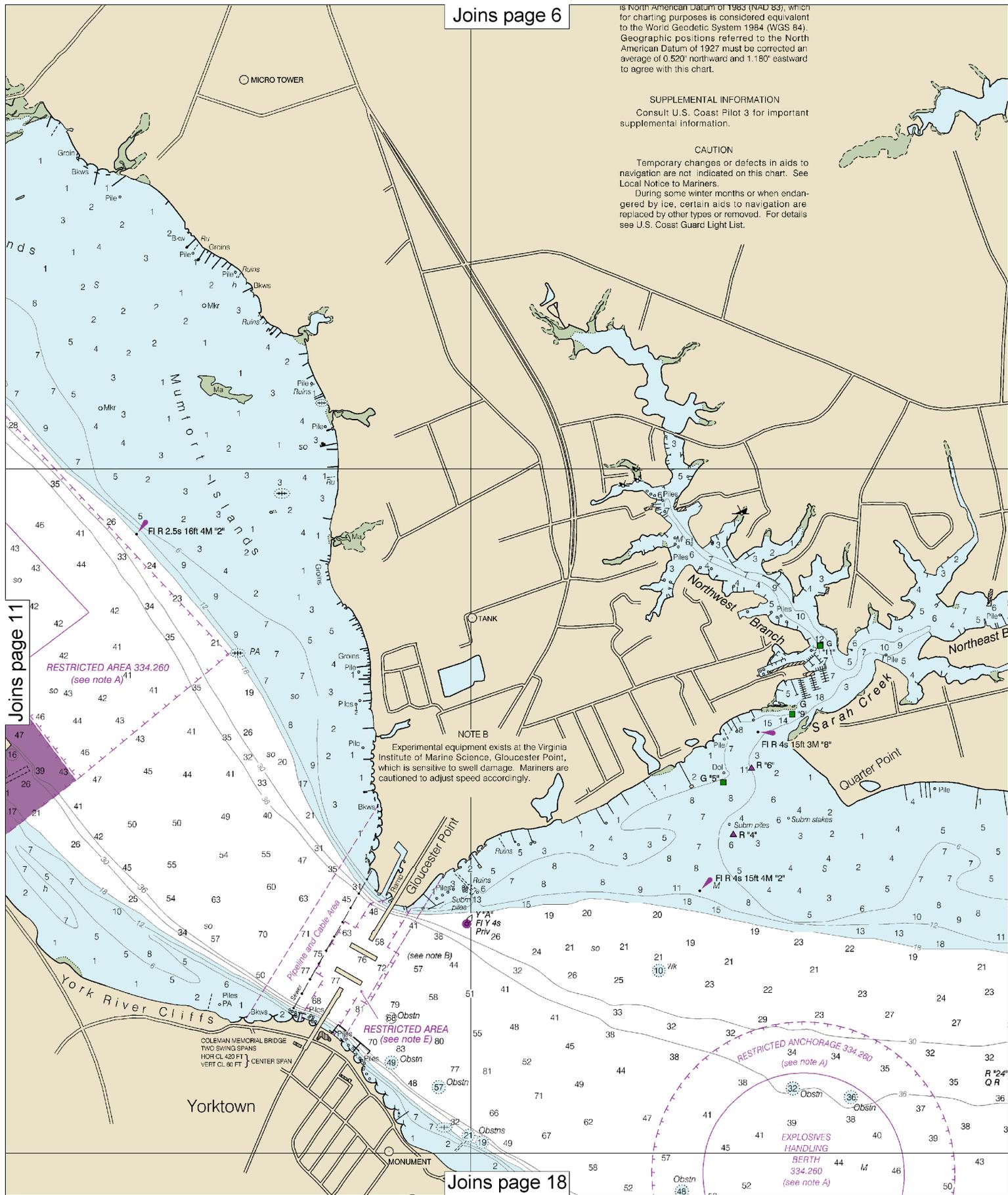


Joins page 12

is North American Datum of 1963 (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 0.520' northward and 1.180' eastward to agree with this chart.

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Joins page 11

Joins page 18

12

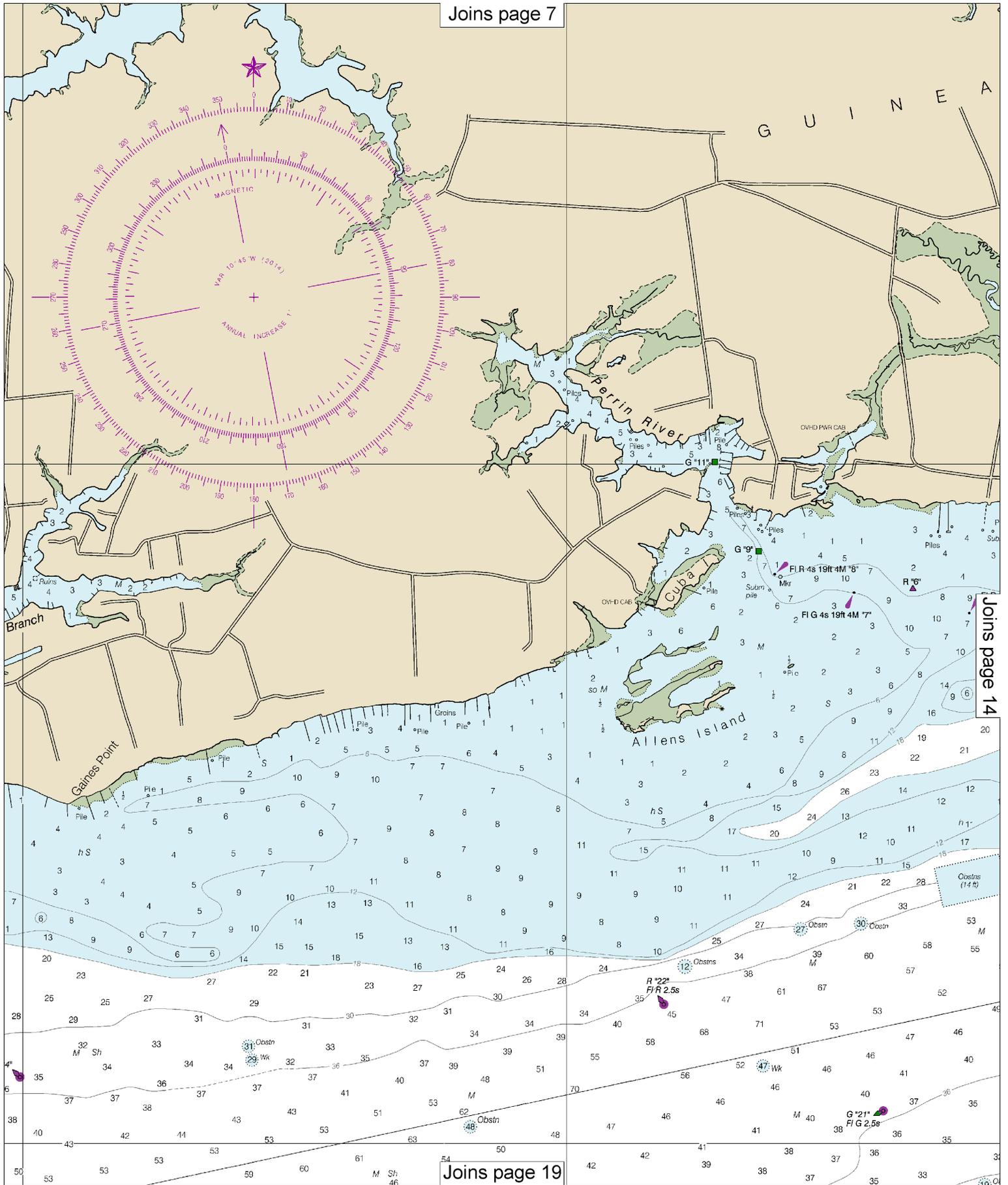
Note: Chart grid lines are aligned with true north.

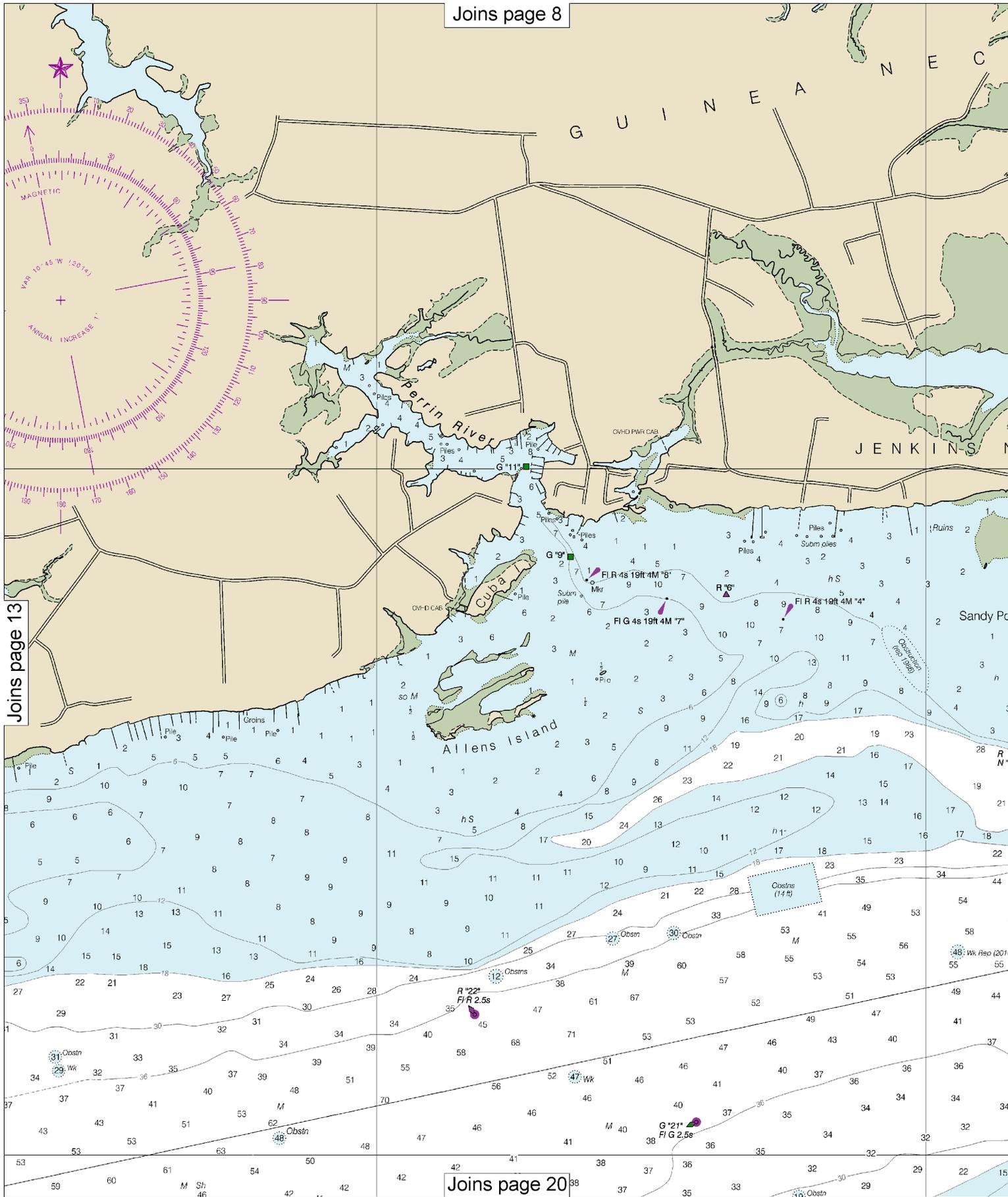
Printed at reduced scale.

SCALE 1:20,000  
Nautical Miles

See Note on page 5.







Joins page 13

Joins page 20

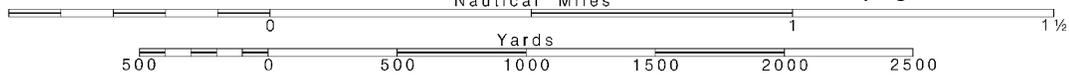
# 14

Note: Chart grid lines are aligned with true north.

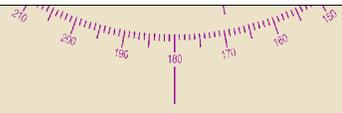
Printed at reduced scale.

SCALE 1:20,000  
Nautical Miles

See Note on page 5.







14'



THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES - EAST COAST  
VIRGINIA

# YORK RIVER

## YORKTOWN AND VICINITY

Mercator Projection  
Scale 1:20,000 at Lat. 37°16'

North American Datum of 1983  
(World Geodetic System 1984)

SOUNDINGS IN FEET  
AT MEAN LOWER LOW WATER

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

### TIDAL INFORMATION

PLACE		Height referred to datum of soundings (MLLW)		
NAME	(LAT/LONG)	Mean Higher High Water	Mean High Water	Mean Low Water
Tue Marshes	(37°14'N/76°23'W)	feet 2.6	feet 2.3	feet 0.1

Dashes (---) located in datum columns indicate unavailable datum values for a tide station. Real-time water levels, tide predictions, and tidal current predictions are available on the Internet from <http://tidesandcurrents.noaa.gov>. (Dec 2013)

13'

37°

12'

35'

34'

33'

# 12241

### 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).

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

23rd Ed., Mar. 2014. Last Correction: 11/14/2016. Cleared through:  
LNM: 4816 (11/29/2016), NM: 5016 (12/10/2016)

# 16

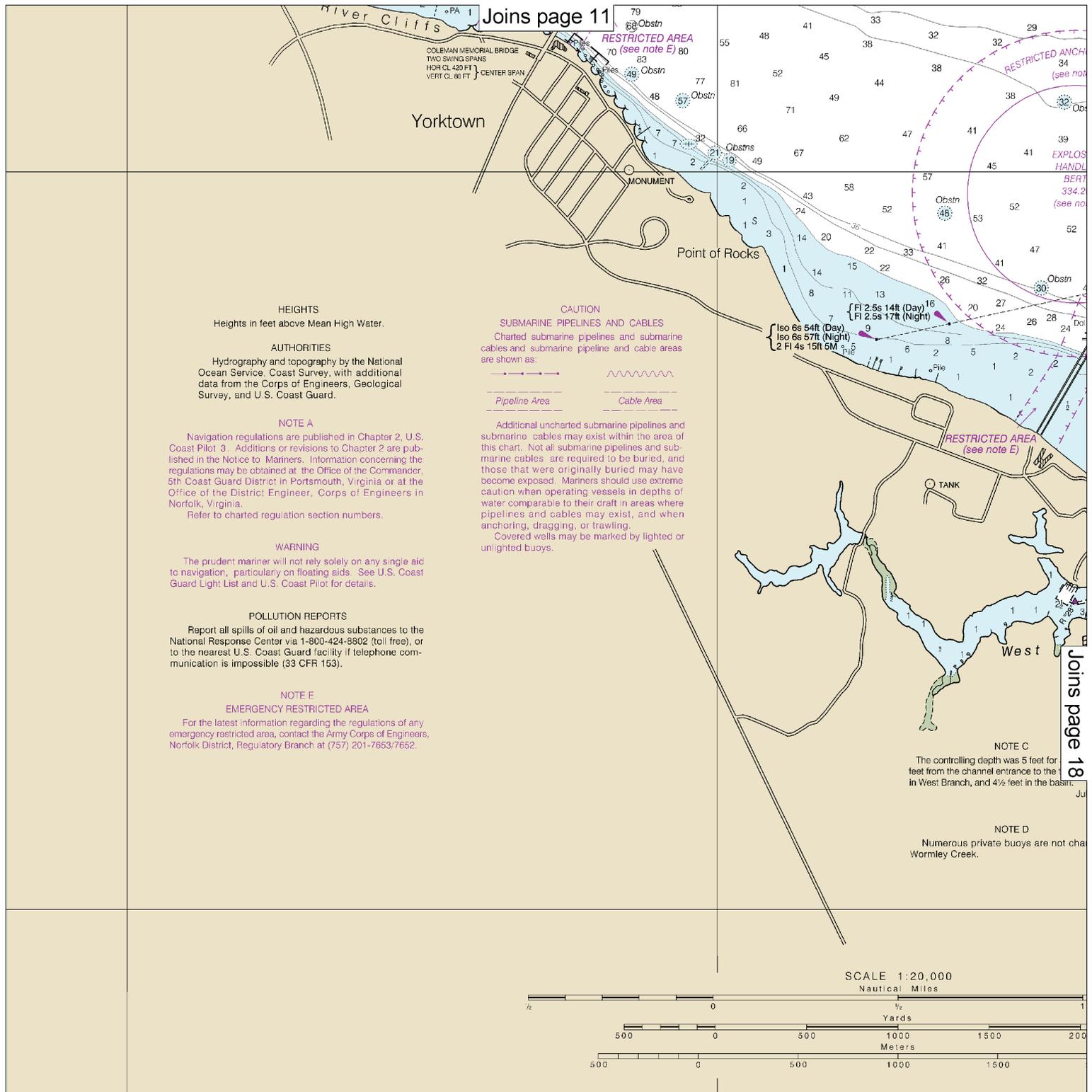
Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:20,000  
Nautical Miles

See Note on page 5.





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

**AUTHORITIES**  
Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

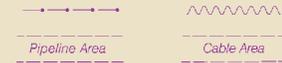
**NOTE A**  
Navigation regulations are published in Chapter 2, U.S. Coast Pilot 3. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 5th Coast Guard District in Portsmouth, Virginia or at the Office of the District Engineer, Corps of Engineers in Norfolk, Virginia.  
Refer to charted regulation section numbers.

**WARNING**  
The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

**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).

**NOTE E**  
**EMERGENCY RESTRICTED AREA**  
For the latest information regarding the regulations of any emergency restricted area, contact the Army Corps of Engineers, Norfolk District, Regulatory Branch at (757) 201-7653/7652.

**CAUTION**  
**SUBMARINE PIPELINES AND CABLES**  
Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:

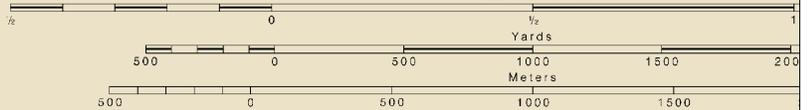


Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling.  
Covered wells may be marked by lighted or unlighted buoys.

**NOTE C**  
The controlling depth was 5 feet for feet from the channel entrance to the in West Branch, and 4½ feet in the basin.

**NOTE D**  
Numerous private buoys are not charted in Wormley Creek.

SCALE 1:20,000  
Nautical Miles



76° 32'

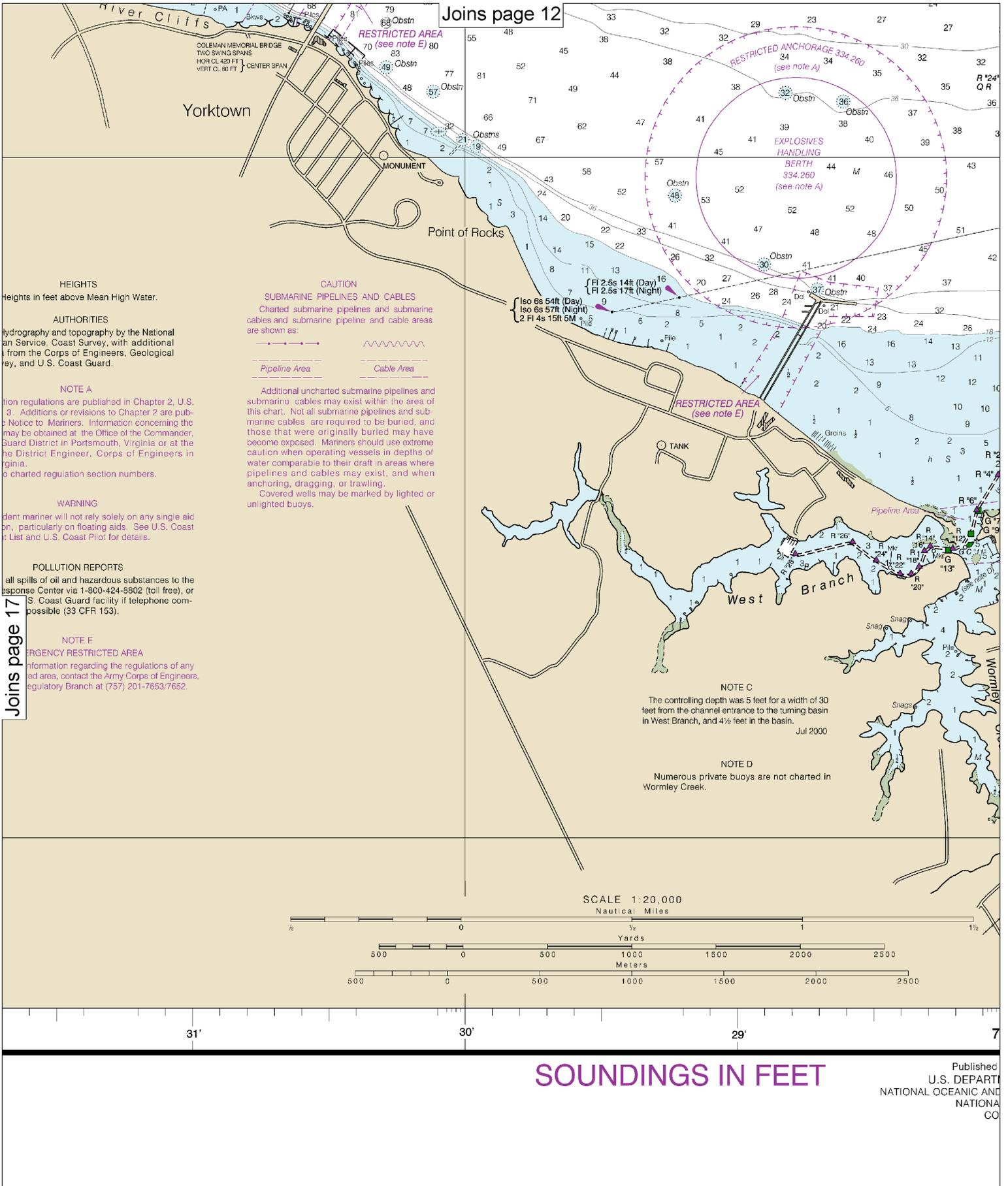
31'

30'

29'

For more information or comments, please contact [this page](#).

**SOUNDINGS IN FEET**



Joins page 17

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

**AUTHORITIES**  
Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

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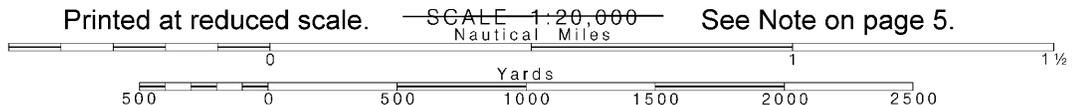
**WARNING**  
The prudent mariner will not rely solely on any single aid, particularly on floating aids. See U.S. Coast Pilot List and U.S. Coast Pilot for details.

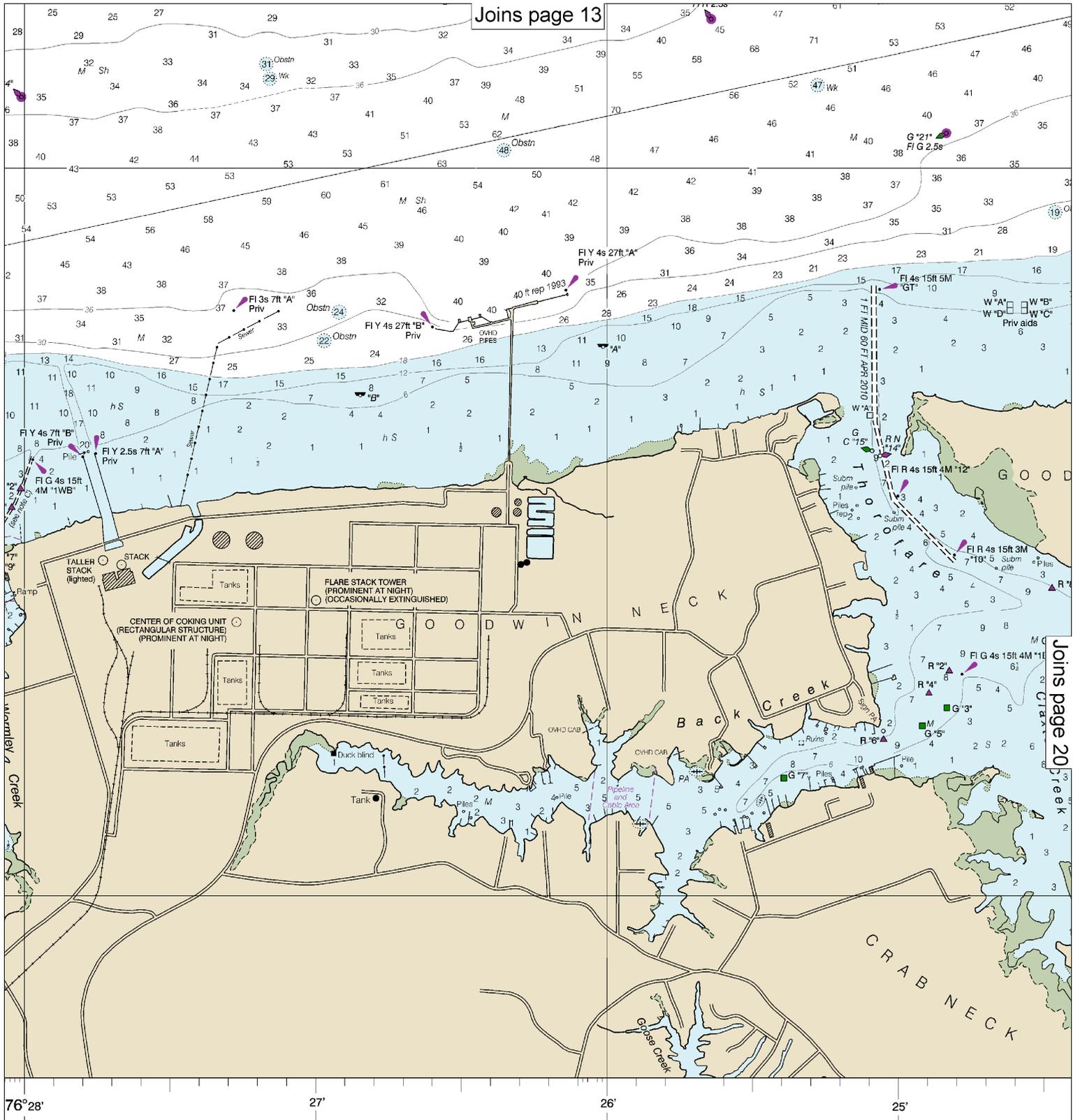
**POLLUTION REPORTS**  
Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-9802 (toll free), or the nearest U.S. Coast Guard facility if telephone communication is not possible (33 CFR 153).

**NOTE E**  
**EMERGENCY RESTRICTED AREA**  
For information regarding the regulations of any emergency restricted area, contact the Army Corps of Engineers, Regulatory Branch at (757) 201-7653/7652.

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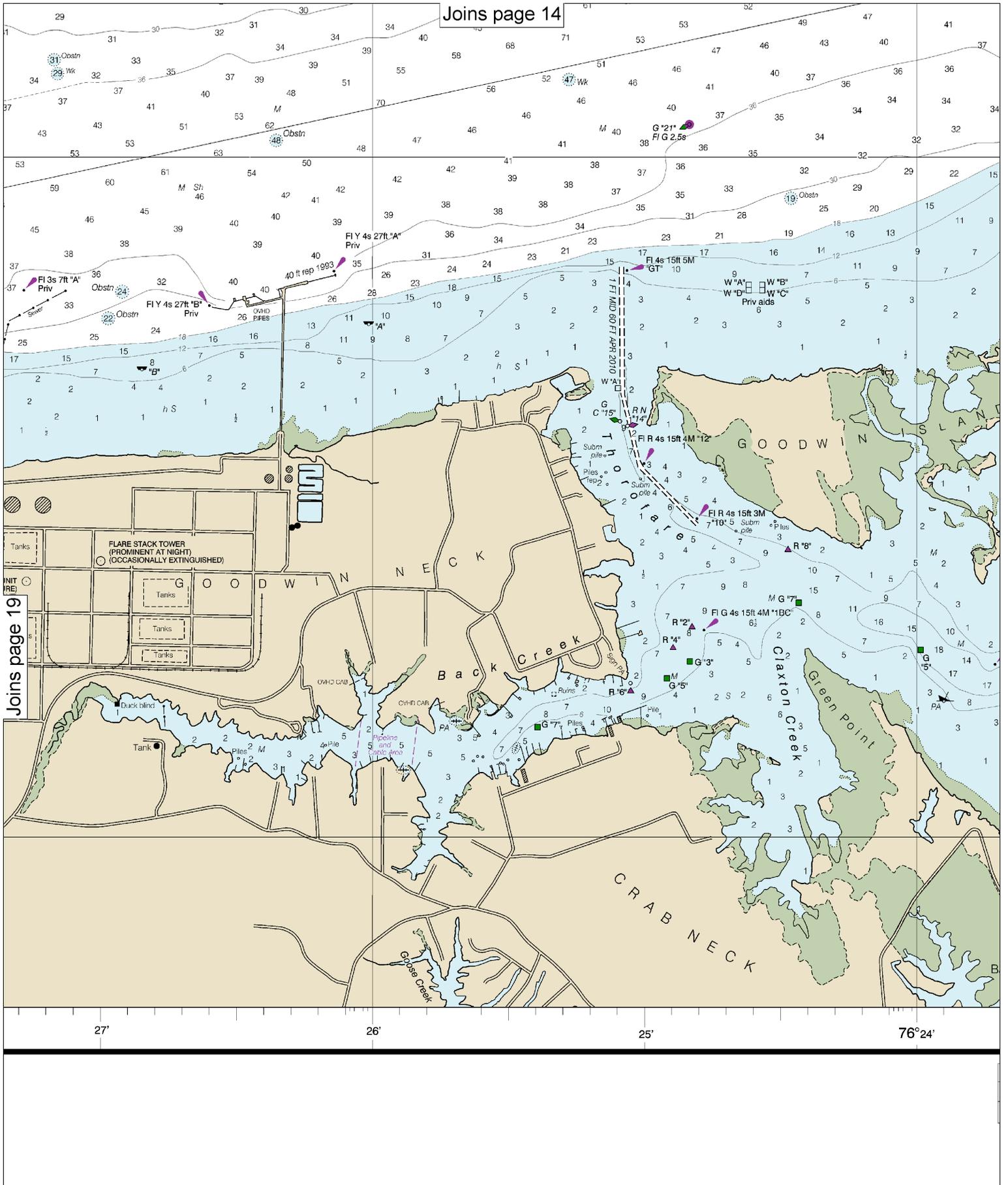
Note: Chart grid lines are aligned with true north.





76°28' 27' 26' 25'

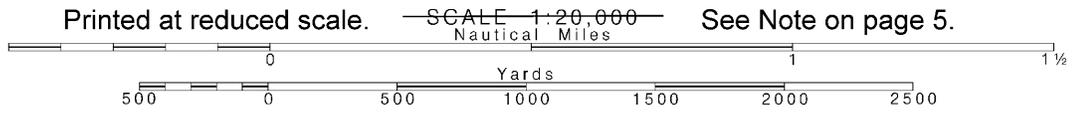
d at Washington, D.C.  
TMENT OF COMMERCE  
ND ATMOSPHERIC ADMINISTRATION  
AL OCEAN SERVICE  
OAST SURVEY



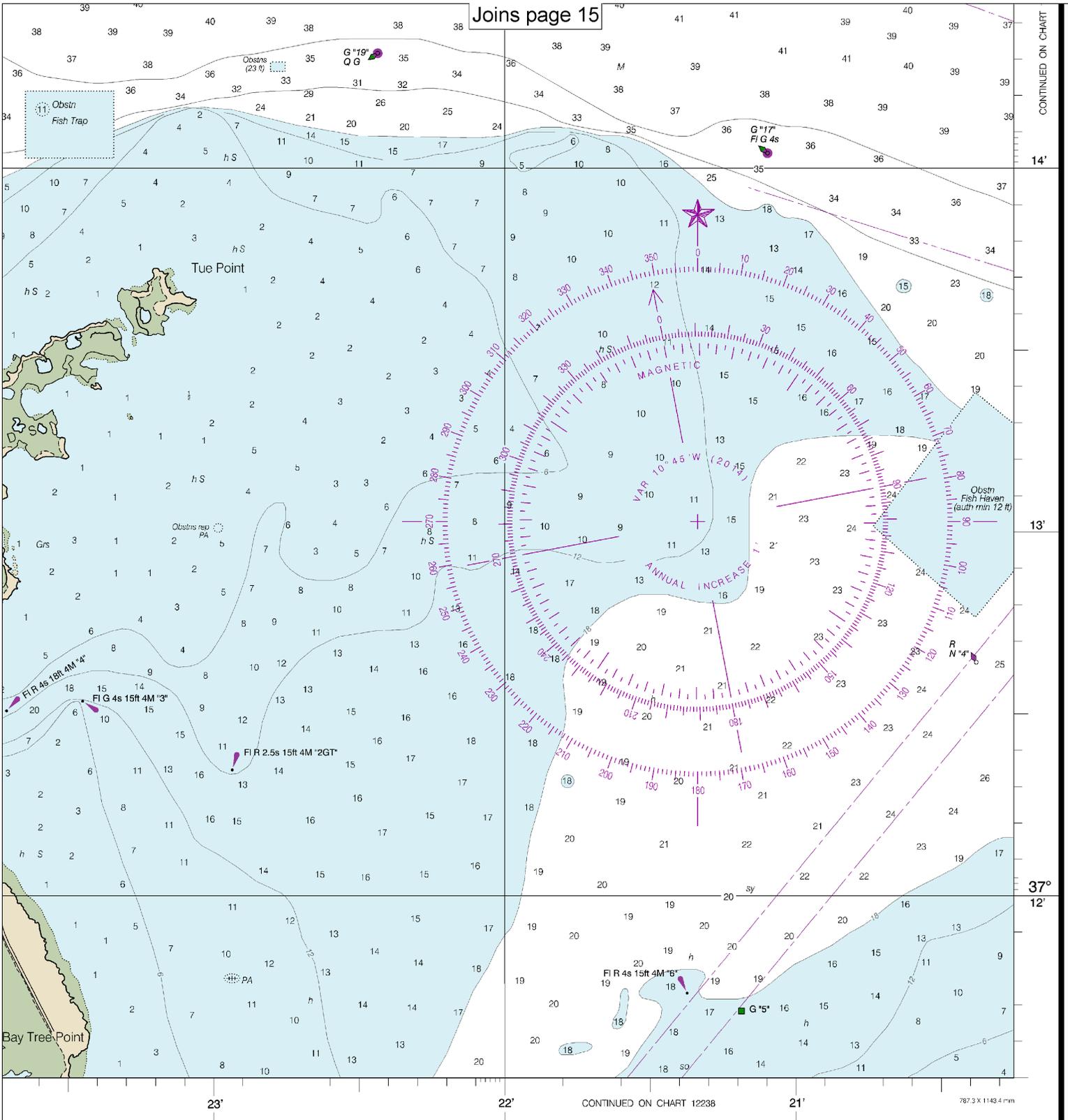
Joins page 19



Note: Chart grid lines are aligned with true north.



See Note on page 5.

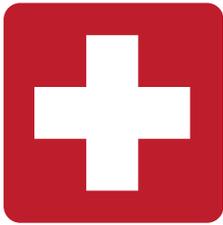


FATHOMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
FEET	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102
METERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

York River, Yorktown and Vicinity  
 SOUNDINGS IN FEET - SCALE 1:20,000

12241





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.

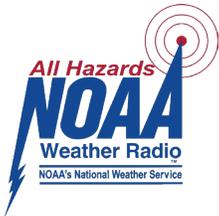
**Channels 68, 69, 71, 72 and 78A** – Recreational boat channels.

**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](https://twitter.com/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.