

# BookletChart™

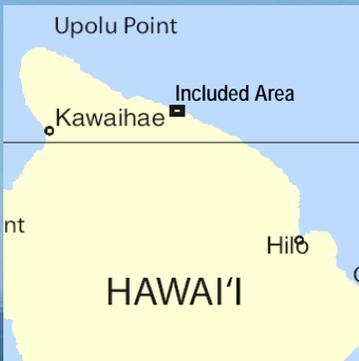


## Paauhau Landing

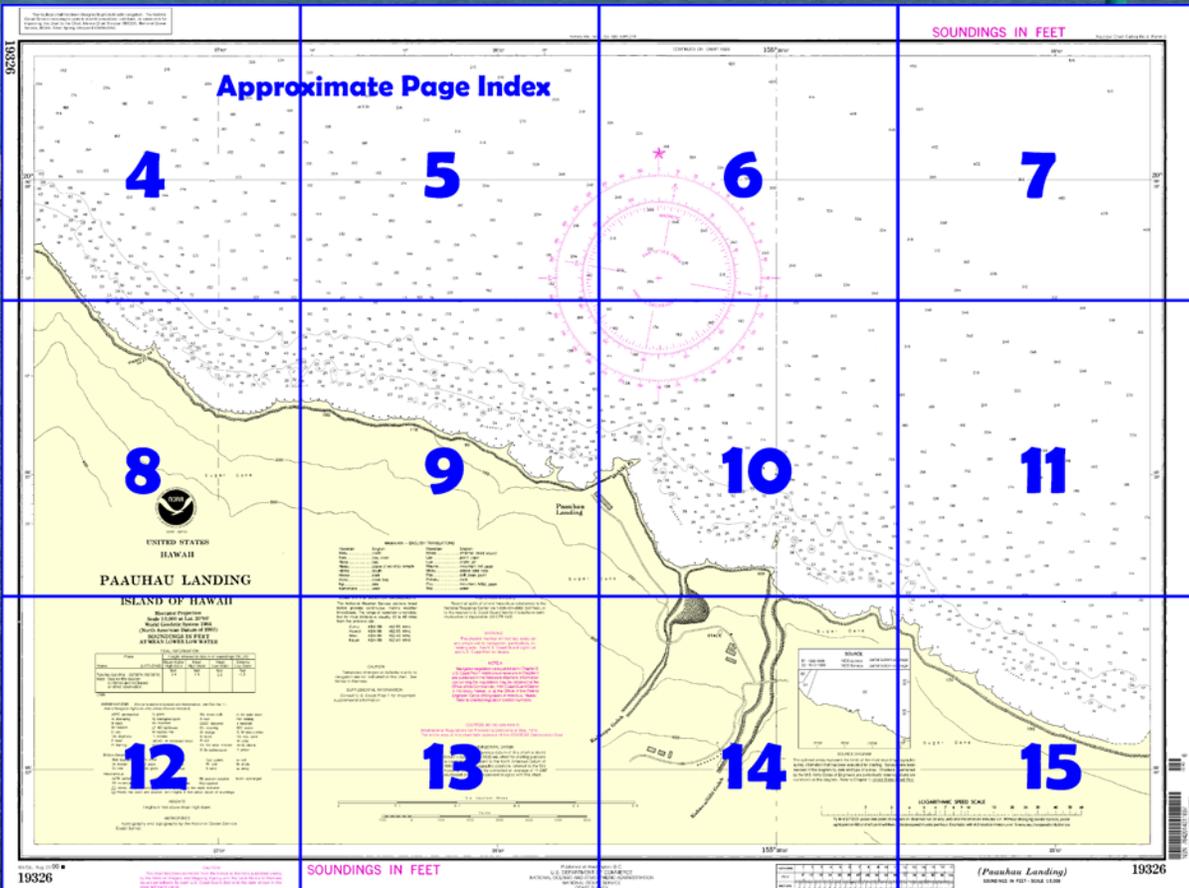
NOAA Chart 19326

*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.

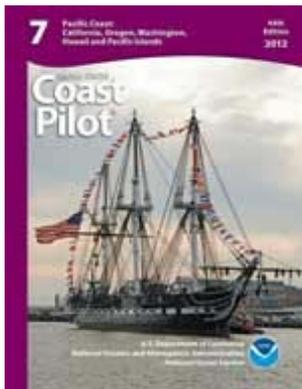
Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

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=19326>.



**(Selected Excerpts from Coast Pilot)**  
**Paauihau**, 26 miles SE of Upolu Point, is marked by the masonry of the abandoned inclined railway that leads to the top of the bluff. The shore at the foot of the bluff consists of rocks and ledges over which the sea breaks constantly. The small concrete landing at the foot of the masonry incline offers little protection from the NE trades.

**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



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

**NOAA VHF-FM WEATHER BROADCASTS**  
The National Weather Service stations listed below provide continuous marine weather broadcasts. The range of reception is variable, but for most stations is usually 20 to 40 miles from the antenna site.

Oahu	KBA-99	162.55 MHz
Hawaii	KBA-99	162.55 MHz
Maui	KBA-99	162.40 MHz
Kauai	KBA-99	162.40 MHz

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

**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.

**Mercator Projection**  
**Scale 1:5,000 at Lat. 20°06'**  
**World Geodetic System 1984**  
**(North American Datum of 1983)**  
**SOUNDINGS IN FEET**  
**AT MEAN LOWER LOW WATER**

**NOTE A**  
Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7. Additions or revisions to Chapter 2 are published in the Notices 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).

**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 11.030' southward and 9.997' eastward to agree with this chart.

**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.

**AUTHORITIES**  
Hydrography and topography by the National Ocean Service, Coast Survey.

**COLREGS, 80.140 (see note A)**  
International Regulations for Preventing Collisions at Sea, 1972.  
The entire area of this chart falls seaward of the COLREGS Demarcation Line.

**HAWAIIAN — ENGLISH TRANSLATIONS**

Hawaiian	English	Hawaiian	English
Akau	..... 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

**TIDAL INFORMATION**

Place	Height referred to datum of soundings (MLLW)			
	Mean Higher High Water	Mean High Water	Mean Low Water	Extreme Low Water
Name (LAT/LONG)	feet	feet	feet	feet
Paaahu Landing (20°06'N/155°26'W)	2.4	1.9	0.0	-1.5

Note: Data for this location is inferred and not based on direct observation.

(799)

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

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

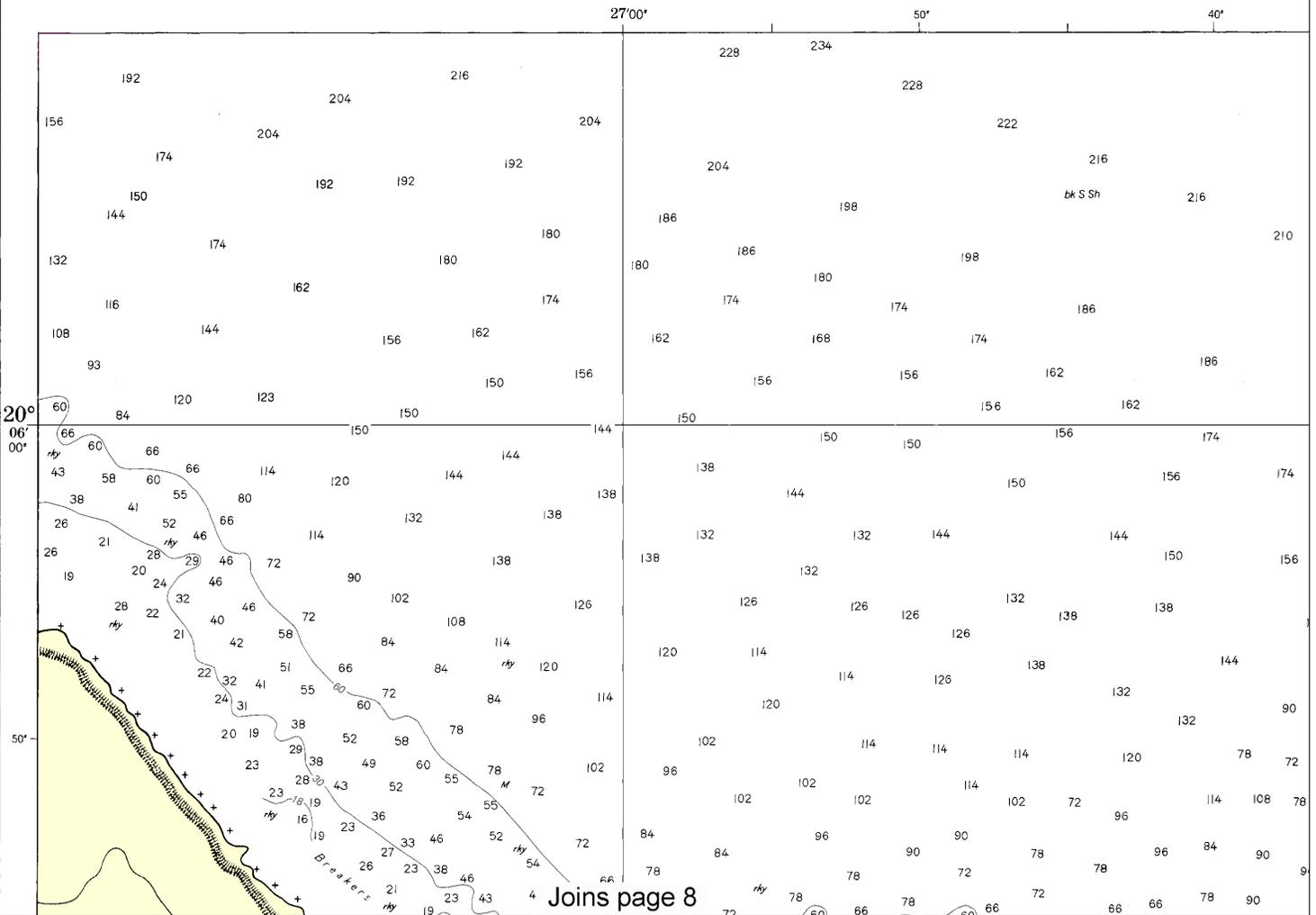
Miscellaneous:

AUTH authorized	Obstr obstruction	PD position doubtful	Subm submerged
ED existence doubtful	PA position approximate	Rep reported	

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

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.

19326



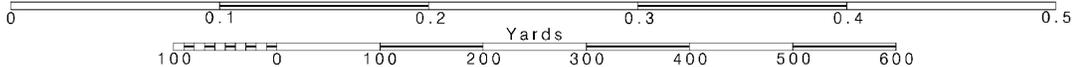
4

Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:5,000  
0.5 Nautical Miles

See Note on page 5.



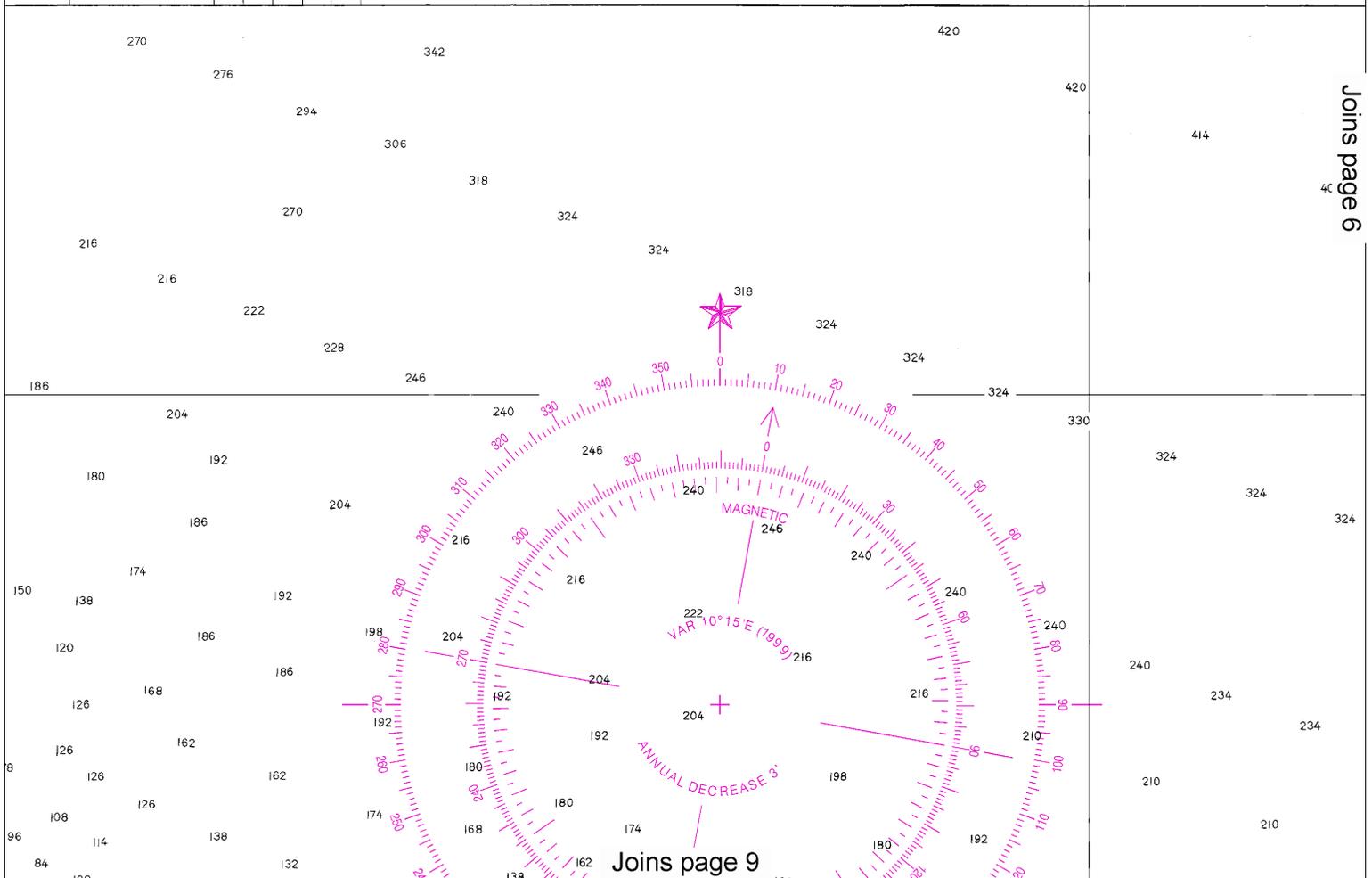
Formerly 4161, 1st Ed., Oct. 1933 KAPP 2778

26°30'

25'

CONTINUED ON CHART 19320

155°26'00"



Joins page 6

Joins page 9

This BookletChart was reduced to 75% of the original chart scale. The new scale is 1:6667. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.



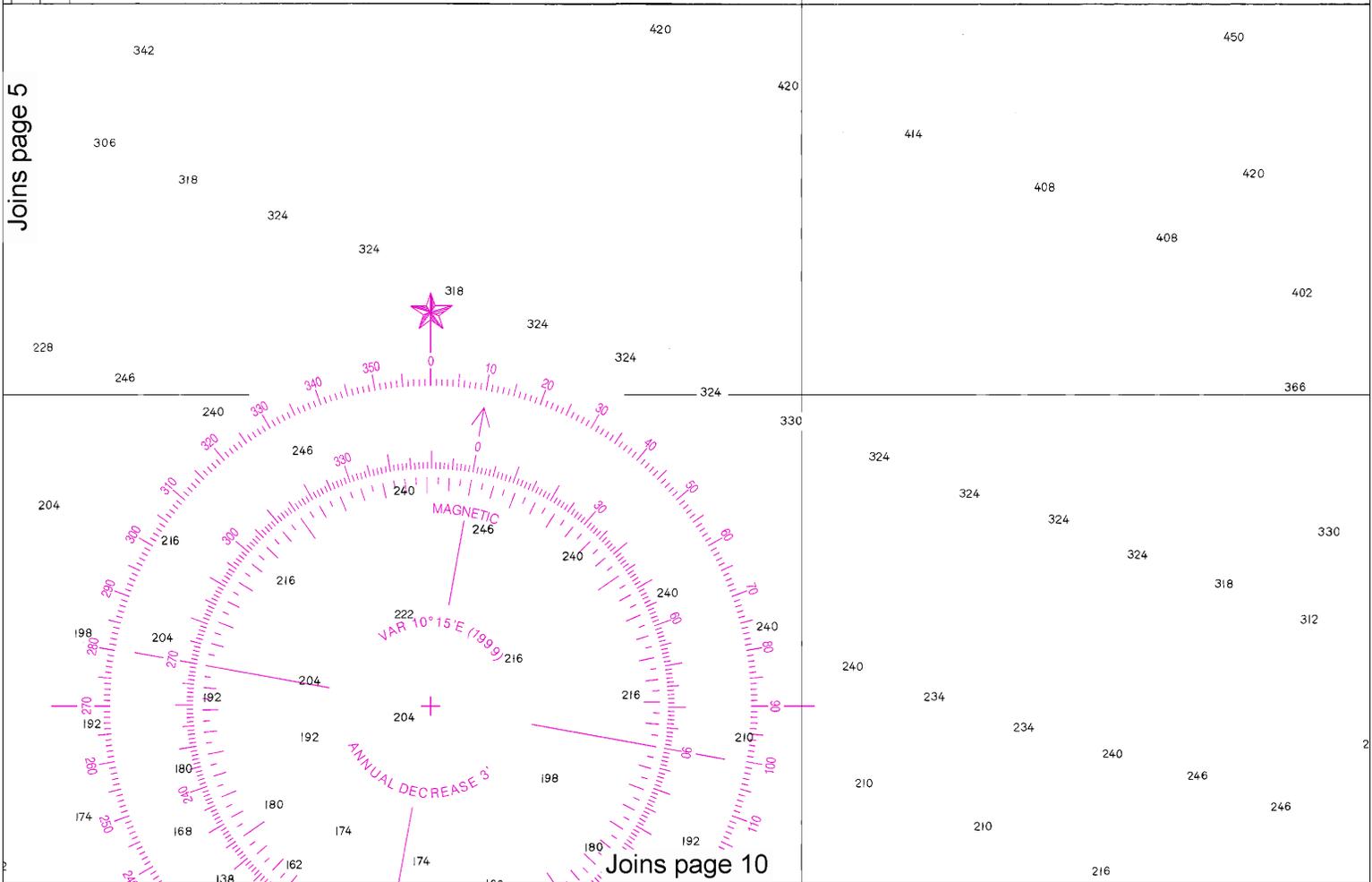
SOU

Formerly 4161, 1st Ed., Oct. 1933. KAPP 2778

CONTINUED ON CHART 19320

155° 26' 00"

Joins page 5



6

Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

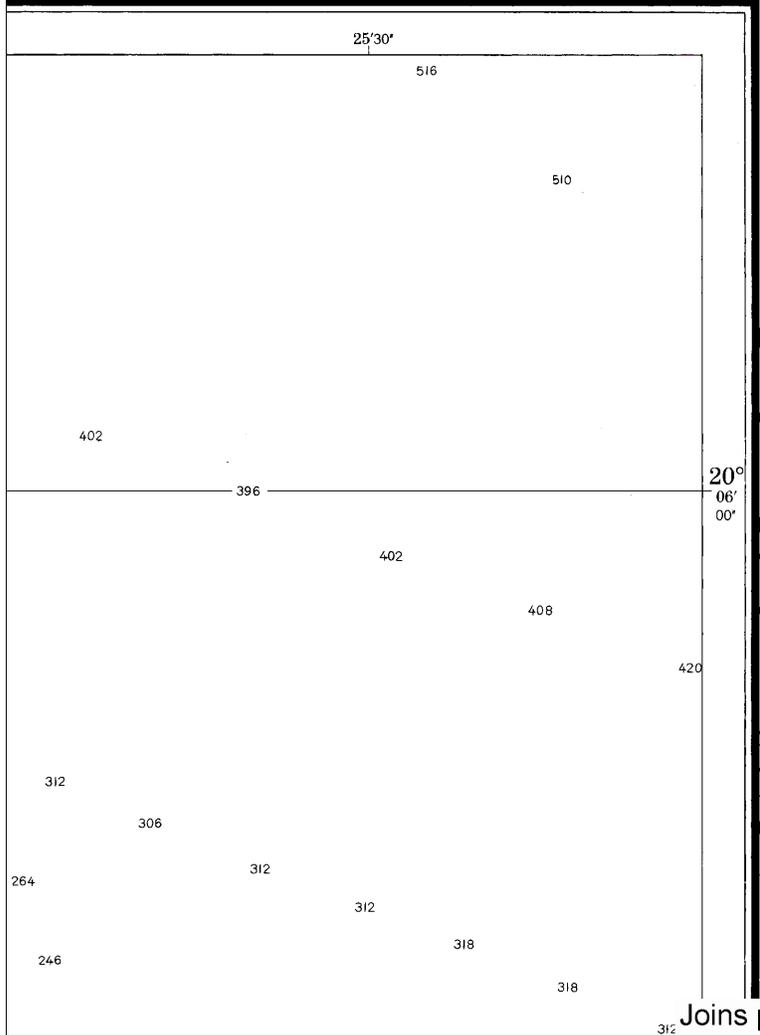
SCALE 1:5,000  
0.5 Nautical Miles

See Note on page 5.



# FINDINGS IN FEET

Nautical Chart Catlog No.2, Panel C

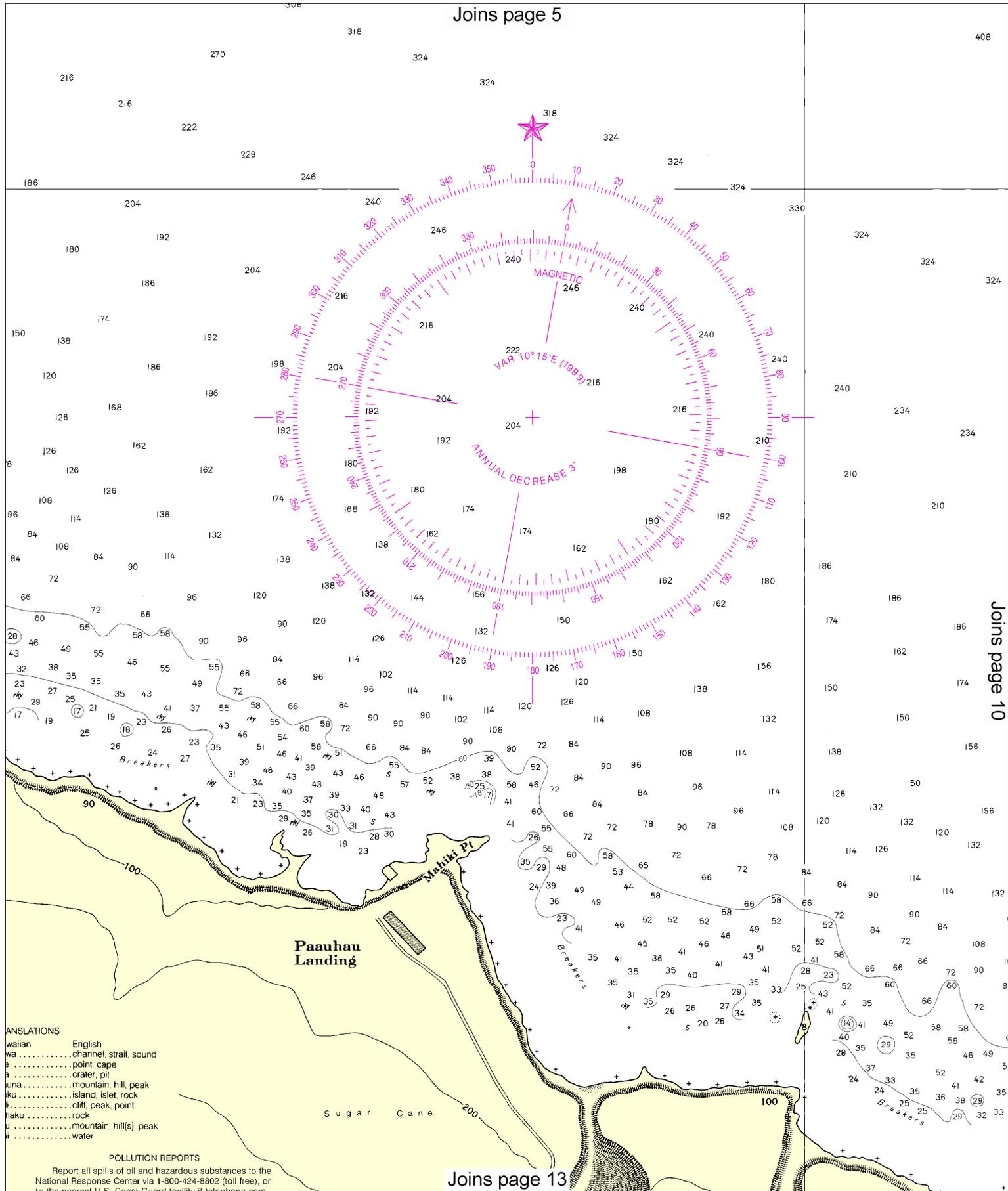


Joins page 11

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.





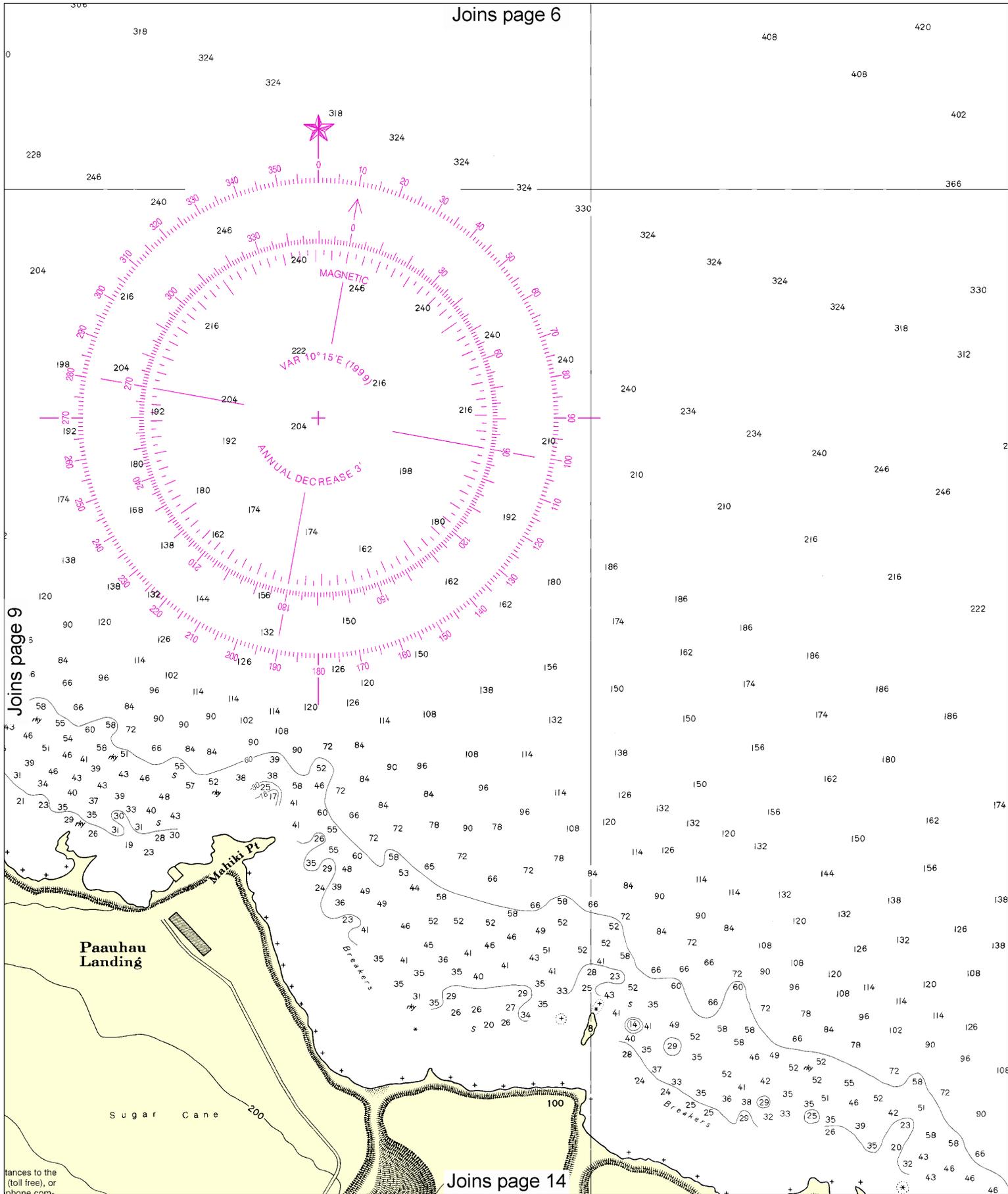


Joins page 10

**TRANSLATIONS**

waiian	English
wa	channel, strait, sound
pa	point, cape
pa	crater, pit
una	mountain, hill, peak
ku	island, islet, rock
li	cliff, peak, point
haku	rock
u	mountain, hill(s), peak
li	water

**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 com-



10

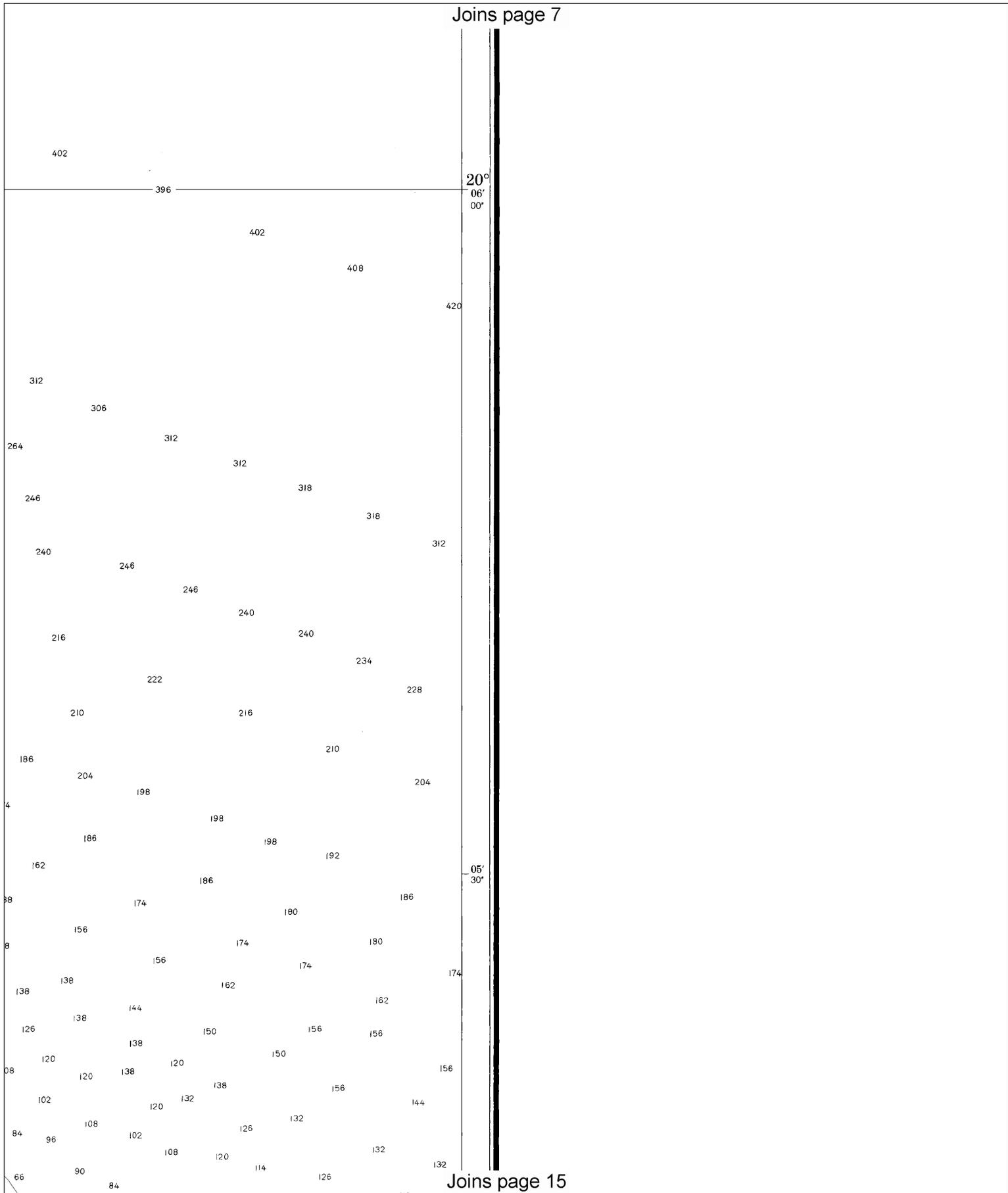
Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:5,000  
0.5 Nautical Miles

See Note on page 5.





Joins page 8

Breakers

05' 30"  
25'



UNITED STATES  
HAWAII

# PAAUHAU LANDING

## ISLAND OF HAWAII

Mercator Projection  
Scale 1:5,000 at Lat. 20°06'  
World Geodetic System 1984  
(North American Datum of 1983)  
**SOUNDINGS IN FEET**  
**AT MEAN LOWER LOW WATER**

### TIDAL INFORMATION

Place Name (LAT/LONG)	Height referred to datum of soundings (MLLW)			
	Mean Higher High Water feet	Mean High Water feet	Mean Low Water feet	Extreme Low Water feet
Paaupahu Landing (20°06'N/155°26'W) Note: Data for this location is inferred and not based on direct observation.	2.4	1.9	0.0	-1.5

(799)

### ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1)

Aids to Navigation (lights are white unless otherwise indicated):

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

### Bottom characteristics:

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

Heights in feet above Mean High Water.

### AUTHORITIES

Hydrography and topography by the National Ocean Service,  
Coast Survey.

### HAWAIIAN — ENGLISH TRANSLATION

Hawaiian	English	Hawaiian
Akau	north	Kowale
Awa	bay, cove	Lae
Hana	bay	Lua
Heiau	place of worship, temple	Mauka
Hema	south	Mokai
Hikina	east	Pali
Hono	cove, bay	Pohaku
Kai	sea	Puu
Komohana	west	Wai

### NOAA VHF-FM WEATHER BROADCASTS

The National Weather Service stations listed below provide continuous marine weather broadcasts. The range of reception is variable, but for most stations is usually 20 to 40 miles from the antenna site.

Oahu	KBA-99	162.55 MHz
Hawaii	KBA-99	162.55 MHz
Maui	KBA-99	162.40 MHz
Kauai	KBA-99	162.40 MHz

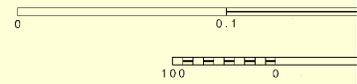
### CAUTION

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

### SUPPLEMENTAL INFORMATION

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

05' 00"



6th Ed., Aug. 21/99 ■  
**19326**

### CAUTION

This chart has been corrected from the Notice to Mariners published weekly by the National Imagery and Mapping Agency and the Local Notice to Mariners issued periodically by each U.S. Coast Guard district to the date shown in the lower left hand corner.

# SOUNDINGS IN FEET

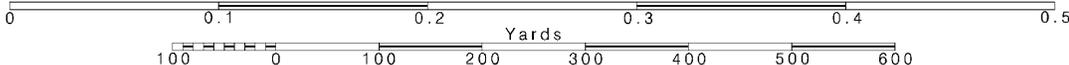
# 12

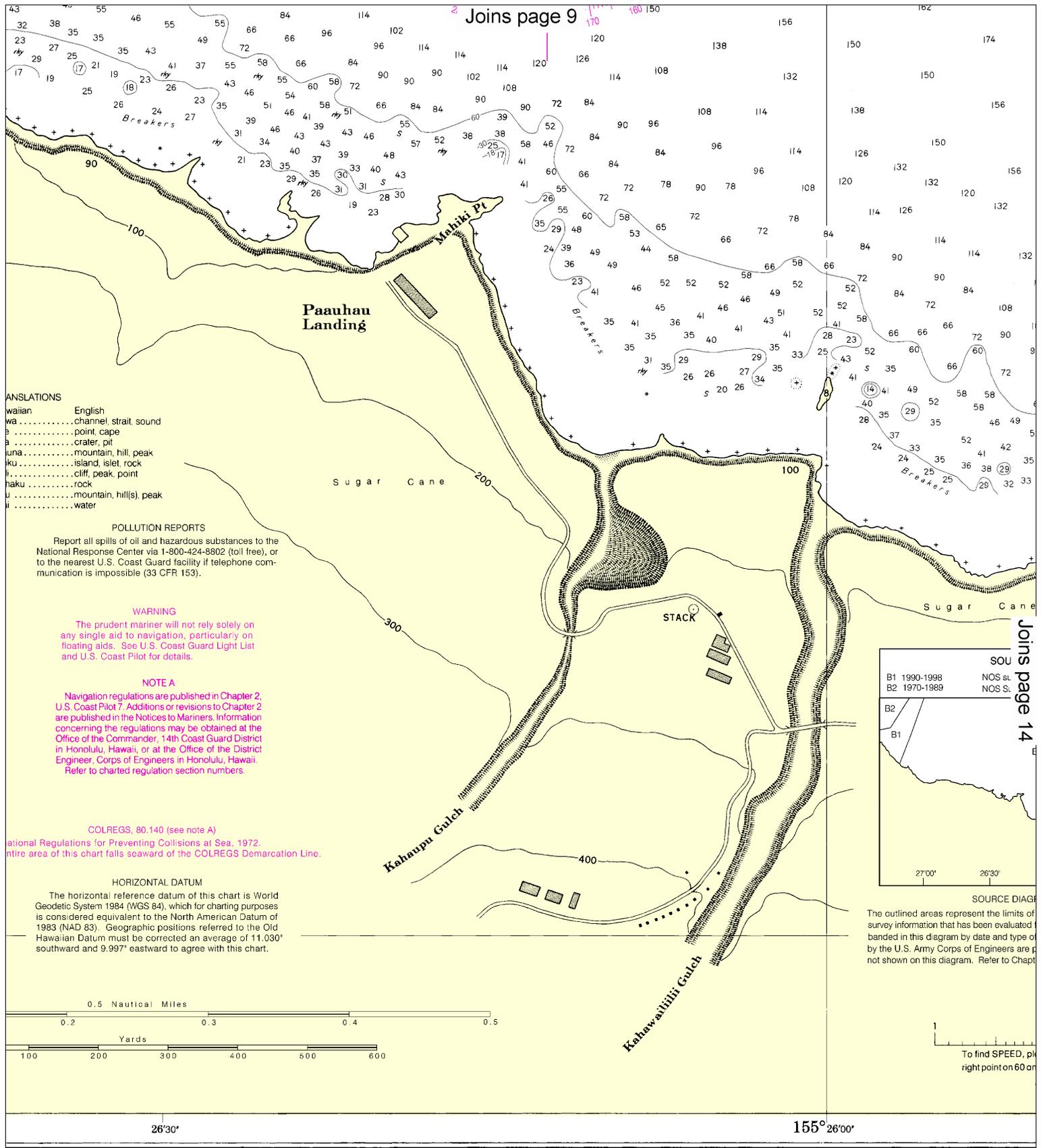
Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:5,000  
0.5 Nautical Miles

See Note on page 5.





**TRANSLATIONS**

waian	English
wa	channel, strait, sound
pa	point, cape
ka	crater, pit
una	mountain, hill, peak
ku	island, islet, rock
hi	cliff, peak, point
haku	rock
u	mountain, hill(s), peak
li	water

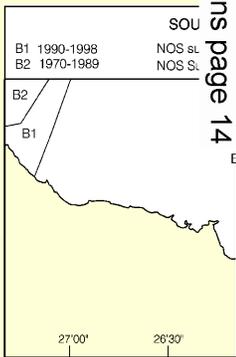
**POLLUTION REPORTS**  
 Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

**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.

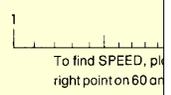
**NOTE A**  
 Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7. Additions or revisions to Chapter 2 are published in the Notices to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 14th Coast Guard District in Honolulu, Hawaii, or at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

**COLREGS, 80.140 (see note A)**  
 International Regulations for Preventing Collisions at Sea, 1972. Entire area of this chart falls seaward of the COLREGS Demarcation Line.

**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 11.030" southward and 9.997" eastward to agree with this chart.

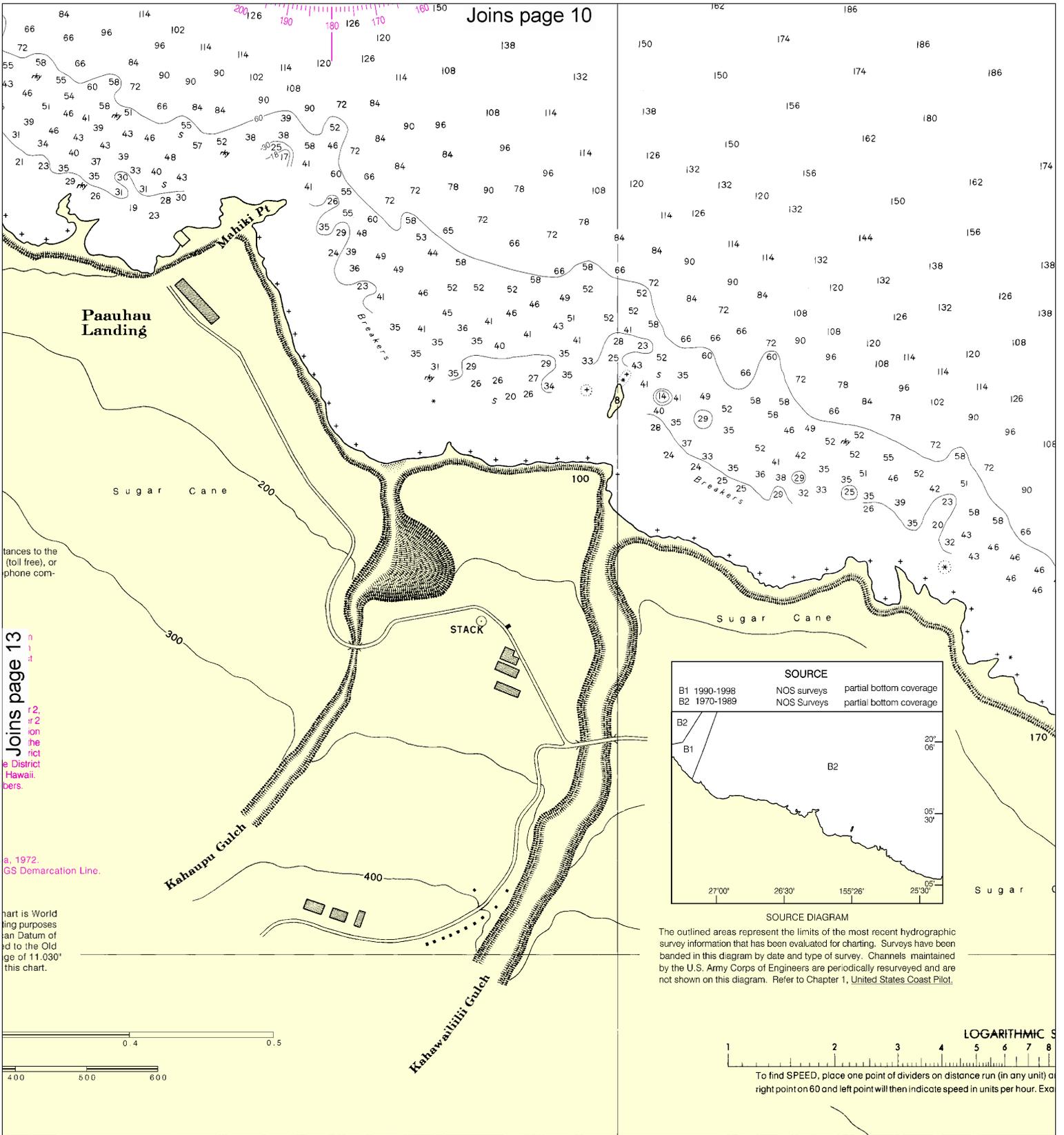


**SOURCE DIAGRAM**  
 The outlined areas represent the limits of survey information that has been evaluated and is banded in this diagram by date and type of survey by the U.S. Army Corps of Engineers are presented but not shown on this diagram. Refer to Chapter 1 for details.



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

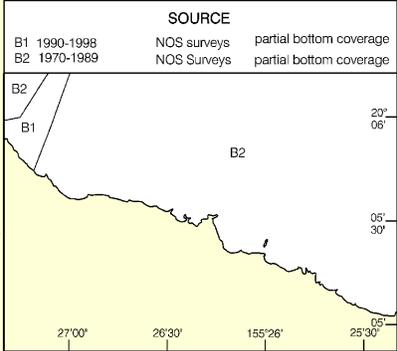
FATHOMS	1	2	3	4	5	6	7
FEET	6	12	18	24	30	36	42
METERS	1	2	3	4	5	6	7



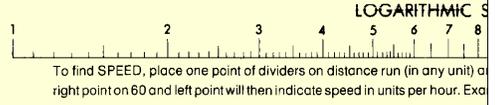
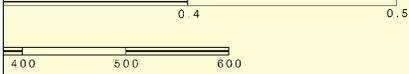
Joins page 13  
 r 2, r 2  
 ion  
 the  
 rict  
 e District  
 Hawaii.  
 bers.

a, 1972.  
 GS Demarcation Line.

hart is World  
 ing purposes  
 an Datum of  
 id to the Old  
 ge of 11,030'  
 this chart.



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.

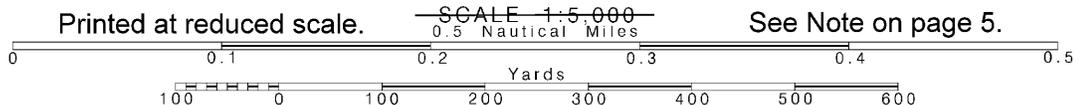


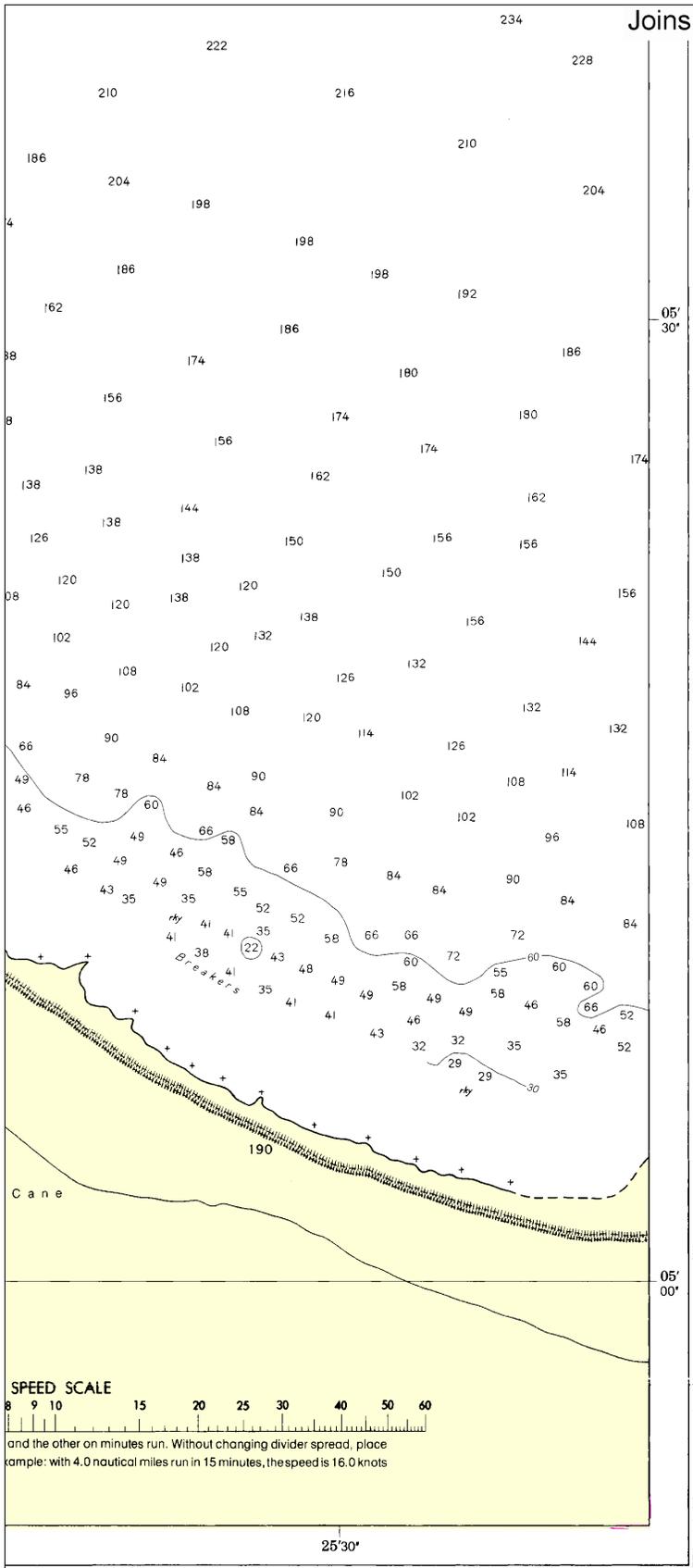
Published at Washington, D.C.  
 U.S. DEPARTMENT OF COMMERCE  
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
 NATIONAL OCEAN SERVICE  
 COAST SURVEY

FATHOMS	1	2	3	4	5	6	7	8	9	10	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

**14**

Note: Chart grid lines are aligned with true north.





ED. NO. 6

NSN 7642014011697  
 NIMA STOCK NO. 19XHA19326

(Paauhau Landing)

19326

SOUNDINGS IN FEET - SCALE 1:5,000



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.

