

# BookletChart™

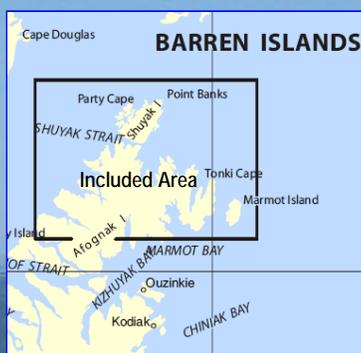


## Shuyak and Afognak Islands and Adjacent Waters

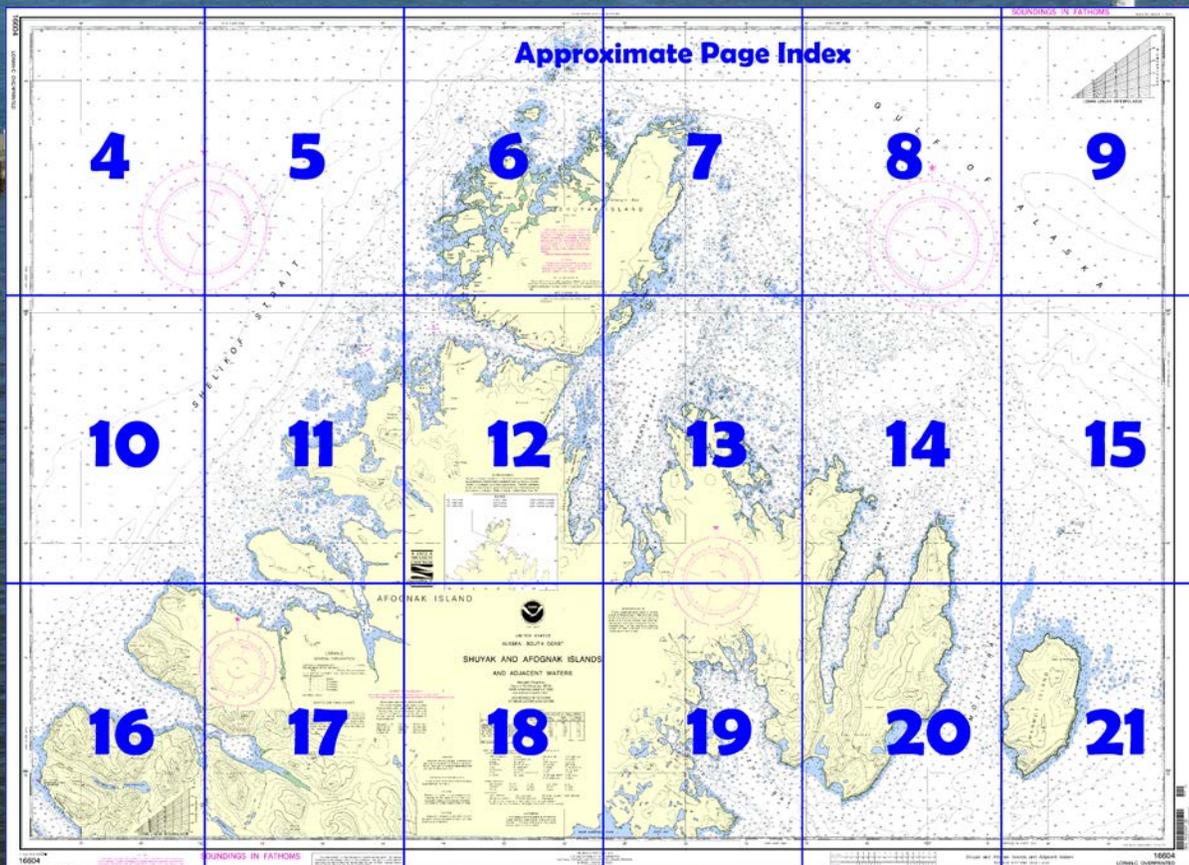
NOAA Chart 16604

*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=16604>.



**(Selected Excerpts from Coast Pilot)**

**Pilotage, Kodiak Island.**—Pilotage, except for certain exempted vessels, is compulsory for all vessels navigating the waters of the State of Alaska.

The Kodiak Island area is served by the Southwest Alaska Pilots Association. (See **Pilotage, General** (indexed), chapter 3, for the pilot pickup stations and other details.) Vessels en route to Discoverer Bay can contact the pilot boat by calling "DISCOVERER BAY PILOT BOAT" on VHF-FM

channel 16 or on a prearranged frequency between pilot and agent/vessel.

**Tonki Bay**, on the W side of Tonki Cape, has two arms separated by a

headland. A 106-foot rocky islet is 0.5 mile N of the headland. Three rocks awash are about 0.3 mile from the E shore and 2 miles S of Tonki Cape. Anchorage is about 0.3 mile from the head of the E arm in 10 fathoms, soft bottom, but it is not secure with N winds. Small boats may anchor in the small cove on the E side of the head of the E arm in 8 fathoms, muddy bottom, in any weather.

The W arm of Tonki Bay extends 6.5 miles S of the headland separating the two arms. Anchorage may be had in 18 fathoms, muddy bottom, about 0.3 mile from head of the arm.

On the E part of Afognak Island is a series of mountain ridges with low depressions between them running through the island from N to S. From a distance Marmot Island appears as the easternmost of these ridges. The lower parts of Afognak Island are wooded, except its E coast, and its SW end S of Paramanof Bay.

**Caution.**—In making Tonki Cape or Marmot Strait from the N, a very irregular set to the W has been experienced. In foggy weather a vessel is liable to be too close to the breakers off Sea Otter Island unless precautions are taken. Likewise in running to this locality from Seward, abnormal set has been experienced. From the experience of a survey vessel making these runs and in lying-to offshore, there seems to be two factors for which allowance should be made. First, if the run is made during the time of a flood spring tide, extra allowance should be made for set to the W. Second, if the course of the vessel passes over a bank or even a locality where the water is shoaled, extra allowance for a stronger current should be made.

**Tonki Cape**, the NE end of Afognak Island, is a narrow grass-covered point 87 feet high near its N extremity. A low-lying gap connects it with the ridge separating Tonki Bay and Marmot Strait. A short reef extends N from the cape 0.3 mile, terminating in a rock awash at high water. It is recommended that vessels clear the N end of the cape by at least 1.5 miles. **Tonki Cape Light** (58°21'09"N., 151°59'12"W.), 75 feet (22.9 m) above the water, is shown from a skeleton tower with a red and white diamond-shaped daymark.

**Marmot Island**, about 6.5 miles long, parallels the E side of Afognak Island. Marmot Island is wooded to a height of about 500 feet. The N end is low and rises gradually to the highland. The E side and S end of the island are bluffs over 1,000 feet high in places. The W shore is also steep but lower. Three high rocks are close to **Marmot Cape**, the S end of the island, and two more are close to its SE side.

The SE shore of Marmot Island is a Steller sea lion rookery site. There is a 3-mile vessel exclusionary buffer zone around all but the NW shore of the island. (See **50 CFR 223.202**, chapter 2, for limits and regulations.) Shoal areas adjacent to the NW shore of Marmot Island extend N toward Sealion Rocks and border the N approach to Marmot Strait. A 4-fathom spot in this area is 2 miles off the N end of Marmot Island.

**Marmot Strait**, between Afognak and Marmot Islands, is 2.5 miles wide at its narrowest part. The strait is apparently free from dangers except along the shores. A shoal of 1¼ fathoms is 650 yards off the W shore of Marmot Strait, 6 miles from Tonki Cape. A midchannel course through the strait is recommended. Tidal currents have an estimated velocity of 1 to 3 knots, the flood setting N through the strait.

The W coast of Marmot Strait for about 5 miles S from Tonki Cape is broken and rocky, with reefs extending offshore. Along this stretch is a low bluff with a grass- and muskeg-covered plain, extending 0.3 mile inland to the main ridge which rises abruptly. S to King Cove the bluffs increase in height with the shores steep-to.

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

RCC Juneau      Commander  
17th CG District      (907) 463-2000  
Juneau, Alaska

# 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



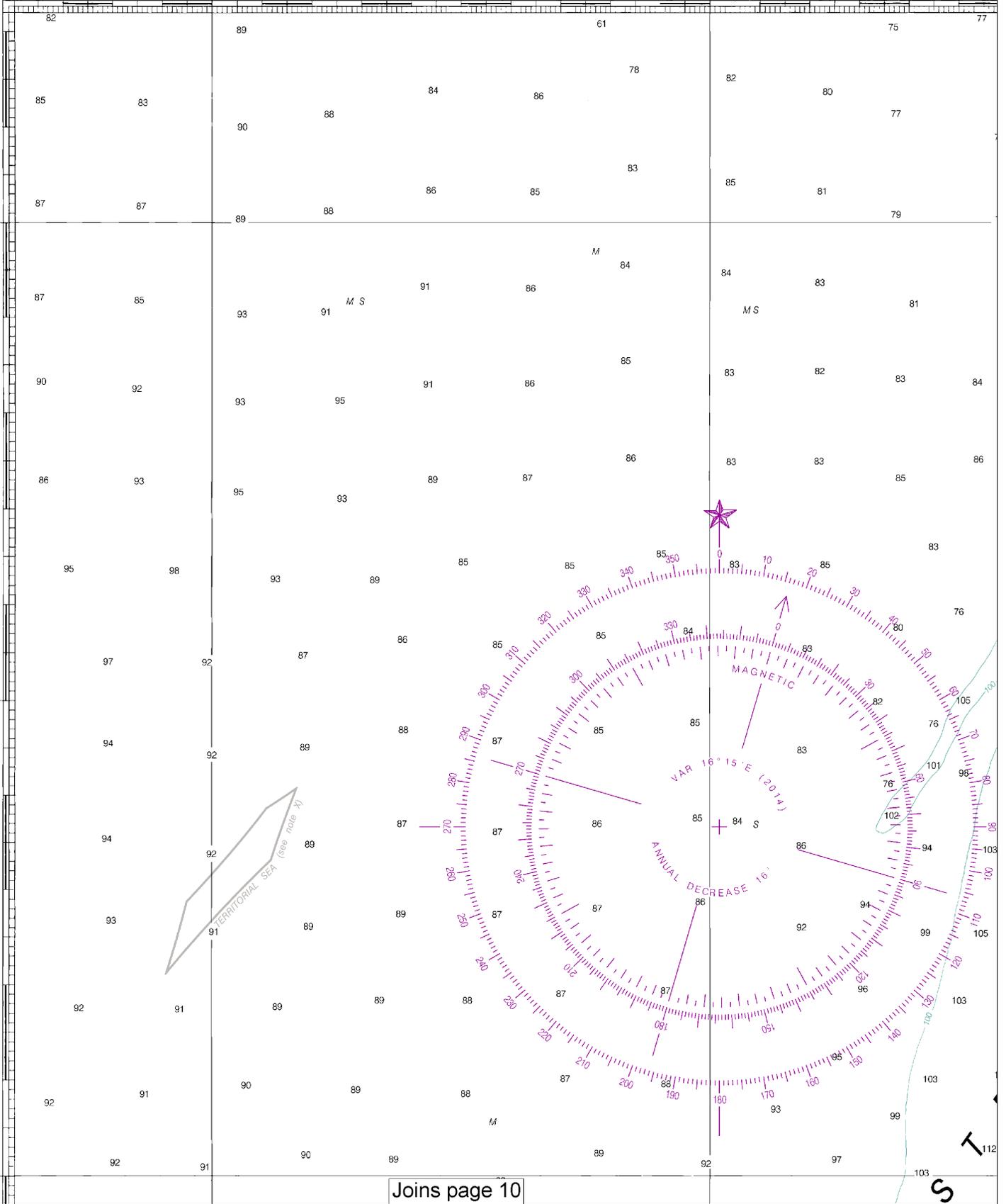
For more information on aids to navigation, including those on Western Rivers, please consult the latest USCG Light List for your area. These volumes are available online at <http://www.navcen.uscg.gov>

40'

35'

JOINS CHART 16608

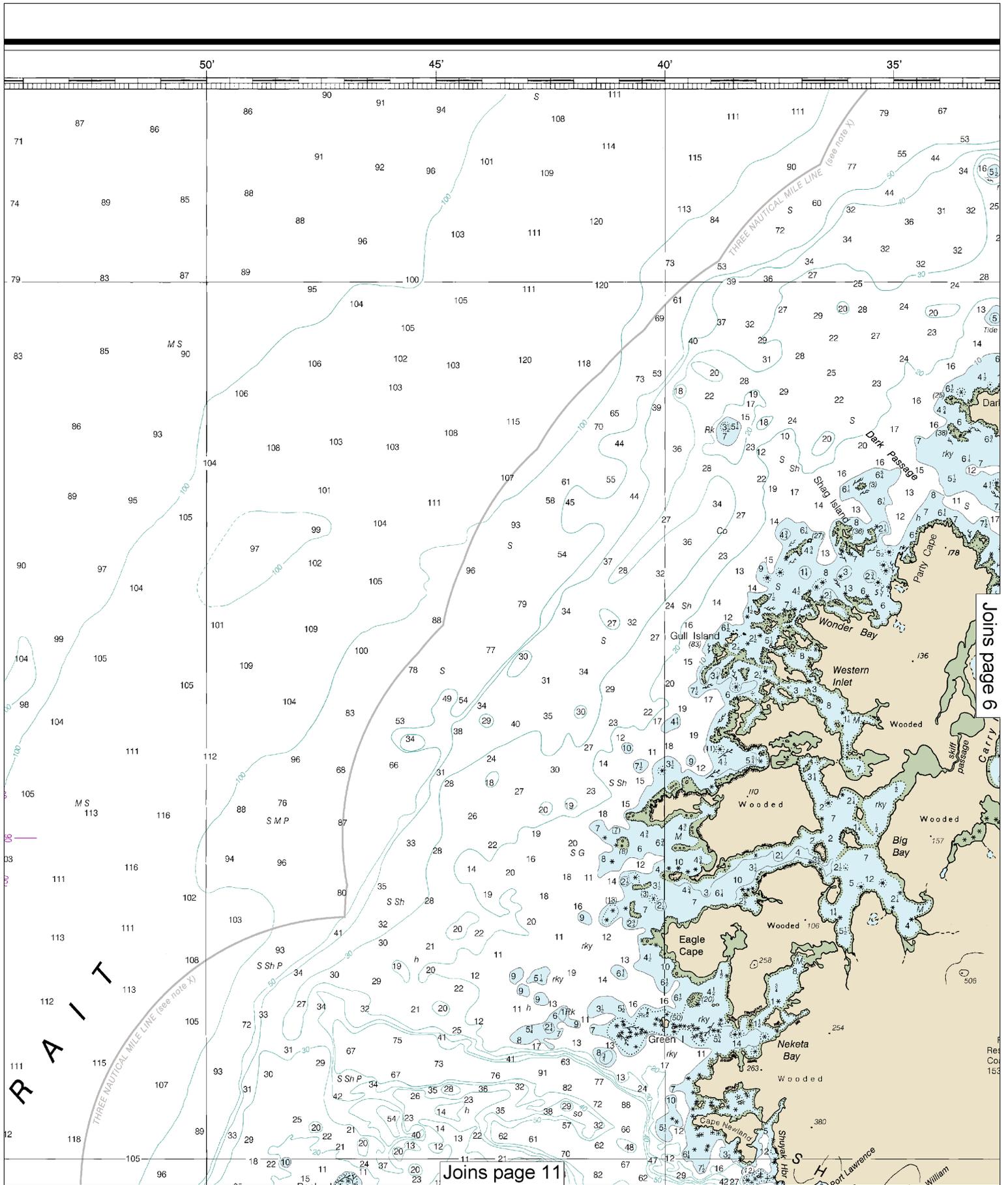
58° 30'



Joins page 10

4

Note: Chart grid lines are aligned with true north.

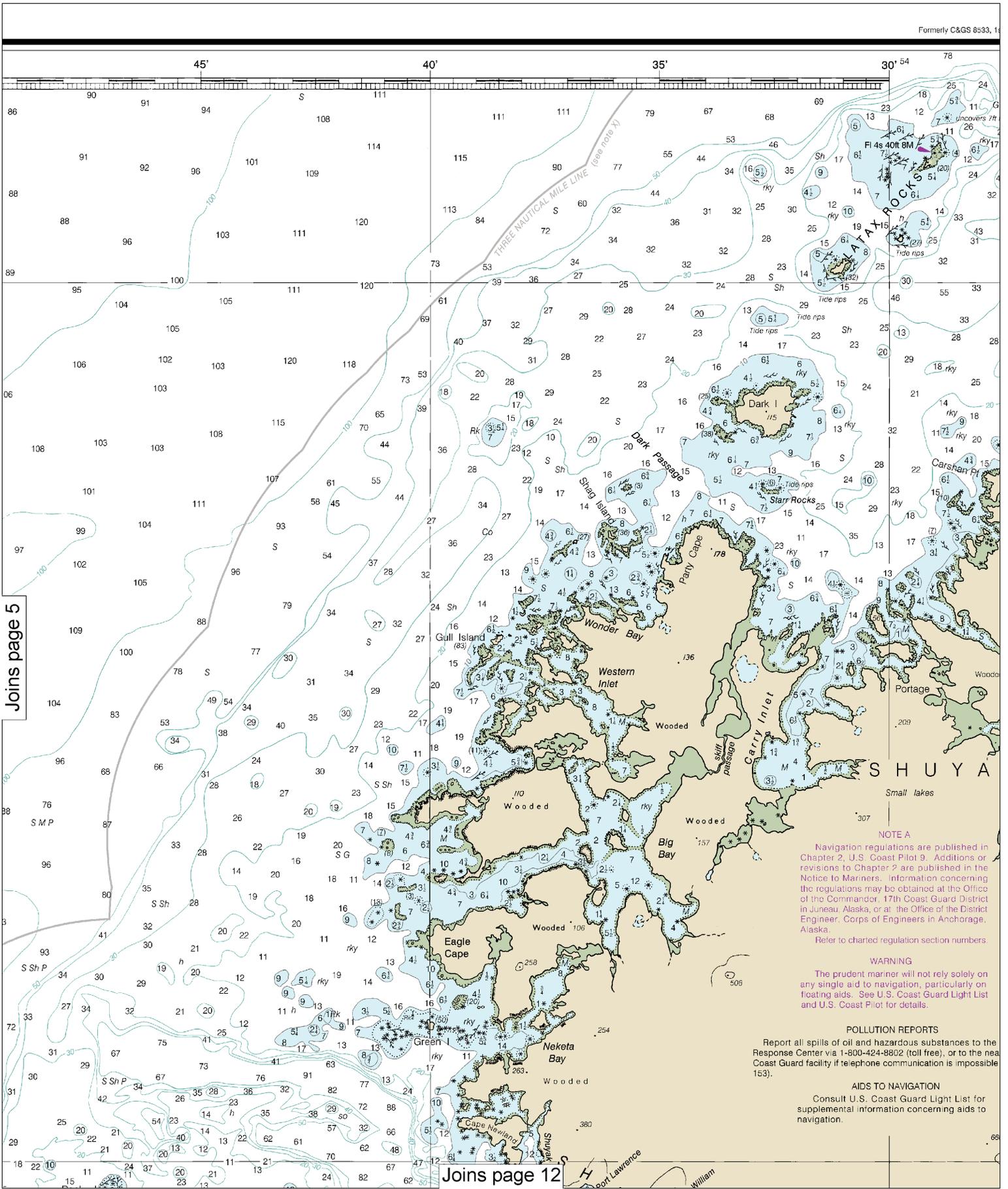


Joins page 6

Joins page 11

This BookletChart was reduced to 75% of the original chart scale.  
 The new scale is 1:104000. Barscales have also been reduced and  
 are accurate when used to measure distances in this BookletChart.





Joins page 5

Joins page 12

**NOTE A**  
 Navigation regulations are published in Chapter 2, U.S. Coast Pilot 9. 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, 17th Coast Guard District in Juneau, Alaska, or at the Office of the District Engineer, Corps of Engineers in Anchorage, Alaska.  
 Refer to charted regulation section numbers.

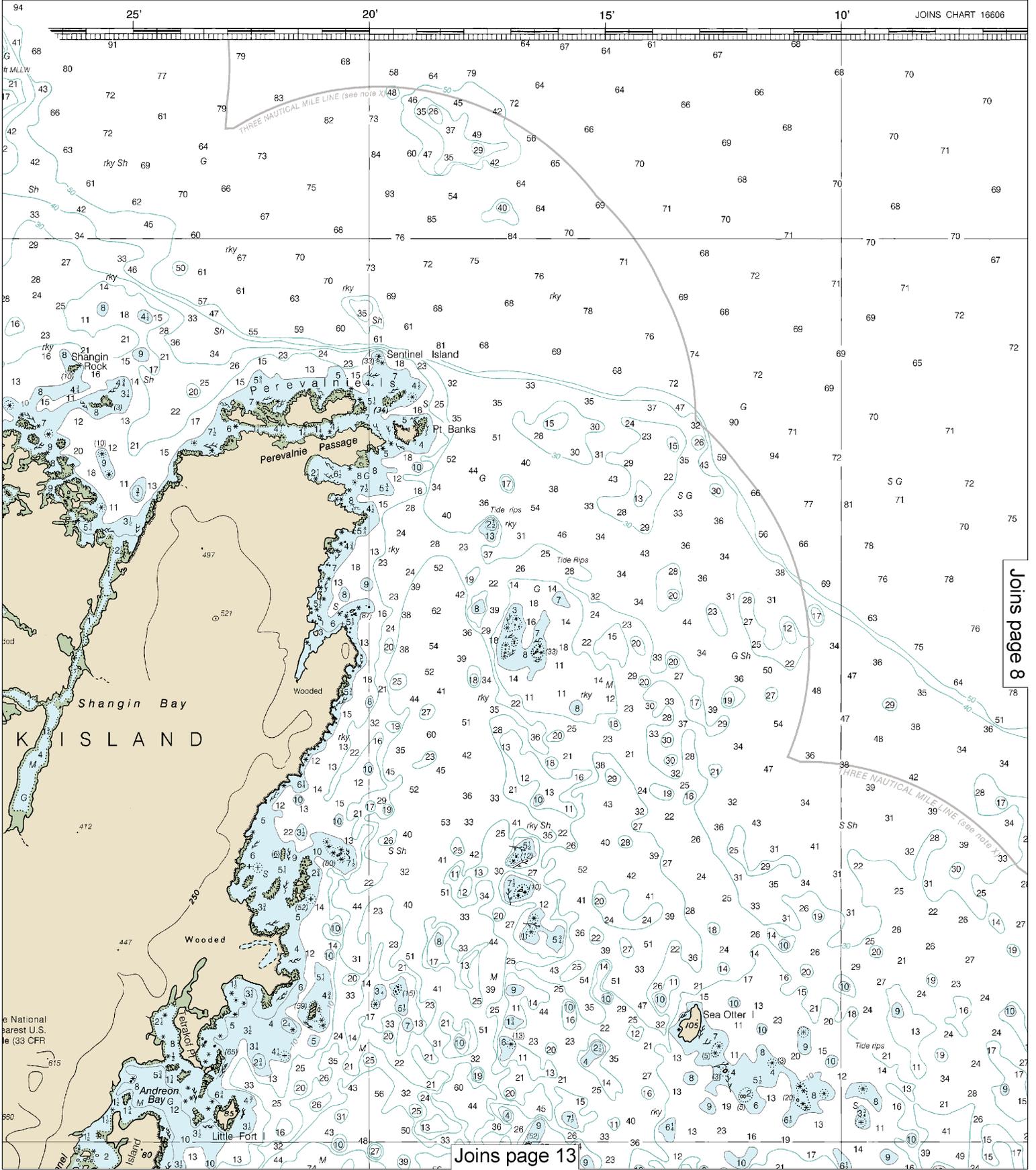
**WARNING**  
 The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

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

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



Note: Chart grid lines are aligned with true north.



Joins page 8

Joins page 13

Last Correction: 10/28/2014. Cleared through:  
 LNM: 4616 (11/15/2016), NM: 4616 (11/12/2016), CHS: 1016 (10/28/2016)



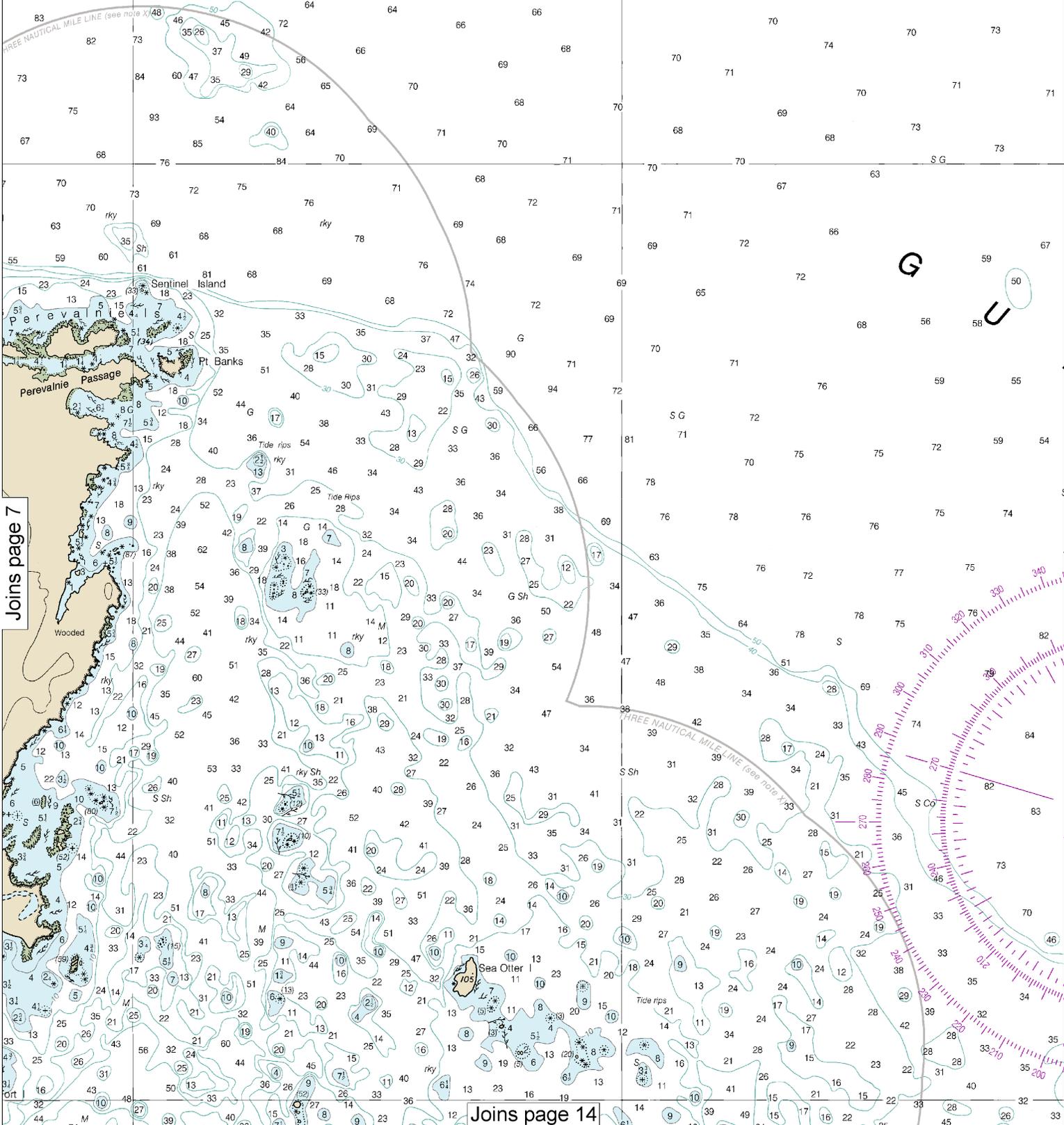
20'

15'

10'

JOINS CHART 16606

05'



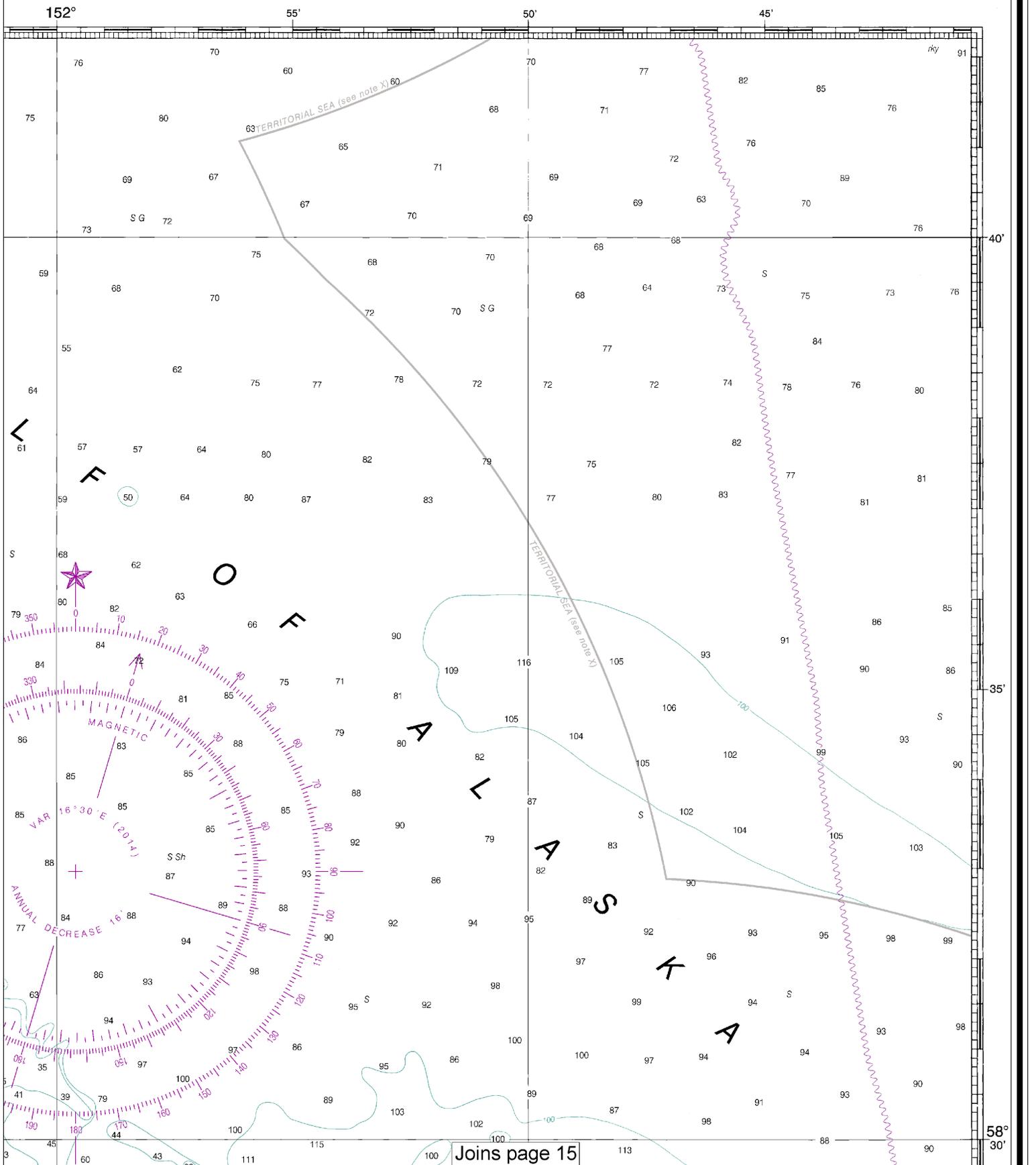
Joins page 7

Joins page 14

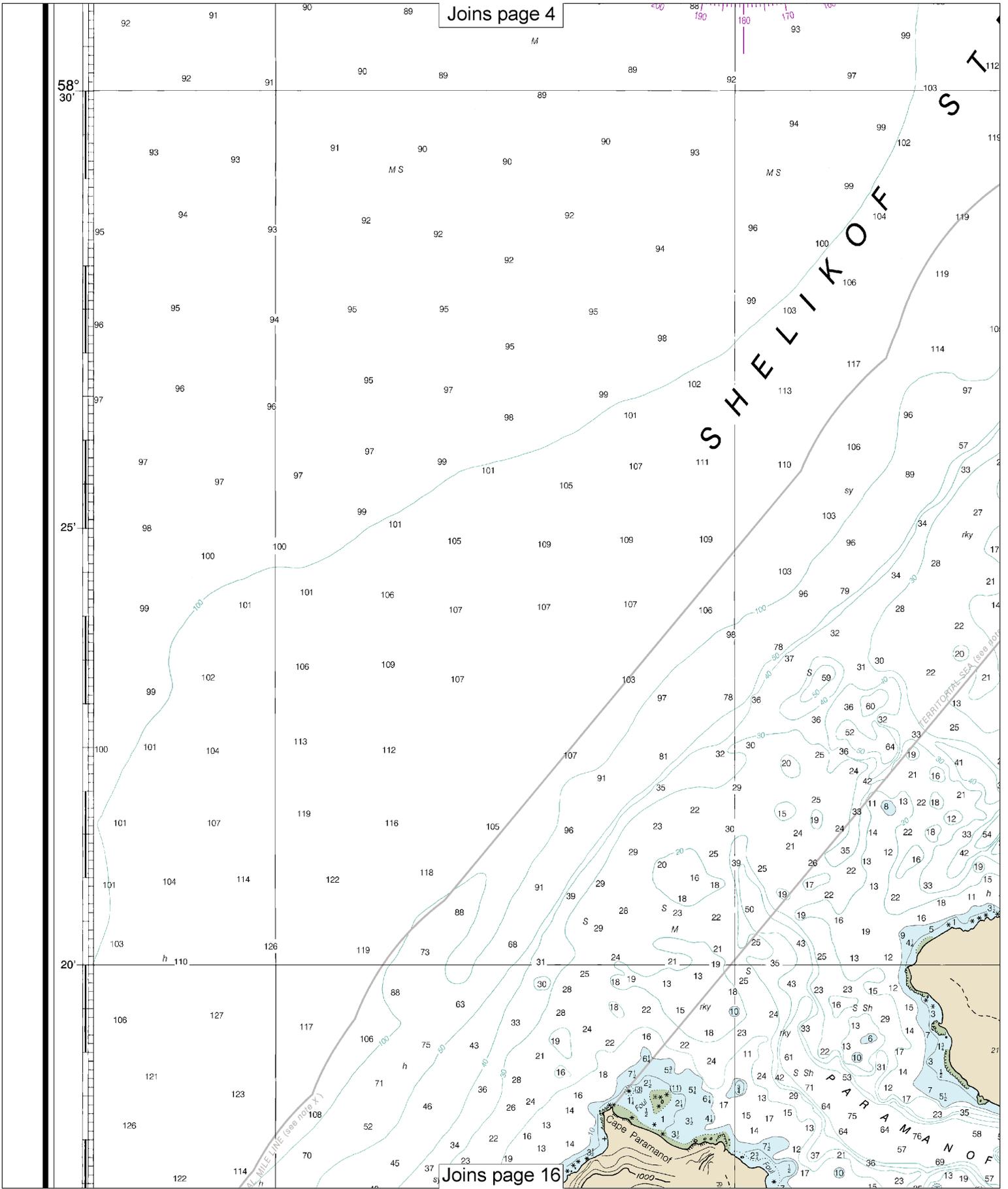


Note: Chart grid lines are aligned with true north.

# SOUNDINGS IN FATHOMS

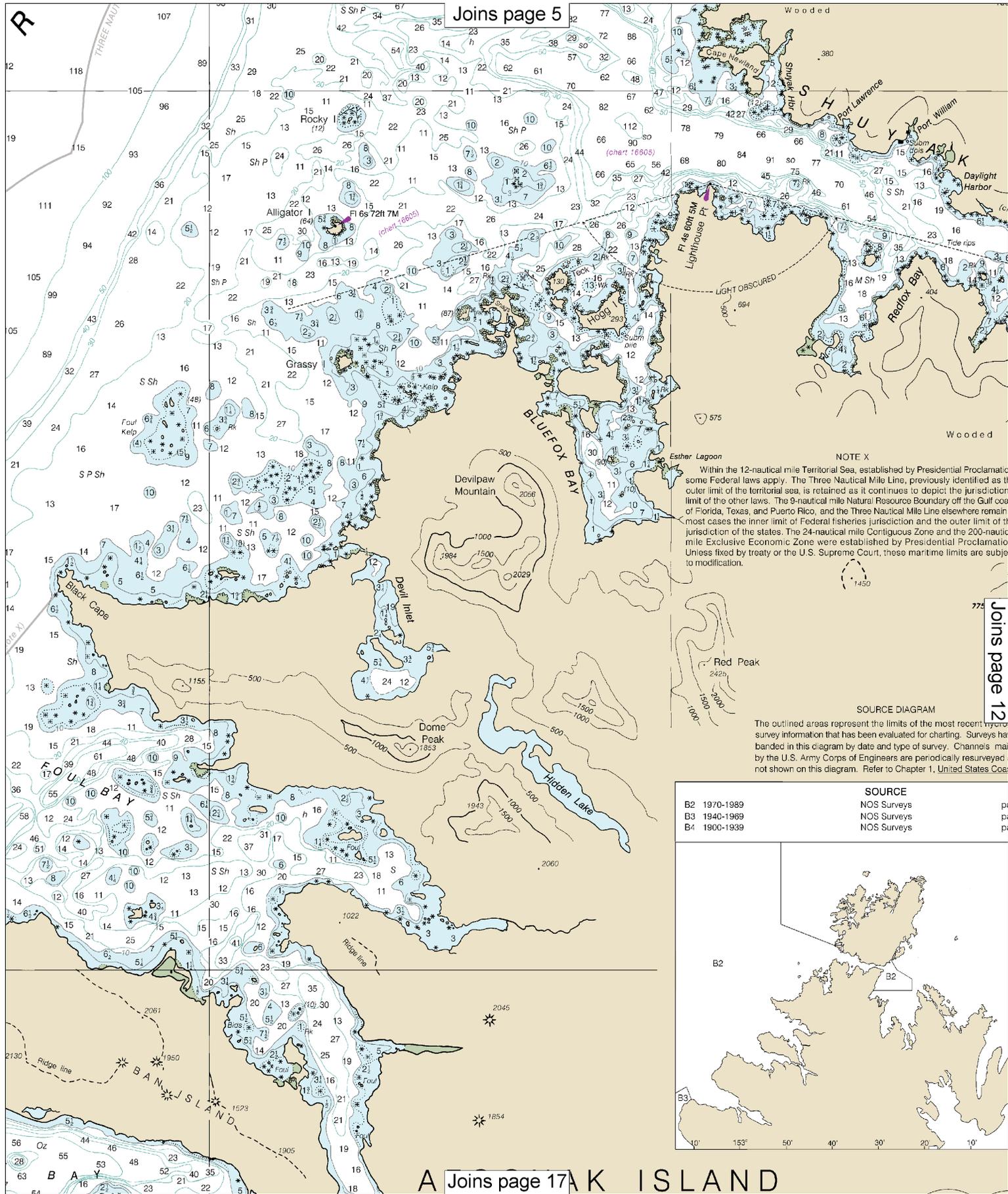


Joins page 15



10

Note: Chart grid lines are aligned with true north.

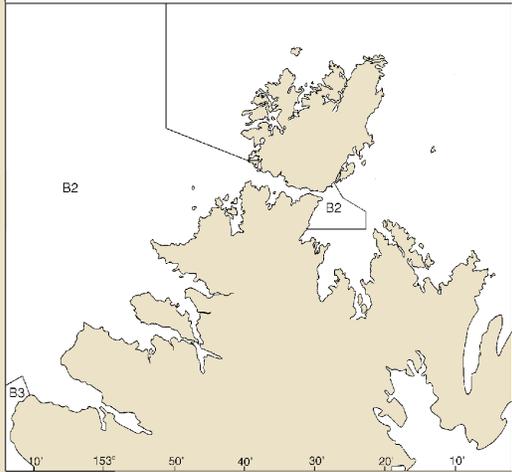


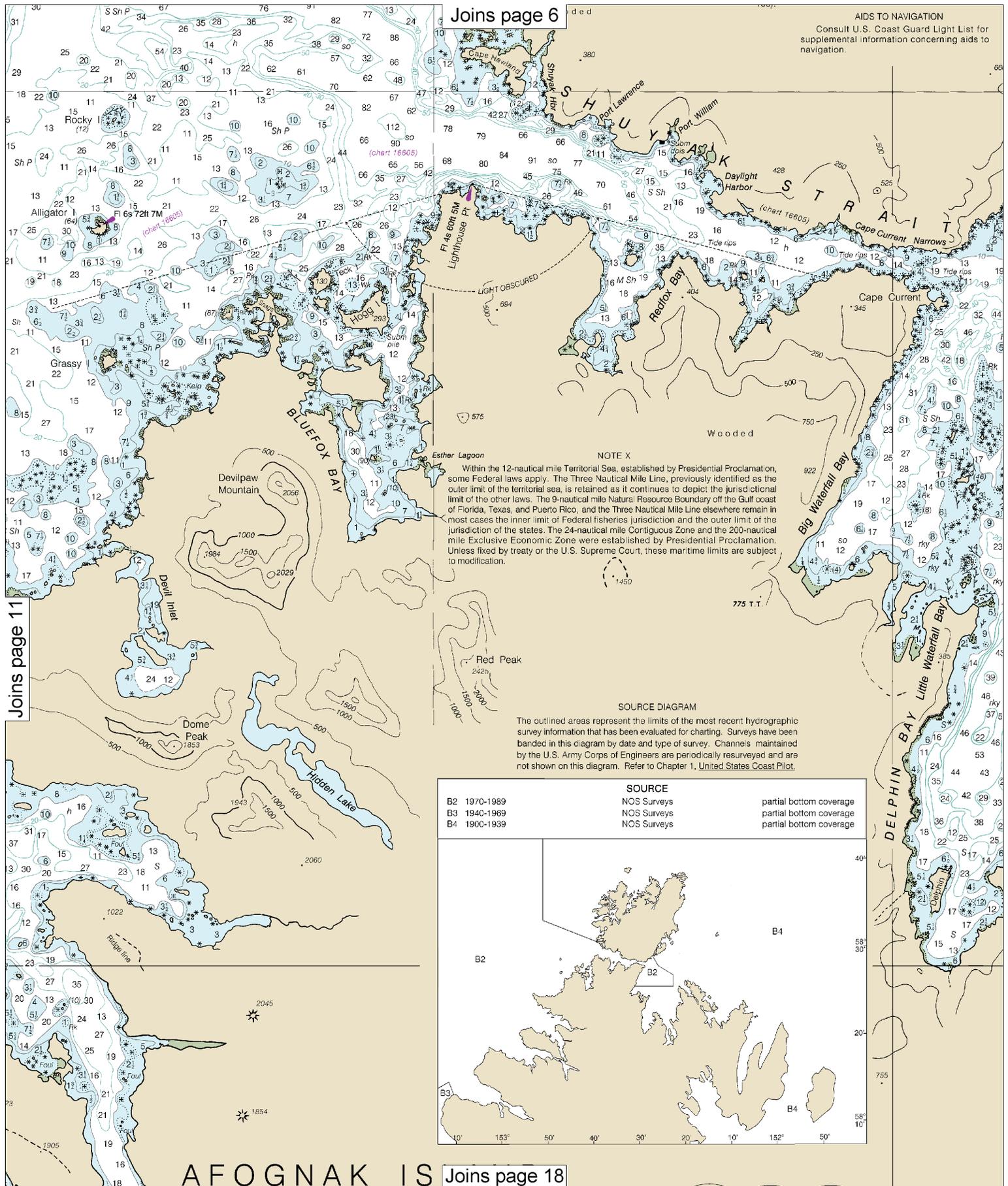
**NOTE X**  
 Within the 12-nautical mile Territorial Sea, established by Presidential Proclamation, some Federal laws apply. The Three Nautical Mile Line, previously identified as the outer limit of the territorial sea, is retained as it continues to depict the jurisdictional limit of the other laws. The 9-nautical mile Natural Resource Boundary off the Gulf coast of Florida, Texas, and Puerto Rico, and the Three Nautical Mile Line elsewhere remain in most cases the inner limit of Federal fisheries jurisdiction and the outer limit of the jurisdiction of the states. The 24-nautical mile Contiguous Zone and the 200-nautical mile Exclusive Economic Zone were established by Presidential Proclamation. Unless fixed by treaty or the U.S. Supreme Court, these maritime limits are subject to modification.

**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 marked by the U.S. Army Corps of Engineers are periodically resurveyed, but not shown on this diagram. Refer to Chapter 1, United States Coast and Geodetic Survey, for more information.

SOURCE	
B2 1970-1989	NOS Surveys
B3 1940-1969	NOS Surveys
B4 1900-1939	NOS Surveys





Joins page 6

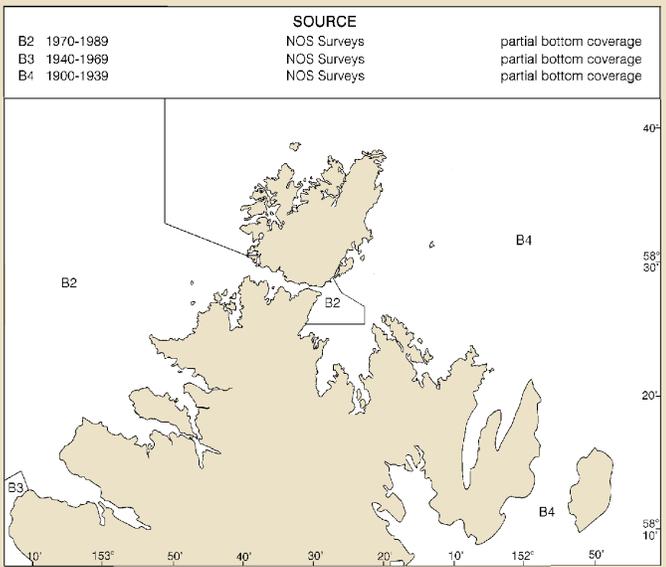
AIDS TO NAVIGATION  
Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

Joins page 11

Joins page 18

**NOTE X**  
Within the 12-nautical mile Territorial Sea, established by Presidential Proclamation, some Federal laws apply. The Three Nautical Mile Line, previously identified as the outer limit of the territorial sea, is retained as it continues to depict the jurisdictional limit of the other laws. The 9-nautical mile Natural Resource Boundary off the Gulf coast of Florida, Texas, and Puerto Rico, and the Three Nautical Mile Line elsewhere remain in most cases the inner limit of Federal fisheries jurisdiction and the outer limit of the jurisdiction of the states. The 24-nautical mile Contiguous Zone and the 200-nautical mile Exclusive Economic Zone were established by Presidential Proclamation. Unless fixed by treaty or the U.S. Supreme Court, these maritime limits are subject to modification.

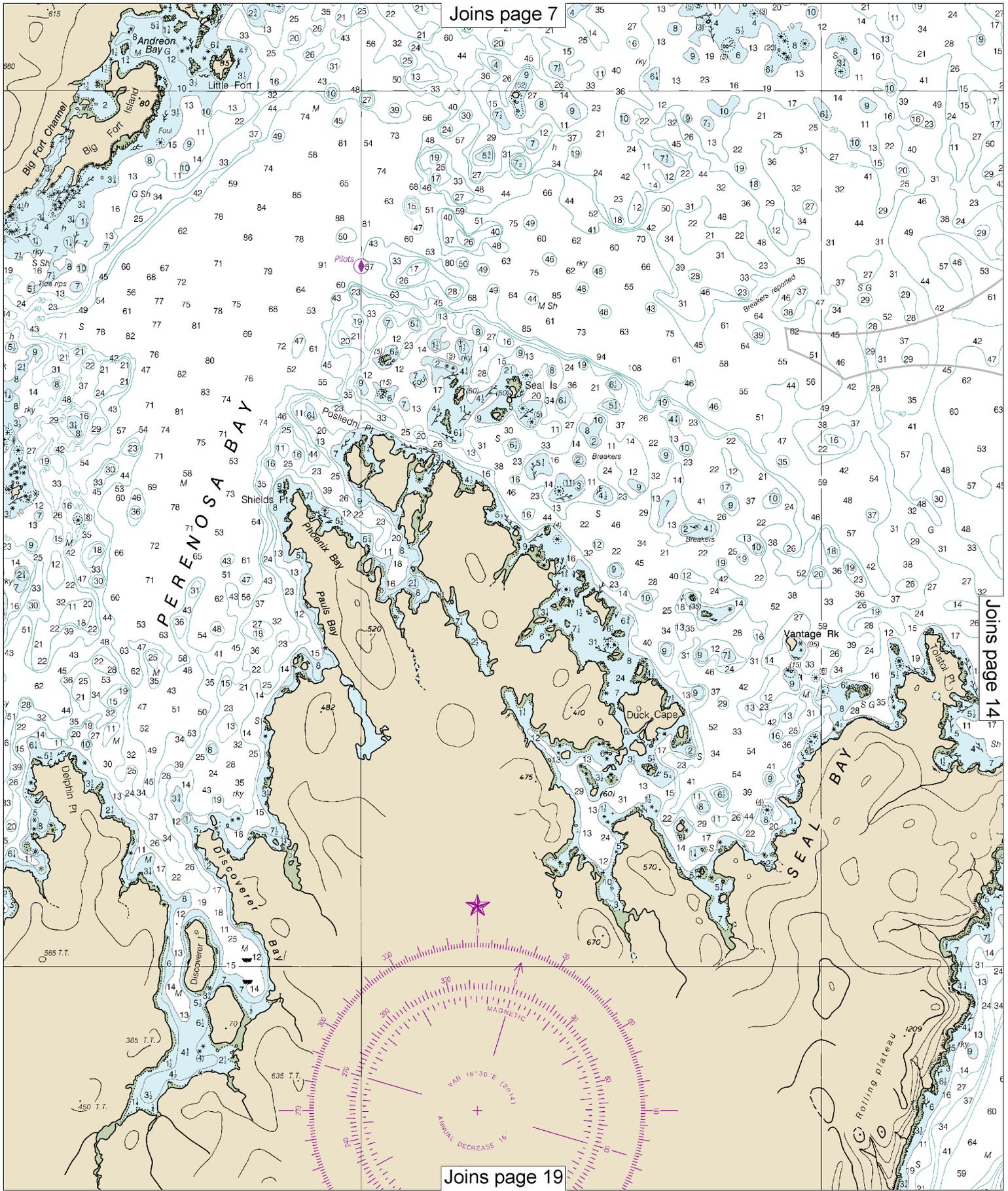
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The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers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

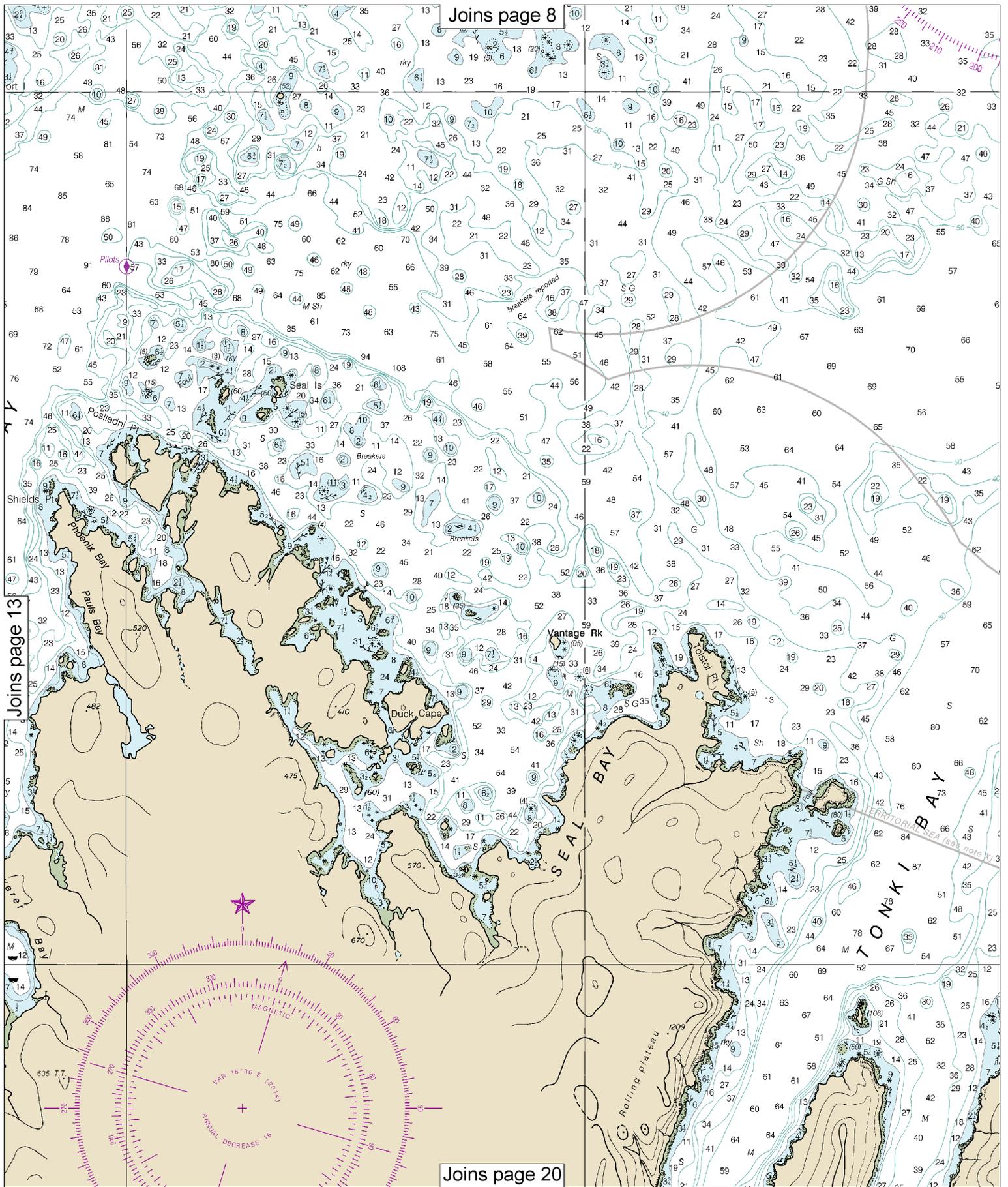


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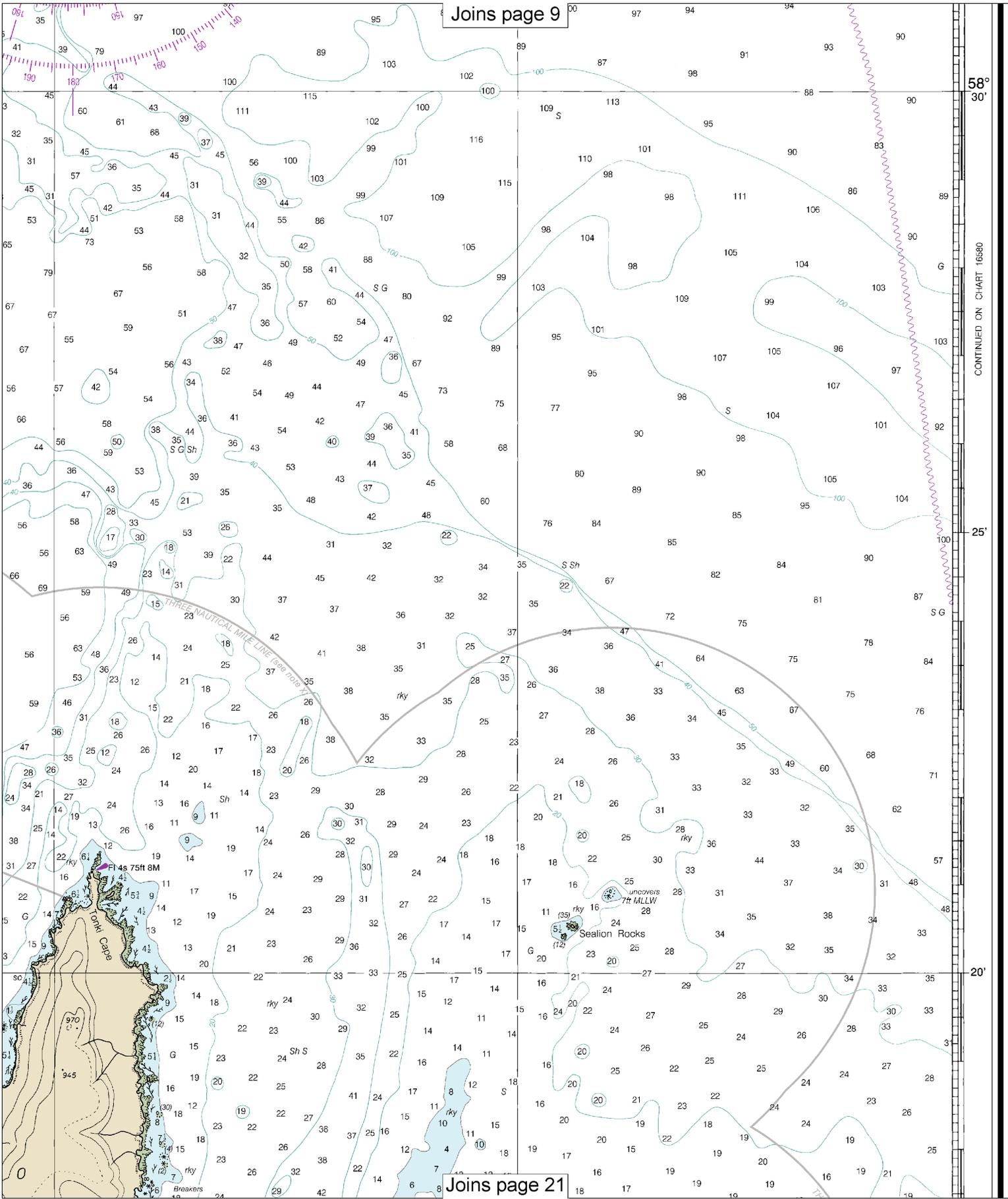
Joins page 14

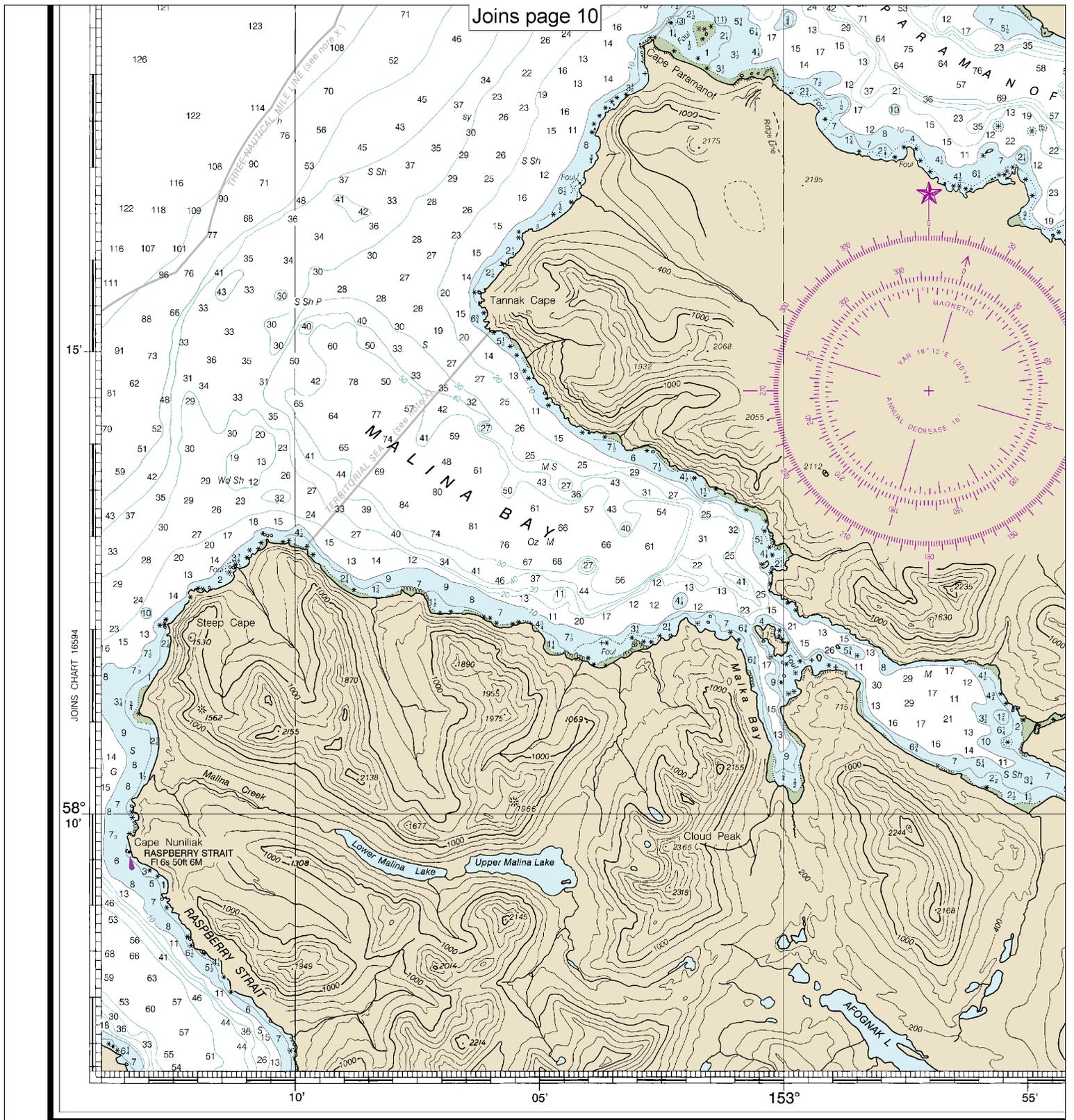
Joins page 19





Note: Chart grid lines are aligned with true north.





12th Ed., Jul. 2014

**16604**

**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).

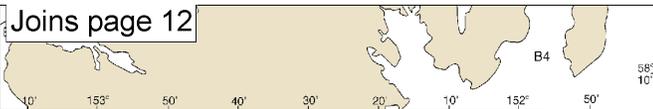
**SOUNDINGS IN FA**

Last Correction: 10/28/2014. Cleared through:  
LNM: 4616 (11/15/2016), NM: 4616 (11/12/2016), CHS: 1016 (10/28/2016)

**16**

Note: Chart grid lines are aligned with true north.





# AFOGNAK ISLAND



THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES  
ALASKA - SOUTH COAST

## SHUYAK AND AFOGNAK ISLAND AND ADJACENT WATERS

Mercator Projection  
Scale 1:78,000 at Lat. 58°30'

North American Datum of 1983  
(World Geodetic System 1984)

SOUNDINGS IN FATHOMS  
AT MEAN LOWER LOW WATER

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

COLREGS 80.1705 (see note A)  
International Regulations for Preventing Collisions at Sea, 1972.  
The entire area of this chart falls seaward of the COLREGS Demarcation Line.

**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.

Raspberry I, AK	KZZ-90	162.425 MHz
Bede Mt, AK	WNG-528	162.450 MHz
Pillar Mt, AK	WNG-531	162.525 MHz
Kodiak, AK	WXJ-78	162.550 MHz
Marmot Island, AK	WNG-716	162.500 MHz
Cape Gull, AK	WNG-529	162.500 MHz

**TIDAL INFORMATION**

NAME	PI ACEF (LAT/LONG)	Height referred to datum of soundings (MLLW)		
		Mean Higher High Water	Mean High Water	Mean Low Water
Malina Bay, Shelikof Str., Atognak I.	(58°11'N/152°57'W)	feet 14.5	feet 13.7	feet 1.7
Big Bay, Shuyak I.	(58°33'N/152°37'W)	13.9	13.1	1.6
Carry Inlet, Shuyak Island	(58°35'N/152°31'W)	13.1	12.3	1.6
Tonki Bay, Afoognak Island	(58°19'N/152°04'W)	11.2	10.2	1.3

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> (May 2014)

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

AERC aeronautical	G green	Mo morse code	R TR radio tower
Al alternating	IQ interrupted quick	N nun	Rot rotating
B black	IsC isophase	OBSC obscured	s seconds
Bn beacon	LT LHO 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:**

Blds 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	Obstn 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.

**HEIGHTS**

Elevation of rocks, bridges, landmarks and lights are in feet and refer to Mean High Water. Contour and summit elevation values are in feet and refer to Mean Sea Level.

**SUPPLEMENTAL INFORMATION**

Consult U.S. Coast Pilot 9 for important supplemental information.

**CAUTION**

Mariners are urged to use caution when navigating in the area of this chart due to possible changes in depths and shoreline as a result of the earthquake of Mar 27, 1964.

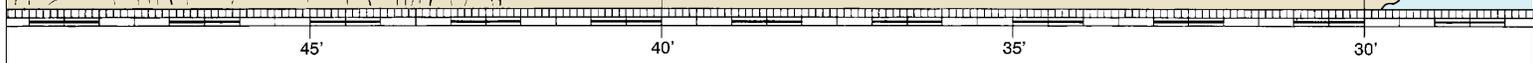
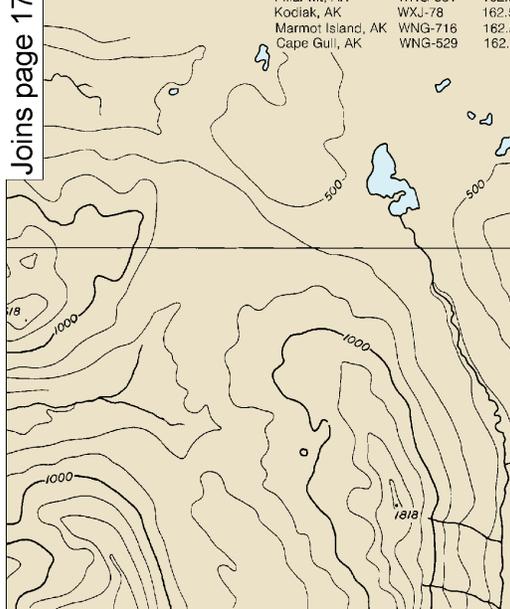
**CAUTION**

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

**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.

Joins page 17



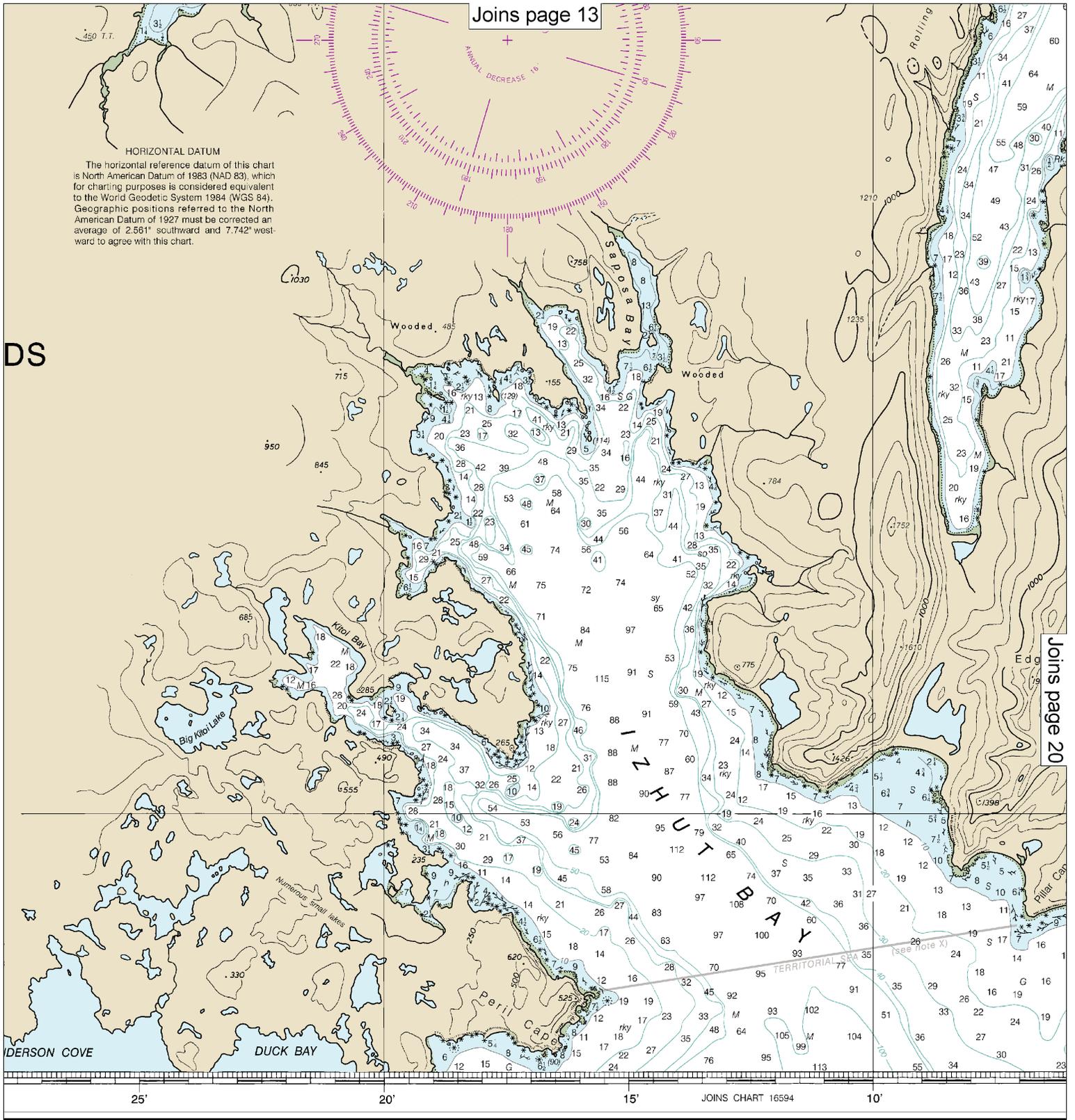
Encourages users to submit inquiries, discrepancies or comments at <http://www.nauticalcharts.noaa.gov/staff/contact.htm>

Published at V  
U.S. DEPARTMENT  
NATIONAL OCEANIC AND AT  
NATIONAL O  
COAST

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 2.561" southward and 7.742" westward to agree with this chart.

DS



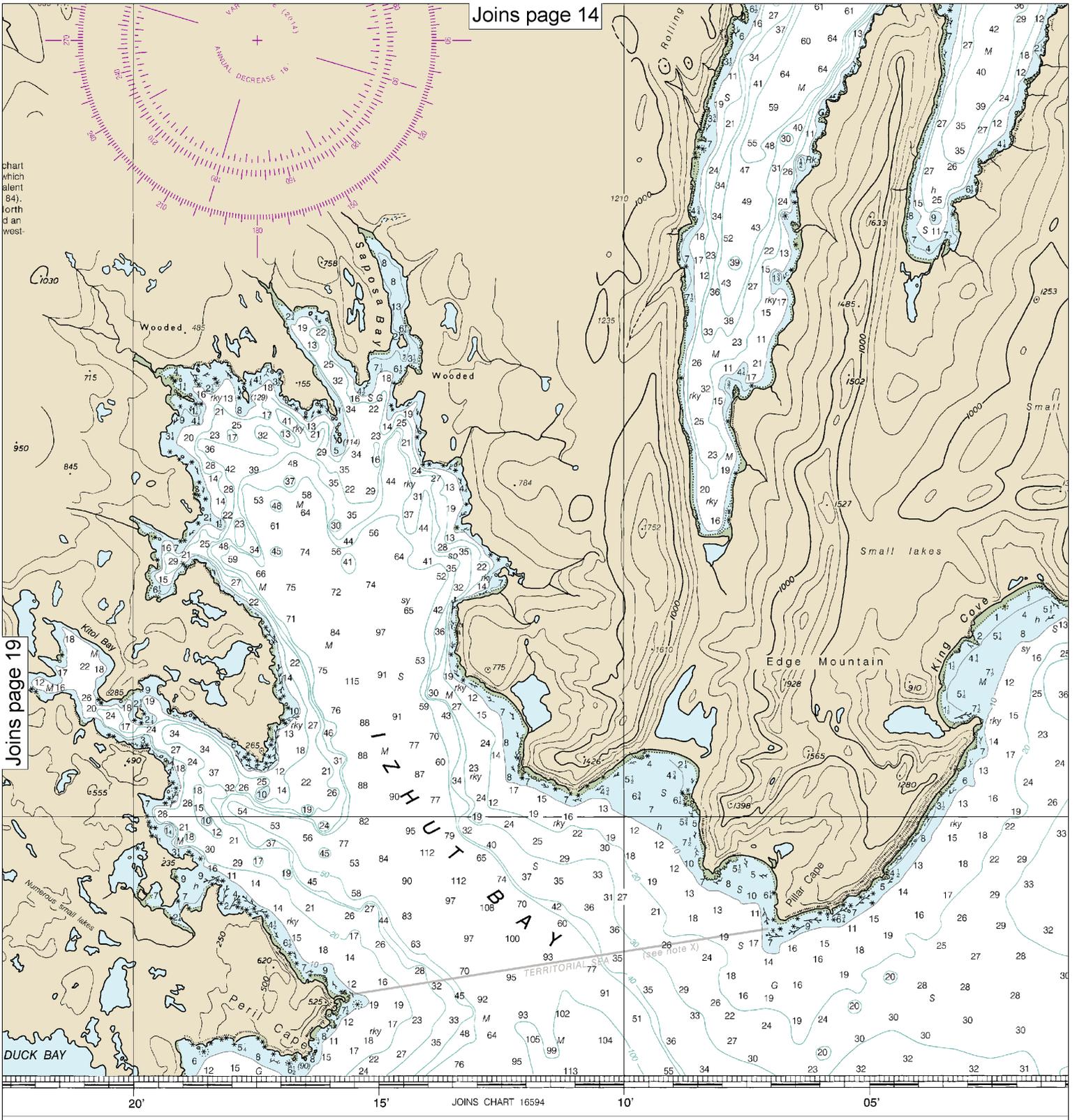
Joins page 20

Washington, D.C.  
DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
COAST AND GEODETIC SURVEY

FATHOMS	1	2
FEET	6	2
METERS	1	2

chart which  
alent  
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forth  
d an  
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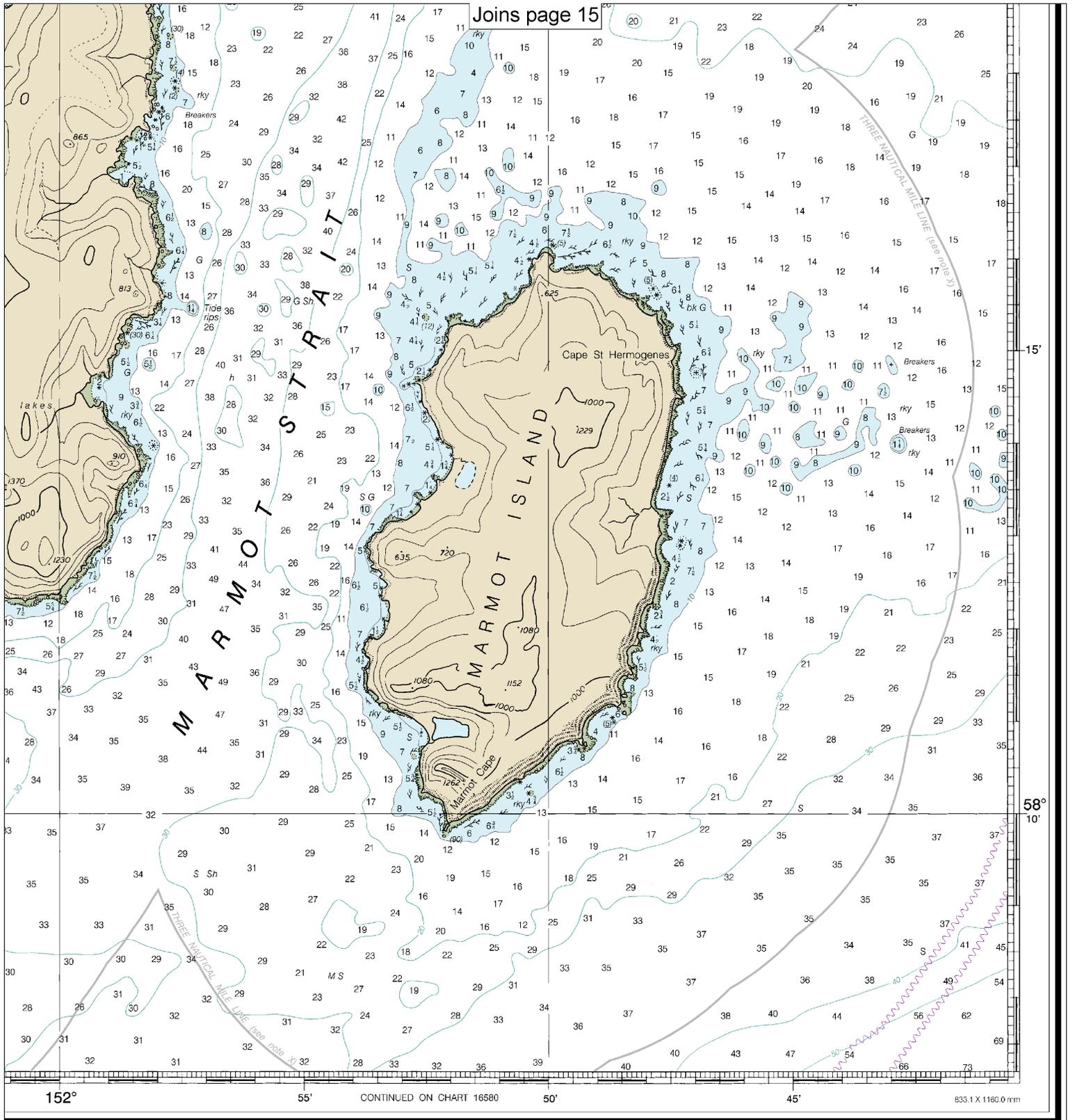
Joins page 19



FATHOMS	1	2	3	4	5	6	7	8	9	10	11	12	13
FEET	6	12	18	24	30	36	42	48	54	60	66	72	78
METERS	1	2	3	4	5	6	7	8	9	10	11	12	13

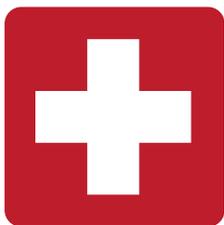
# 20

Note: Chart grid lines are aligned with true north.



Shuyak and Afognak Islands and Adjacent Waters  
 SOUNDINGS IN FATHOMS - SCALE 1:78,000

16604



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.