

# BookletChart™

## Wide Bay to Cape Kumlik

NOAA Chart 16568

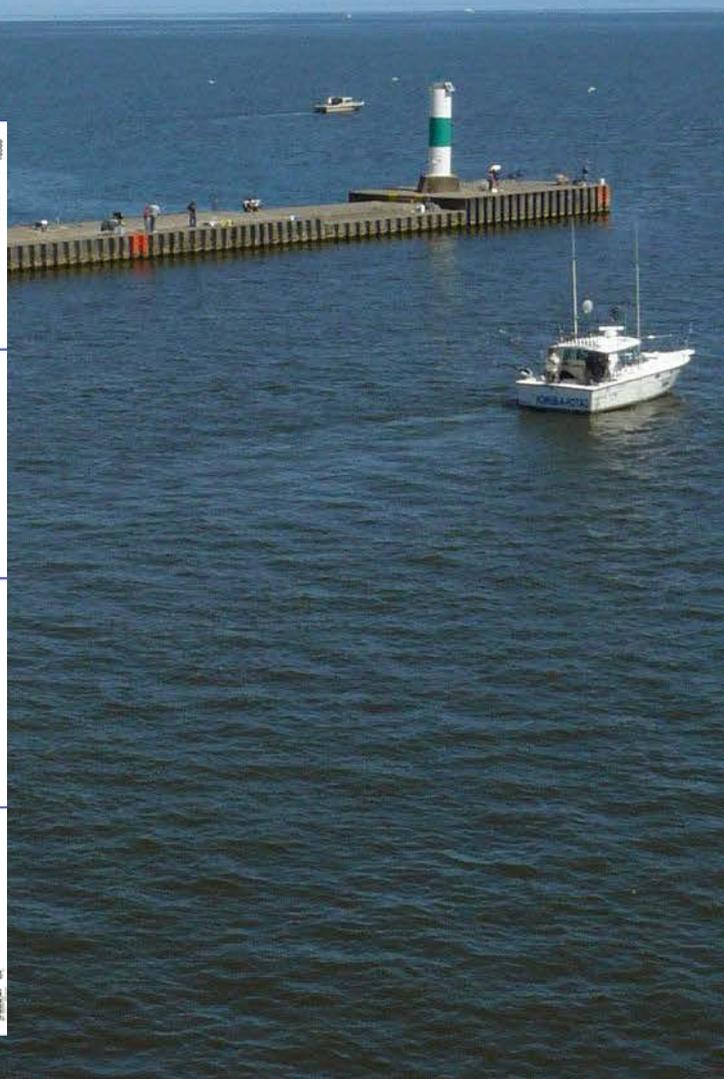
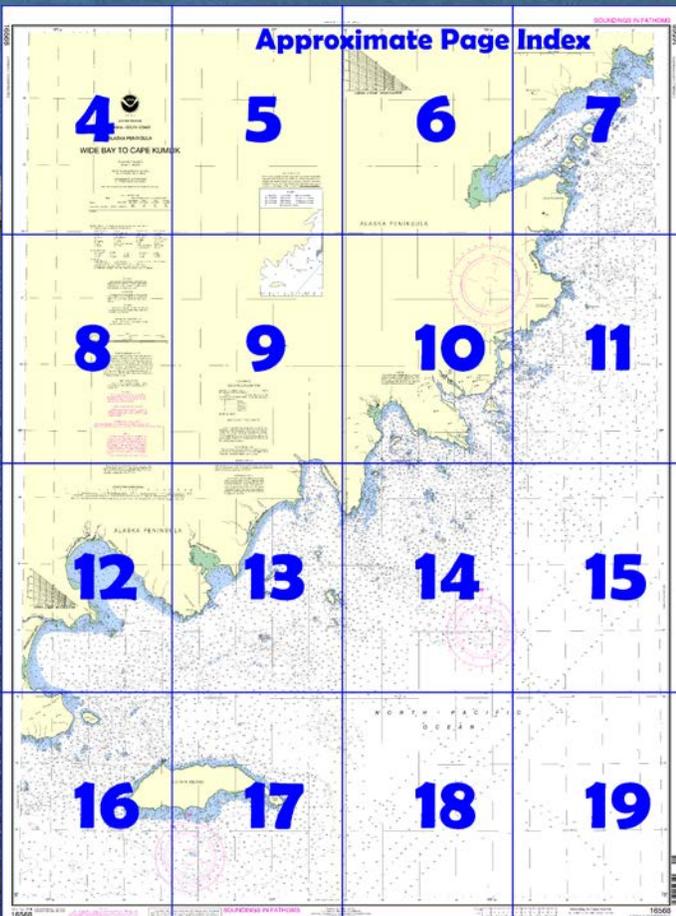


*A reduced-scale NOAA nautical chart for small boaters*

*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.

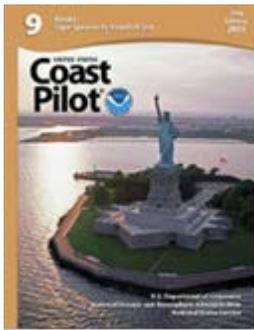
Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

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=16568>.



**(Selected Excerpts from Coast Pilot)**

Small-craft inshore route between Wide Bay and Sutwik Island has many dangers; mariners are advised to use caution when navigating this area.

**Cape Kayakliut** (57°17.7'N., 156°18.9'W.), on the S side of Wide Bay, has a generally flat appearance, sloping smoothly back to the mountains. The shoreline is formed by low, steep cliffs and close to the point is a prominent grass-topped island.

**Imuya Bay** is 4 miles S of Cape Kayakliut. A group of islands is in the NW corner and a shoal area with a least depth of ½ fathom extends about 2.8 miles ENE from the S point of the entrance. Depths shoal gradually from 17 fathoms inshore from a line

between the N and S points to 5 fathoms at a point 0.4 mile from the center of the sand and gravel beach which heads the bay. The area close-to and between the islands is shoal and foul, and the area between the largest island and the mainland to the N and W is mostly bare at lower low water. A large stream enters the bay at the W end of the sand and boulder beach at the head.

The wreck of a large vessel is against the shore W of the islands at the S point of the bay.

To enter Imuya Bay from the N, follow the trend of the shoreline from the N point around the islands, keeping the islands at least 0.4 mile on the starboard hand, and thence midway between the islands and the S shore to the head of the bay. Indifferent anchorage can be had for small craft in 5 fathoms, hard, fine sand bottom, 0.4 mile from the beach at the head of the bay.

In entering the bay from the S, care should be taken to avoid the shoal area extending about 2.8 miles ENE from the S point of the bay.

**Kilokak Rocks**, two rocky islets, are about 2 miles offshore and just SE of Imuya Bay; the 30-foot NW rock is the higher. The area W of these rocks is clear for 1 mile toward the shore. Depths of 15 fathoms or more can be carried to within 100 yards of the N, W, and S sides of the higher rock. A shoal area extends 0.1 mile SE of the smaller islet.

A rock, that uncovers about 6 feet, is 1.3 miles NW of Kilokak Rocks. This rock marks the SE end of a foul area that extends inshore to a group of reefs and islets near the shoreline.

**Agripina Bay**, 12.5 miles SE of Cape Kayakliut, is a deep indentation with a generally low but bold rocky shoreline indented with numerous small bights and clefts. The N and S points forming the entrance are marked by groups of small steep rocky islands; a larger group of very prominent islands and rocks, near the S central part of the bay, roughly divides the outer and inner parts of the bay. A large shoal area, with a least depth of 3 fathoms, is about 0.5 mile N of the E end of the largest island.

Anchorage for large vessels can be had in 16 to 18 fathoms in the W end of the outer bay about 0.3 mile N of the islands and 0.3 mile from the W shore. This area is protected from all but NE to SE weather. One of the best small-boat anchorages along this section of the coast is in the bight at the head of the inner bay, midway between the E and W shores, in 5 to 11 fathoms, sticky, mud bottom. No swell makes into the bight even in heavy weather, and there are no williwaws even in strong winds. NW of the bold rocky hill which forms the W side of the bight, is an extensive gravel flat bare at low water except for the shallow delta channels of a large stream that enters the bay at this point.

The only danger in the inner bay is a reef near the W side. The outermost part of this reef is about 350 yards off the W shore and about 400 yards S of the anchorage. The area between this reef and the prominent point about 800 yards S of the anchorage has several submerged rocks.

The coastline from Agripina Bay to Port Wrangell is very broken, with many indentations and small inshore islands. The area is rocky and foul within 400 yards of the beach. Outside the small islands, some pinnacle rocks exist. Kelp extends 500 yards SE from the point 0.5 mile SSW of Agripina Bay.

Offshore are numerous rocks and islands.

**Port Wrangell**, 7 miles SW of Agripina Bay, is a deep, narrow indentation in the coastline. The outer bay, open to the SE and E, has depths in midchannel ranging from 130 fathoms at the entrance to 14 fathoms at the inner end. The shoreline is steep and rocky.

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

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

# Table of Selected Chart Notes

Corrected through NM Sep. 24/05  
Corrected through LNM Sep. 13/05

## CAUTION

The NOAA Ship RAINIER reports numerous uncharted shoals, covered rocks and foul areas exist throughout the areas of eastern and northern Chignagak Bay. Mariners are urged to navigate in this area with extreme caution.

Polyconic Projection  
Scale 1:106,600

North American Datum of 1983  
(World Geodetic System 1984)

SOUNDINGS IN FATHOMS  
AT MEAN LOWER LOW WATER

## 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.

## AUTHORITIES

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

## LOCAL MAGNETIC DISTURBANCE

Differences of as much as 14° from the normal variation have been observed on Terrace Island and as much as 3° on East Channel Island.

## CAUTION

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

## HEIGHTS

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

## AIDS TO NAVIGATION

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

## NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 9. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 17th Coast Guard District in Juneau, Alaska, or at the Office of the District Engineer, Corps of Engineers in Anchorage, Alaska.

Refer to charted regulation section numbers.

## HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 2.659° southward and 7.400° westward to agree with 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 CRF 153).

## 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.

## LORAN-C

### GENERAL EXPLANATION

LORAN-C FREQUENCY.....100kHz  
PULSE REPETITION INTERVAL  
9990.....99,900 Microseconds  
STATION TYPE DESIGNATORS: (Not individual station letter designators).  
M.....Master  
W.....Secondary  
X.....Secondary  
Y.....Secondary  
Z.....Secondary

EXAMPLE: 9990-X

### RATES ON THIS CHART

9990-X 9990-Y 9990-Z

Loran-C correction tables published by the National Geospatial-Intelligence 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 ¼ nautical mile accuracy criteria established by the U.S. Coast Guard. Mariners are cautioned not to rely solely on the lattices in inshore waters.

## UPDATING SERVICE

FOR THIS CHART, a listing of NOTICE TO MARINERS corrections subsequent to the date shown in the lower left hand corner is available from the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

## 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.

## COLREGS, 80.1705 (see note A)

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

## 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
Ai 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:

Bids 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.

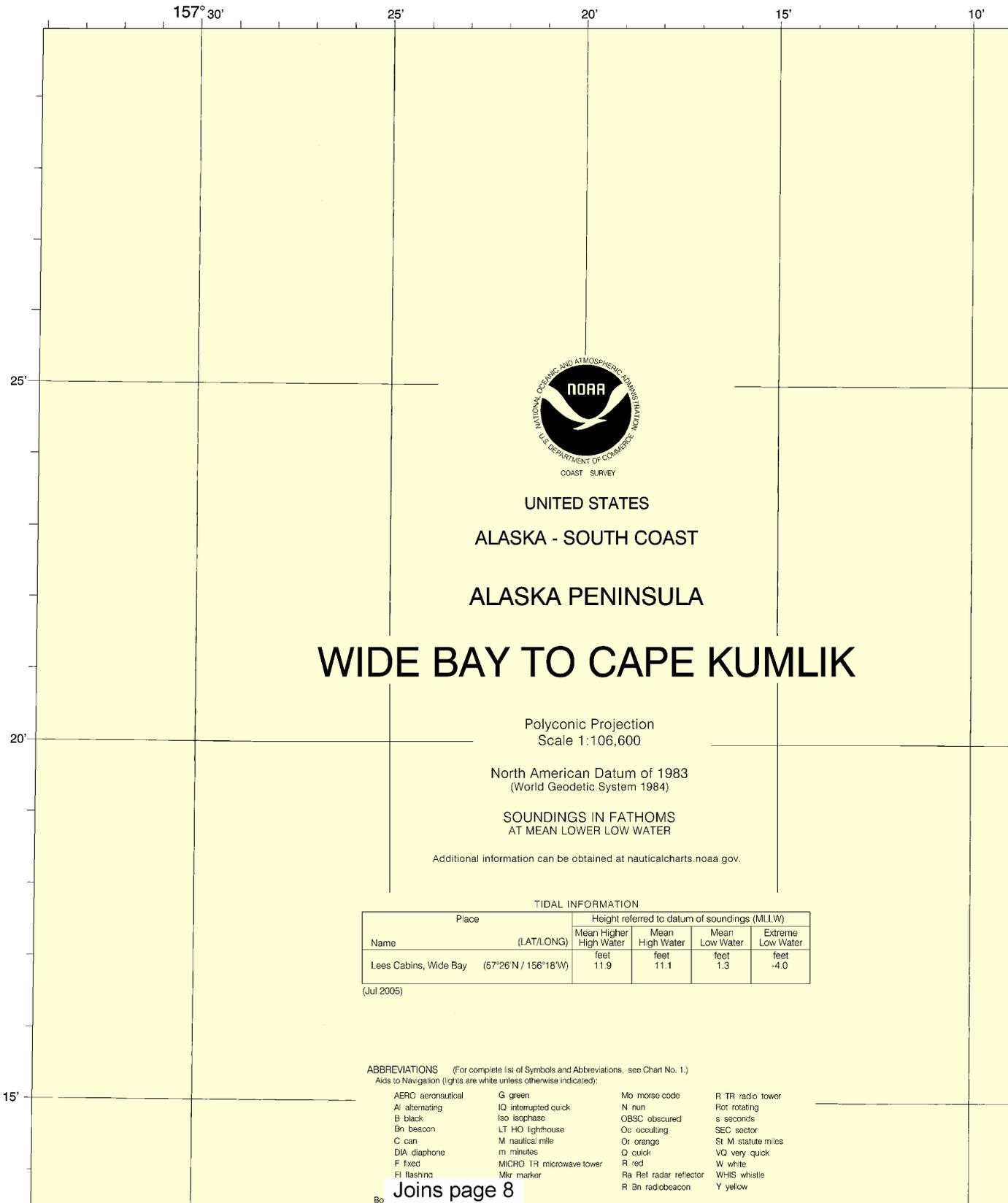
## TIDAL INFORMATION

Name	Place (LAT/LONG)	Height referred to datum of soundings (MLLW)			
		Mean Higher High Water	Mean High Water	Mean Low Water	Extreme Low Water
Lees Cabins, Wide Bay	(57°26'N / 156°18'W)	feet 11.9	feet 11.1	feet 1.3	feet -4.0

(Jul 2005)

16568

LORAN-C OVERPRINTED

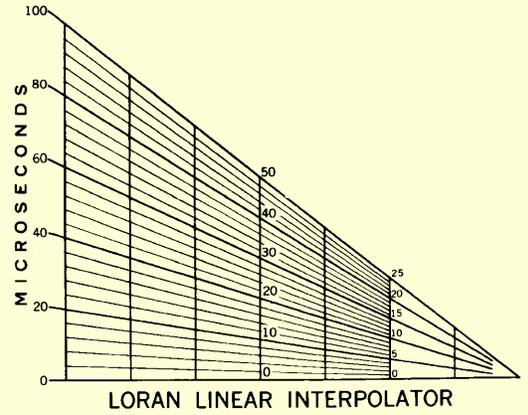


Joins page 8

4

Note: Chart grid lines are aligned with true north.

05' 157° 55' 50' 45'

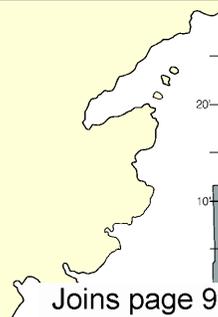


Joins page 6

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.

SOURCE		
A	1990-2000	NOS Surveys full bottom coverage
B1	1990-1997	NOS Surveys partial bottom coverage
B2	1970-1989	NOS Surveys partial bottom coverage
B3	1940-1969	NOS Surveys partial bottom coverage
h		Miscellaneous Surveys

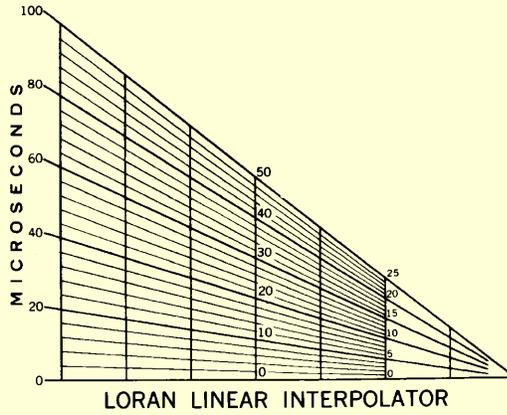


Joins page 9

ALASKA PENINS

This BookletChart was reduced to 75% of the original chart scale. The new scale is 1:142133. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.

157° 55' 50' 45' 40' 35'



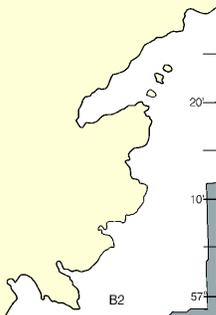
Joins page 5

SOURCE DIAGRAM

Outlined areas represent the limits of the most recent hydrographic information that has been evaluated for charting. Surveys have been identified in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

SOURCE

1990-2000	NOS Surveys	full bottom coverage
1990-1997	NOS Surveys	partial bottom coverage
1970-1989	NOS Surveys	partial bottom coverage
1940-1969	NOS Surveys	partial bottom coverage
	Miscellaneous Surveys	



ALASKA PENINSULA

Joins page 10



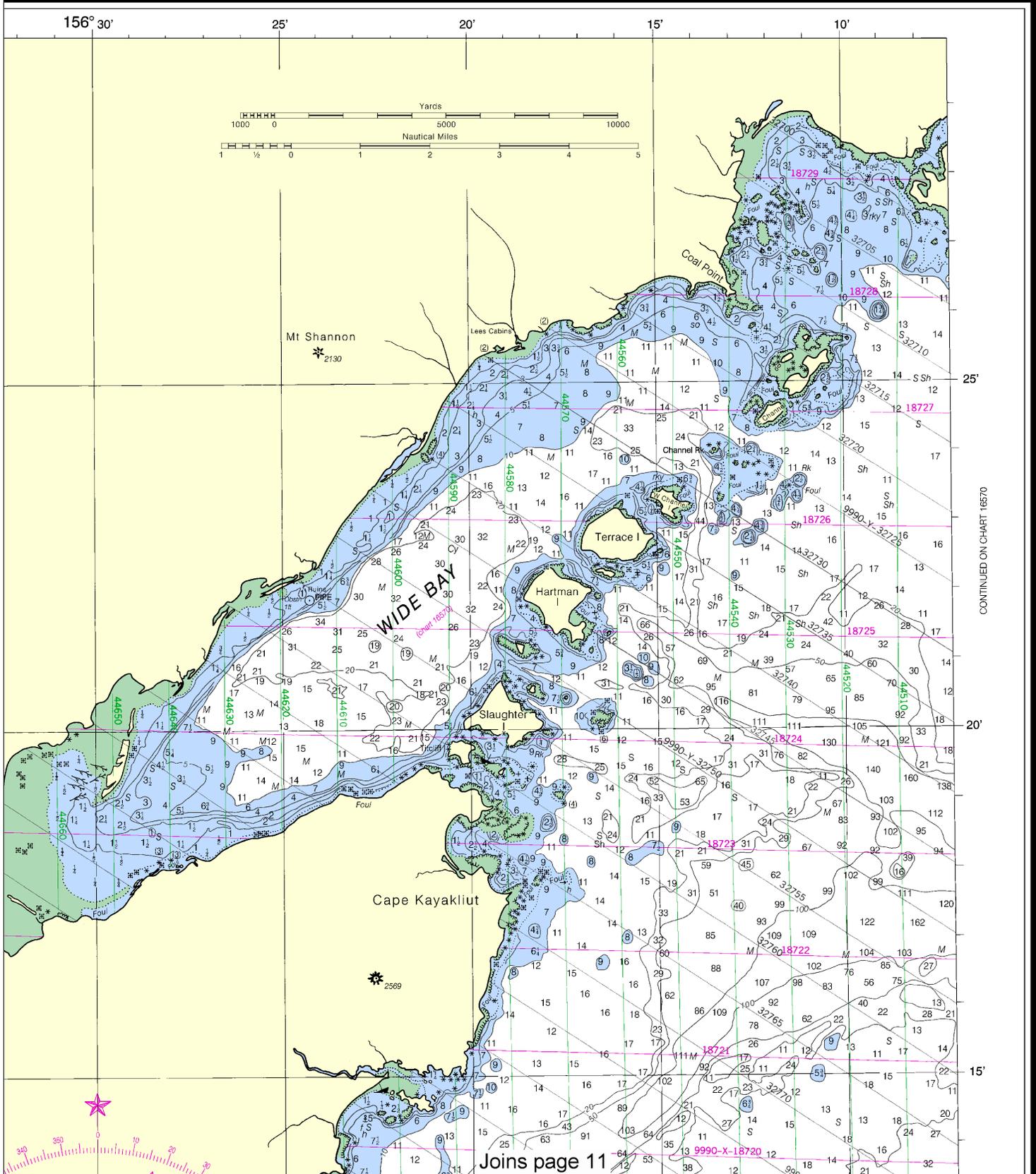
Note: Chart grid lines are aligned with true north.

38 1/2

# SOUNDINGS IN FATHOMS

16568

LOPAN-C OVERPRINTED



This BookletChart has been updated through: Coast Guard Local Notice To Mariners: 4812 11/27/2012,  
NGA Weekly Notice to Mariners: 4812 12/1/2012,  
Canadian Coast Guard Notice to Mariners: 0912 9/28/2012.



15'

### Joins page 4

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

Bottom characteristics:

Bds boulders	Co coral	gy gray	Oys oysters
bk broken	G gravel	h hard	Rk rock
Cy clay	Gr grass	M mud	S sand
			so soft
			Sh shells
			sy sticky

Miscellaneous:

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

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#### HEIGHTS

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

#### AUTHORITIES

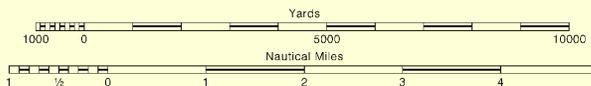
Hydrography and topography by the National Ocean Service, Coast Survey with additional data from U. S. Coast Guard and Geological Survey.

#### CAUTION

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

#### SUPPLEMENTAL INFORMATION

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



#### 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. New Editions are available 5-8 weeks before their release as traditional NOAA charts. Ask your chart agent about Print-on-Demand charts or contact NOAA at 1-800-584-4683, <http://NauticalCharts.gov>, [help@NauticalCharts.gov](mailto:help@NauticalCharts.gov), or OceanGrafix at 1-877-56CHART, <http://OceanGrafix.com>, or [help@OceanGrafix.com](mailto:help@OceanGrafix.com).

#### AIDS TO NAVIGATION

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

#### 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.

#### LOCAL MAGNETIC DISTURBANCE

Differences of as much as 14° from the normal variation have been observed on Terrace Island and as much as 3° on East Channel Island.

#### COLREGS, 80.1705 (see note A)

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

#### NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 9. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 17th Coast Guard District in Juneau, Alaska, or at the Office of the District Engineer, Corps of Engineers in Anchorage, Alaska.

Refer to charted regulation section numbers.

#### POLLUTION REPORTS

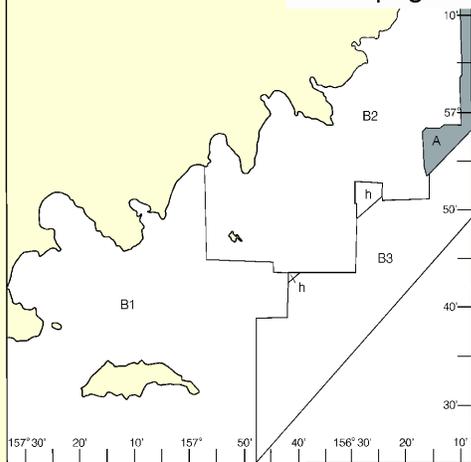
Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or Coast Guard facility if telephone com-  
-municable (33 CFR 153).

### Joins page 12

57°



Note: Chart grid lines are aligned with true north.



 Mt Chiginagak  
7000

**LORAN-C  
GENERAL EXPLANATION**

LORAN-C FREQUENCY..... 100kHz  
 PULSE REPETITION INTERVAL  
 9990..... 99,900 Microseconds  
 STATION TYPE DESIGNATORS: (Not individual station  
 letter designators).  
 M..... Master  
 W..... Secondary  
 X..... Secondary  
 Y..... Secondary  
 Z..... Secondary

EXAMPLE: 9990-X

**RATES ON THIS CHART**

9990-X 9990-Y 9990-Z

Loran-C correction tables published by the National Geospatial-Intelligence 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.

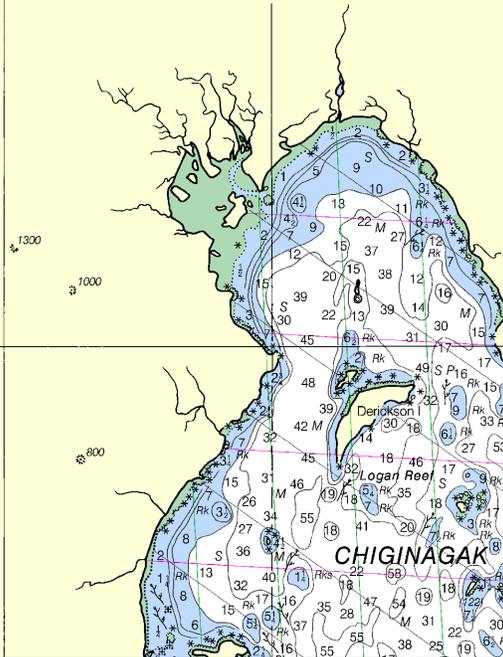
**RADAR REFLECTORS**

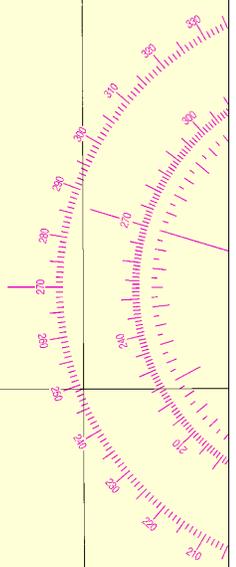
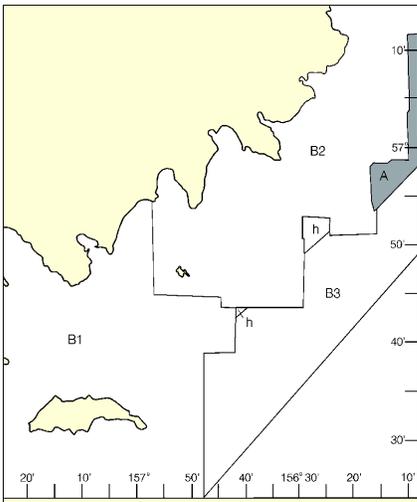
Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

**UPDATING SERVICE**

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**CAUTION**  
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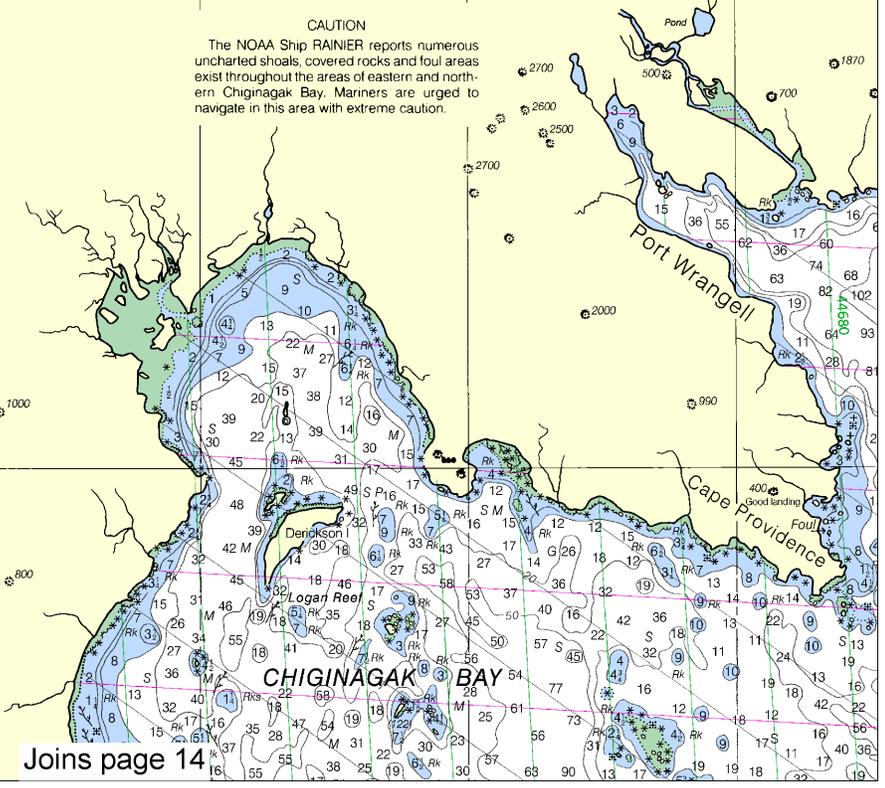




Mt Chiginagak  
7000

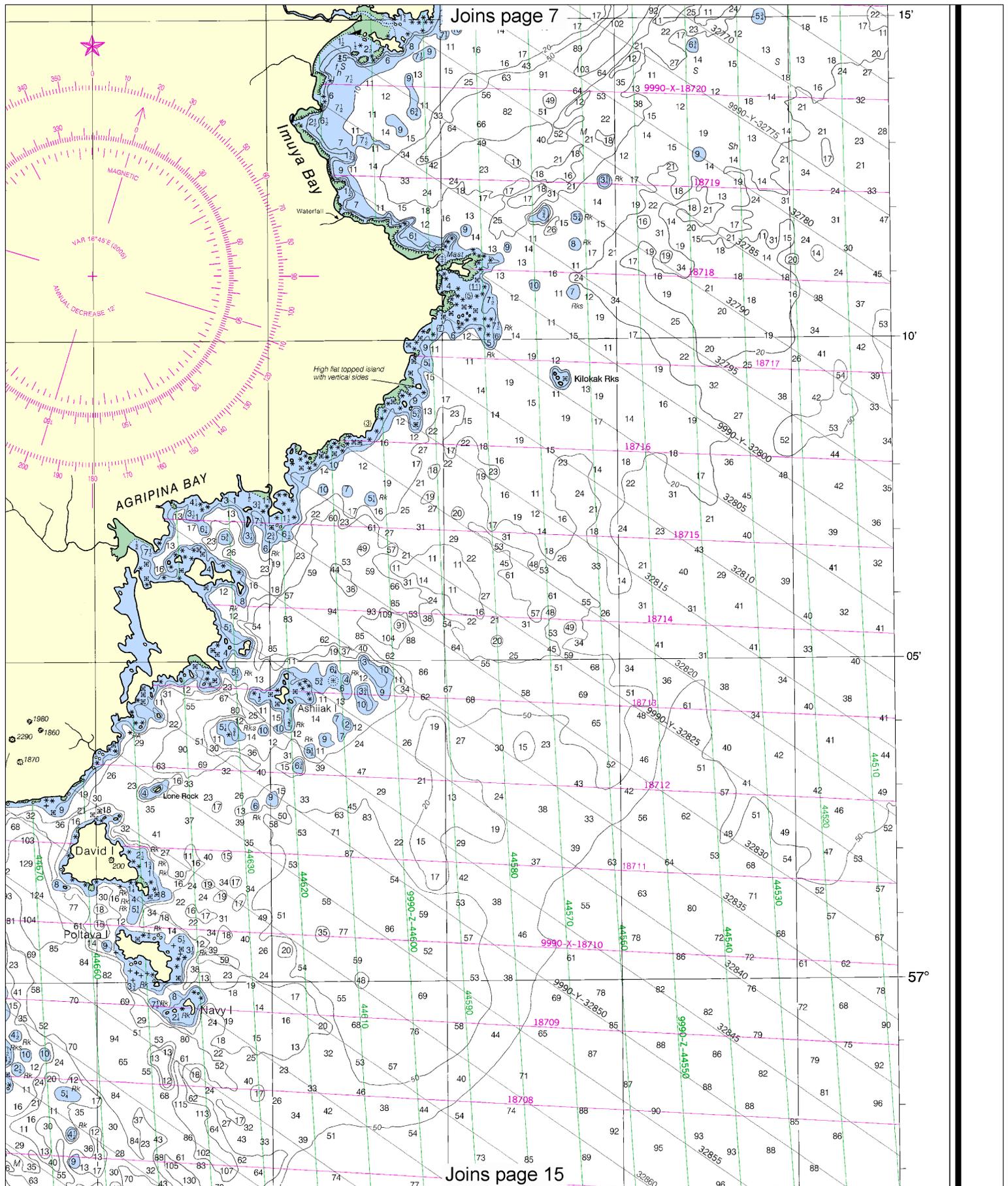
Joins page 9

**CAUTION**  
The NOAA Ship RAINIER reports numerous uncharted shoals, covered rocks and foul areas exist throughout the areas of eastern and northern Chiginagak Bay. Mariners are urged to navigate in this area with extreme caution.



Joins page 14

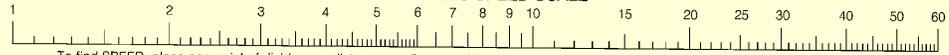
rections available Service.



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).

LOGARITHMIC SPEED SCALE



To find SPEED, place one point of dividers on distance run (in any unit) and the other on minutes run. Without changing divider spread, place right point on 60 and left point will then indicate speed in units per hour. Example: with 4.0 nautical miles run in 15 minutes, the speed is 16.0 knots.

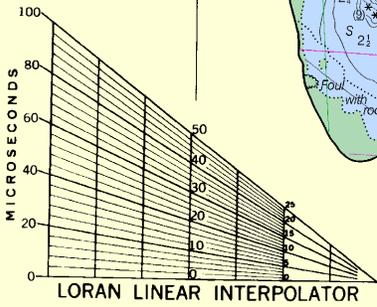
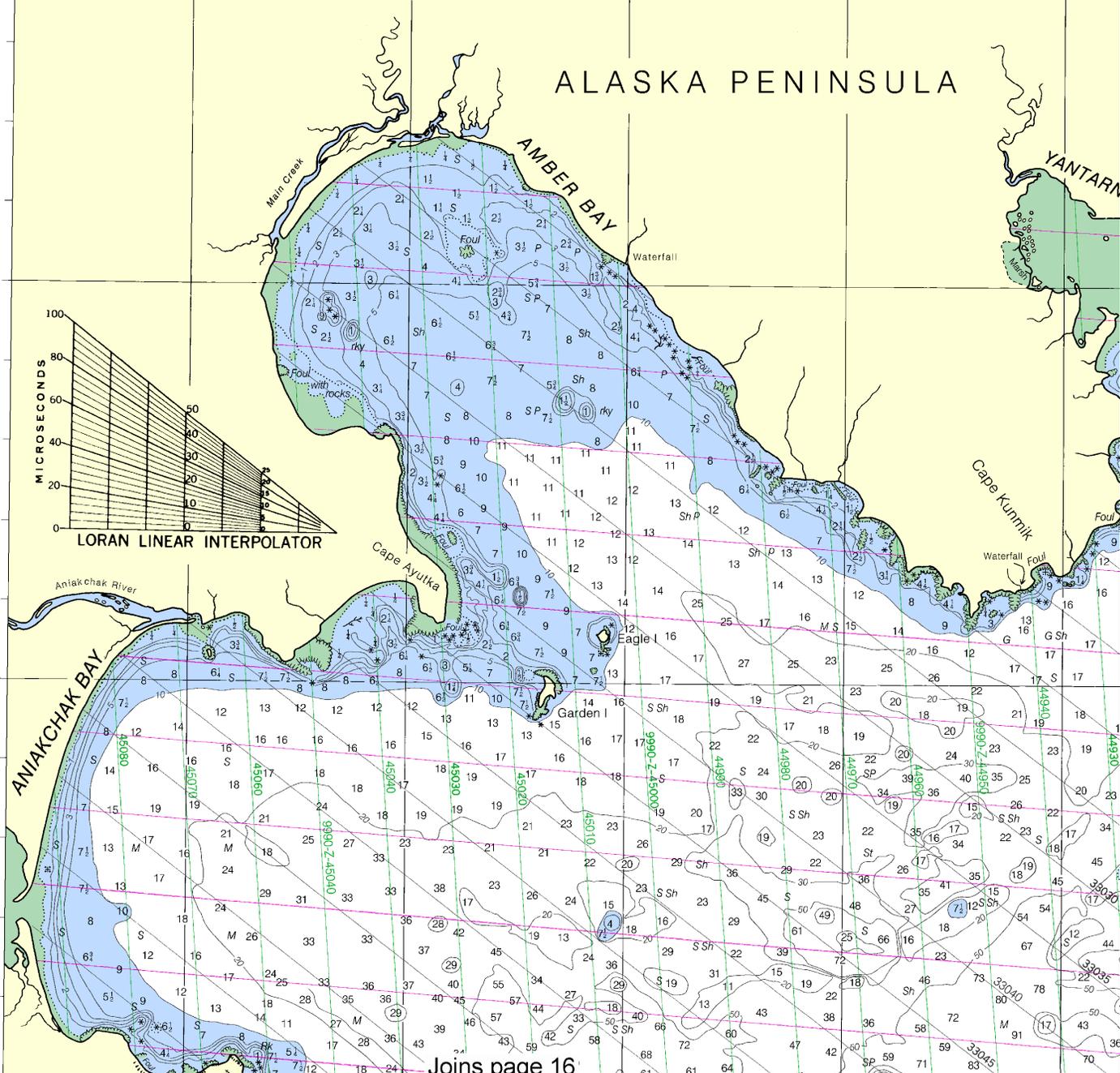
55'

50'

45'

40'

ALASKA PENINSULA



Note: Chart grid lines are aligned with true north.

these aids has been omitted from this chart.

UPDATING SERVICE

FOR THIS CHART, a listing of NOTICE TO MARINERS corrections subsequent to the date shown in the lower left hand corner is available from the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

HORIZONTAL DATUM

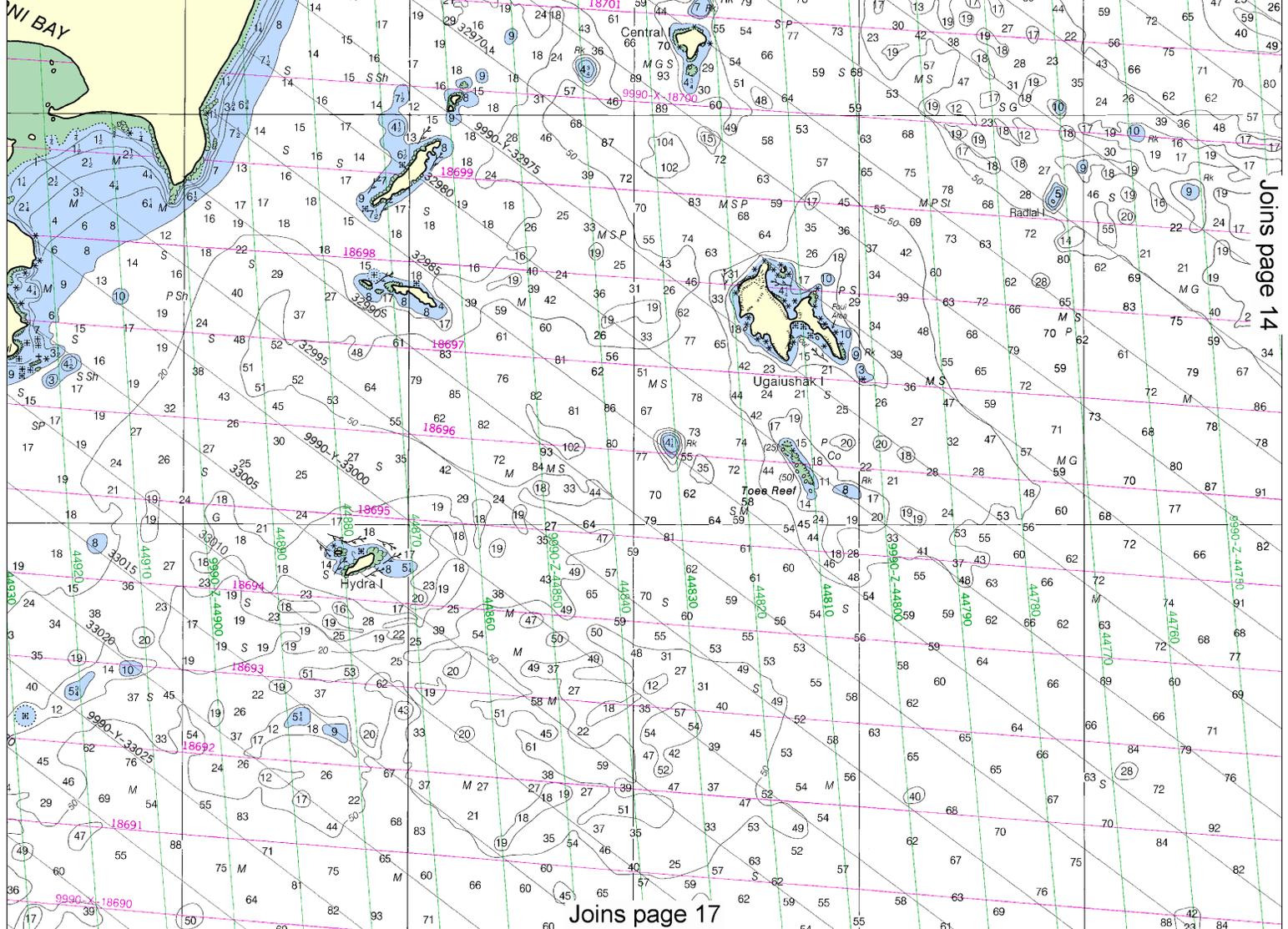
The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 2.65" southward and 7.400" westward to agree with this chart.

Joins page 9

CHIGINAGAK

NAKALLOK BAY

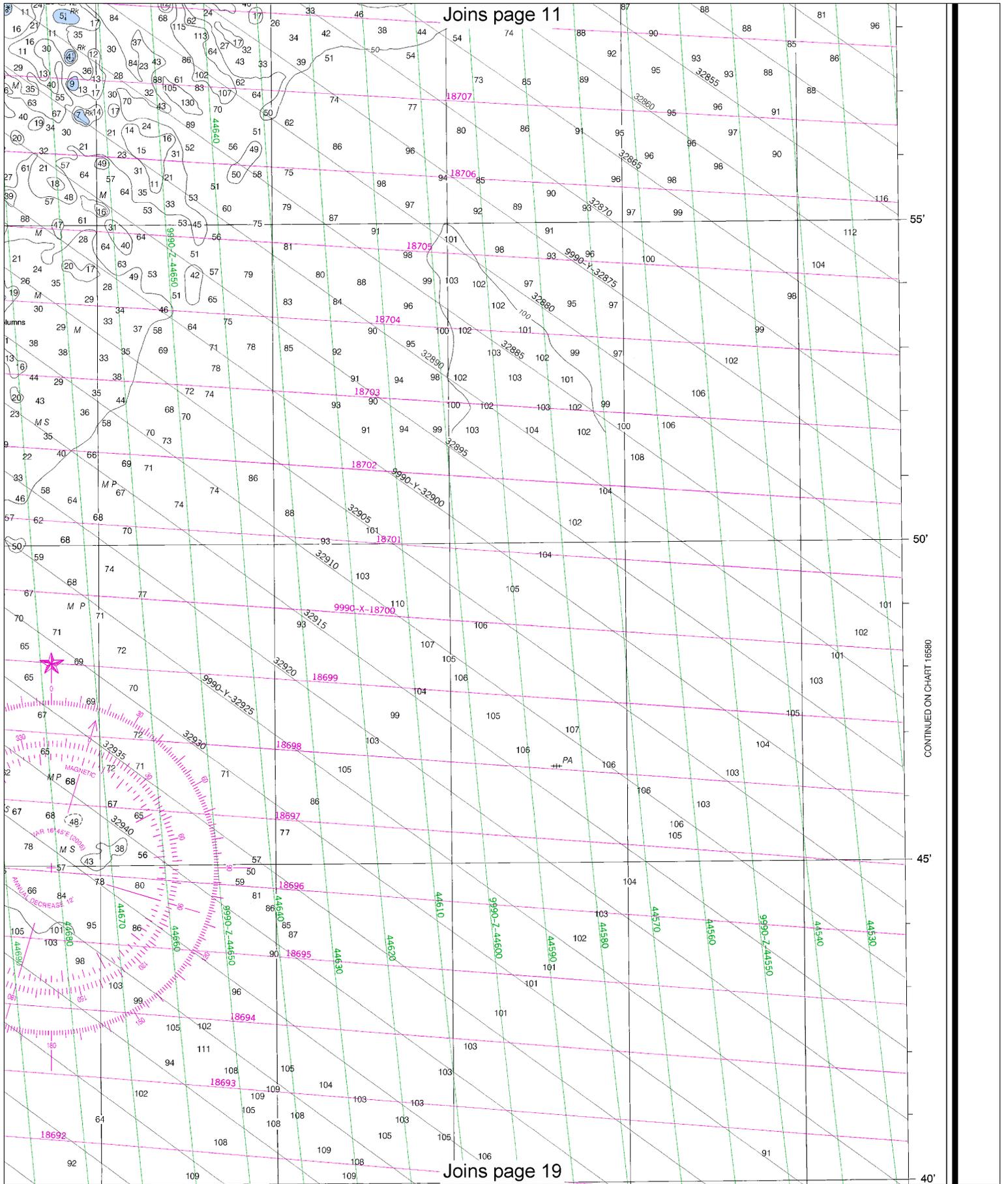
Cape Kuyuyukak



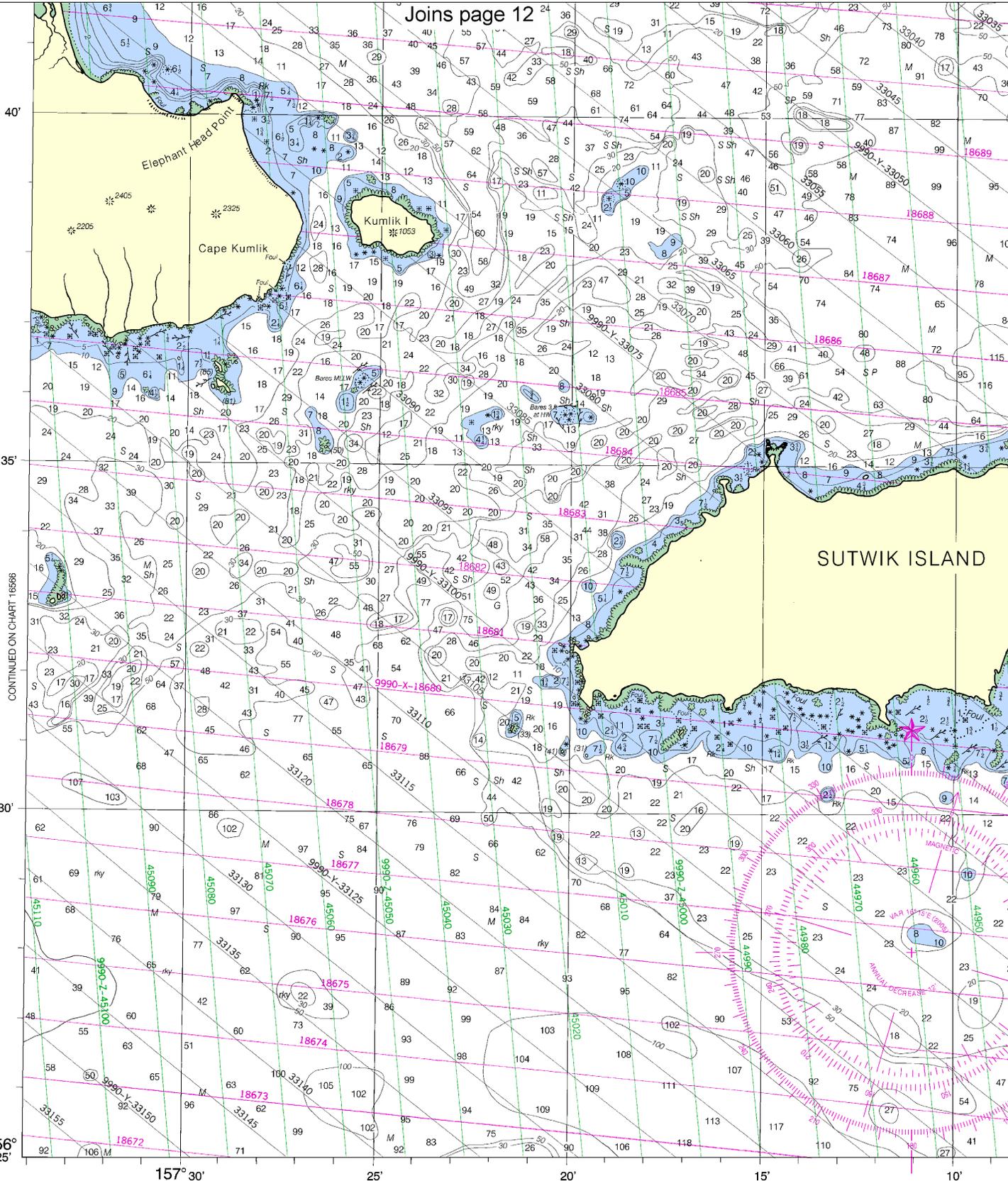
Joins page 14

Joins page 17





CONTINUED ON CHART 16580



CONTINUED ON CHART 16566

13th Ed., Sep. / 05 ■ Corrected through NM Sep. 24/05  
Corrected through LNM Sep. 13/05

**16568**

LORAN-C OVERPRINTED

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.

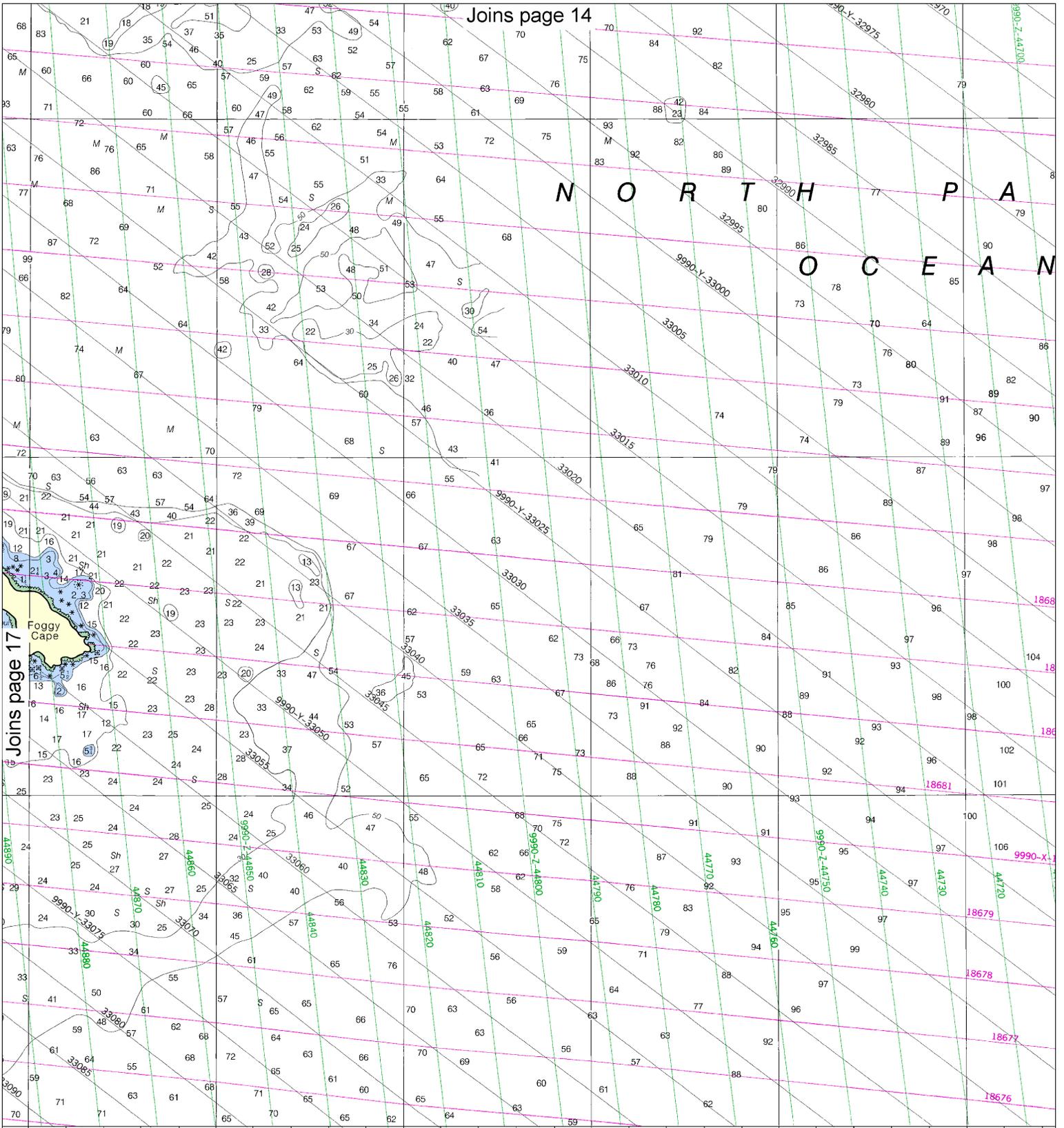
This nautical chart has been designed to promote safe navigation. Ocean Service encourages users to submit corrections, additions, or improvements to the Chief, Marine Chart Division (N/C2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

**16**

Note: Chart grid lines are aligned with true north.



# N O R T H O C E A N



Joins page 17

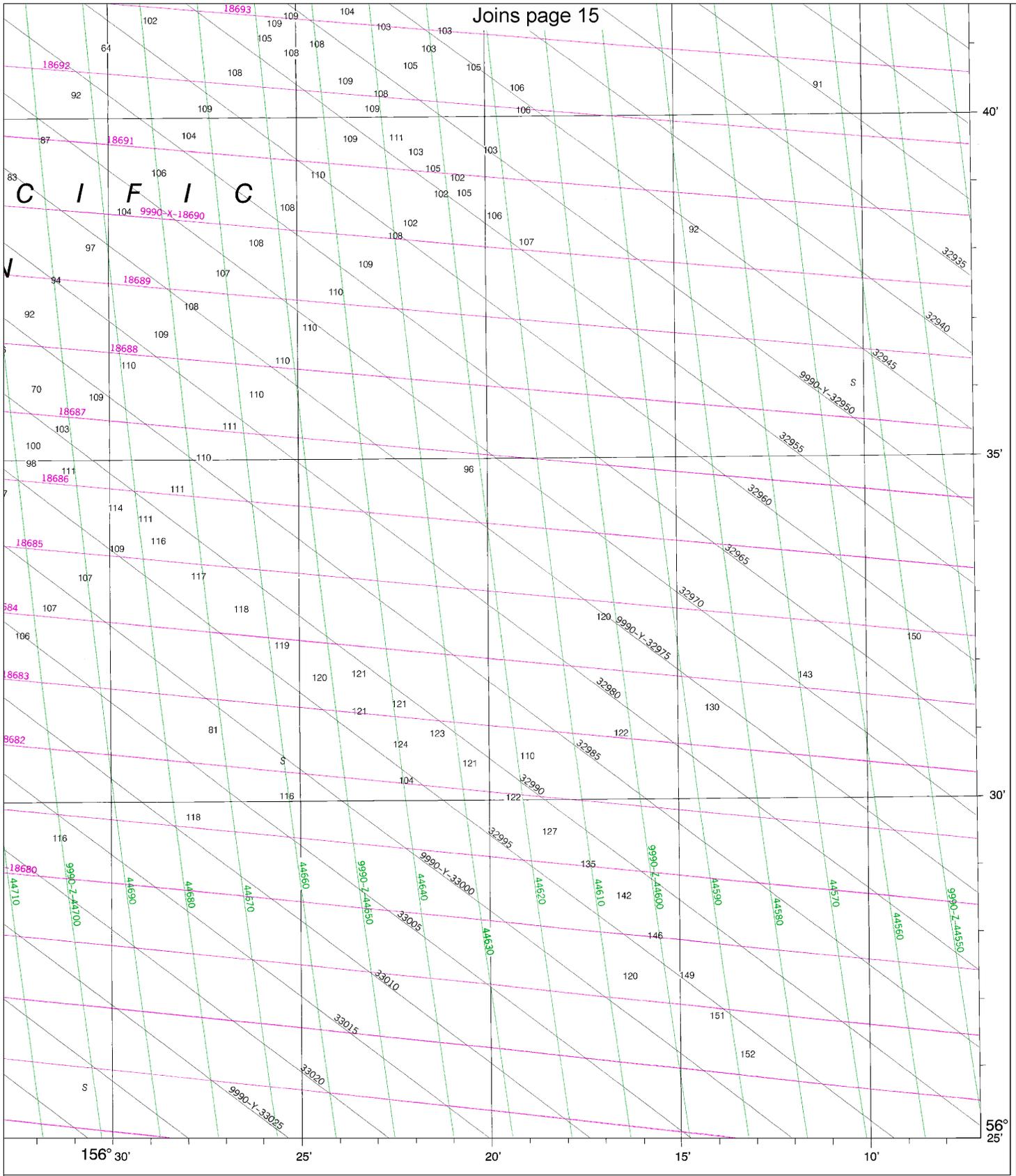
157° 55' CONTINUED ON CHART 16013 50' 45' 40' 35'

## 18 FATHOMS

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

# 18

Note: Chart grid lines are aligned with true north.



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

Wide Bay to Cape Kumlik  
SOUNDINGS IN FATHOMS - SCALE 1:106,600

**16568**  
LORAN-C OVERPRINTED





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>



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