

# BookletChart™

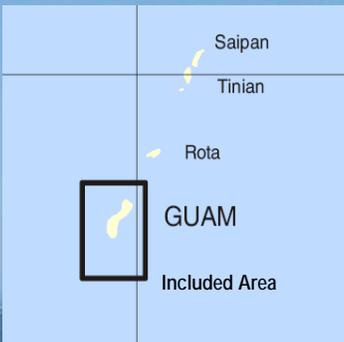
## Mariana Islands – Island of Guam

NOAA Chart 81048

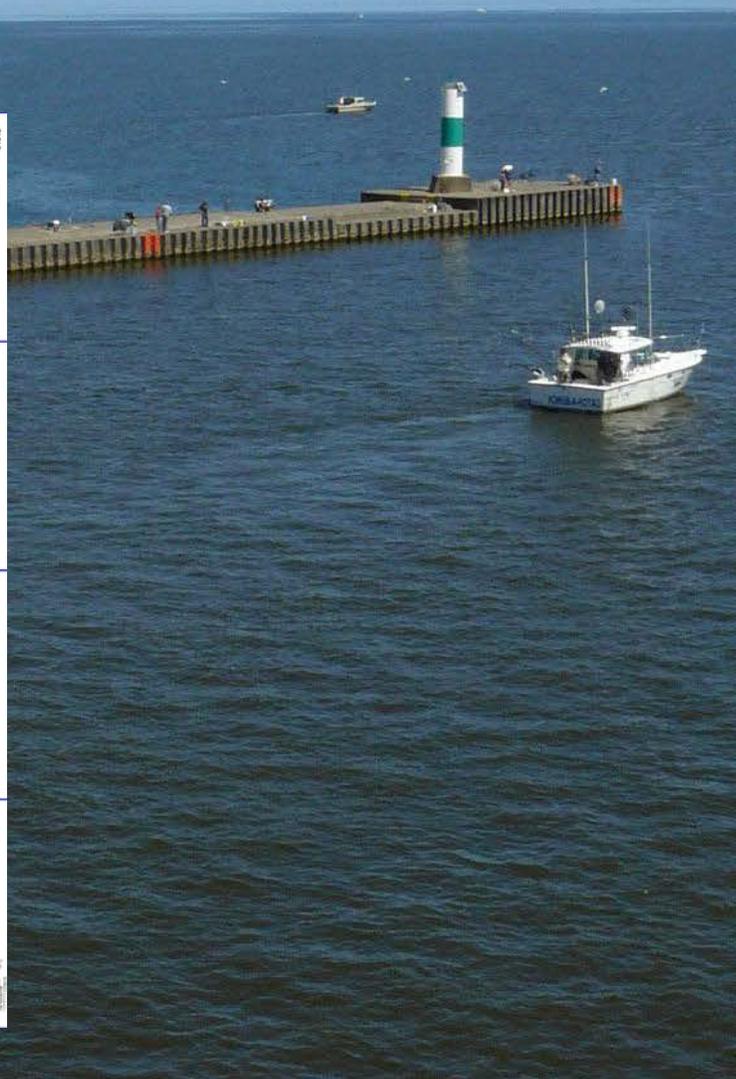
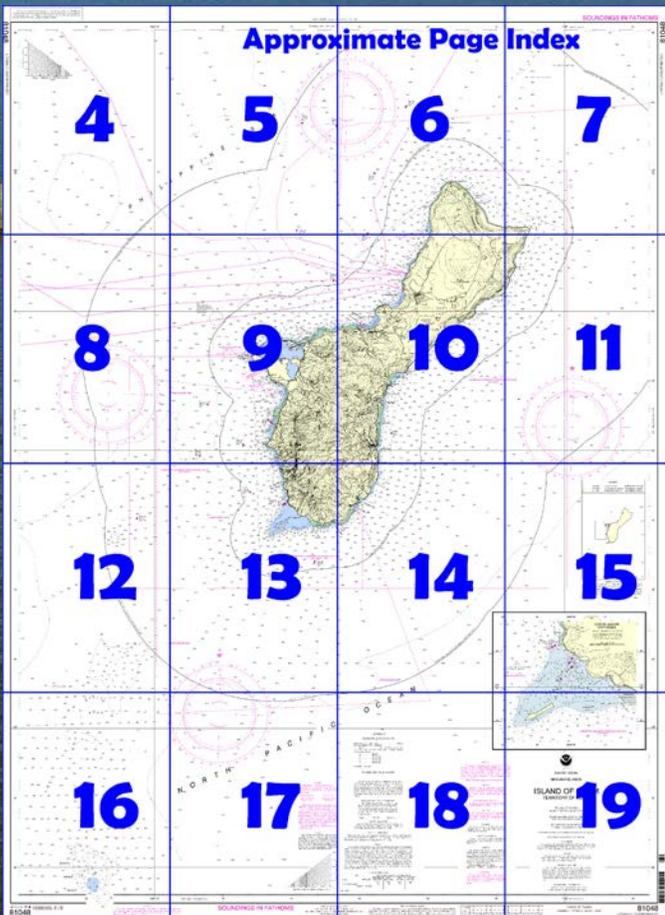


*A reduced-scale NOAA nautical chart for small boaters*

*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.

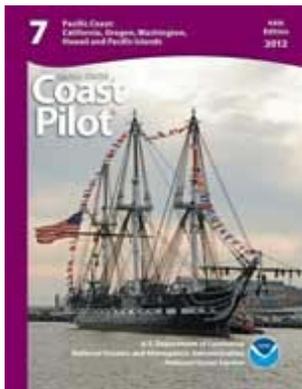
Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

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=81048>.



**(Selected Excerpts from Coast Pilot)**  
**Guam** (13°25'N., 144°44'E.), a U.S. territory since 1898, is not included in the Commonwealth of the Northern Marianas. The largest and southernmost island of the Marianas Archipelago, Guam is about 30 miles long and varies from 4 to 8 miles in width.

**Apra Harbor**, situated midway along the W coast of Guam, is the main berthing facility on the island, consisting of a commercial harbor, a naval complex, and a repair facility.

The harbor is comprised of two main areas; **Apra Inner Harbor** and Apra

**Outer Harbor.** **Apra Outer Harbor** is the principal commercial port for the island. Apra Inner Harbor houses the U.S. Naval facility and a commercial ship repair facility. **Glass Breakwater** forms the N and NW sides of Apra Outer Harbor and is a barrier against most ocean swells from the N and W. The seaward end of the breakwater is marked by a light. The harbor is extensive and safe, except during typhoon season, when vessels should be prepared to get underway at short notice.

**Anchorage.**—There are **naval, explosive, and general anchorages** that have been designated within Apra Outer Harbor. (See **33 CFR 110.1 and 110.238**, chapter 2, for limits and regulations.)

There are also **special anchorage areas** in Apra Outer Harbor. (See **33 CFR 110.1 and 110.129a**, chapter 2, for limits and regulations.)

**Channels.**—The approaches to the harbor are free and deep, as is the channel between the breakwaters. The entrance to Apra Outer Harbor is marked by lights, lighted buoys, and a **083°** lighted range. The entrance to Apra Inner Harbor is marked by lighted buoys and a **141°** lighted range and a **176°** lighted range.

**Regulated navigation areas.**—**Regulated navigation areas** have been established in the approach to and in Apra Outer Harbor. (See **33 CFR 165.1402 and 165.1405**, chapter 2, for limits and regulations.)

**Safety zones and security zones** have been established in Apra Outer Harbor. (See **33 CFR 165.1401 and 165.1404**, chapter 2, for limits and regulations.)

Apra Inner Harbor and an area just W of the entrance to the Inner Harbor are included in a **restricted area**. (See **33 CFR 334.1 through 334.6 and 334.1430**, chapter 2, for limits and regulations.) A **harbor security barrier gate**, marked by two uncharted buoys, has been installed across the entrance to Apra Inner Harbor between the outermost ends of Wharves L and B.

**Caution.**—The restricted area of a **Firing Danger Zone** extends offshore about 1 mile S of Orote Point and off the SW coast of the island. (See **33 CFR 334.1420**, chapter 2, for limits and regulations.) An acoustic range facility is S of the restricted area and a submarine operating area surrounds most of the island.

**Pilotage.**—Pilotage is compulsory for vessels over 500 gross tons and all vessels entering the port for the first time and after daylight hours. Pilot services are available on a 24-hour basis for Apra Harbor. Pilots are required to board inbound vessels and leave outbound vessels at Alpha Hotel Pilot Station (13°26'52"N., 144°35'16"E.), about 2 miles W of Orote Point, to insure that the vessel is properly aligned on the entrance range; the station is unmarked.

**Harbor Regulations.**—All operations in Apra Outer Harbor are under the jurisdiction of The Port Authority of Guam and The United States Coast Guard. Prior to entry all vessels must establish communications with Guam Port Control Harbormaster's office on VHF-FM channels 12, 13 or 16; call sign WRV-574. The phone number for Guam Port Control Harbormaster's Office is 671-477-8697.

All operations in Apra Inner Harbor are under the jurisdiction of the U.S. Navy Port Control Harbormaster's Office with communication on VHF-FM channels 14 and 16. The phone number is 671-339-6141.

Vessels entering, leaving or shifting berth are required to give a minimum of 24 hours notice to **The Port Authority of Guam Harbor Master and US Coast Guard Captain of the Port**. Failure to give such notice is a basis for denying entry. No vessel shall enter or leave the harbor without radio clearance from the Harbormaster. Vessels must be ISPS/MTSA compliant.

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

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

# Table of Selected Chart Notes

## NOTE C

All buoys in Merizo Channel are privately maintained.

## 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.

### NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio station listed below provides 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.

Guam	WXM-85	162.40 MHz
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### RADAR REFLECTORS

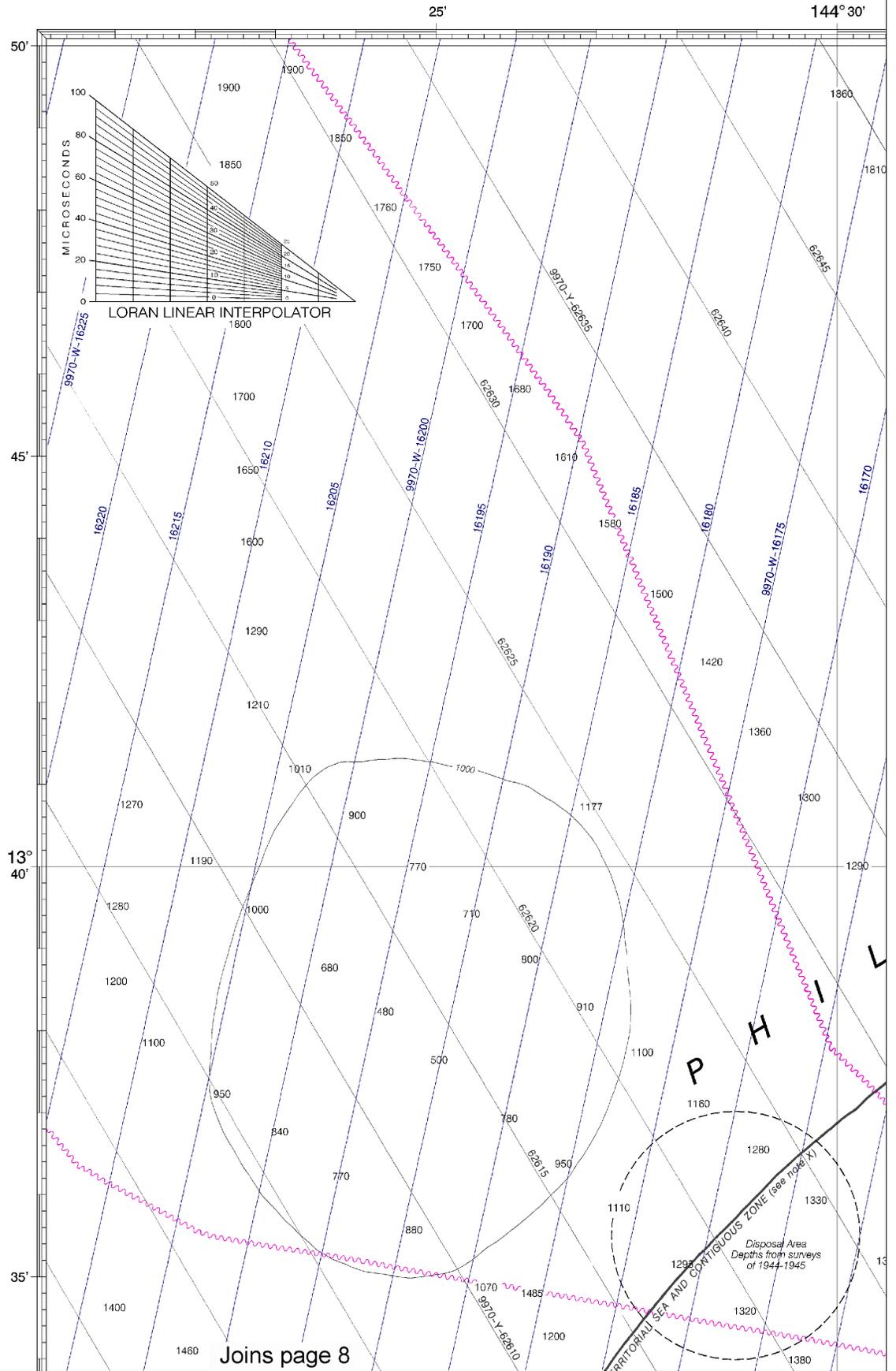
Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

### 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).

81048

LORAN-C OVERPRINTED

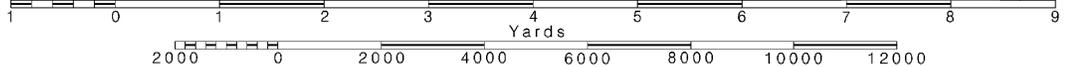


Joins page 8

Printed at reduced scale.

SCALE 1:100,000

See Note on page 5.



4

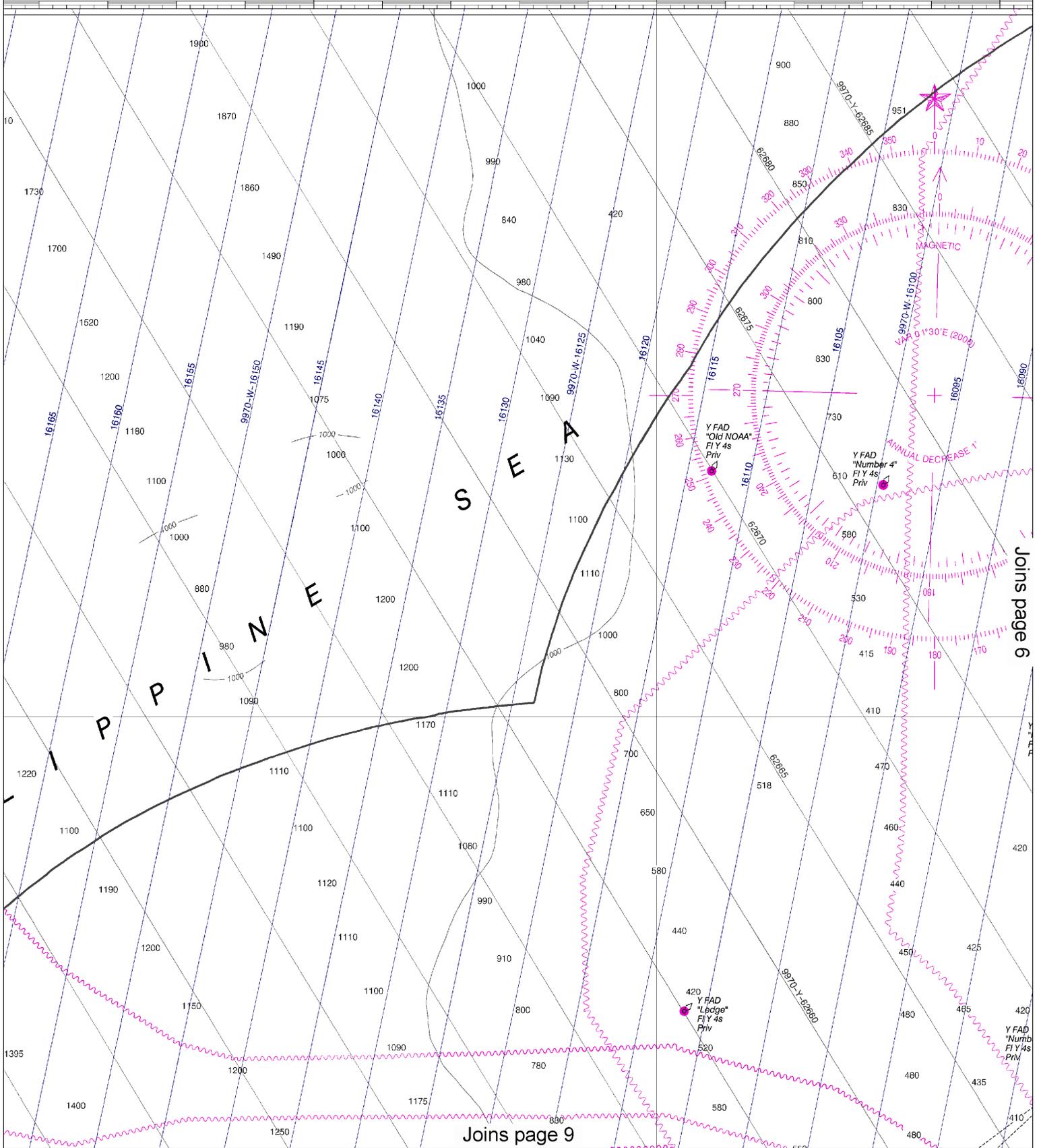
Note: Chart grid lines are aligned with true north.

35'

40'

CONTINUED ON CHART 81004

45'

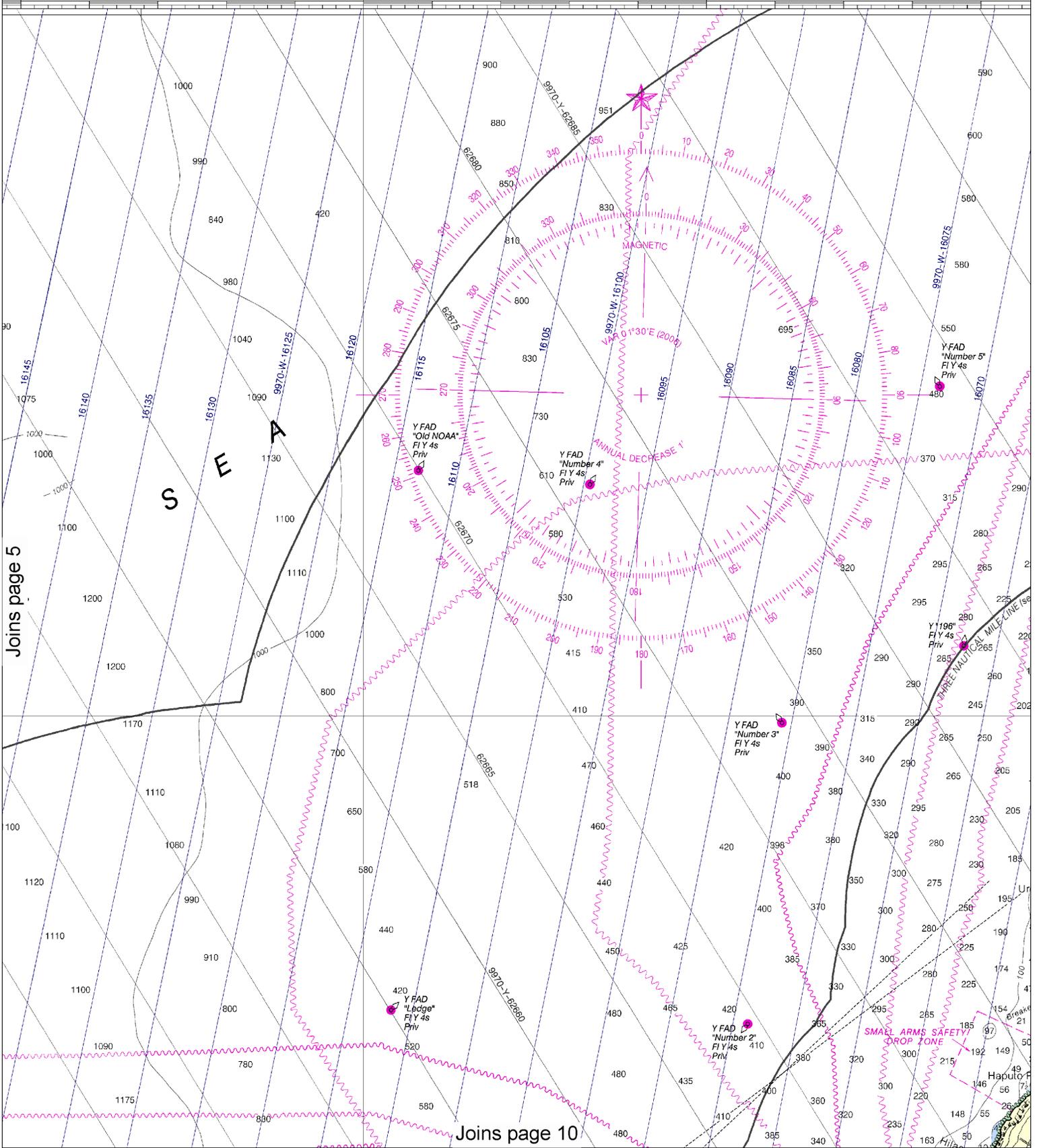


Joins page 6

Joins page 9

This BookletChart was reduced to 75% of the original chart scale.  
 The new scale is 1:133333. Barscales have also been reduced and  
 are accurate when used to measure distances in this BookletChart.





Joins page 5

Joins page 10

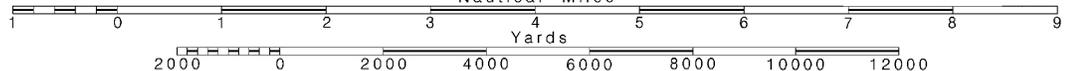


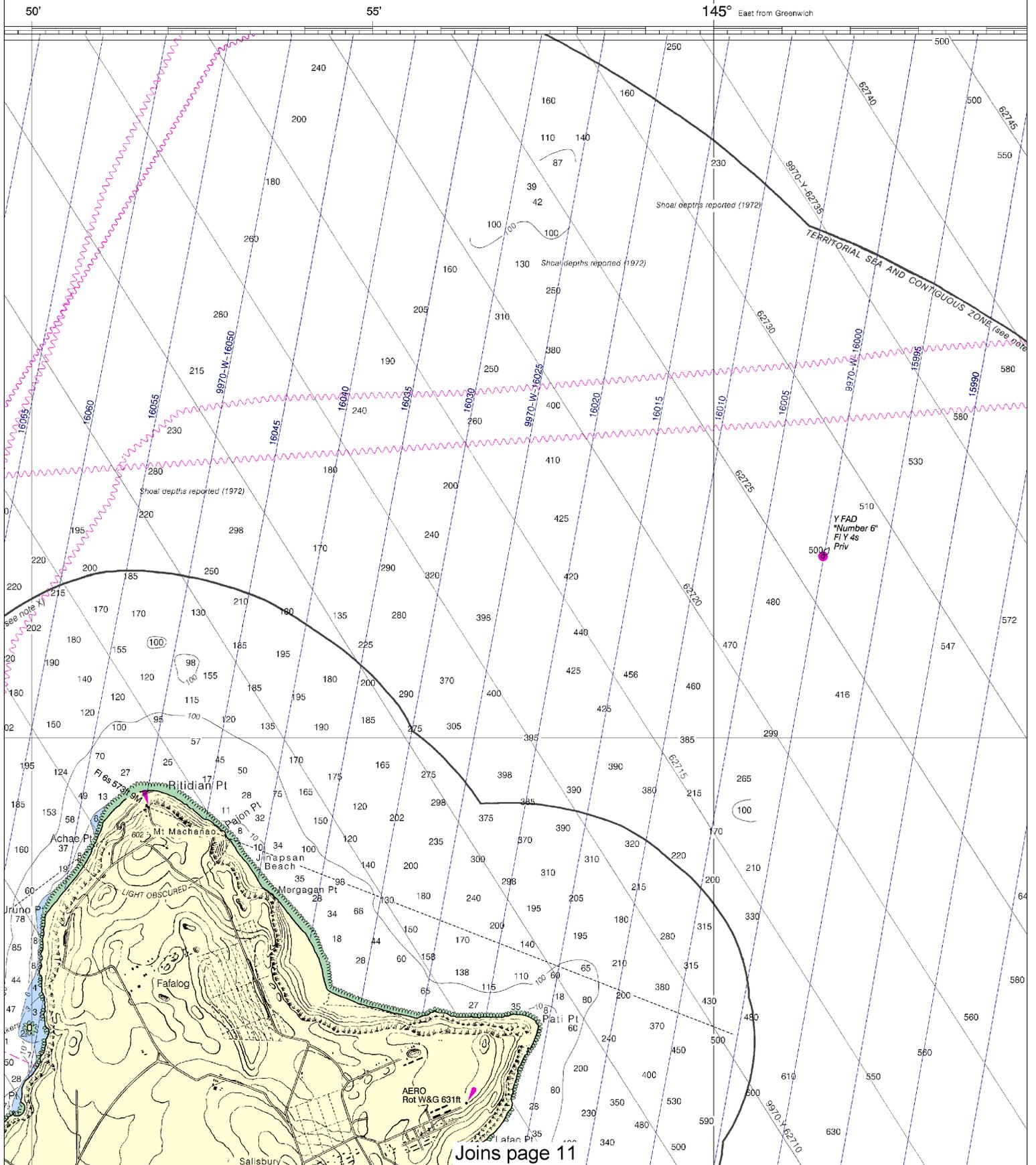
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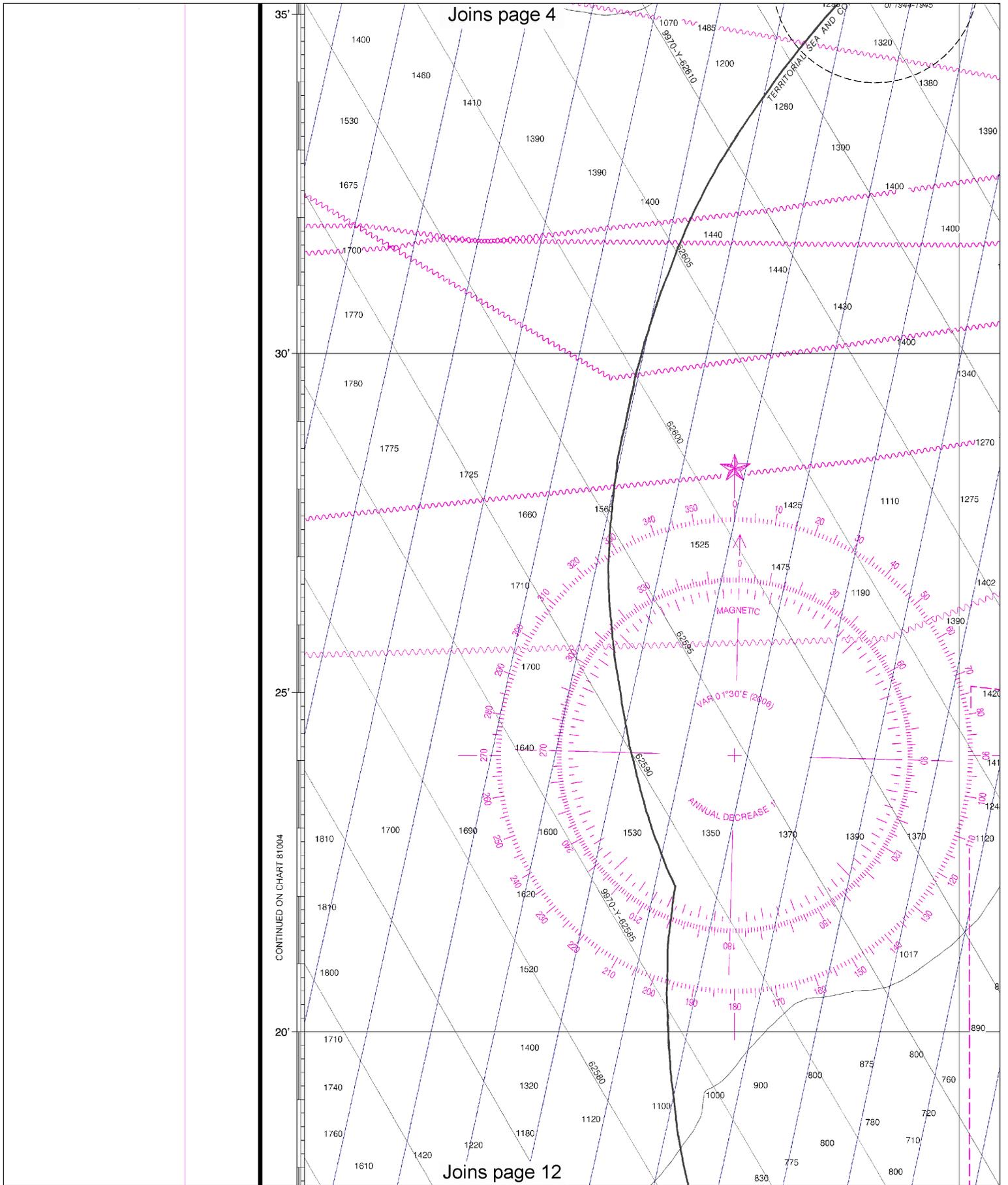
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SCALE 1:100,000 Nautical Miles

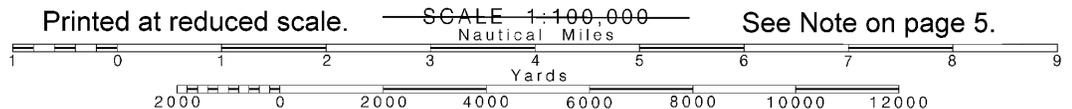
See Note on page 5.

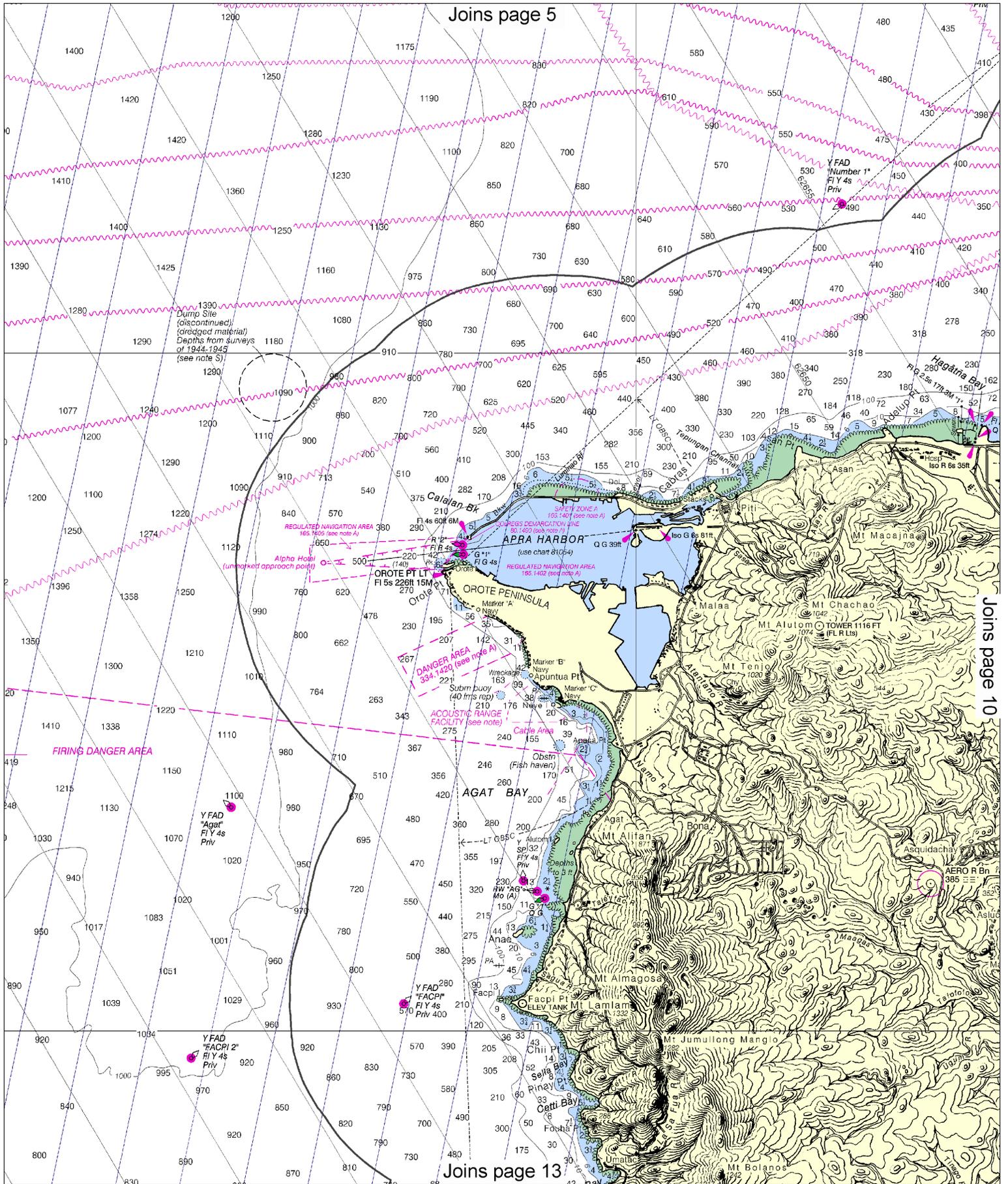


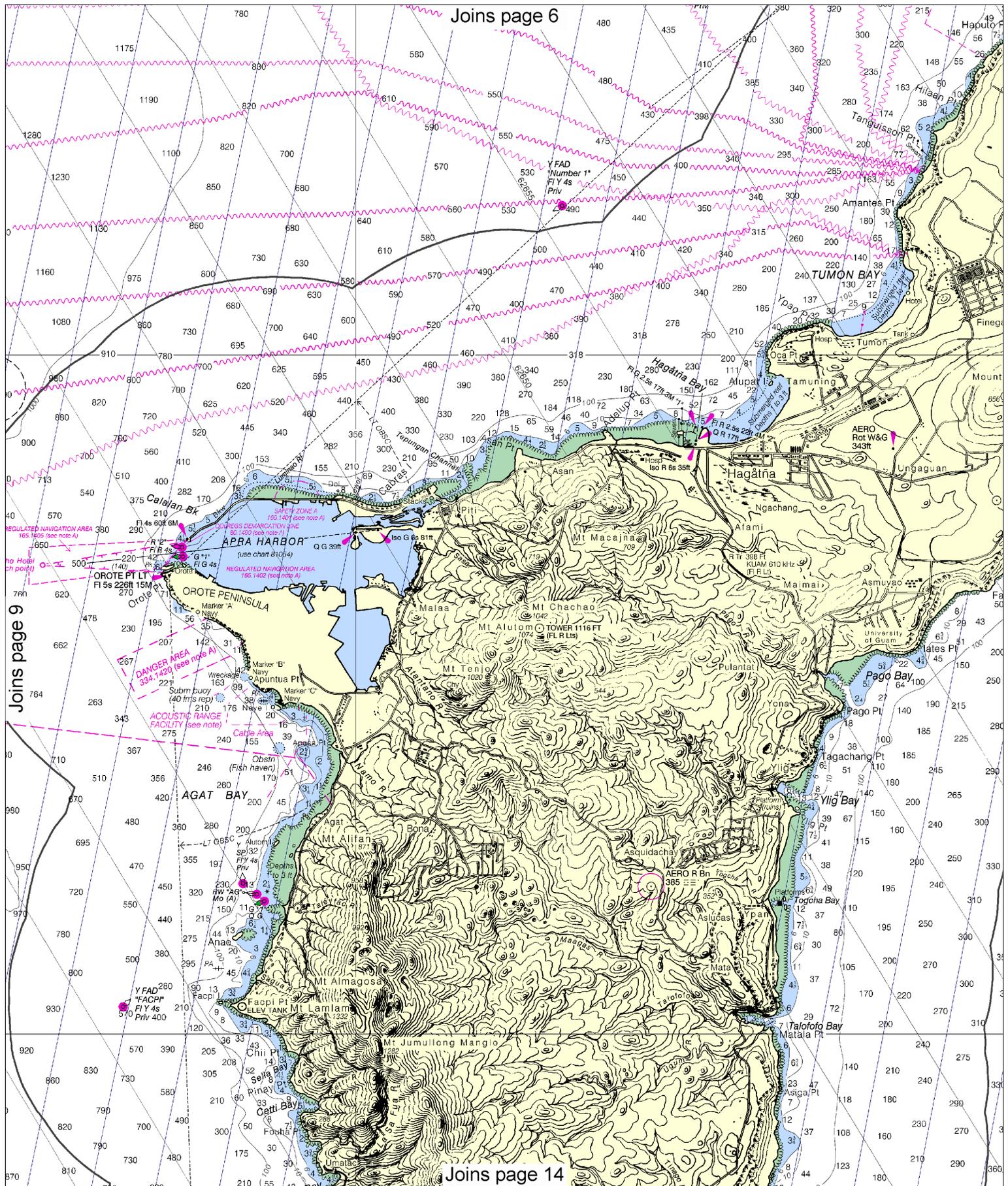




Note: Chart grid lines are aligned with true north.







Joins page 6

Joins page 9

Joins page 14

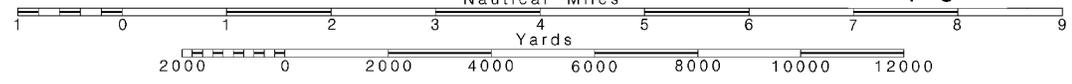
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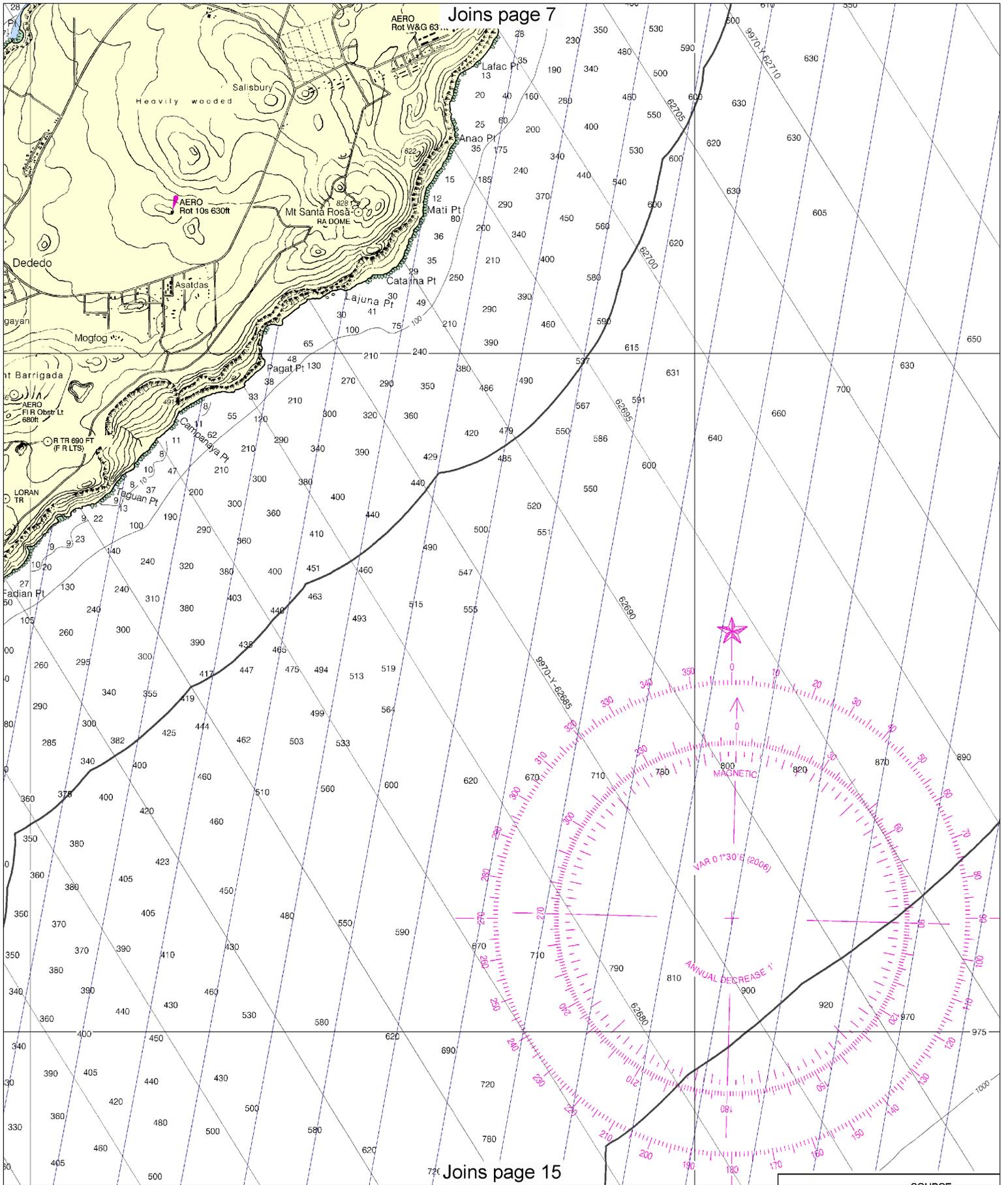
Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

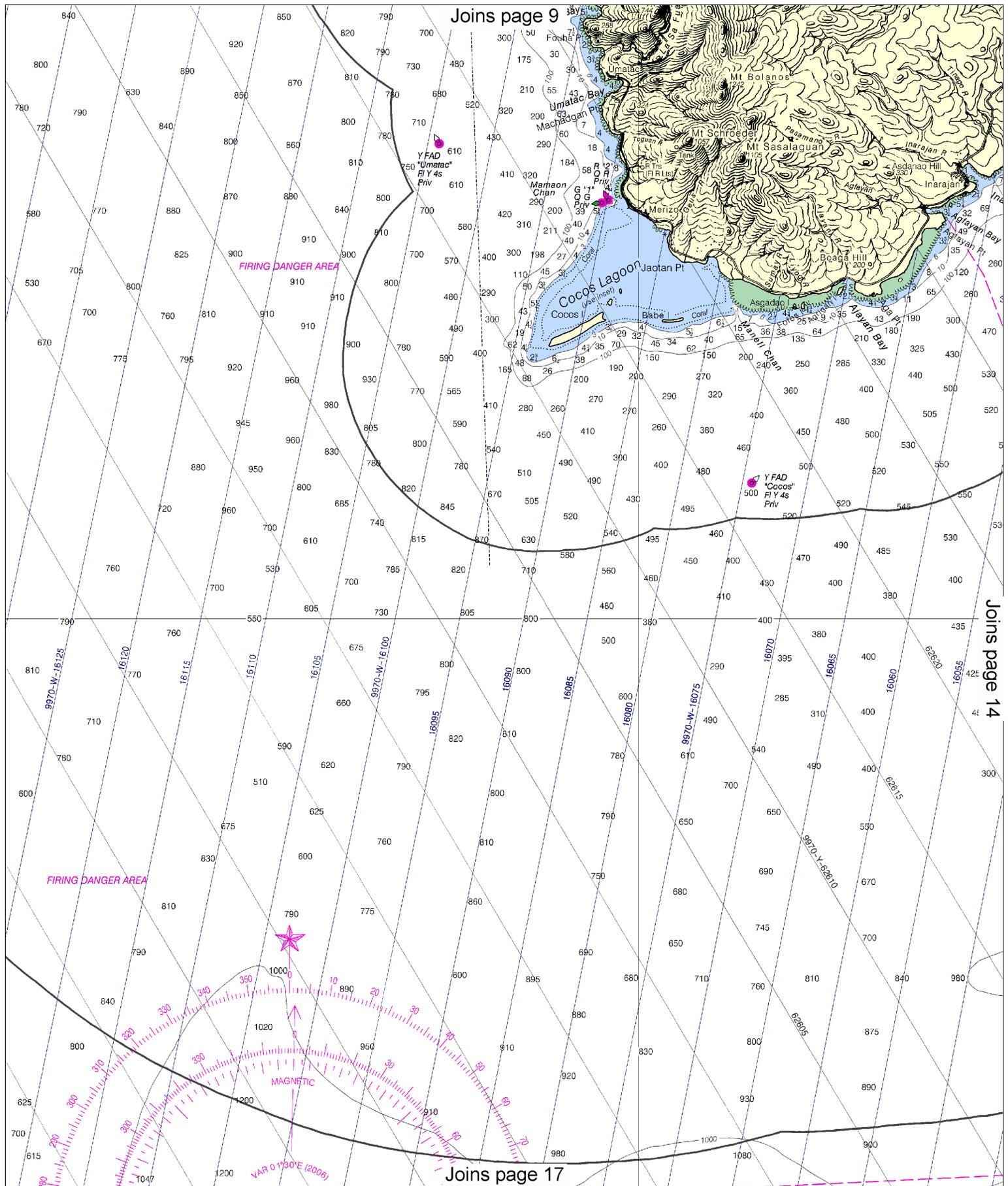
SCALE 1:100,000  
Nautical Miles

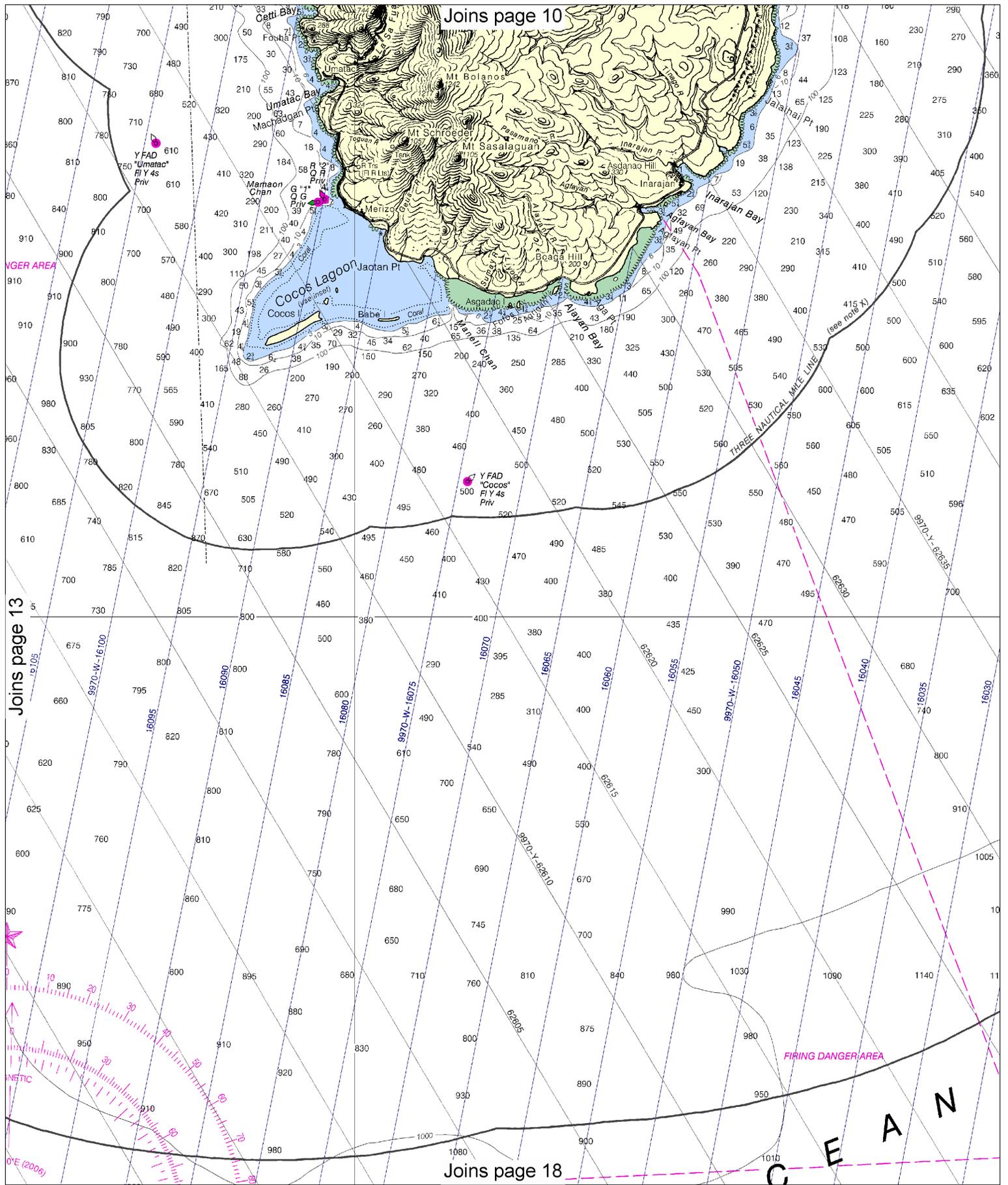
See Note on page 5.











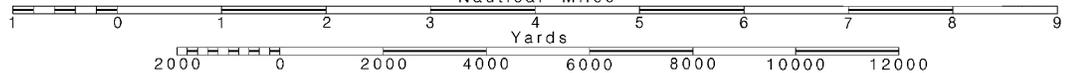
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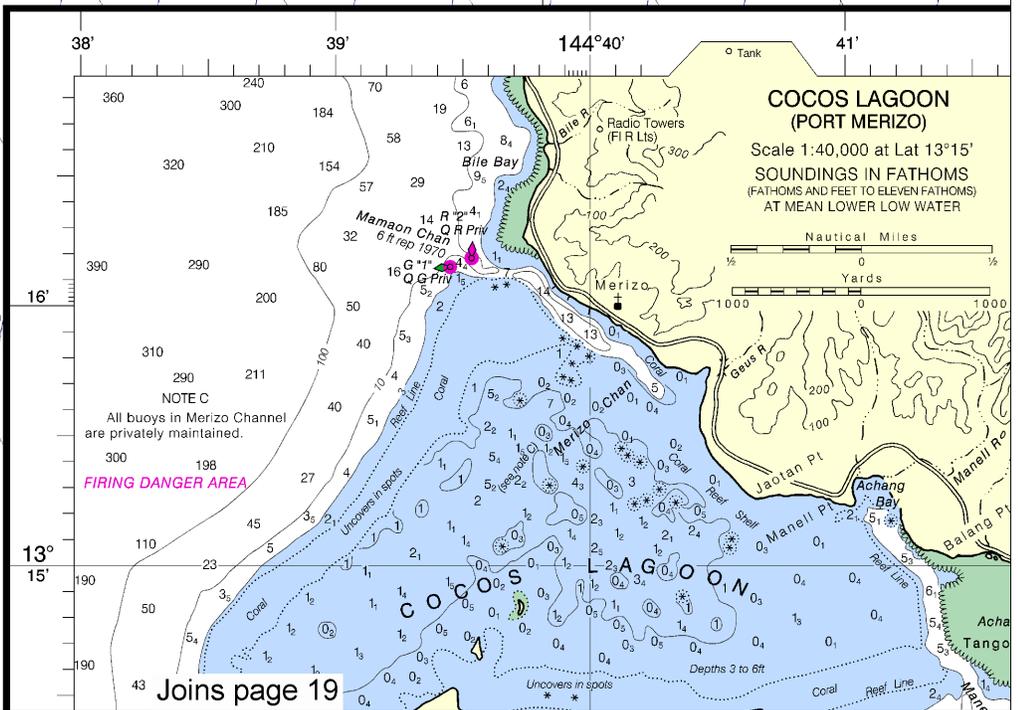
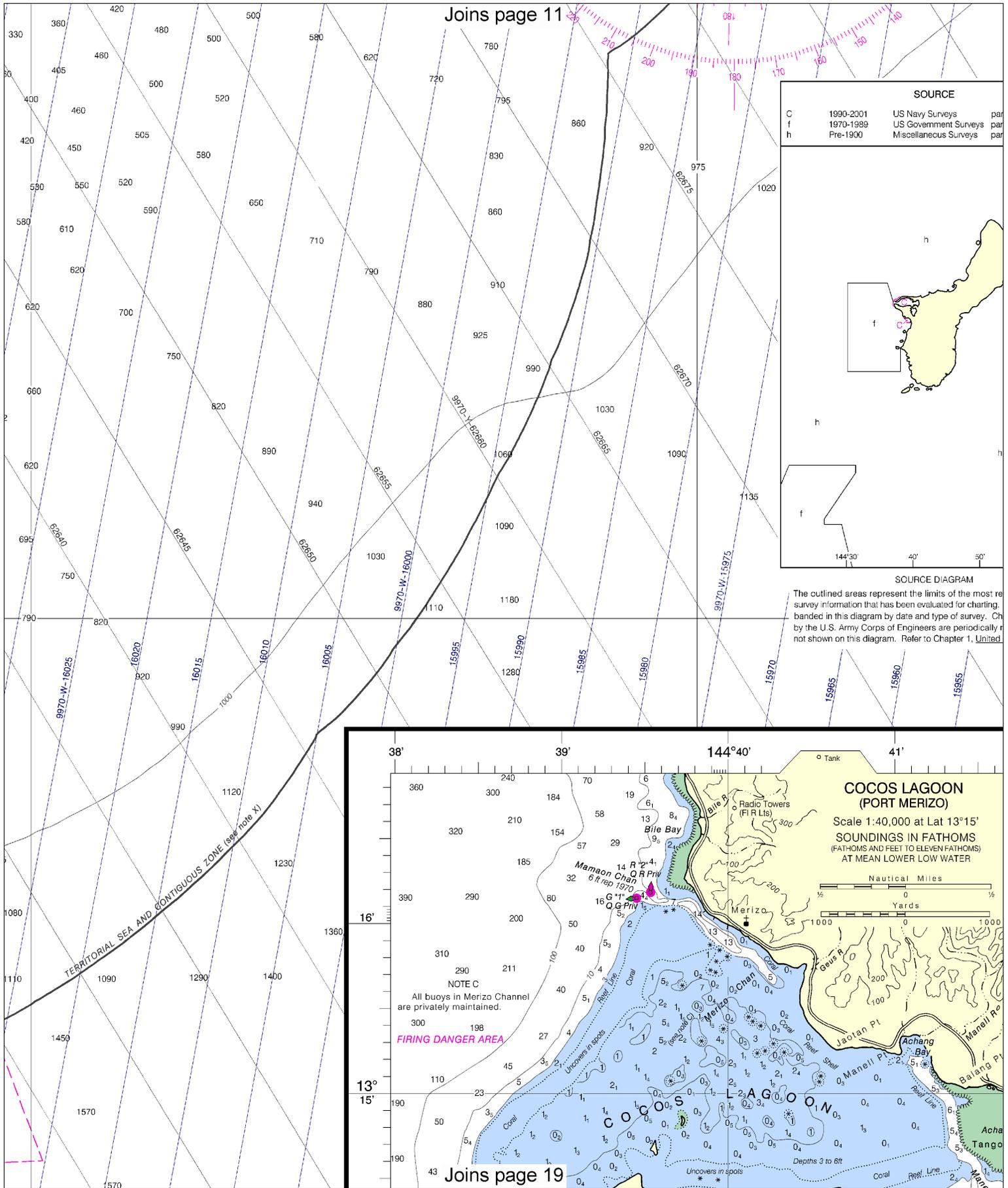
Note: Chart grid lines are aligned with true north.

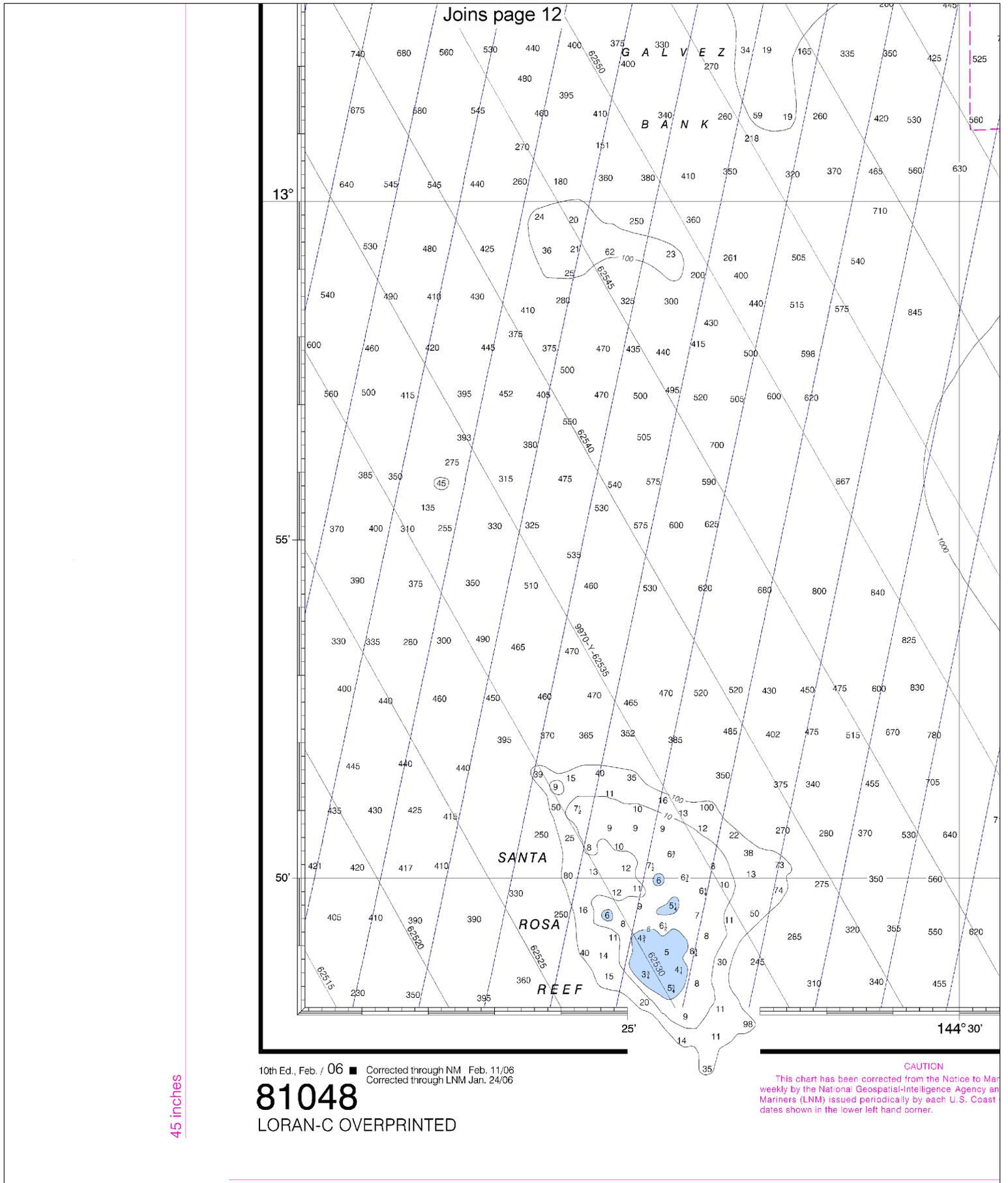
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SCALE 1:100,000  
Nautical Miles

See Note on page 5.



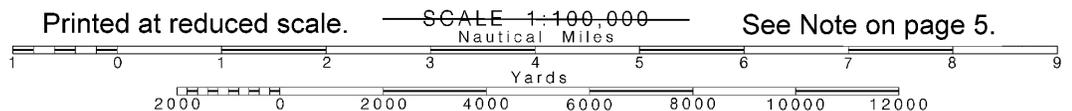


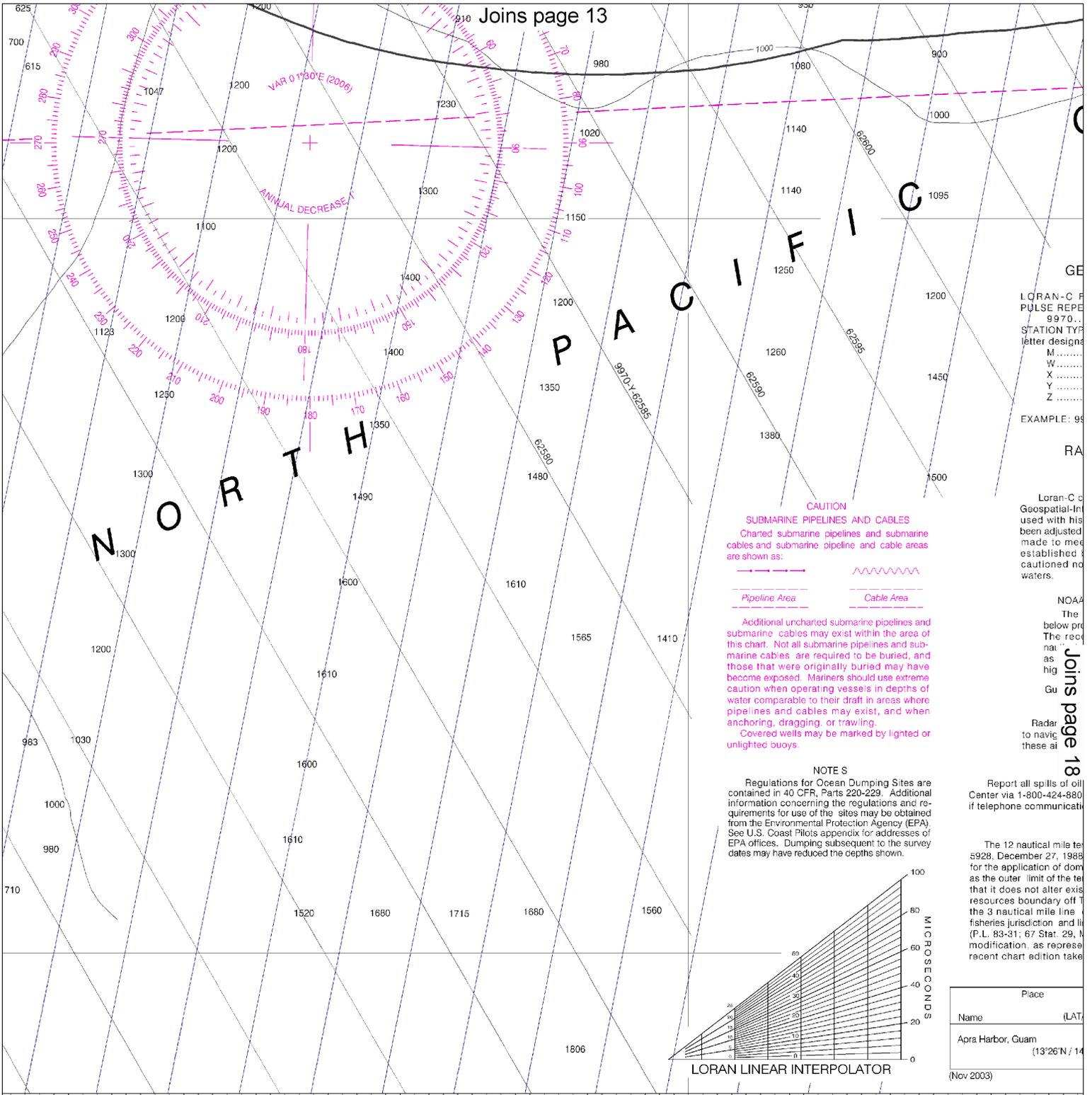


45 inches

**16**

Note: Chart grid lines are aligned with true north.



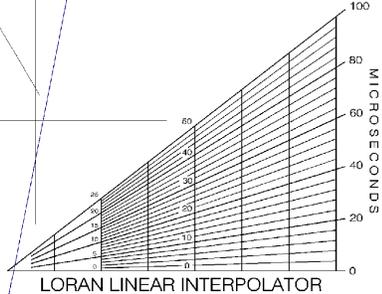


**CAUTION**  
**SUBMARINE PIPELINES AND CABLES**  
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 Pipeline Area     
  Cable Area

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 Covered wells may be marked by lighted or unlighted buoys.

**NOTE S**  
 Regulations for Ocean Dumping Sites are contained in 40 CFR, Parts 220-229. Additional information concerning the regulations and requirements for use of the sites may be obtained from the Environmental Protection Agency (EPA). See U.S. Coast Pilots appendix for addresses of EPA offices. Dumping subsequent to the survey dates may have reduced the depths shown.



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Place
Name (LAT)
Apra Harbor, Guam (13°26'N / 14

(Nov 2003)

CONTINUED ON CHART 81004

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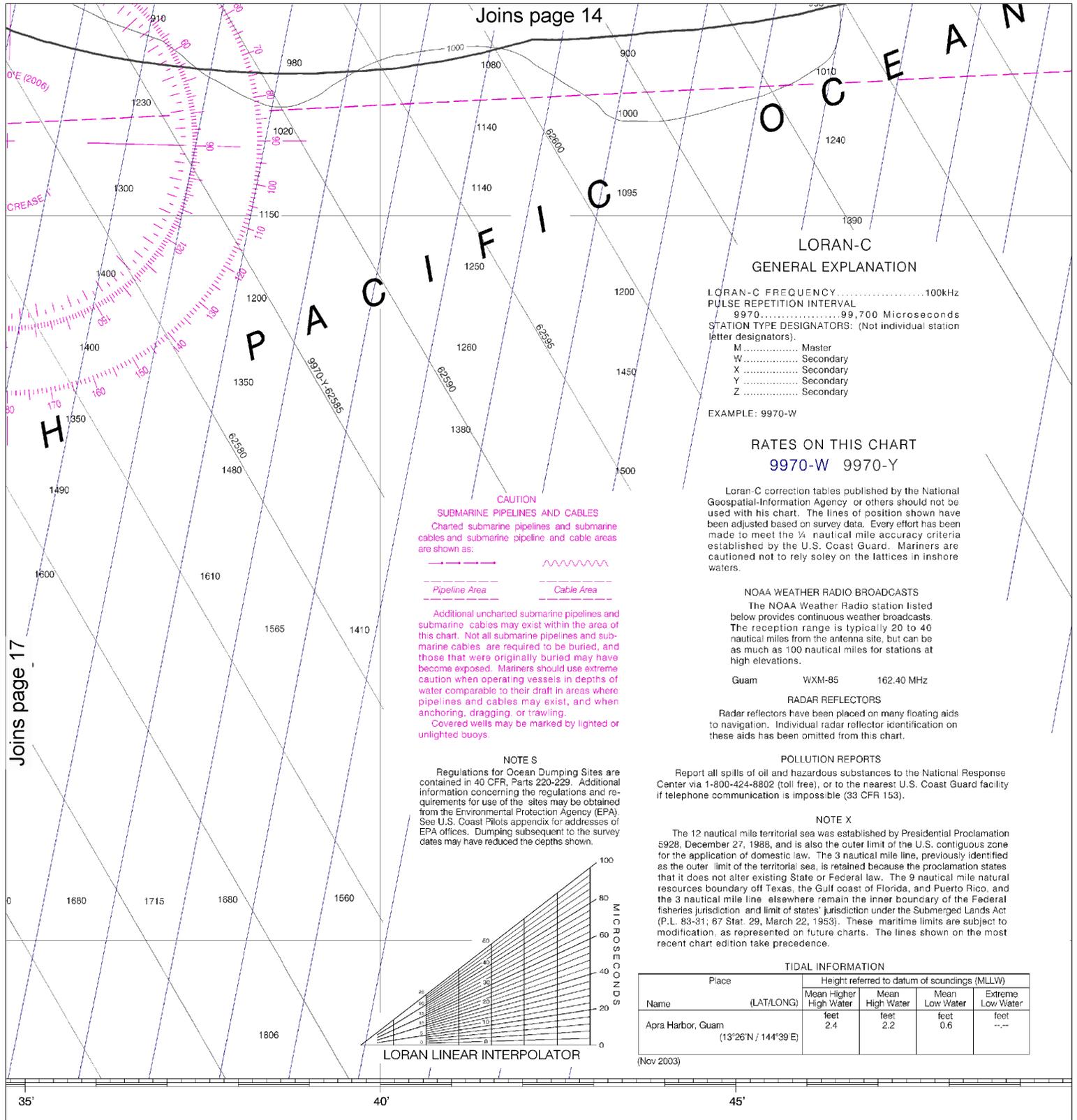
40'

45'

# SOUNDINGS IN FATHOMS

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



Joins page 14

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**LORAN-C  
GENERAL EXPLANATION**

LORAN-C FREQUENCY..... 100kHz  
 PULSE REPETITION INTERVAL  
 9970..... 99,700 Microseconds  
 STATION TYPE DESIGNATORS: (Not individual station letter designators).  
 M..... Master  
 W..... Secondary  
 X..... Secondary  
 Y..... Secondary  
 Z..... Secondary  
 EXAMPLE: 9970-W

**RATES ON THIS CHART  
9970-W 9970-Y**

Loran-C correction tables published by the National Geospatial-Information Agency or others should not be used with this chart. The lines of position shown have been adjusted based on survey data. Every effort has been made to meet the 1/4 nautical mile accuracy criteria established by the U.S. Coast Guard. Mariners are cautioned not to rely solely on the lattices in inshore waters.

**NOAA WEATHER RADIO BROADCASTS**

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Guam WXM-85 162.40 MHz

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**NOTE X**

The 12 nautical mile territorial sea was established by Presidential Proclamation 5928, December 27, 1988, and is also the outer limit of the U.S. contiguous zone for the application of domestic law. The 3 nautical mile line, previously identified as the outer limit of the territorial sea, is retained because the proclamation states that it does not alter existing State or Federal law. The 9 nautical mile natural resources boundary off Texas, the Gulf coast of Florida, and Puerto Rico, and the 3 nautical mile line elsewhere remain the inner boundary of the Federal fisheries jurisdiction and limit of states' jurisdiction under the Submerged Lands Act (P.L. 83-31; 67 Stat. 29, March 22, 1953). These maritime limits are subject to modification, as represented on future charts. The lines shown on the most recent chart edition take precedence.

**TIDAL INFORMATION**

Name	Place (LAT/LONG)	Height referred to datum of soundings (MLLW)			
		Mean Higher High Water	Mean High Water	Mean Low Water	Extreme Low Water
Apra Harbor, Guam	(13°26'N / 144°39' E)	feet 2.4	feet 2.2	feet 0.6	feet ---

(Nov 2003)

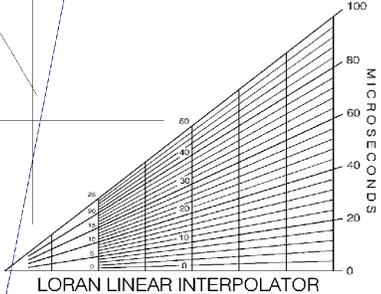
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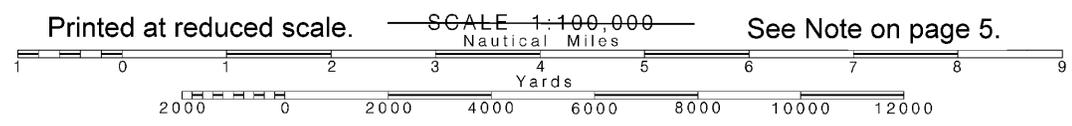
**SOUNDINGS IN FATHOMS**

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

**PRINT-ON-DEMAND CHARTS**  
 NOAA and its partner, OceanGrafix, offer this chart updated and critical corrections. Charts are printed when ordered using Editions are available 5-8 weeks before their release as traditional about Print-on-Demand charts or contact NOAA at 1-800-58 help@NauticalCharts.gov, or OceanGrafix at 1-877-560CHelp@OceanGrafix.com.

**18**

Note: Chart grid lines are aligned with true north.







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>
- Online chart viewer — <http://www.nauticalcharts.noaa.gov/mcd/NOAChartViewer.html>
- 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 @nauticalcharts



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.

