

BookletChart™

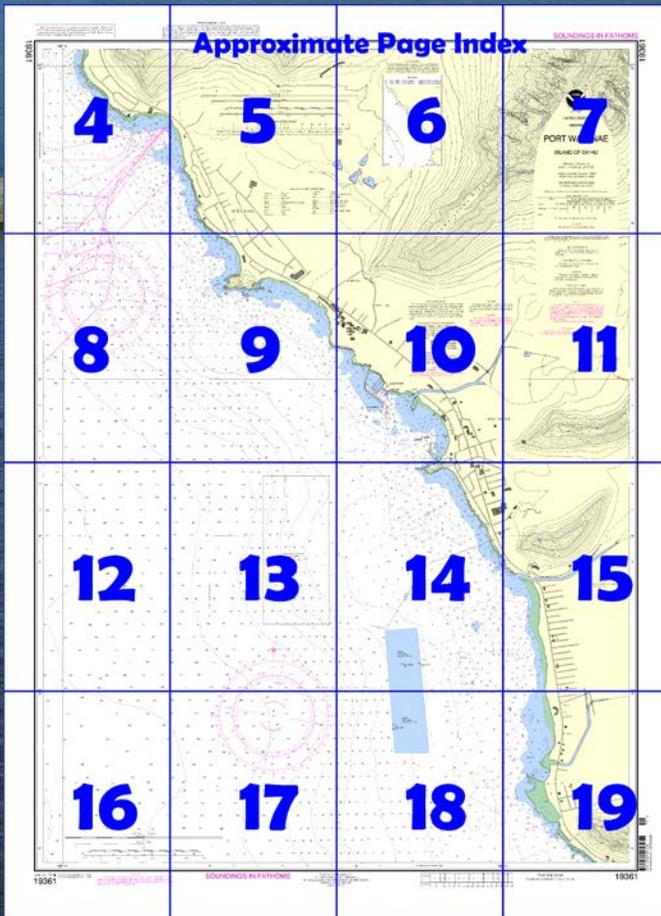


Port Wai'anae NOAA Chart 19361

*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
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.

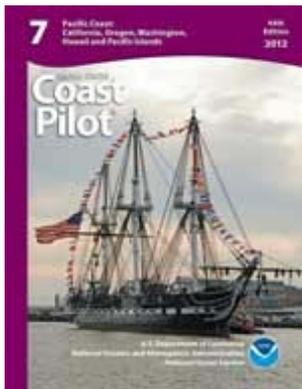
Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

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=19361>.



(Selected Excerpts from Coast Pilot)
Lualuae Homestead tracts are N and NE of Puu o Hulu. Two 1,500-foot radio towers are prominent in the valley.
Puu Maililiii, about 2 miles N of Puu o Hulu, is a narrow, rocky ridge, 723 feet high, near the shore and approximately at right angles with it.
Low Kaneilio Point, 10 miles NW of Kalaeloa, projects 0.2 mile from the general coastline. A fish haven consisting of old auto bodies is 1 mile S of the point. Between Puu o Hulu and Kaneilio Point the light-colored buildings of a limekiln 0.3 mile inland show up against a dark

background. In 1999, suspected live ordnance was reported about 2 miles SW of Kaneilio Point inside the following coordinates: 21°26'23"N., 158°12'11"W.; 21°26'23"N., 158°12'38"W.; 21°25'26"N., 158°12'38"W.; 21°25'26"N., 158°12'11"W.

Pokai Bay, on the NW side of Kaneilio Point, is the seaward approach to **Waianae**. Shallow water extends 0.3 mile from the inner shore of the bay. The breakwater extending N from Kaneilio Point and the opposing boulder groin from the inner shore form a State water recreation area. Piles are about midway between the breakwater and the shore. The area E of the piles is for swimming, and the area between the piles and the breakwater is for outrigger canoes. No person shall operate, anchor or moor any other vessel in the area between the piles and the breakwater except in adverse weather conditions when emergency anchoring is permitted.

Waianae Boat Harbor, 0.5 mile NW of Kaneilio Point, is owned and operated by the State of Hawaii. The harbor is used primarily by fishing boats. The harbor is entered from the SE between two breakwaters. The harbor is protected on the W side by a 1,690-foot-long L-shaped breakwater, marked on its seaward end by a light, and on the NE side at the entrance by a 220-foot-long stub breakwater. A **003°-183°** lighted range marks the entrance approach. In 2006, the controlling depths were 8 feet in the entrance channel to a turning basin, thence 12 feet was available in the basin (except for lesser depths to 10 feet in the NE corner), thence 11 feet in the main access channel along the L-shaped breakwater. Berthage, water, and two double launching ramps are available at the harbor. Waianae harbormaster has scheduled daytime hours (0745 to 1630) Tuesdays through Saturdays; phone numbers are: 808-697-7095 (business) and 808-851-1839 or 808-696-9921 (emergency or after hours); 808-594-0849 (fax).

Local magnetic disturbance.—Differences of 2° or more from normal variation may be expected in Pokai Bay.

A deep valley extends about 4 miles inland between Puu o Hulu and Lahilahi Point and is the largest valley on this side of the Waianae Range. The broken ridge which makes down to Puu Paheehee divides the valley. **Puu Paheehee**, 652 feet high, is about 1 mile inland from Waianae.

Lahilahi Point, 1.7 miles NW of Kaneilio Point, is a detached, steep ridge of dark rock, 234 feet high. This narrow, conspicuous point, projecting seaward about 0.2 mile, has the appearance of an islet from a distance and is known to local fishermen as **Black Rock**. An apartment building on the beach 250 yards N of the point and a hotel about 1.2 miles NNE of the point are good landmarks.

Kepuhi Point, 13 miles NW of Kalaeloa, is a few hundred yards from the seaward end of a bold, rocky, mountain spur.

**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

Corrected through NM Mar. 06/10
Corrected through LNM Feb. 23/10

HEIGHTS
Heights in feet above Mean High Water.

Mercator Projection
Scale 1:10,000 at Lat 21°27'

World Geodetic System 1984
(North American Datum of 1983)

SOUNDINGS IN FATHOMS
AT MEAN LOWER LOW WATER

NOTE D
Submerged submarine operations are conducted at various times in the waters contained on this chart. Proceed with caution.

CAUTION
Mariners are urged to exercise extreme caution when transiting inshore waters due to changes caused by the hurricane of November 1982.

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

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

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.

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.

Mt Kaala, HI	KBA-99	162.55 MHz
Hawaii Kai, HI	KBA-99	162.40 MHz

For Symbols and Abbreviations see Chart No. 1

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.

NOTE C
Mariners are cautioned not to anchor within 600 yards of the sewer line.

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.

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). Geographic positions referred to the Old Hawaiian Datum must be corrected an average of 11.388" southward and 9.906" eastward to agree with this chart.

NOTE B
LOCAL MAGNETIC DISTURBANCE
Differences of 2° or more from normal variation may be expected in Pōka-T Bay in the vicinity of Wai'anae.

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.
Refer to charted regulation section numbers.

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).

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

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.

TIDAL INFORMATION

PLACE	Height referred to datum of soundings (MLLW)	Height referred to datum of soundings (MLLW)		
		Mean Higher High Water	Mean High Water	Mean Low Water
Wai'anae	(21°27' N/158°12' W)	1.8 feet	1.4 feet	0.2 feet

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>. (Feb 2010)

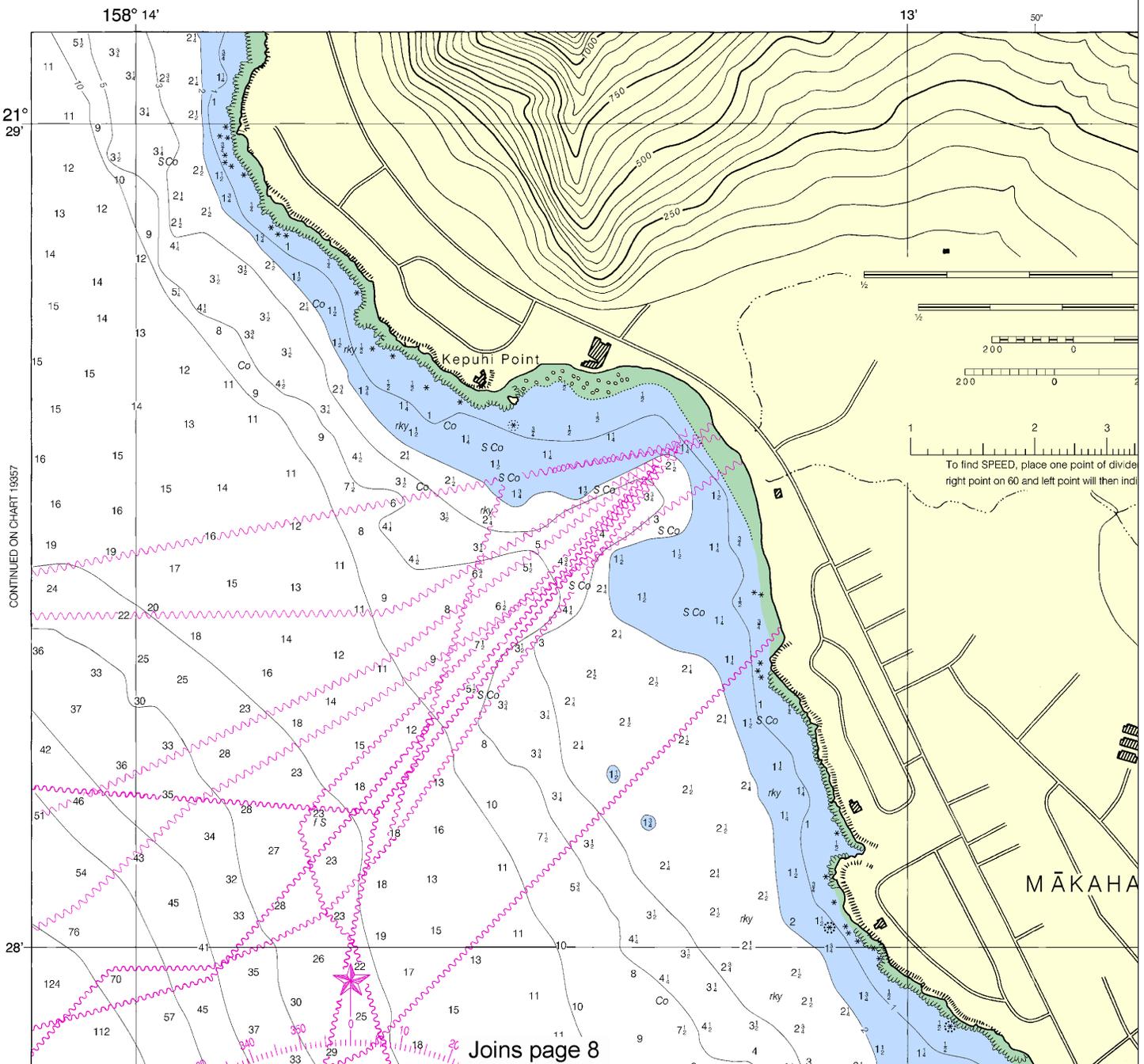
HAWAIIAN-ENGLISH TRANSLATIONS

Hawaiian	English	Hawaiian	English
Akai	north	Kowa	channel, strait, sound
Awa	bay, cove	Lae	point, cape
Hana	bay	Lua	crater, pit
Heiau	place of worship, temple	Mauna	mountain, hill, peak
Homa	south	Moku	island, islet, rock
Hikina	east	Pali	cliff, peak, point
Hono	cove, bay	Pohaku	rock
Kai	sea	Puu	mountain, hill(s), peak
Komohana	west	Wai	water

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This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

PRINT-ON-DEMAND CHARTS
NOAA and its partner, OceanGrafix, offer this chart updated weekly by NOAA for Notices to Mariners and critical corrections. Charts are printed when ordered using Print-on-Demand technology. Editions are available 2-8 weeks before their release as traditional NOAA charts. Ask your chart agent about Print-on-Demand charts or contact NOAA at <http://ocsddata.ncd.noaa.gov/idrs/inquiry> or OceanGrafix at 1-877-56CHART or <http://www.oceangrafix.com>.



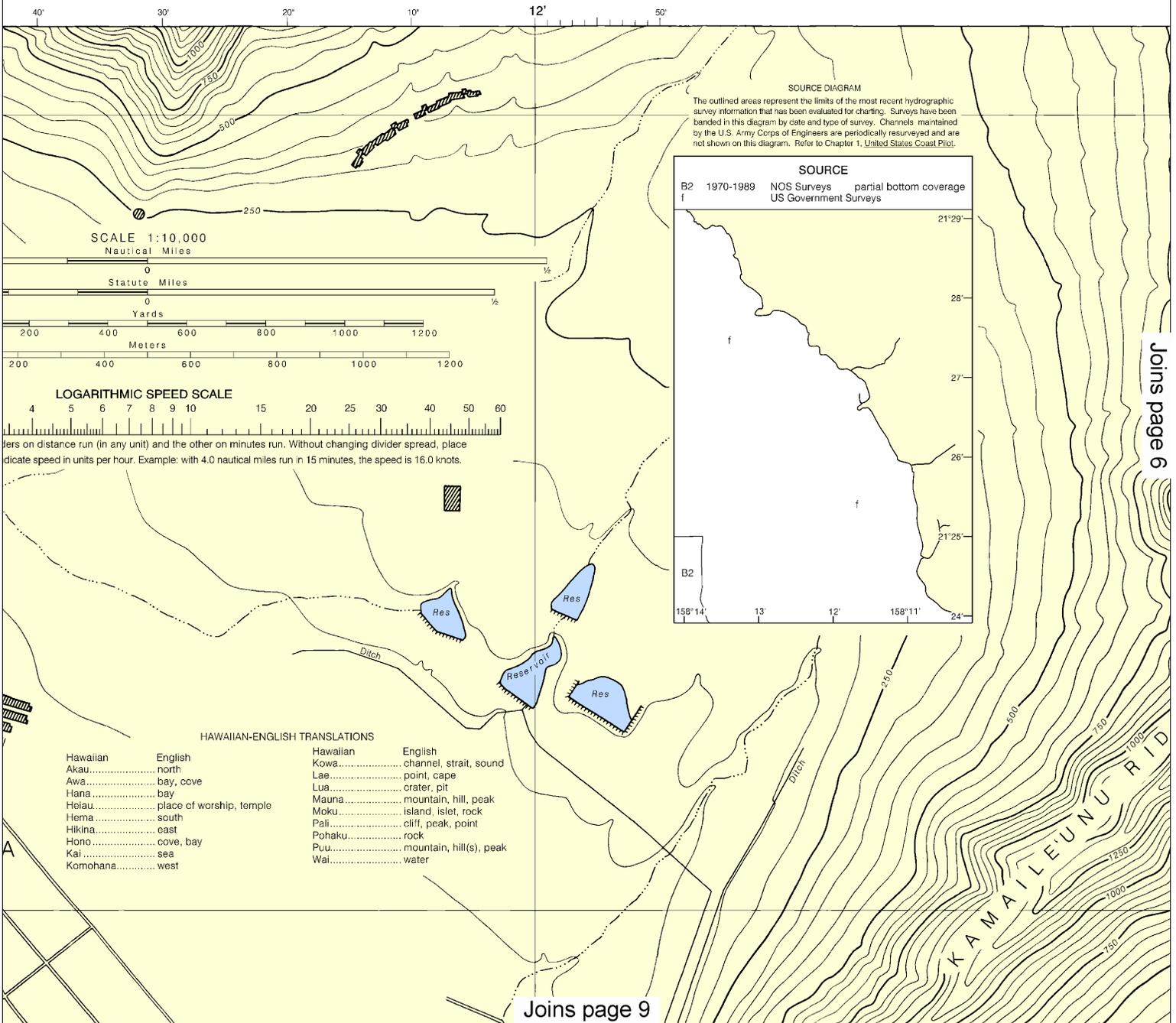
4

Note: Chart grid lines are aligned with true north.

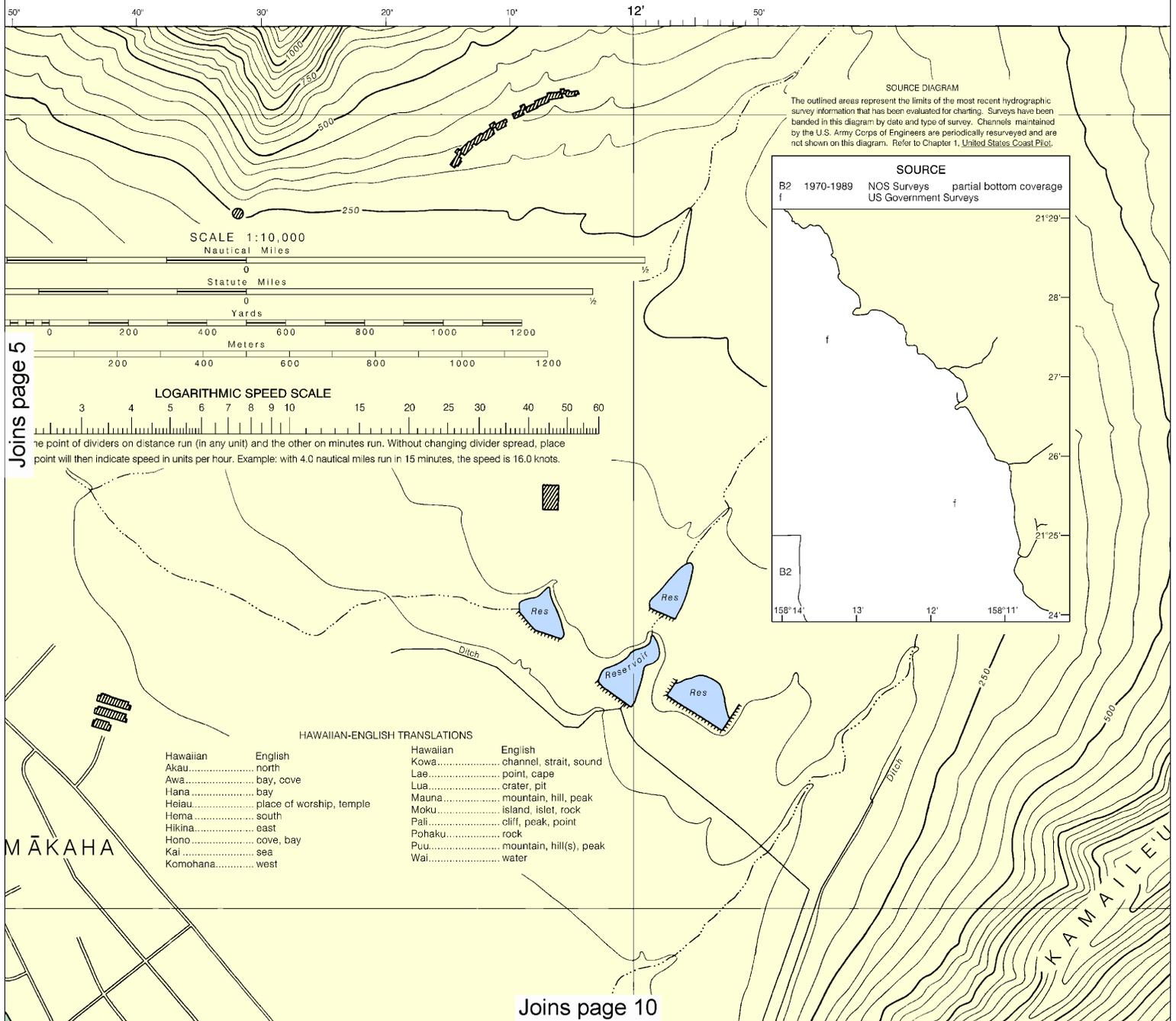
Printed at reduced scale. — SCALE 1:10,000 —

See Note on page 5.





This BookletChart was reduced to 75% of the original chart scale. The new scale is 1:13333. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.



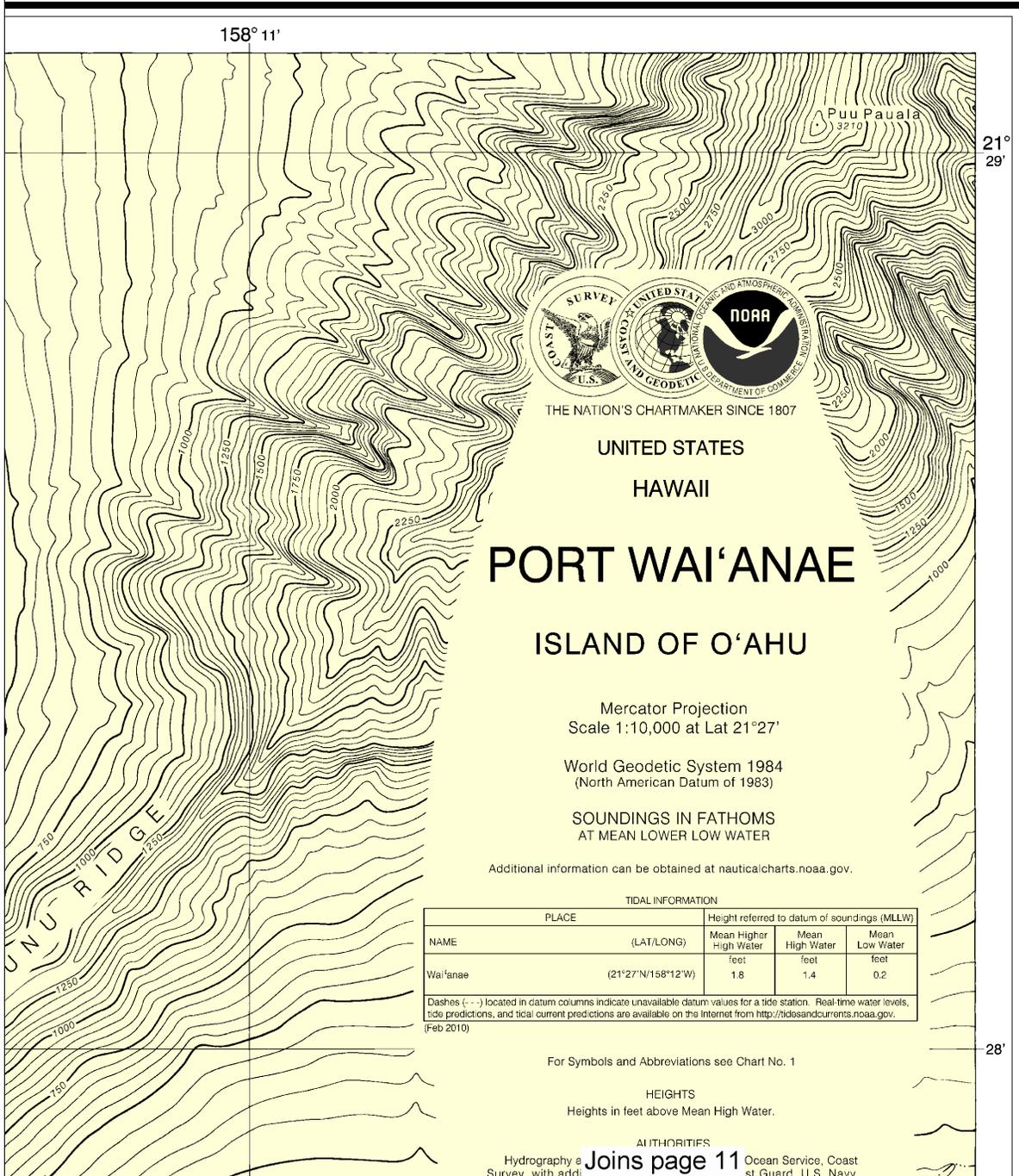
Note: Chart grid lines are aligned with true north.

Printed at reduced scale. — SCALE 1:10,000 —
Nautical Miles

See Note on page 5.



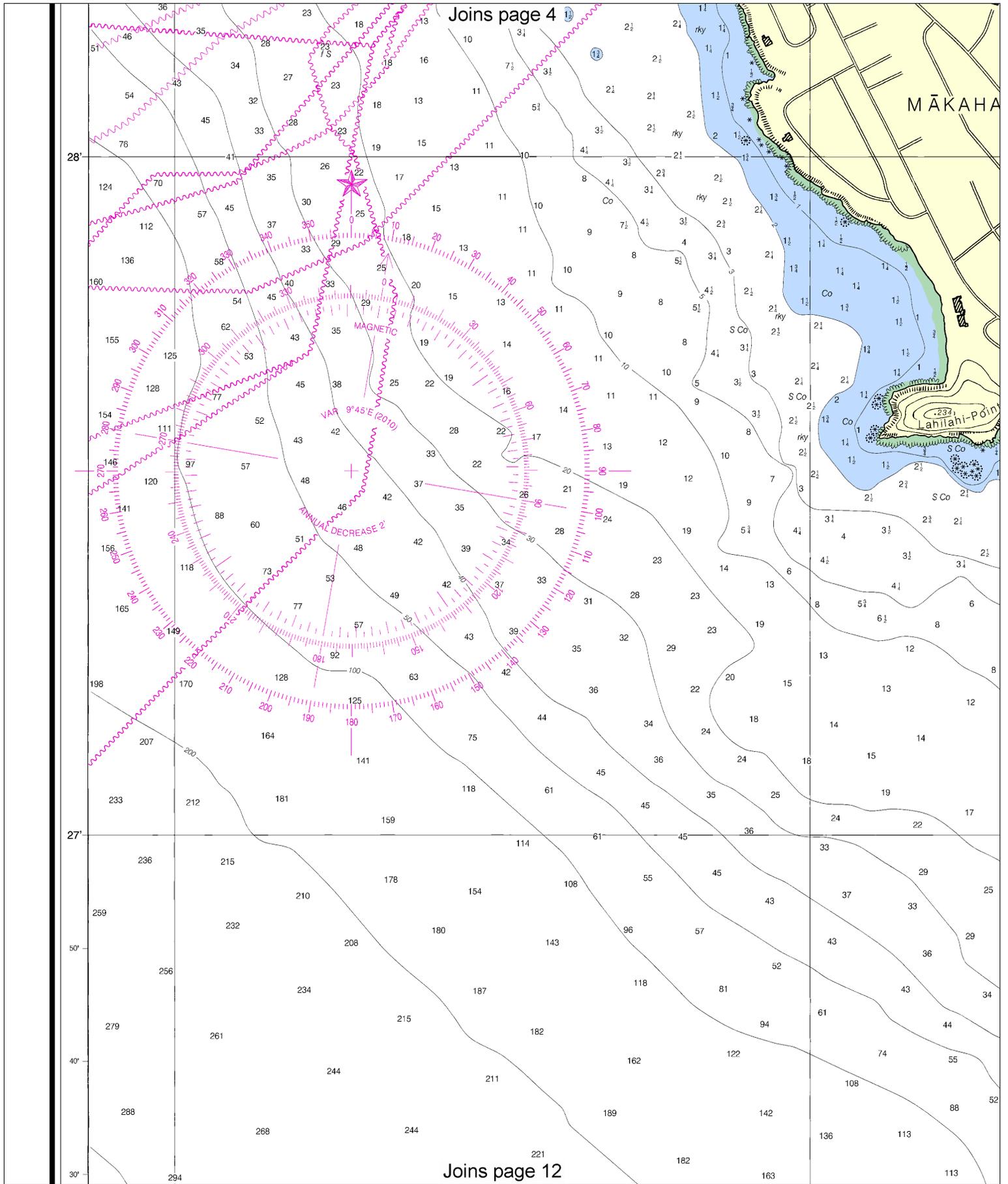
SOUNDINGS IN FATHOMS



19361

This BookletChart has been updated through: Coast Guard Local Notice To Mariners: 4812 11/27/2012,
 NGA Weekly Notice to Mariners: 4912 12/8/2012,
 Canadian Coast Guard Notice to Mariners: n/a.

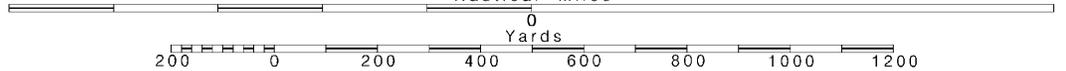


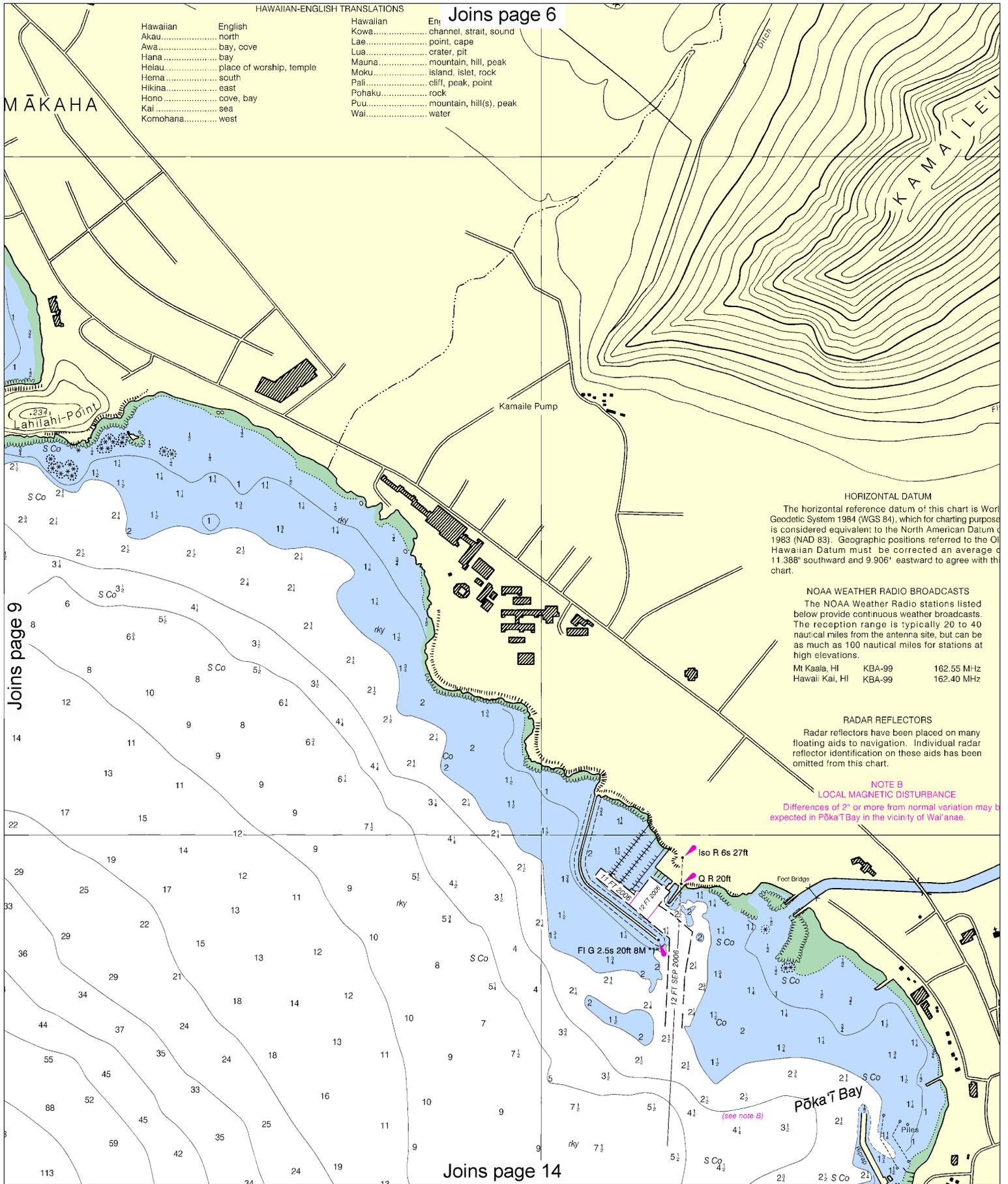


Note: Chart grid lines are aligned with true north.

Printed at reduced scale. — SCALE 1:10,000 —

See Note on page 5.





MĀKAHA

HAWAIIAN-ENGLISH TRANSLATIONS

Hawaiian	English	Hawaiian	English
Akai	..... north	Kowa	..... channel, strait, sound
Awa	..... bay, cove	Lae	..... point, cape
Hana	..... bay	Lua	..... crater, pit
Heiau	..... place of worship, temple	Mauna	..... mountain, hill, peak
Hema	..... south	Moku	..... island, islet, rock
Hikina	..... east	Pali	..... cliff, peak, point
Hono cove, bay	Pohaku rock
Kai sea	Puu mountain, hill(s), peak
Komohana west	Wai water

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Joins page 9

Joins page 14

HORIZONTAL DATUM
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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.

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Hawaii Kai, HI	KBA-99	162.40 MHz

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.

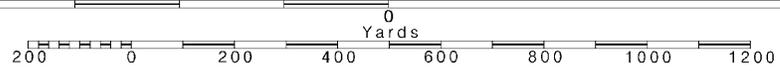
NOTE B LOCAL MAGNETIC DISTURBANCE
 Differences of 2° or more from normal variation may be expected in Pōka T Bay in the vicinity of Wai'anae.

10

Note: Chart grid lines are aligned with true north.

Printed at reduced scale. SCALE 1:10,000 Nautical Miles

See Note on page 5.



TIDAL INFORMATION

PLACE	Height referred to datum of soundings (MLLW)	Height referred to datum of soundings (MLLW)		
		Mean Higher High Water	Mean High Water	Mean Low Water
NAME (LAT/LONG)	feet	feet	feet	feet
Wai'anae (21°27'N/158°12'W)	1.8	1.4	0.2	

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>. (Feb 2010)

For Symbols and Abbreviations see Chart No. 1

HEIGHTS

Heights in feet above Mean High Water.

AUTHORITIES

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

AIDS TO NAVIGATION

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

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 7 for important supplemental information.

CAUTION

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

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 A

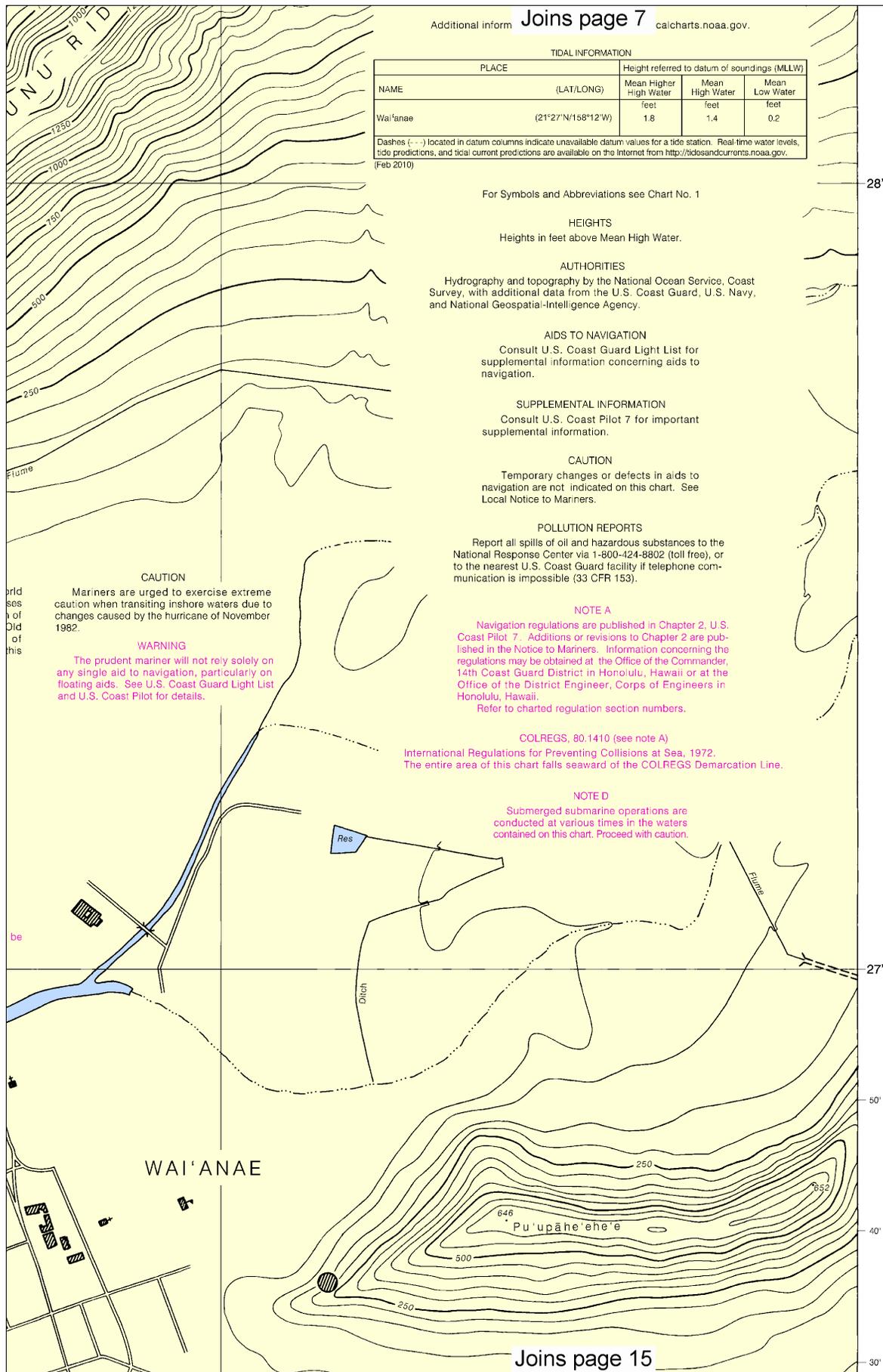
Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 14th Coast Guard District in Honolulu, Hawaii or at the Office of the District Engineer, Corps of Engineers in Honolulu, Hawaii.
Refer to charted regulation section numbers.

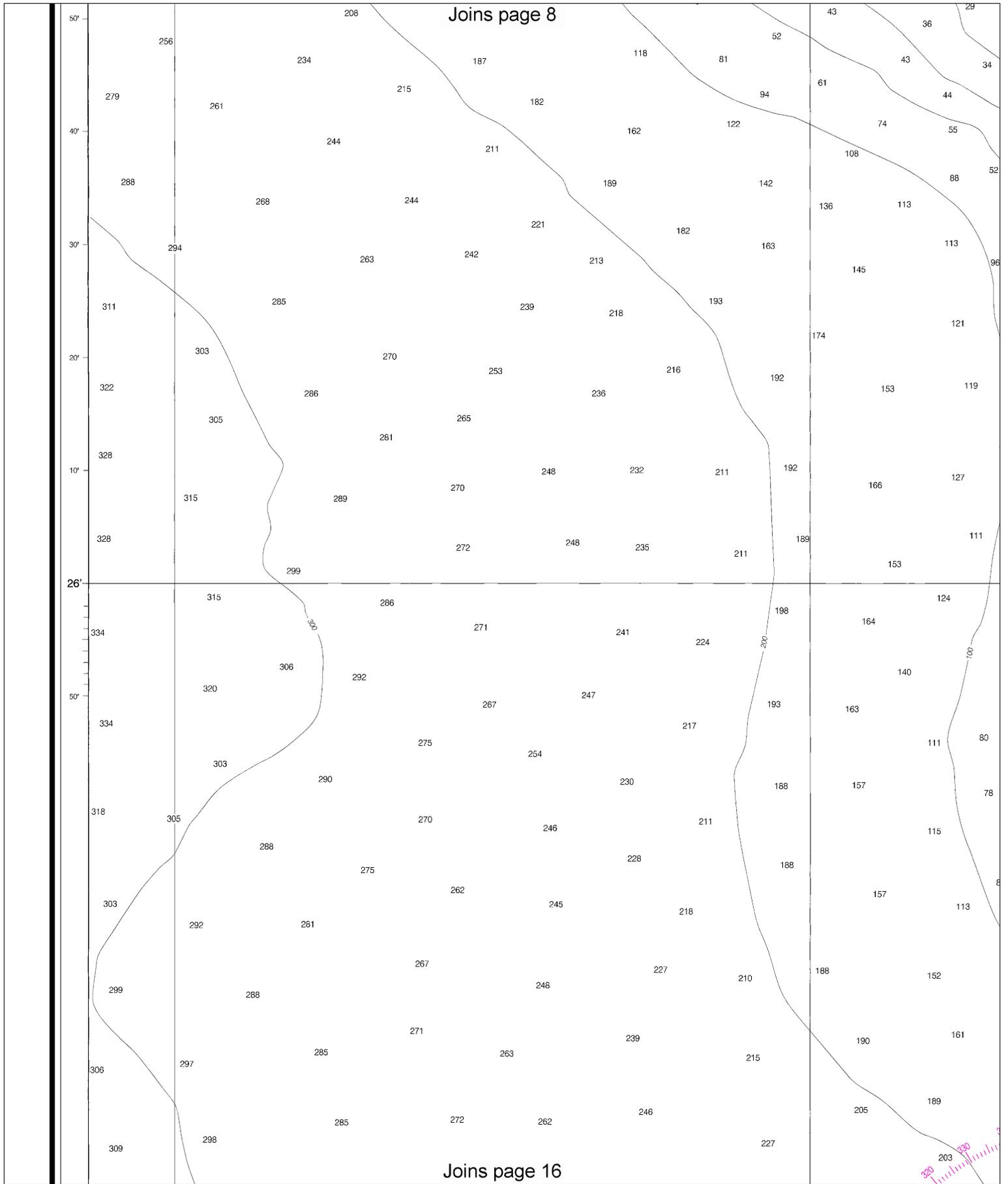
COLREGS, 80.1410 (see note A)

International Regulations for Preventing Collisions at Sea, 1972. The entire area of this chart falls seaward of the COLREGS Demarcation Line.

NOTE D

Submerged submarine operations are conducted at various times in the waters contained on this chart. Proceed with caution.



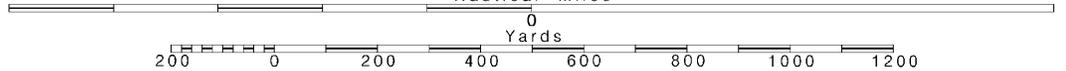


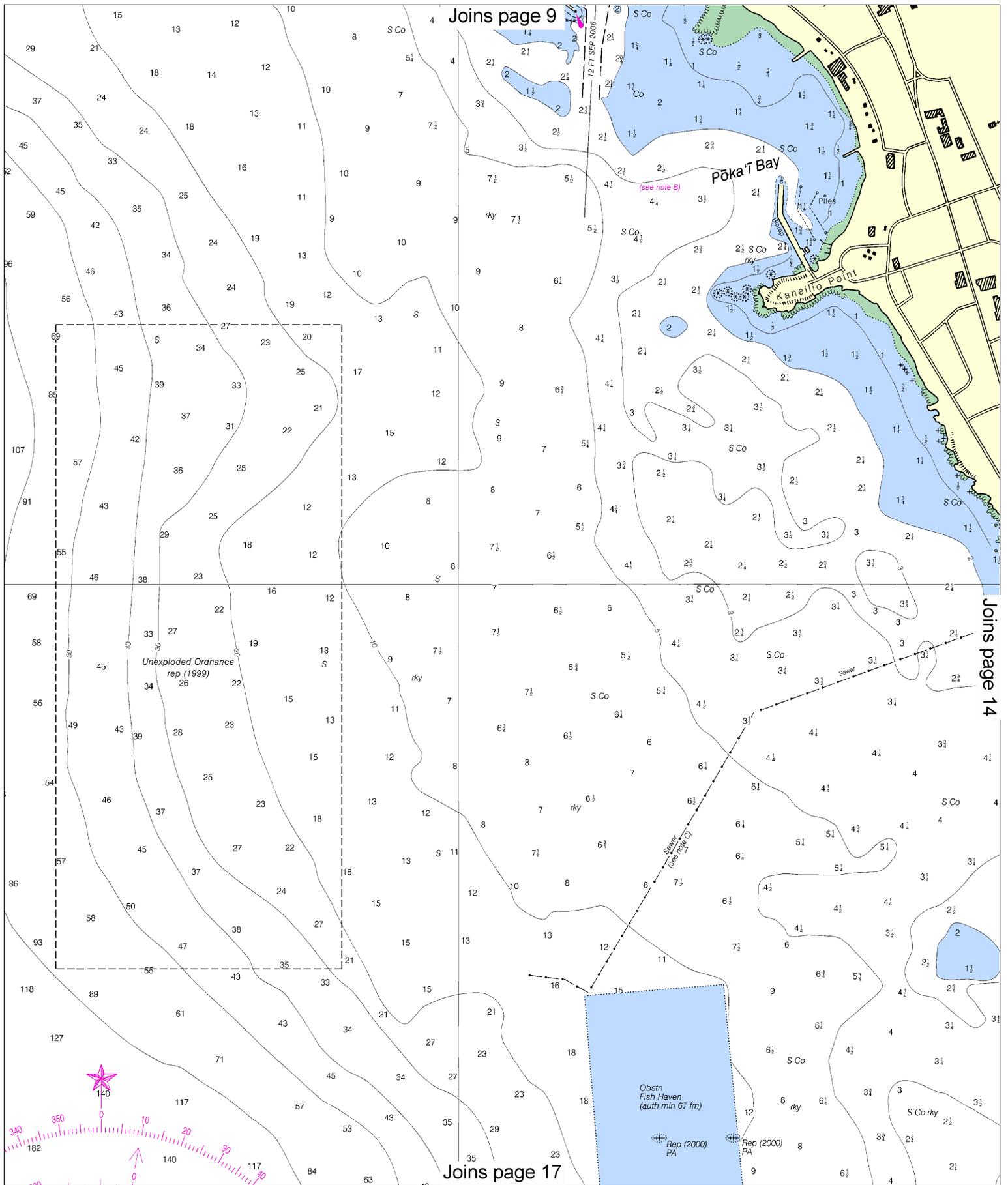
12

Note: Chart grid lines are aligned with true north.

Printed at reduced scale. — SCALE 1:10,000 —

See Note on page 5.

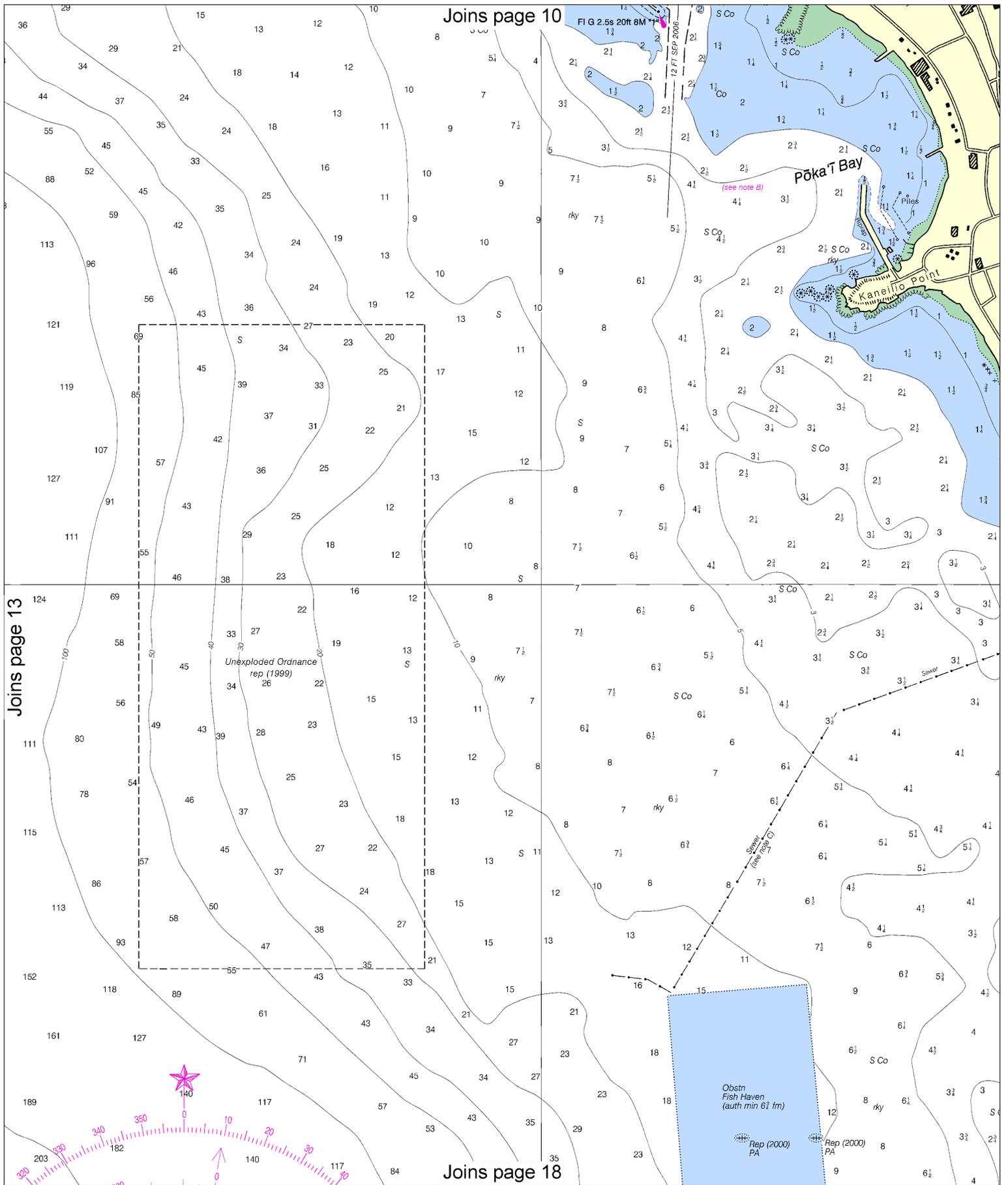




Joins page 9

Joins page 14

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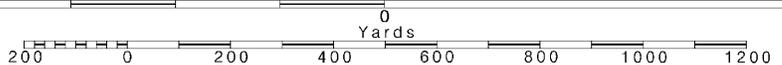
14

Note: Chart grid lines are aligned with true north.

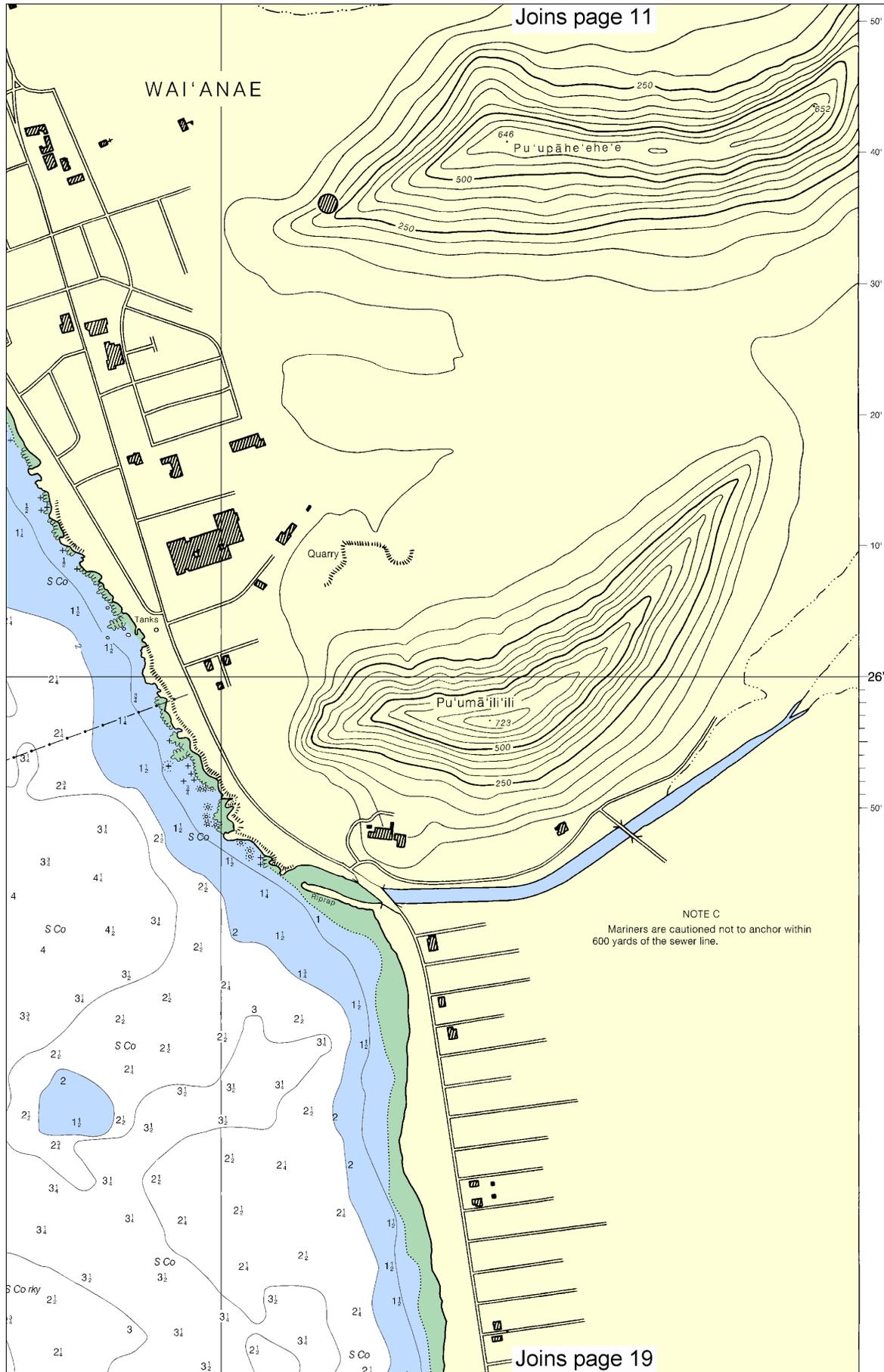
Printed at reduced scale.

SCALE 1:10,000

See Note on page 5.



WAI'ANAE



50'

40'

30'

20'

10'

26'

50'

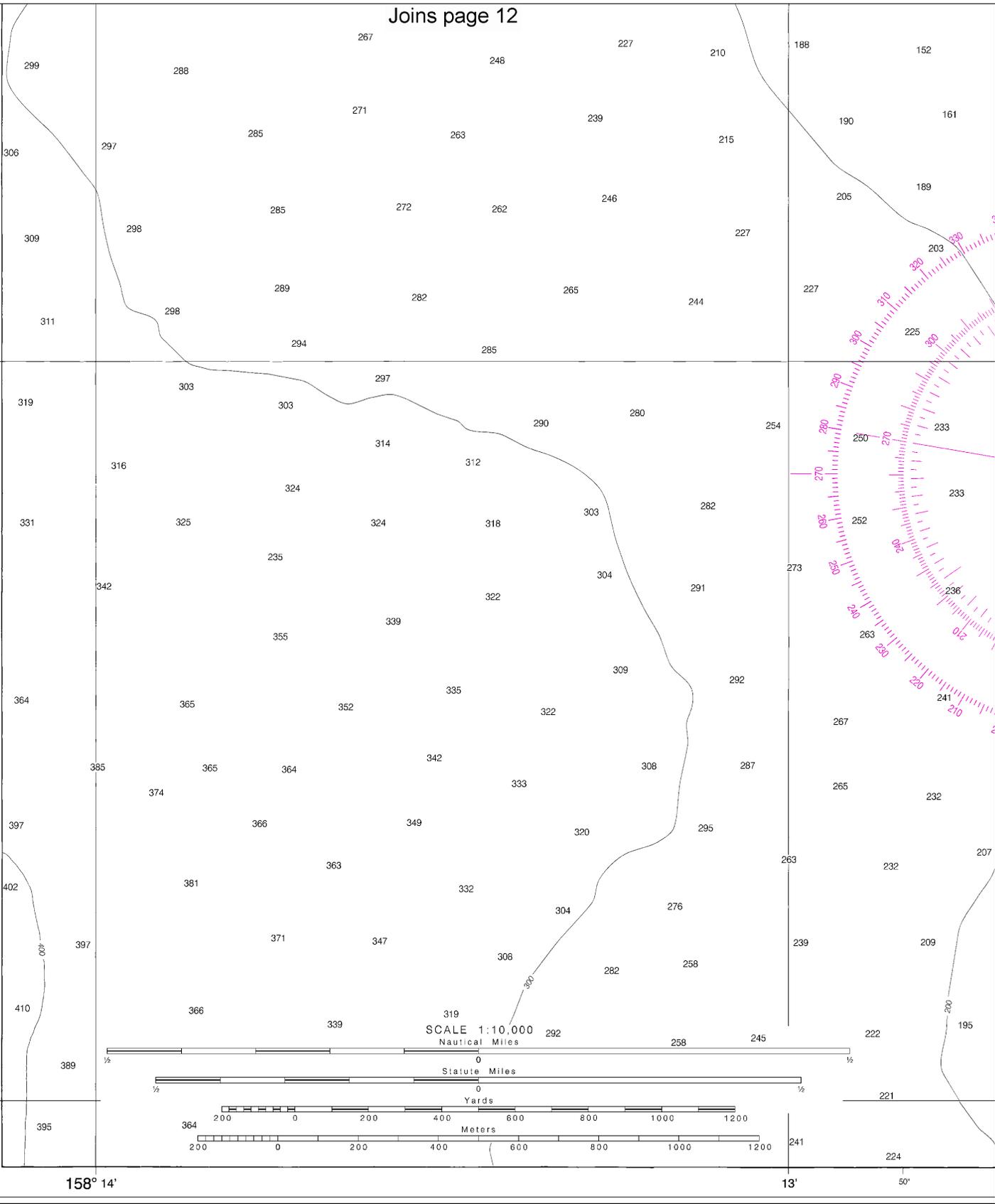
21°
25'

24'

158° 14'

13'

50'



9th Ed., Mar./10 ■ Corrected through NM Mar. 06/10
Corrected through LNM Feb. 23/10

19361

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.

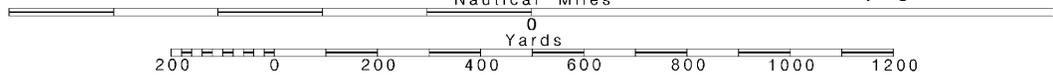
SOUNDINGS IN

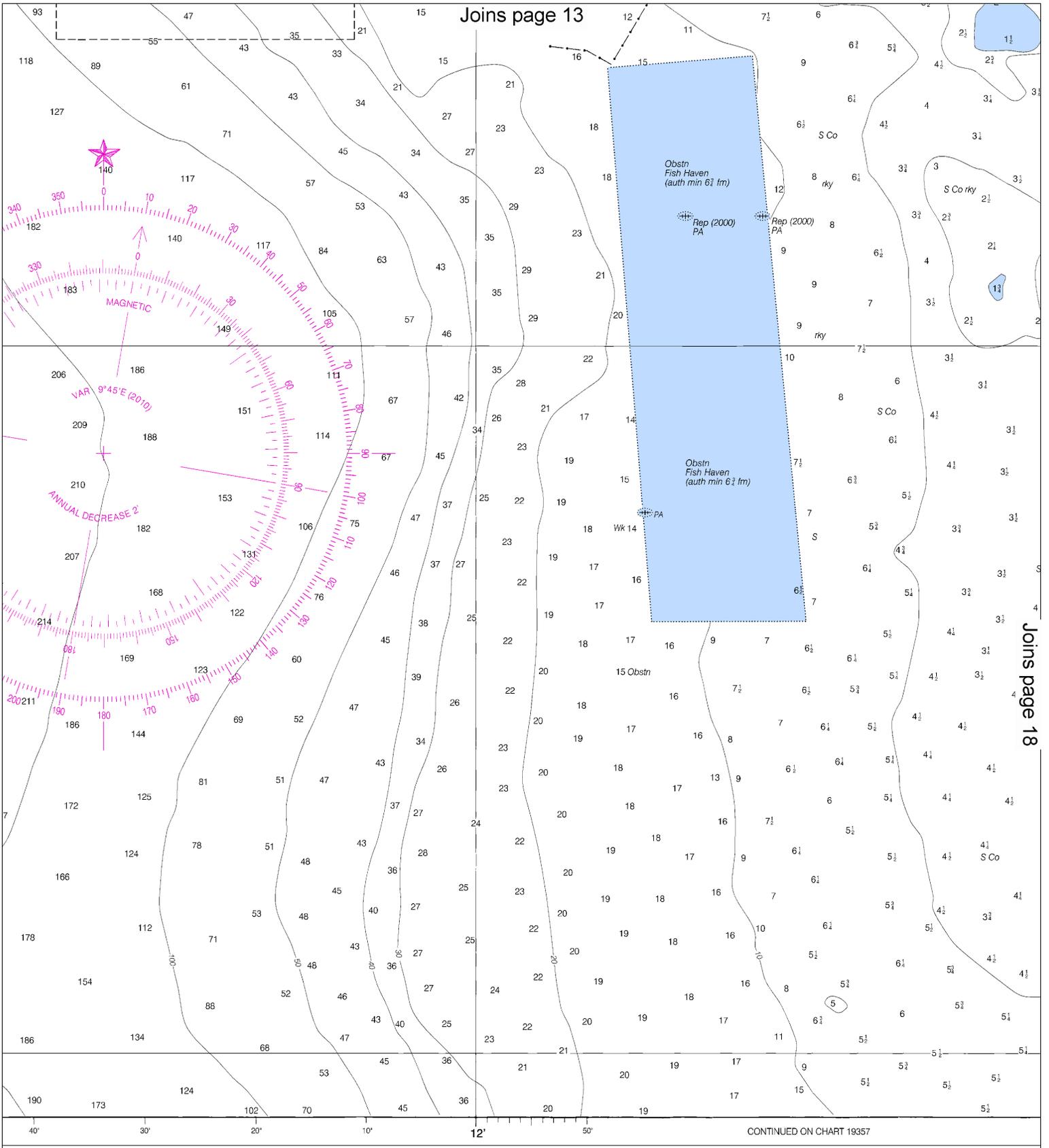
16

Note: Chart grid lines are aligned with true north.

Printed at reduced scale. — SCALE 1:10,000 —

See Note on page 5.



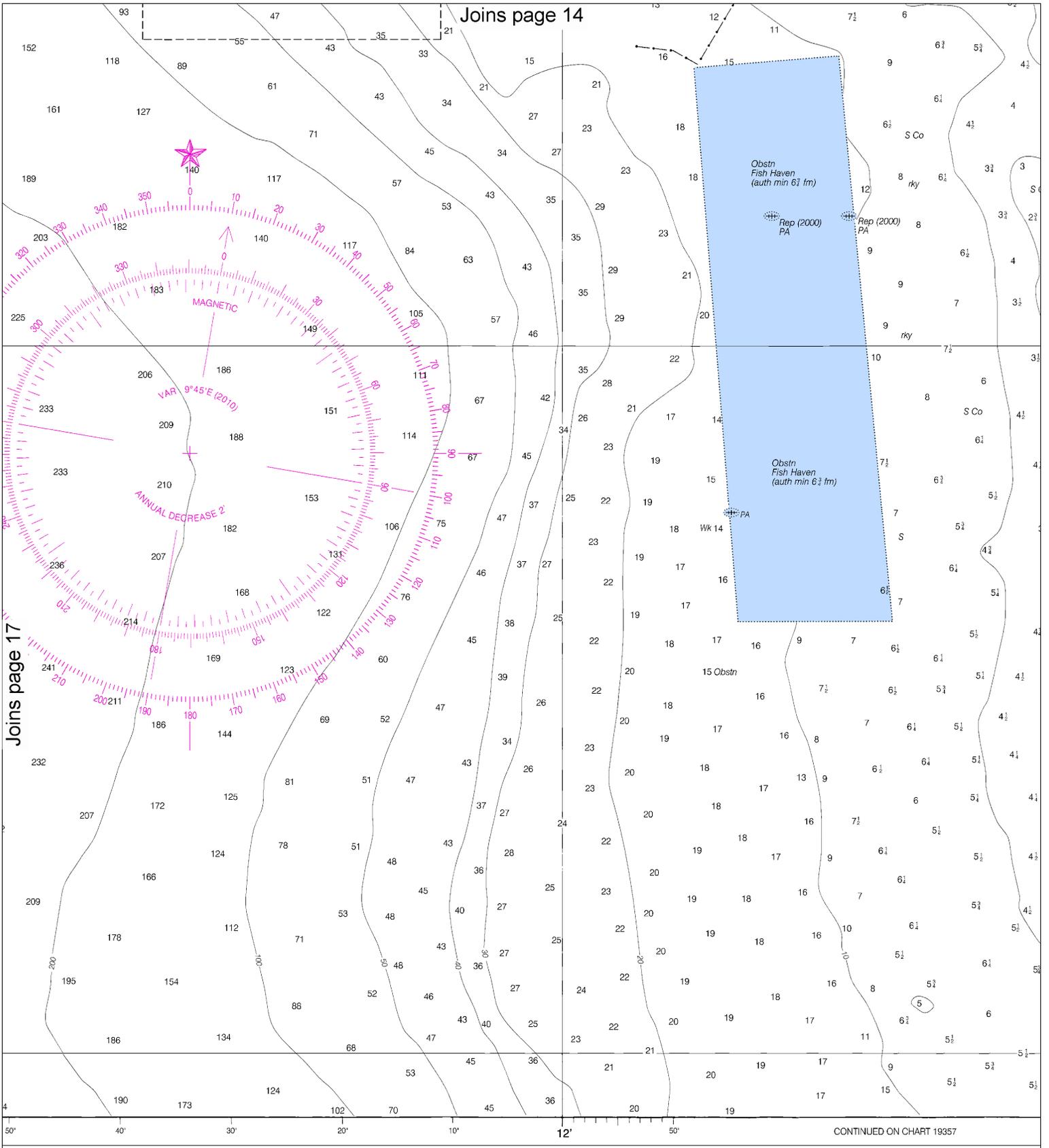


CONTINUED ON CHART 19357

N FATHOMS

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

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



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CONTINUED ON CHART 19357

NGS IN FATHOMS

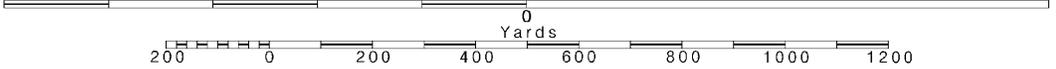
Published at Washington, D.C.
 U.S. DEPARTMENT OF COMMERCE
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
 NATIONAL OCEAN SERVICE
 COAST SURVEY

FATHOMS	1	2	3	4	5	6
FEET	6	12	18	24	30	36
METERS	1	2	3	4	5	6

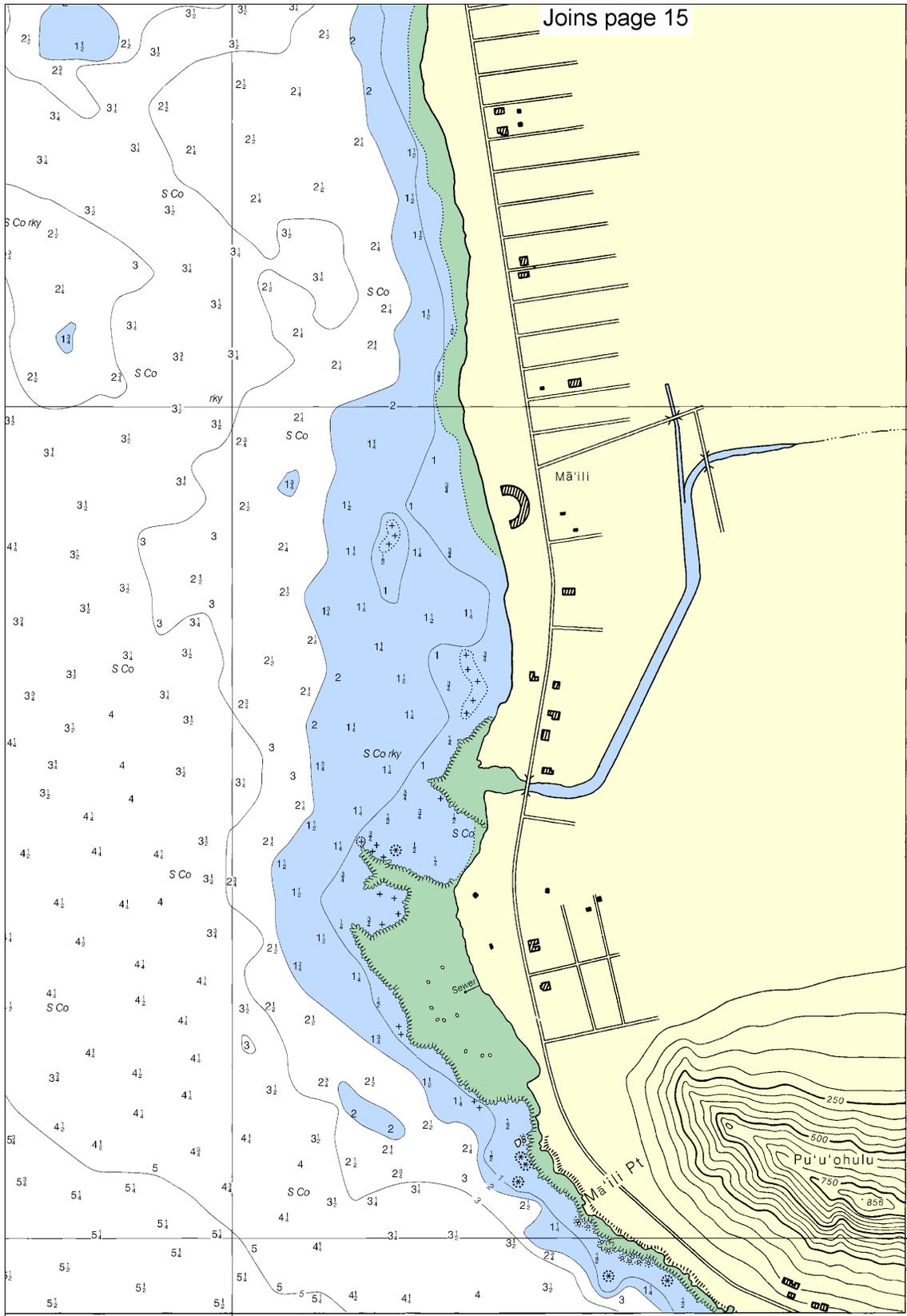
18

Note: Chart grid lines are aligned with true north.

Printed at reduced scale. — SCALE 1:10,000 — See Note on page 5.



Joins page 15



21°
25'

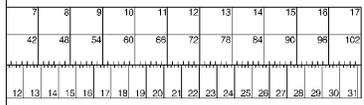
158° 11'

24'

999.7 X 691.0 mm

ED. NO. 9

NSN 7842014011706
NSA REFERENCE NO. 19XHA19361



Port Wai'anae
SOUNDINGS IN FATHOMS - SCALE 1:10,000

19361



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
- 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.

