

# BookletChart™



## French Frigate Shoals

NOAA Chart 19401

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

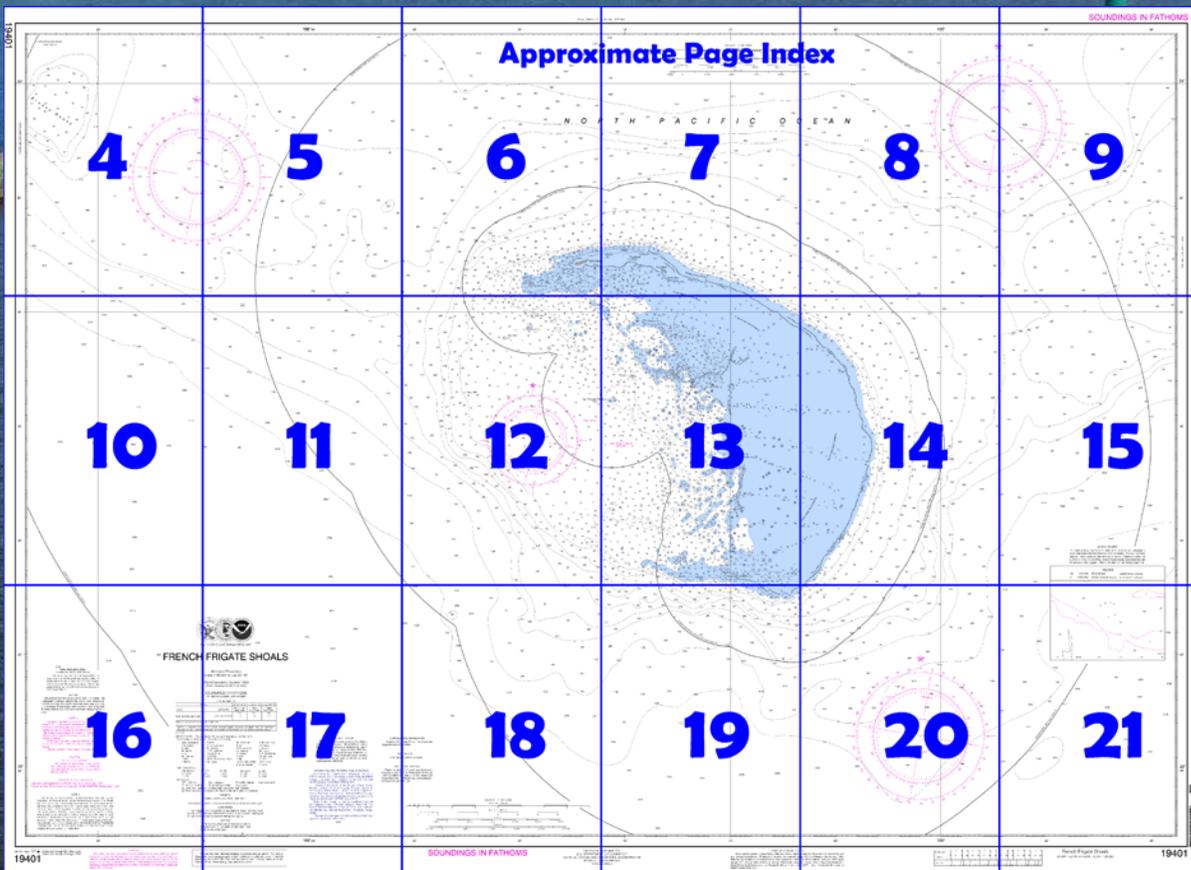
*When possible, use the full-size NOAA chart for navigation.*



French Frigate Shoals  
● Necker Island

Included Area

- 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.

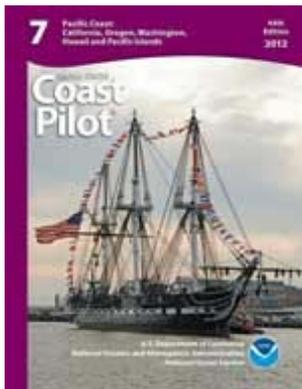
Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

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=19401>.



**(Selected Excerpts from Coast Pilot)  
French Frigate Shoals**, about 85 miles W from Necker Island, is a crescent-shaped atoll about 17 miles long in a NNW direction. The atoll consists of a coral reef with a number of small sand islets on it, and is flanked by a volcanic rock and numerous coral heads and reefs. It is home to many sea birds, seals, turtles and other fish and wildlife all protected by Federal Law. The other islands are of little assistance in navigation due to their constantly changing size and shape

and low elevations. Shark Island has been observed to be particularly unreliable in this regard.

The crescent reef is double, and the outer and inner arcs bound a lagoon. At its midpoint the windward reef lies about 8 miles from a line joining the tips of the crescent; the leeward reef is about 5 miles from this line. The windward reef is nearly continuous and can be plainly seen in the daytime for a considerable distance by vessels approaching from the N, E or SE. The sea practically always breaks over the reef, and during the few times it is not breaking, the green shoal water inside the reef is seen in ample time to avoid danger. The bottom slopes uniformly from the reef to the 100-fathom curve 1 to 2 miles off, and there are no known dangers from N through E to S of the windward reef. The leeward or inner reef, however, is broken in many places and in normal weather is seldom marked by breakers. The lagoon between the reefs is very foul with numerous coral heads, some just under the surface of the water.

**La Perouse Pinnacle** (23°46'08"N., 166°15'39"W.), a volcanic rock about 60 yards long and 20 yards wide, lies about midway between the tips of the crescent and W of the leeward arc of the reef. The rock is so steep and rugged that it is almost inaccessible. From a distance its guano-coated outline resembles a brig under sail. A small detached lava rock about 9 feet high lies off the W side of the pinnacle. The points of the crescent reef, as indicated by the ends of the line of breakers, bear about 170° and 310° from La Perouse Pinnacle. La Perouse Pinnacle is reported to be the first object sighted, generally, when approaching the atoll, and that it is usually picked up on radar at 12 to 15 miles.

**Shark Island**, the northwesternmost of the sand islets, lies 6 miles NW of La Perouse Pinnacle. A coral reef fringes the island. **Tern Island**, about 2 miles ENE of Shark Island, is marked by two 40-foot towers, low concrete buildings, a wooden telegraph pole, and four large trees. The island and buildings are visible at 8 and 5 miles, respectively. There are no facilities on the island.

**East Island**, 3 miles ENE of La Perouse Pinnacle, is a low sand bar 600 yards long in a NW direction and about 100 yards across. Reefs that are awash most of the time extend a mile W and 0.2 mile S from the island; the S reef seldom breaks. A coral head that sometimes breaks is 0.6 mile S of East Island. NE and E of the island are numerous coral heads/reefs. Extreme caution must be exercised when navigating in the vicinity of these islets because of the numerous coral heads.

**Channels.**—The principal approach to Tern Island is through a natural channel that leads to a lagoon and anchorage SE of the island. Entry into the lagoon is through an opening in the reef indicated by the 3¼-fathom sounding in 23°51'09"N., 166°16'27"W., on chart 19402. Mariners are advised that attempting entry into the lagoon requires extensive local knowledge, good sea and weather conditions, and the sound judgment to recognize when conditions allow committing the vessel to a course through the reef opening.

**Anchorage.**—The best holding ground SW of French Frigate Shoals is in depths of 13 to 15 fathoms, sand bottom; in lesser depths the bottom is mostly coral. There are no all-weather anchorages for large vessels, but the conformation of the reef is such that some protection can be found from choppy seas and ground swell. Small vessels can find good protection from most weather behind the shoals and coral heads.

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

RCC Honolulu      Commander  
14th CG District      (808) 535-3333  
Honolulu, HI

# 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).

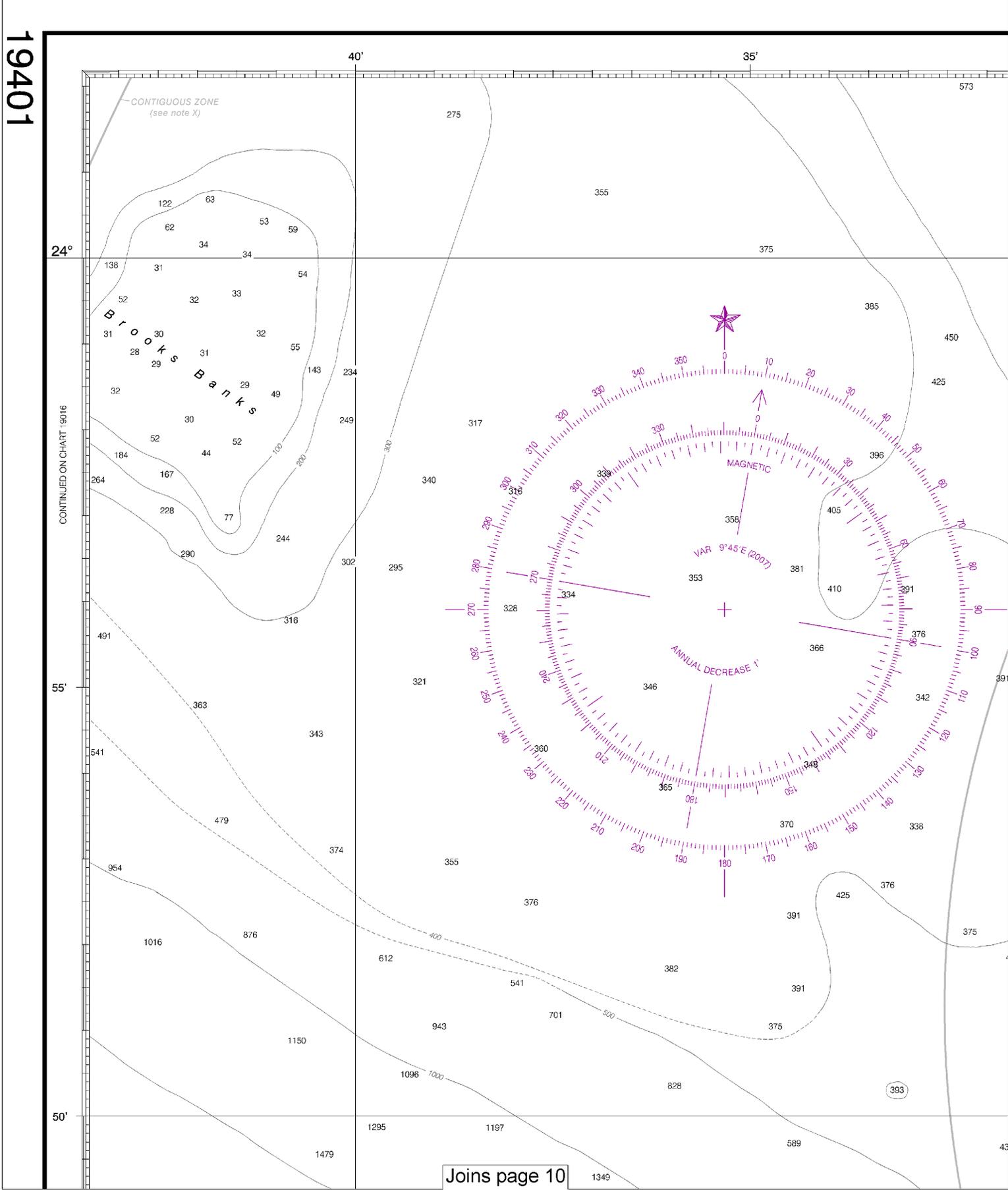
## Lateral System As Seen Entering From Seaward

on navigable waters except Western Rivers



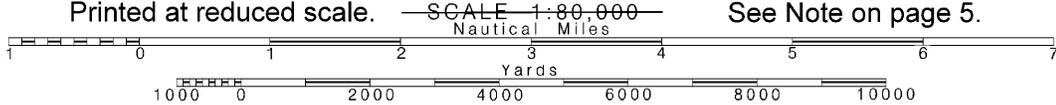
For more information on aids to navigation, including those on Western Rivers, please consult the latest USCG Light List for your area. These volumes are available online at <http://www.navcen.uscg.gov>

19401



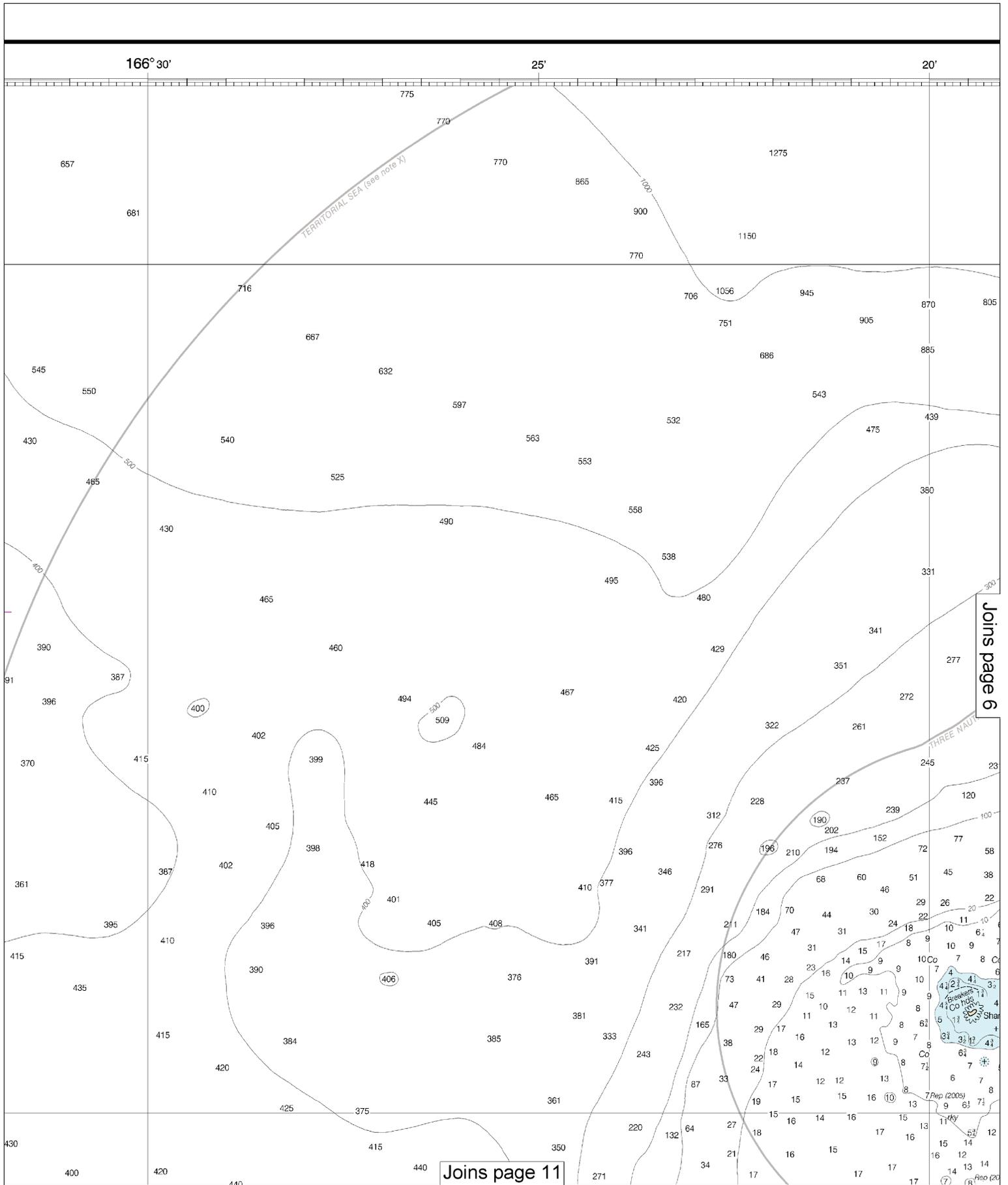
4

Note: Chart grid lines are aligned with true north.



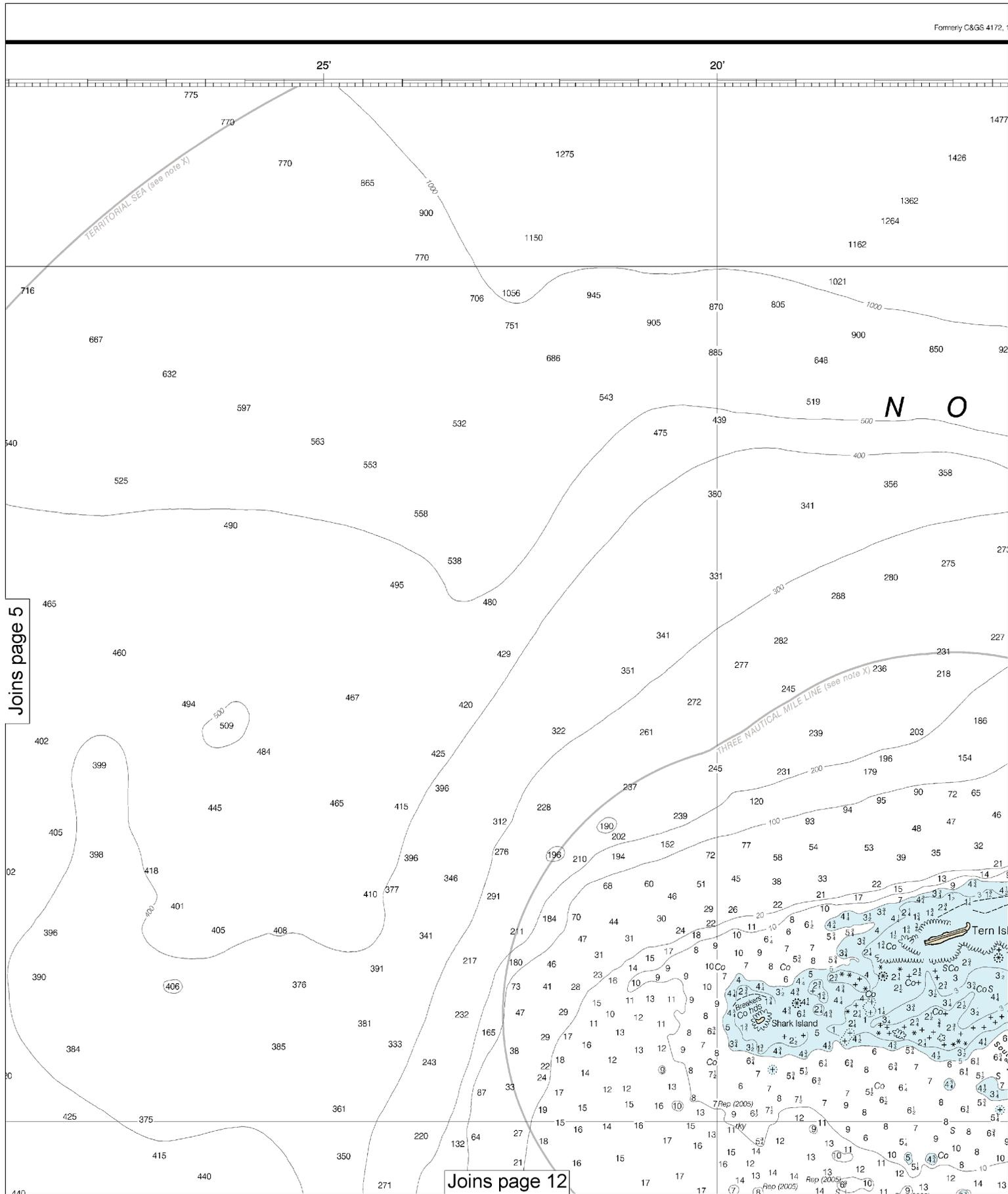
Printed at reduced scale. SCALE 1:80,000 Nautical Miles

See Note on page 5.



This BookletChart was reduced to 75% of the original chart scale.  
 The new scale is 1:106666. Barscales have also been reduced and  
 are accurate when used to measure distances in this BookletChart.





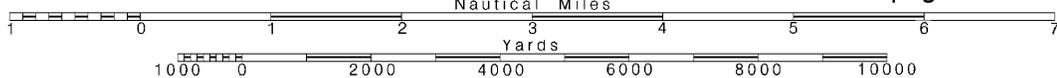
Joins page 5

Joins page 12

Printed at reduced scale.

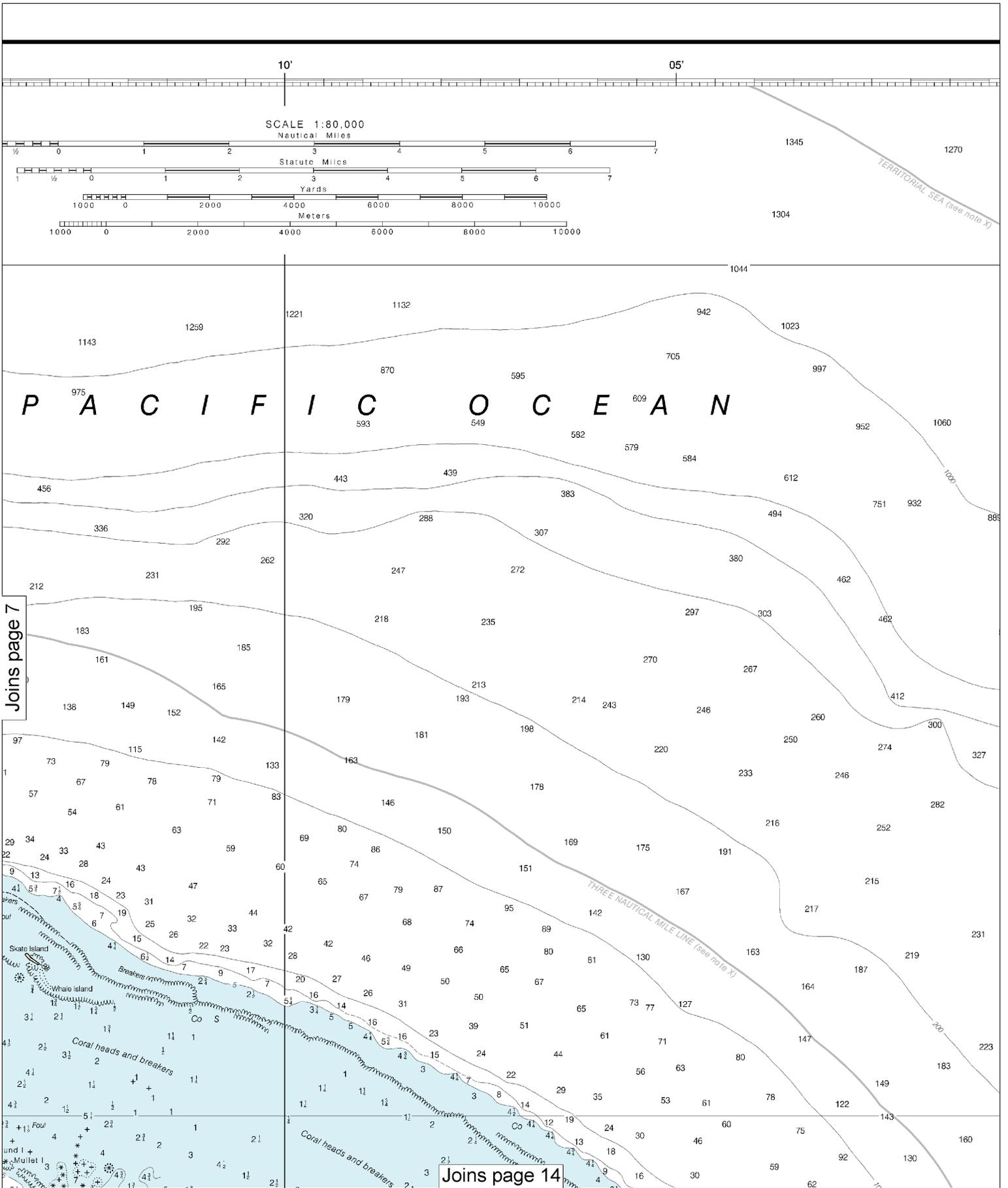
SCALE 1:80,000  
Nautical Miles

See Note on page 5.



Note: Chart grid lines are aligned with true north.





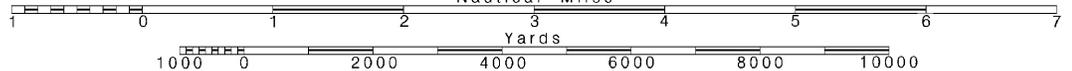
8

Note: Chart grid lines are aligned with true north.

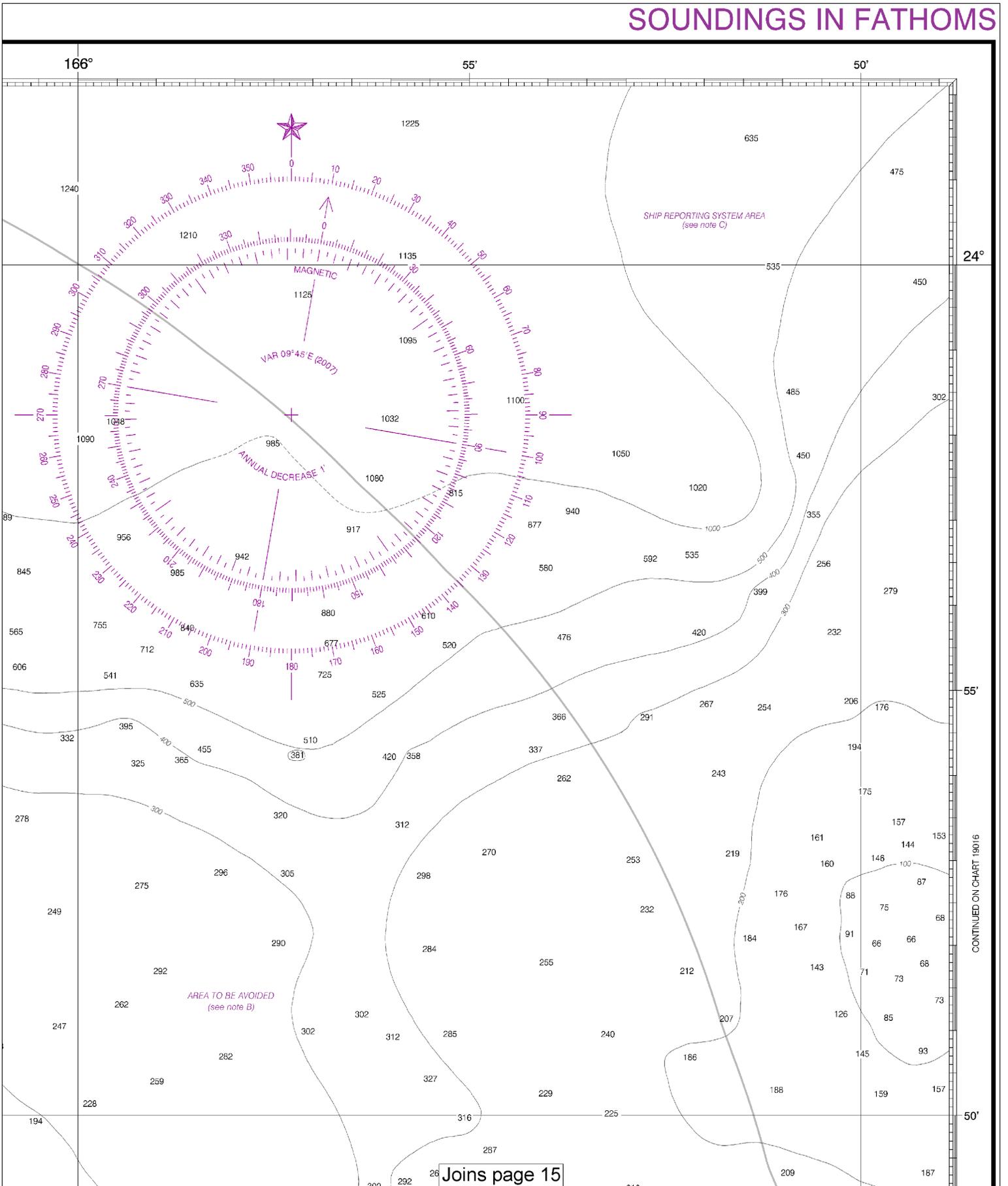
Printed at reduced scale.

SCALE 1:80,000  
Nautical Miles

See Note on page 5.



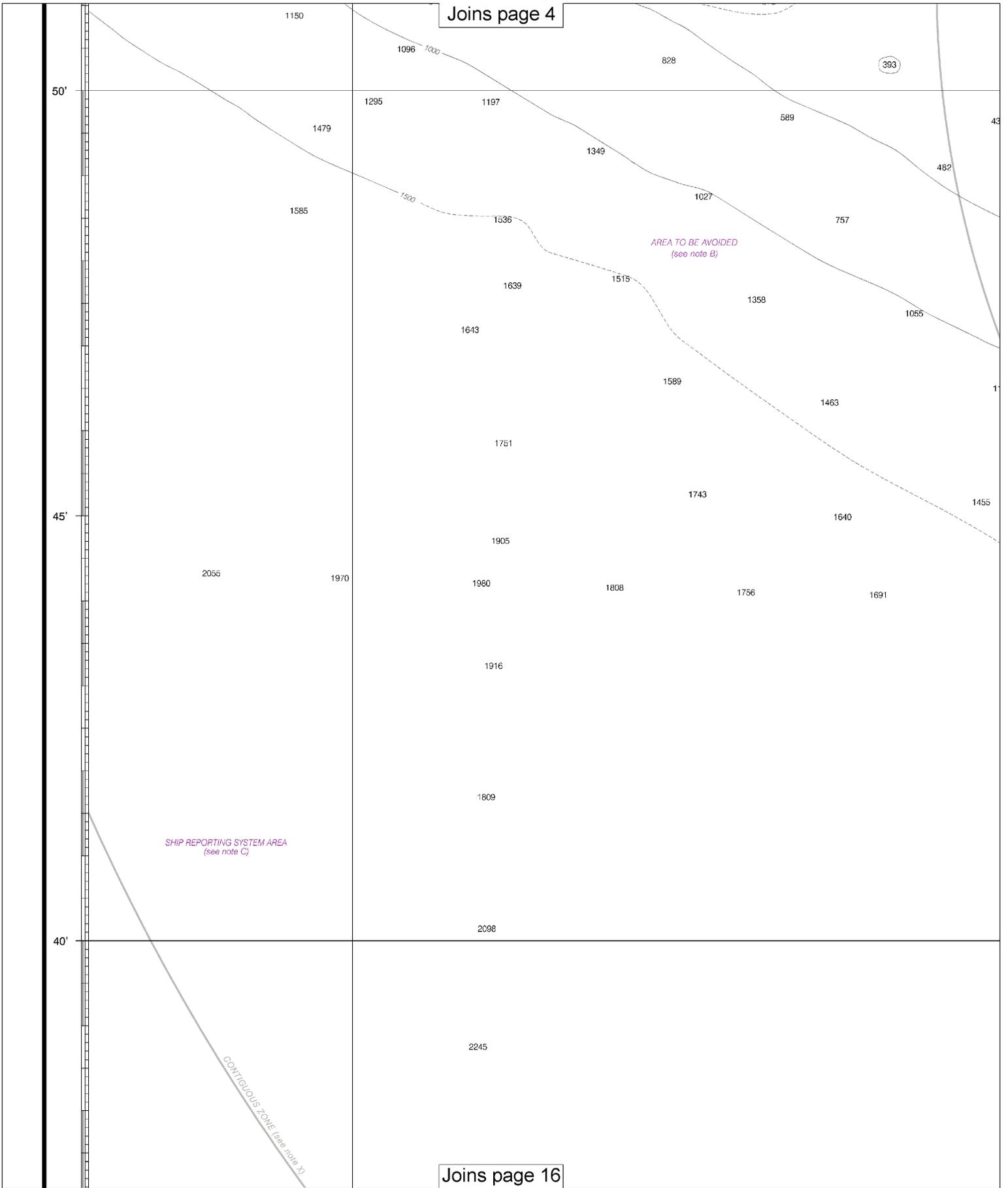
# SOUNDINGS IN FATHOMS



Joins page 15

CONTINUED ON CHART 19016

Joins page 4

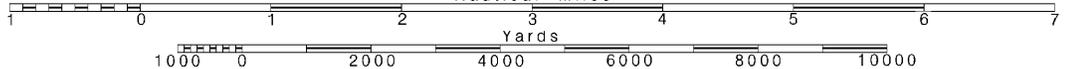


Note: Chart grid lines are aligned with true north.

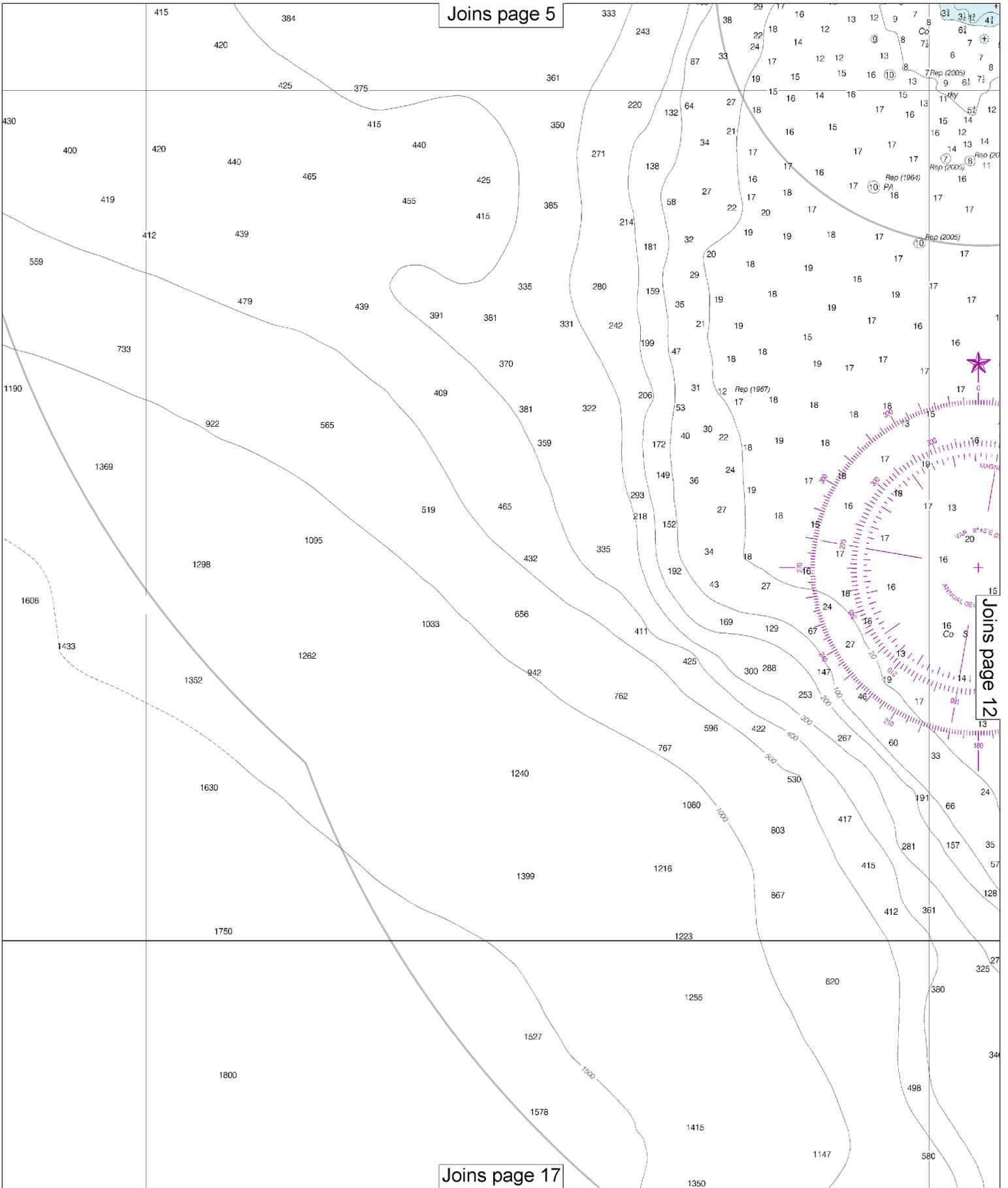
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SCALE 1:80,000  
Nautical Miles

See Note on page 5.

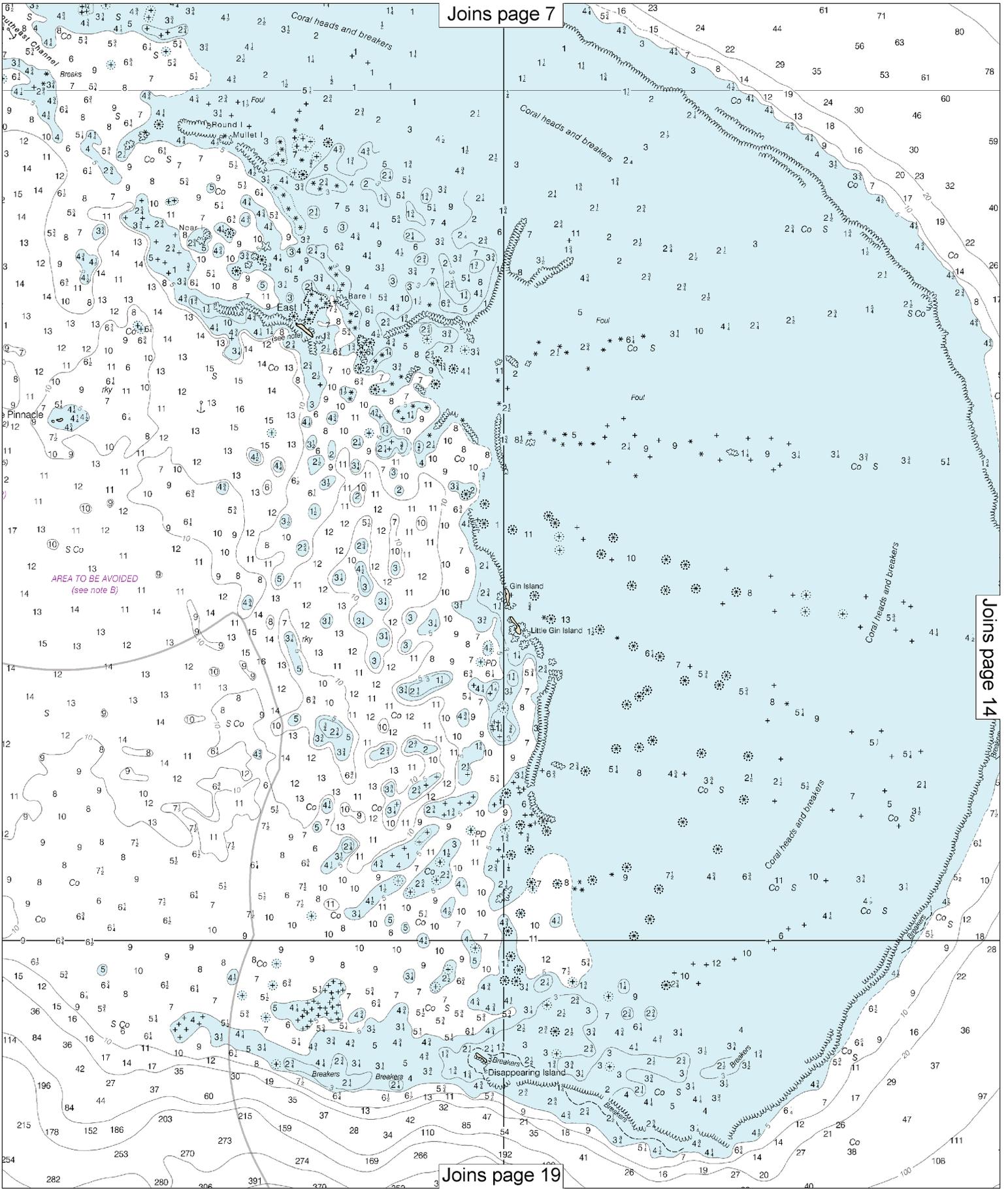


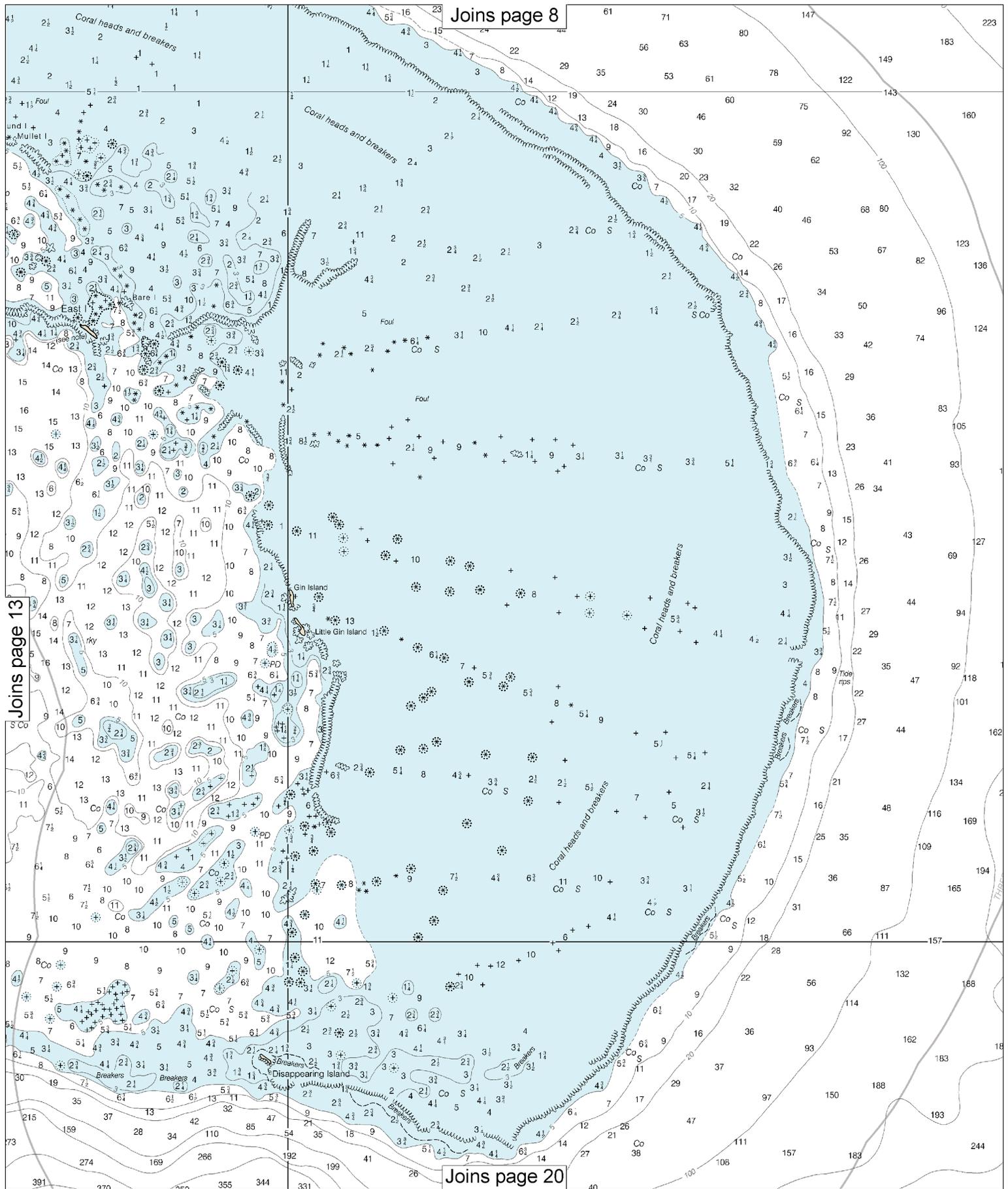
Joins page 5



Joins page 17







Joins page 13

Joins page 8

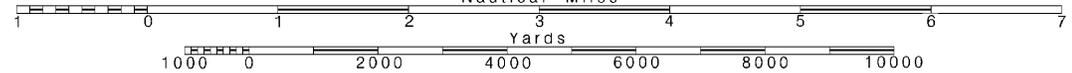
Joins page 20

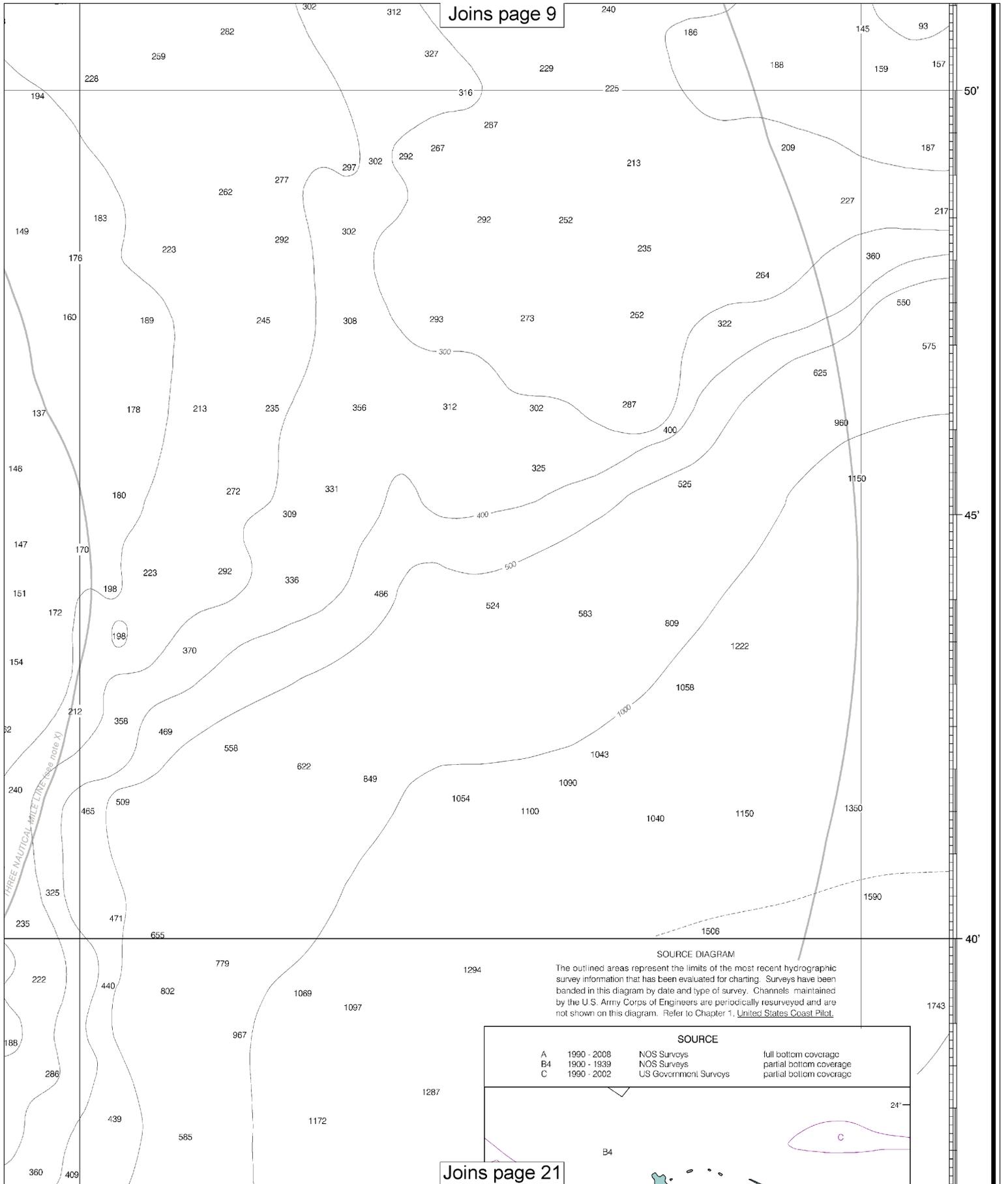
**14**

Note: Chart grid lines are aligned with true north.

Printed at reduced scale. SCALE 1:80,000 Nautical Miles

See Note on page 5.





CONTIGUOUS ZONE (see note X)



THE NATION'S CHARTMAKER SINCE 1807 2110

# 2440 FRENCH FRIGATE SHOALS

Mercator Projection  
Scale 1:80,000 at Lat 23° 44'

World Geodetic System 1984  
(North American Datum of 1983)

SOUNDINGS IN FATHOMS  
AT MEAN LOWER LOW WATER

35'

23° 30'

**CAUTION**  
Recent hydrographic surveys do not exist in this area. The hydrographic surveys used for this chart did not achieve full bottom coverage, thus uncharted coral heads may exist. Uncharted areas of submerged reef of unknown depth may exist. Extreme caution should be exercised when navigating in this area.

**HORIZONTAL DATUM**  
The horizontal reference datum of this chart is World Geodetic System 1984 (WGS 84), which for charting purposes is considered equivalent to the North American Datum of 1983 (NAD 83). The projection of this chart was shifted from a local datum by means of georeferenced satellite imagery and has not been confirmed by land-based geodetic methods.

**SUPPLEMENTAL INFORMATION**  
Consult U.S. Coast Pilot 7 for important supplemental information.

**EAST ISLAND**  
East Island is marked by towers.

**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).

**COLREGS, 80.1410 (see note A)**  
International Regulations for Preventing Collisions at Sea, 1972.  
The entire area of this chart falls seaward of the COLREGS Demarcation Line.

**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 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.

2416

2463

2435

2540

2583

2572

2668

TIDAL INFORMATION				
NAME	PLACE (LAT/LONG)	Height referred to datum of soundings (MLLW)		
		Mean Higher High Water	Mean High Water	Mean Low Water
East Island Frigate Shoals	(23°47'N/166°13'W)	1.4 feet	1.1 feet	0.2 feet

NOTE: Chart was last revised: 4/92, 10/99, 12/02  
Dashes (- -) located in datum columns indicate unavailable datum values for a tide station. Real-time water level tide predictions, and tidal current predictions are available on the Internet from <http://tidesandcurrents.noaa.gov> (Apr 2007)

**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 moose code R TR radio tower  
A alternating IQ interrupted quick N nun Rot rotating  
B black Iso isophase OASC obscured s seconds  
Bn beacon LT Lighthouse Oc occulting SEC sector  
C can M nautical mile Or orange St M statute mile  
DIA diaphone m minutes Q quick VQ very quick  
F fixed MICRO TR microwave tower R red W white  
Fl flashing Mkr marker Rfl Rof radar reflector WHIS whistle  
R Bn radiobeacon Y yellow

**Bottom characteristics:**  
Bld 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 Obstr obstruction PD position doubtful Suom 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**

Heights in feet above Mean High Water.

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

**AUTHORITIES**

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the U.S. Coast Guard, Geological Survey, and National Geospatial-Intelligence Agency.

**CAUTION**

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

40'

35'

19401

9th Ed., May 2007. Last Correction: 1/2/2014. Cleared through:  
LNM: 4916 (12/6/2016), NM: 5016 (12/10/2016)

**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 or comments about this chart at <http://www.nauticalcharts.noaa.gov/staff/contact.htm>

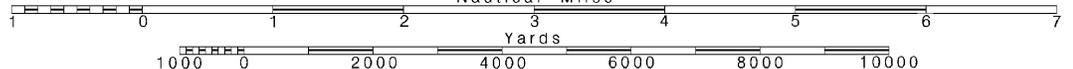
16

Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:80,000  
Nautical Miles

See Note on page 5.



Joins page 11

34

1800

1578

1415

1147

498

2000

1350

1224

779

580

421

434

2085

2045

1688

1555

1440

1450

1480

1590

771

583

2325

2410

1555

1440

1450

1480

1590

771

986

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7. 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, 14th Coast Guard District in Honolulu, Hawaii or at the Office of the District Engineer, Corps of Engineers in Honolulu, Hawaii.

Anchorage regulations may be obtained at the Office of the Commander, 14th Coast Guard District in Honolulu, Hawaii.

Refer to section numbers shown with area designation.

PARTICULARLY SENSITIVE SEA AREA

This chart falls entirely within the limits of a Particularly Sensitive Sea Area (PSSA). A PSSA is an environmentally sensitive area in which and around which mariners should exercise extreme caution. See U.S. Coast Pilot volumes for information regarding this area.

NOTE B  
AREA TO BE AVOIDED

All vessels solely in transit should avoid the area (MSC IMO SN.1/Circ.263).

HAWAIIAN ISLANDS NATIONAL WILDLIFE REFUGE

The Hawaiian Islands from longitude 161° W to 176° W are part of the Hawaiian Islands National Wildlife Refuge, and under the jurisdiction of the U.S. Fish and Wildlife Service, Department of the Interior.

The islands and atolls in the refuge include Nihoa, Necker Island, French Frigate Shoals, Gardner Pinnacles, Maro Reef, Laysan Island, Lisianski Island, Pearl and Hermes Atoll. National Wildlife Refuge System regulations pertaining to these Islands and atolls are contained in CFR 50, parts 25-32.

Entry to the refuge is strictly prohibited without prior approval from the Refuge Manager, Pacific Remote Islands National Wildlife Refuge Complex, U.S. Fish and Wildlife Service, 300 Ala Moana Blvd., Honolulu, Hawaii 96850.

The restrictions apply to all civilian and military agencies as well as individuals.

2525

NOTE C  
SHIP REPORTING SYSTEM

The following vessels entering or departing any U.S. port of place and in transit through the reporting area are required to report into the System: all vessels 300 gross tons or greater and all vessels in the event of a developing emergency. The following vessels in transit through the reporting area should report into the System: all vessels 300 gross tons or greater, fishing vessels, and all vessels in the event of a developing emergency. See IMO SN.1, Circ. 273. Information concerning the Ship Reporting System is also published in the U.S. Coast Pilot 7, Chapters 2 and 14, and updated through Notices to Mariners. Information may also be obtained at the Office of the Commander, 14th Coast Guard District in Honolulu, or at the Office of the District Engineer, Corps of Engineers, in Honolulu.

PAPAHĀNAUMOKUĀKEA  
MARINE NATIONAL MONUMENT

The entire area of this chart lies within the boundaries of the Papahānaumokuākea Marine National Monument and the French Frigate Shoals Special Preservation Area. These are protected areas. See 50 CFR 404 or Chapter 2, U.S. Coast Pilot 7.

TERRITORIAL SEA (see note X)

Joins page 18

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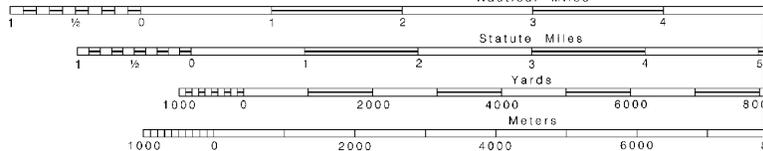
arged

166°30'

25'

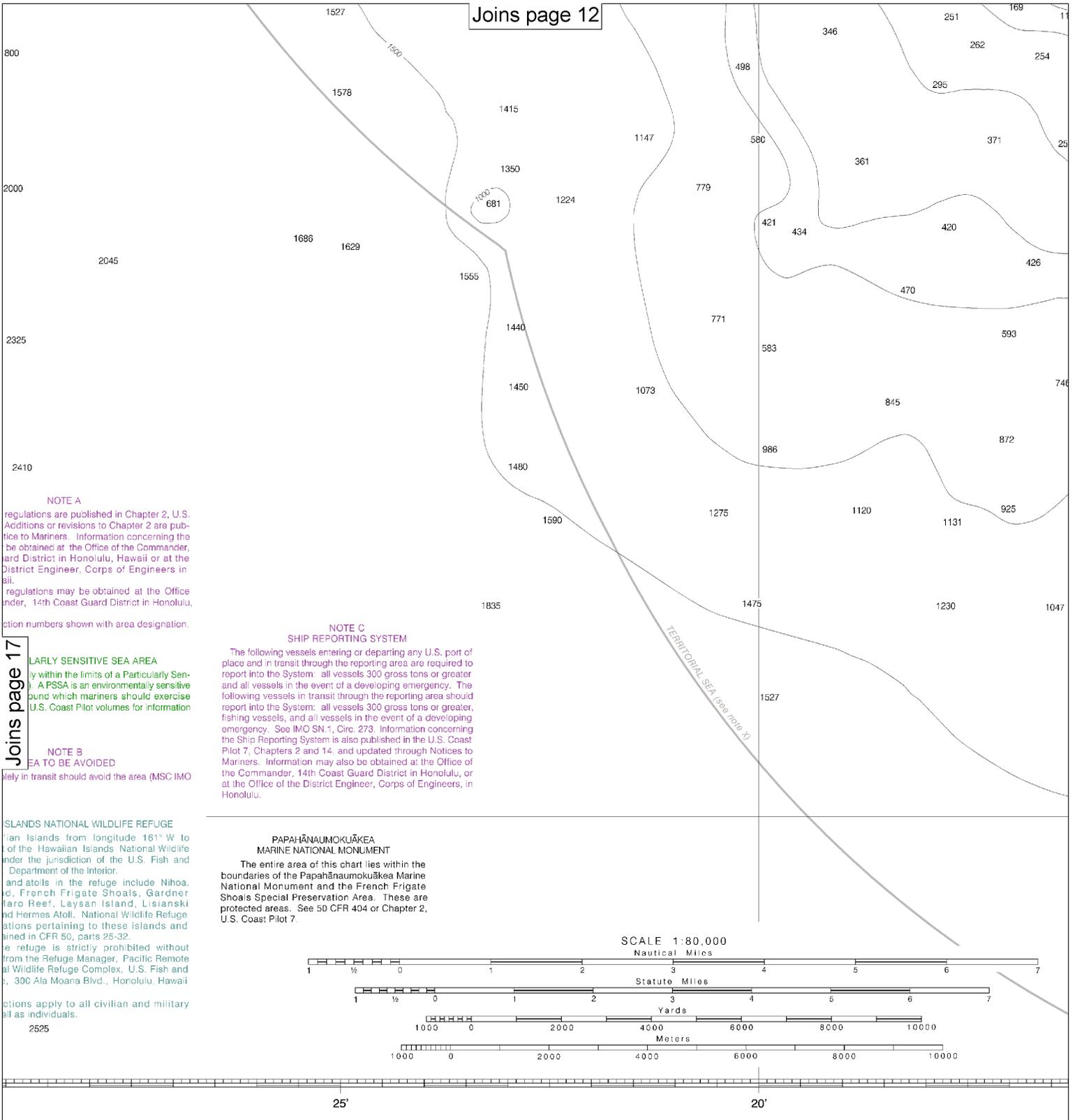
20'

SCALE 1:80,000  
Nautical Miles



SOUNDINGS IN FATHOMS

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n.



**NOTE A**  
 regulations are published in Chapter 2, U.S. Additions or revisions to Chapter 2 are published to Mariners. Information concerning the be obtained at the Office of the Commander, and District in Honolulu, Hawaii or at the District Engineer, Corps of Engineers in Hawaii.  
 regulations may be obtained at the Office of the Commander, 14th Coast Guard District in Honolulu, Hawaii or at the District Engineer, Corps of Engineers, in Honolulu.  
 designation numbers shown with area designation.

**NOTE B**  
 Particularly SENSITIVE SEA AREA  
 Vessels in transit should avoid the area (MSC IMO 1978/77, Annex 2, Part B, 2.1.1.1). A PSSA is an environmentally sensitive area in which mariners should exercise particular care. For more information, see U.S. Coast Pilot volumes for information.

**NOTE C**  
 SHIP REPORTING SYSTEM  
 The following vessels entering or departing any U.S. port of place and in transit through the reporting area are required to report into the System: all vessels 300 gross tons or greater and all fishing vessels in the event of a developing emergency. The following vessels in transit through the reporting area should report into the System: all vessels 300 gross tons or greater, fishing vessels, and all vessels in the event of a developing emergency. See IMO SN.1, Circ. 273. Information concerning the Ship Reporting System is also published in the U.S. Coast Pilot 7, Chapters 2 and 14, and updated through Notices to Mariners. Information may also be obtained at the Office of the Commander, 14th Coast Guard District in Honolulu, Hawaii or at the Office of the District Engineer, Corps of Engineers, in Honolulu.

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**HAWAIIAN ISLANDS NATIONAL WILDLIFE REFUGE**  
 The Hawaiian Islands National Wildlife Refuge is under the jurisdiction of the U.S. Fish and Wildlife Service, Department of the Interior. The islands and atolls in the refuge include Nihoa, French Frigate Shoals, Gardner Pinnacles Reef, Laysan Island, Lisianski Point, and Hermes Atoll. National Wildlife Refuge Regulations pertaining to these islands and atolls are found in CFR 50, parts 25-32. Hunting is strictly prohibited without the permission of the Refuge Manager, Pacific Remote Area Wildlife Refuge Complex, U.S. Fish and Wildlife Service, 300 Ala Moana Blvd., Honolulu, Hawaii.

2525

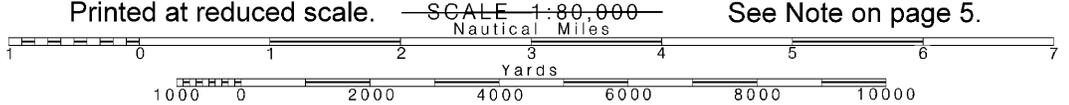
25' 20'

# SOUNDINGS IN FATHOMS

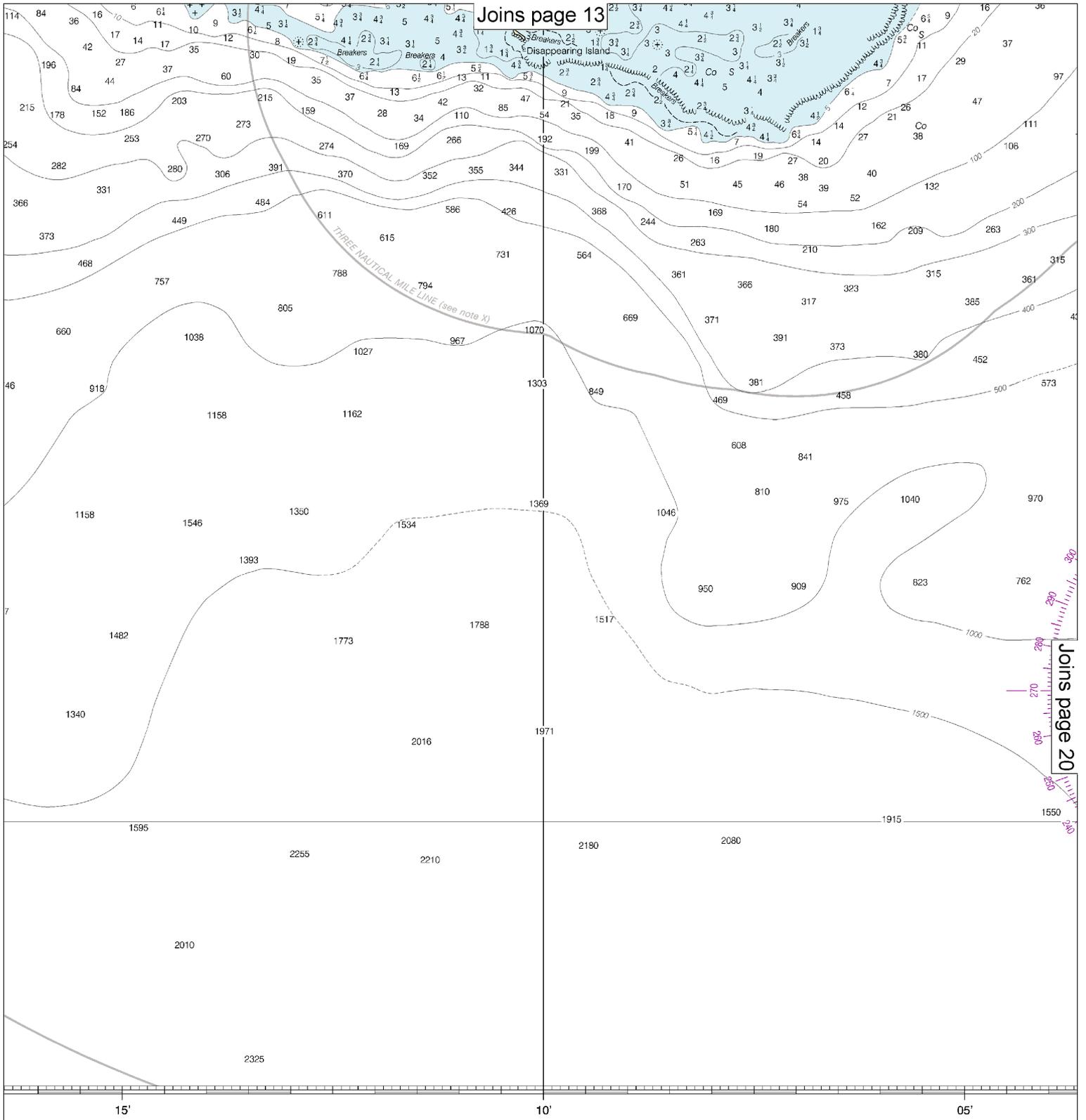
Published by  
 U.S. DEPARTMENT OF  
 NATIONAL OCEANIC AND  
 ATMOSPHERIC ADMINISTRATION  
 NATIONAL COAST AND GEODETIC SURVEY

# 18

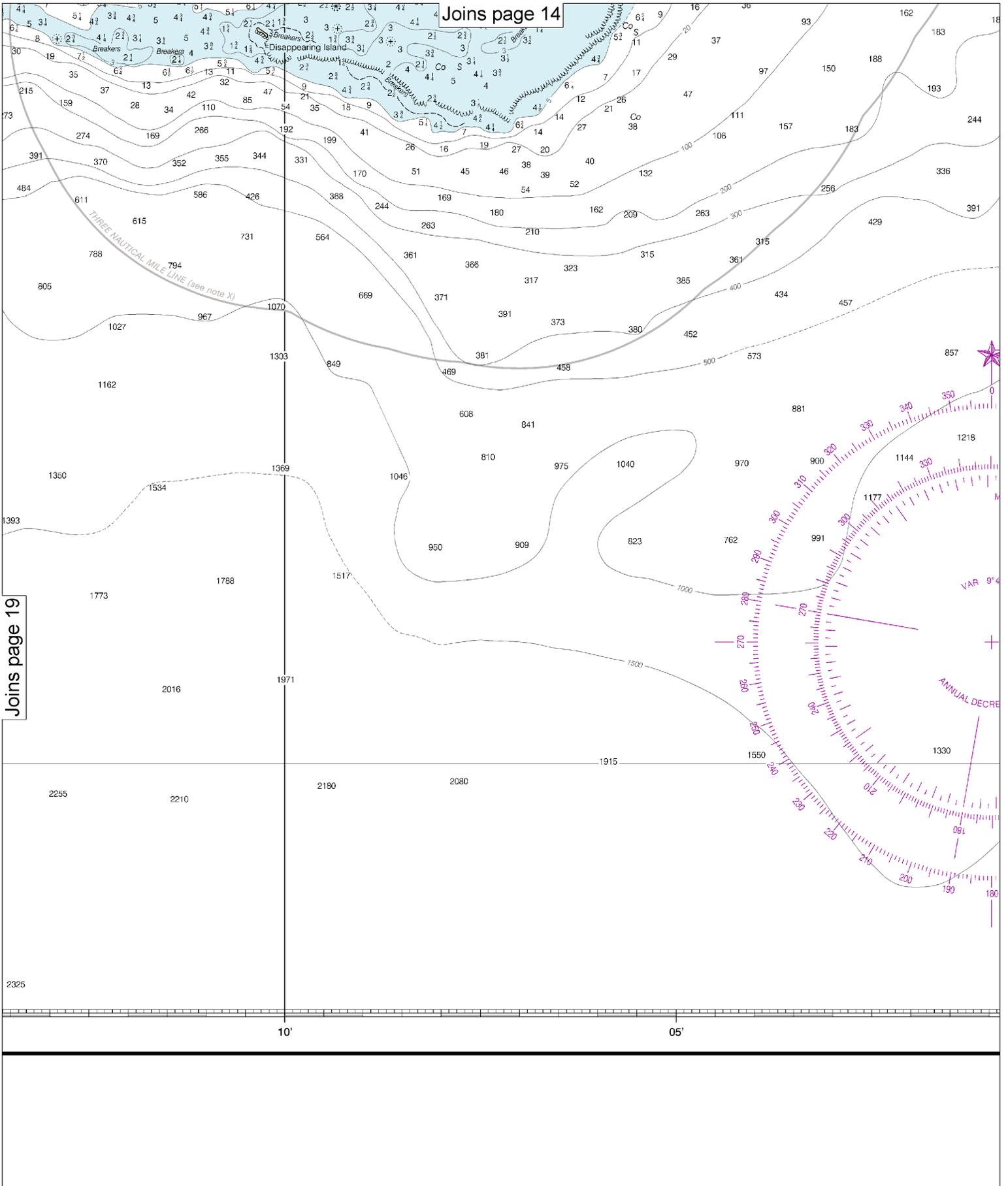
Note: Chart grid lines are aligned with true north.



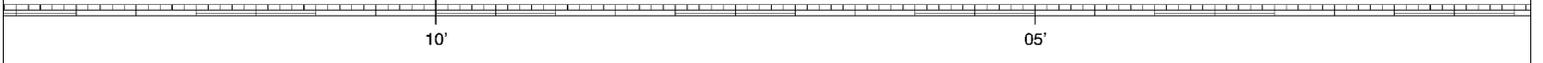
See Note on page 5.



at Washington, D.C.  
 DEPARTMENT OF COMMERCE  
 NAUTICAL CHARTS AND INFORMATION SERVICE  
 HYDROGRAPHIC SURVEY



Joins page 19



Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

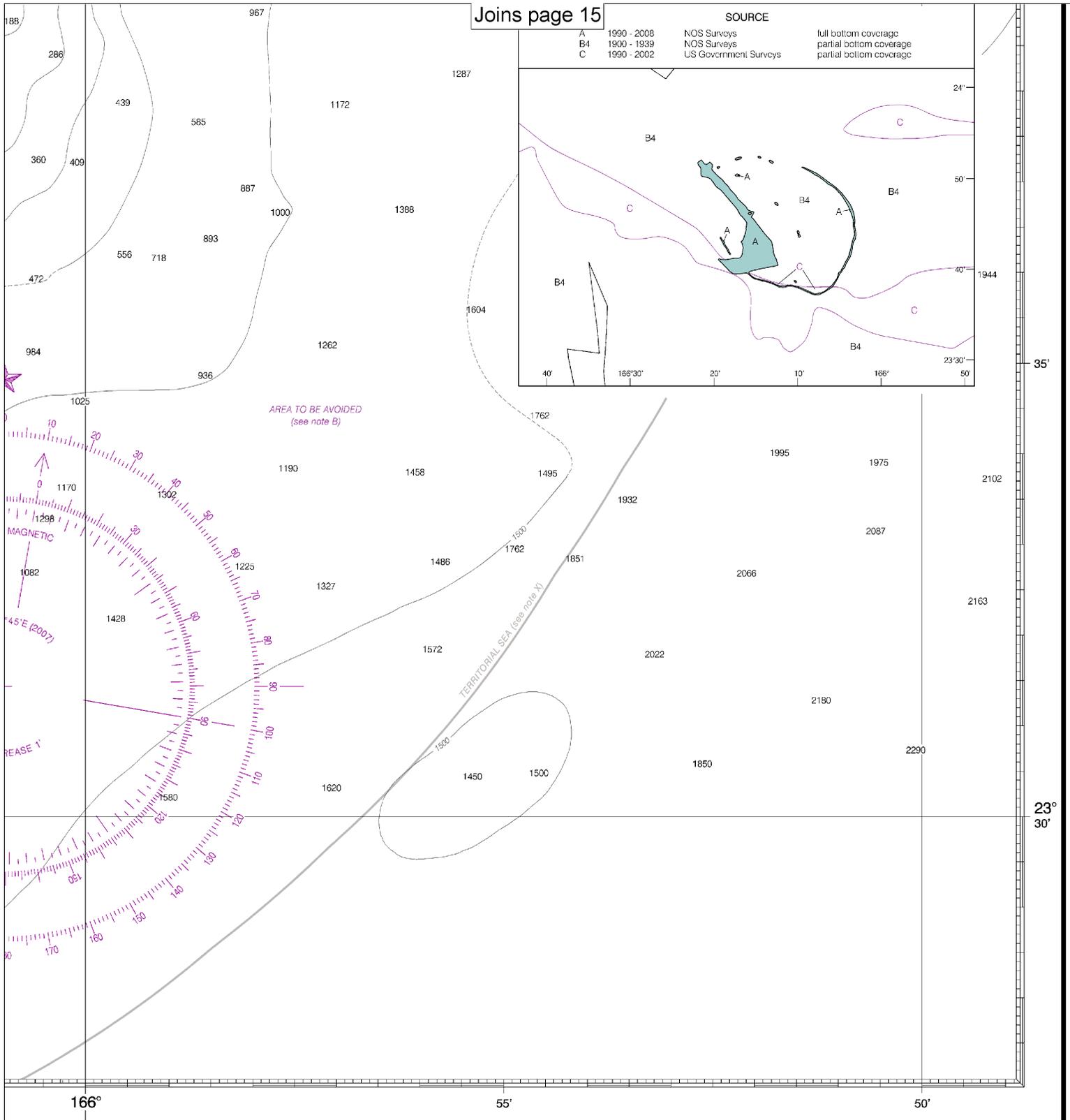
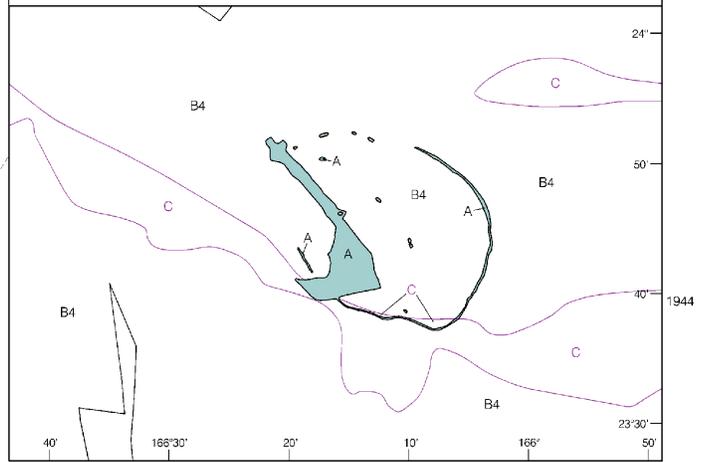
SCALE 1:80,000  
Nautical Miles

See Note on page 5.



SOURCE

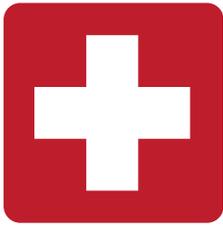
A	1990 - 2008	NOS Surveys	full bottom coverage
B4	1900 - 1939	NOS Surveys	partial bottom coverage
C	1990 - 2002	US Government Surveys	partial bottom coverage



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

French Frigate Shoals  
SOUNDINGS IN FATHOMS - SCALE 1:80,000

19401



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>



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