

BookletChart™



Port Clarence and Approaches

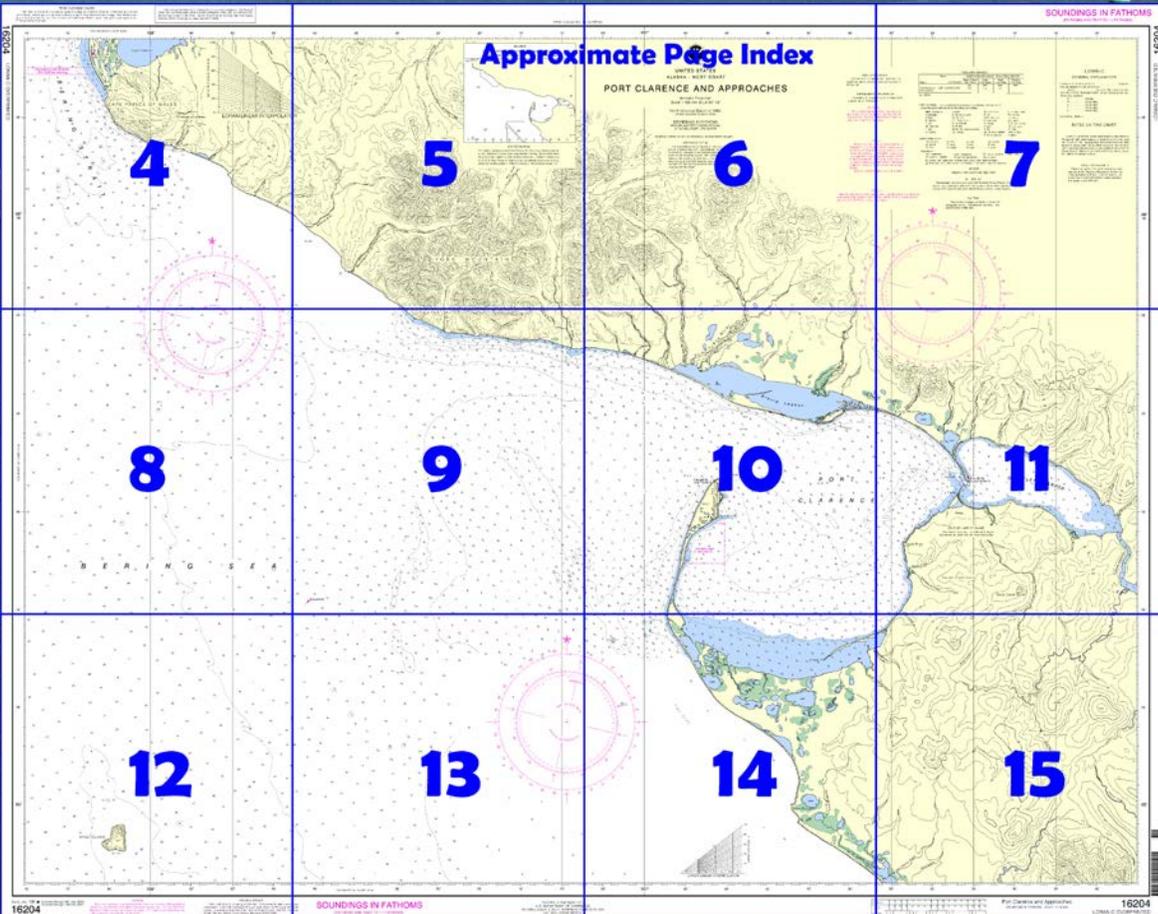
NOAA Chart 16204

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=16204>.



(Selected Excerpts from Coast Pilot)

Port Clarence, a large bay indenting the Seward Peninsula about 35 miles SE of Cape Prince of Wales, provides the only good harbor close to the Bering Strait. The bay is formed by a low sandspit which extends from the mainland in a N direction for about 10 miles to **Point Spencer**.

Point Spencer Light (65°16'38"N., 166°50'56"W.), 22 feet (6.7 m) above the water, is shown seasonally from a skeleton tower with a red and white diamond-

shaped daymark on the N end of the point at the entrance to Port Clarence. The light is the only conspicuous landmark to aid the navigator in making the entrance into Port Clarence.

The channel between Point Spencer and **Point Jackson** on the N shore is 4 miles wide, free of dangers, and with depths of 7 to 8 fathoms. The N half of the bay has a general depth of 7 fathoms as close a 1 mile from shore and depths shoal gradually to the beach. The only danger is a visible wreck about 125 feet (38 m) south of the coastline in 65°20'04"N., 166°44'37"W. The S half of the bay shoals gradually to the bars and flats along the low shoreline at the S end. Along the W side of the bay the sandspit may be approached fairly close except for the shoal 2 miles S of Point Spencer which makes into the bay from the spit with depths of 2½ fathoms 1 mile off. To the E the water shoals to the entrance to **Grantley Harbor**, which is connected with Port Clarence by a narrow channel marked by **Grantley Harbor Light** (65°16'36N., 166°20'52"W.), 15 feet (4.6 m) above the water, which is seasonally shown from a tower with a green and white diamond-shaped daymark on the N side of the entrance to the harbor. The controlling depth in the channel is not more than 1½ fathoms. The channel is subject to continual change; local knowledge is advised. The current is strong with many eddies and tide rips.

Anchorage.—Anchorage with good holding ground is available anywhere in Port Clarence with the best holding ground on the eastern side. Being very careful in the entrance, shallow-draft vessels will find greater protection in Grantley Harbor.

Currents.—Along the outside coast W of Point Spencer and S of Cape York there is a general W set of 1 to 2 knots. This velocity is appreciably affected by direction, force, and duration of the wind.

Current observations in the entrance to Port Clarence indicate that the velocity seldom exceeds 0.5 knot 2 to 3 miles N of Point Spencer. One mile E of the point, velocities up to 1 knot were observed, the larger velocities generally setting W or N.

Brevig Mission is a small village on the N shore of Port Clarence about 9.5 miles NE of Point Spencer. Approaches to the village are easily made from any general direction, but approach from the SW is best. There is deep water all the way to the shore at the village, and the gravel beach makes a good landing spot to beach a skiff. The beach at Brevig Mission is steep. The water depths hold fairly consistent until within close proximity to shore.

Teller, a village about 12 miles E of Point Spencer, is on the base of the S spit at the entrance to Grantley Harbor. The village can be seen from Port Clarence, however, most small vessels and skiffs beach or tie-off to shore on the Grantley Harbor side. Enter Grantley Harbor by heading to the NE corner of Port Clarence until the N and S spits are visible. A seasonal light is near the end of N spit, and a daybeacon is at the end of S spit. When inside Grantley Harbor, good approach to the village was made by continuing E for another 500 yards then turning S.

Imuruk Basin (see chart 16200) is a shallow body of water SE of Grantley Harbor; the two are connected by narrow, difficult **Tuksuk Channel**.

Kuzitrin River rises in the Seward Peninsula and flows in a W direction about 75 miles to Imuruk Basin. The anchorage for oceangoing vessels is in Port Clarence, the head of navigation for powerboats and other vessels up to 12 feet in draft in the mouth of Kuzitrin River. Shallow-draft lighters can navigate the Kuzitrin for about 15 miles to **Shelton**. The river is open from June to October.

**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 Mar. 20/04
Corrected through LNM Mar. 09/04

HEIGHTS
Heights in feet above Mean High Water.

Mercator Projection
Scale 1:100,000 at Lat 65° 18'

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FATHOMS
(FATHOMS AND FEET TO ELEVEN FATHOMS)
AT MEAN LOWER LOW WATER

GRANTLEY HARBOR CHANNEL
The channel is subject to continual changes and should be used only with local knowledge.

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.

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 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 2.788' southward and 9.738' westward to agree with this chart.

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.

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 the Corps of Engineers, Geological Survey, U.S. Coast Guard, and National Geospatial-Intelligence Agency.

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.

NOTE D
Mariners should exercise caution when transiting this area when the small arms firing range at 65°14'24"N, 166°52'18"W is in use. Monitor channel 16 VHF-FM for times of operation.

GENERAL EXPLANATION

LO-RAN-C
LO-RAN-C FREQUENCY 100MHz
PULSE REPEATITION INTERVAL 99.900 Microseconds
STATION TYPE DESIGNATORS: (Not individual station letter designators):
M Master
W Secondary
X Secondary
Y Secondary
Z Secondary

RATES ON THIS CHART
9990-X 9990-Y 9990-Z

LO-RAN-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 insure that 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 (NM) corrections subsequent to the NM corrected through 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.

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.

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	Extreme Low Water
Port Clarence, Bering Strait	(65°13'N/166°28'W)	feet 1.4	feet 1.3	feet 0.1	feet --

(Jan 2004)

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 stature 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:

Bds 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.

PRINT-ON-DEMAND CHARTS

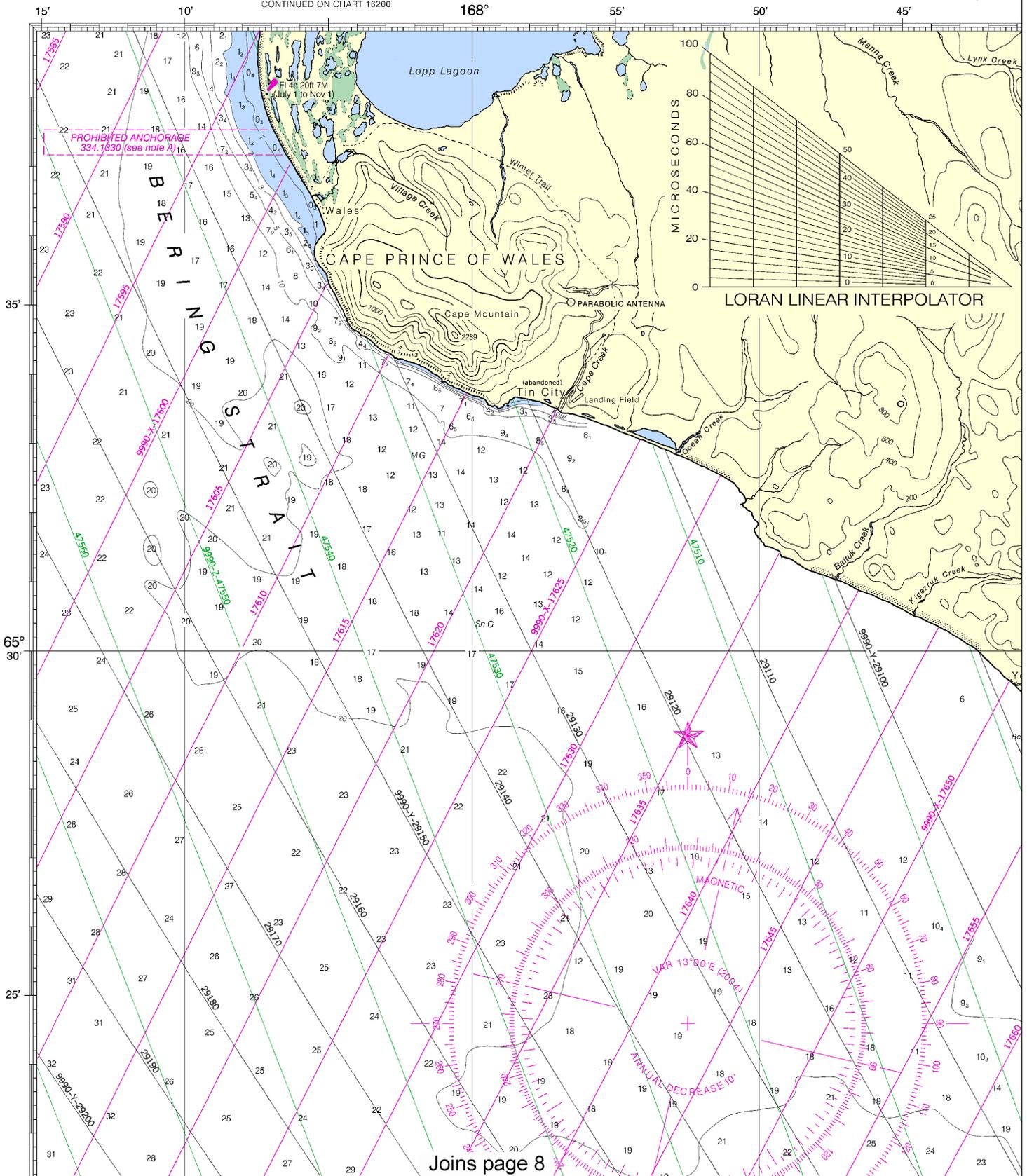
This chart is available in a version updated weekly by NOAA for Notices to Mariners and critical corrections. Charts are printed when ordered using Print-on-Demand technology. New Editions are available 5-8 weeks before their release as traditional NOAA charts. Ask your chart agent about Print-on-Demand charts.

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/C52), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

16204

LORAN-C OVERPRINTED

CONTINUED ON CHART 16200



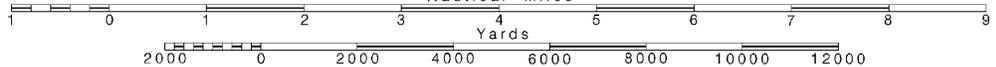
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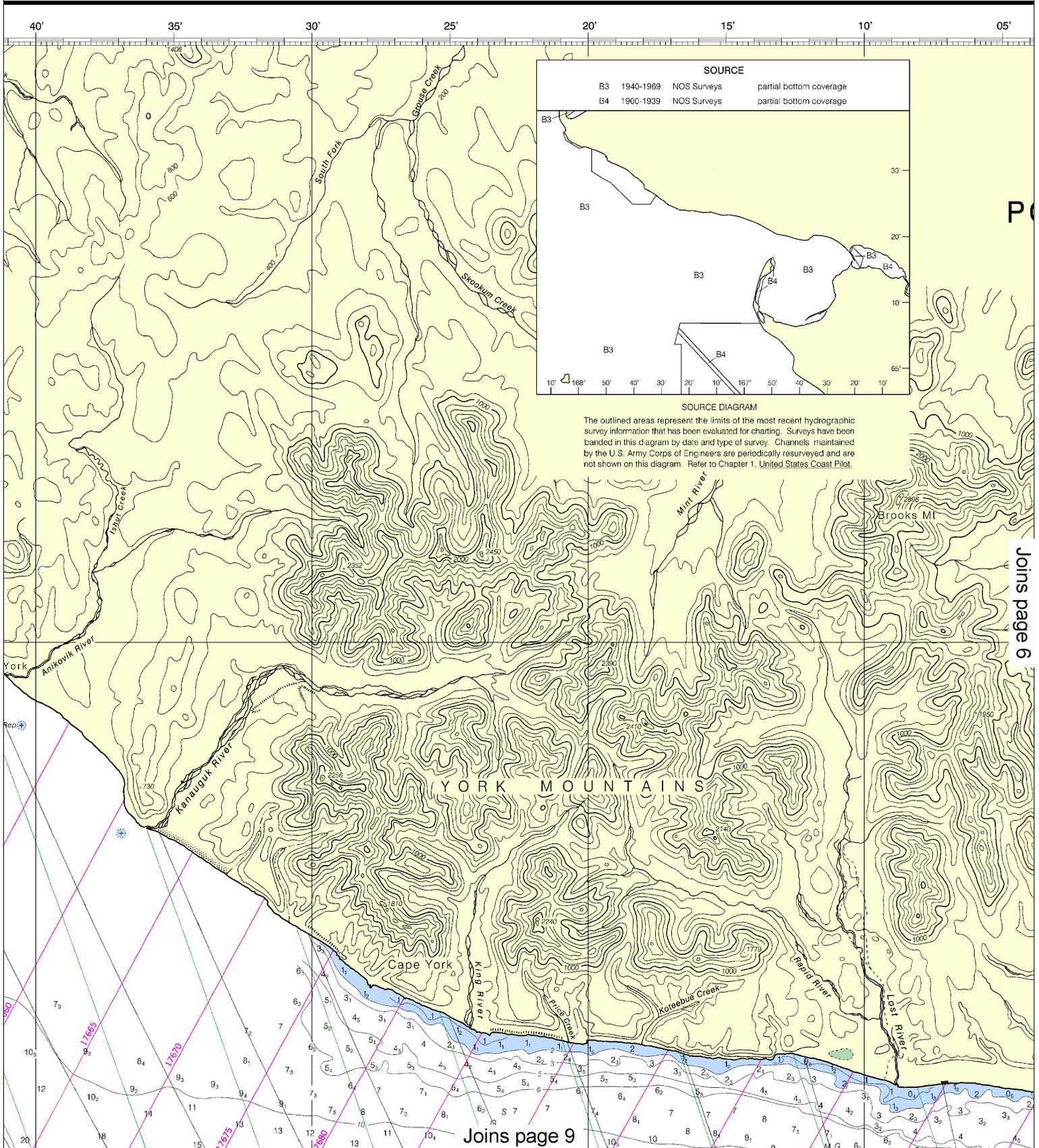
Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:100,000
Nautical Miles

See Note on page 5.





PO

Joins page 6

Joins page 9

This BookletChart was reduced to 70% of the original chart scale.
 The new scale is 1:142857. Barscales have also been reduced and
 are accurate when used to measure distances in this BookletChart.



10' 05' 167° 55' 50' 45' 40' 35'



UNITED STATES
ALASKA - WEST COAST

PORT CLARENCE AND APPROACHES

Mercator Projection
Scale 1:100,000 at Lat 65° 18'

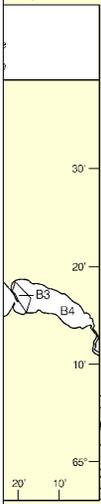
North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FATHOMS
(FATHOMS AND FEET TO ELEVEN FATHOMS)
AT MEAN LOWER LOW WATER

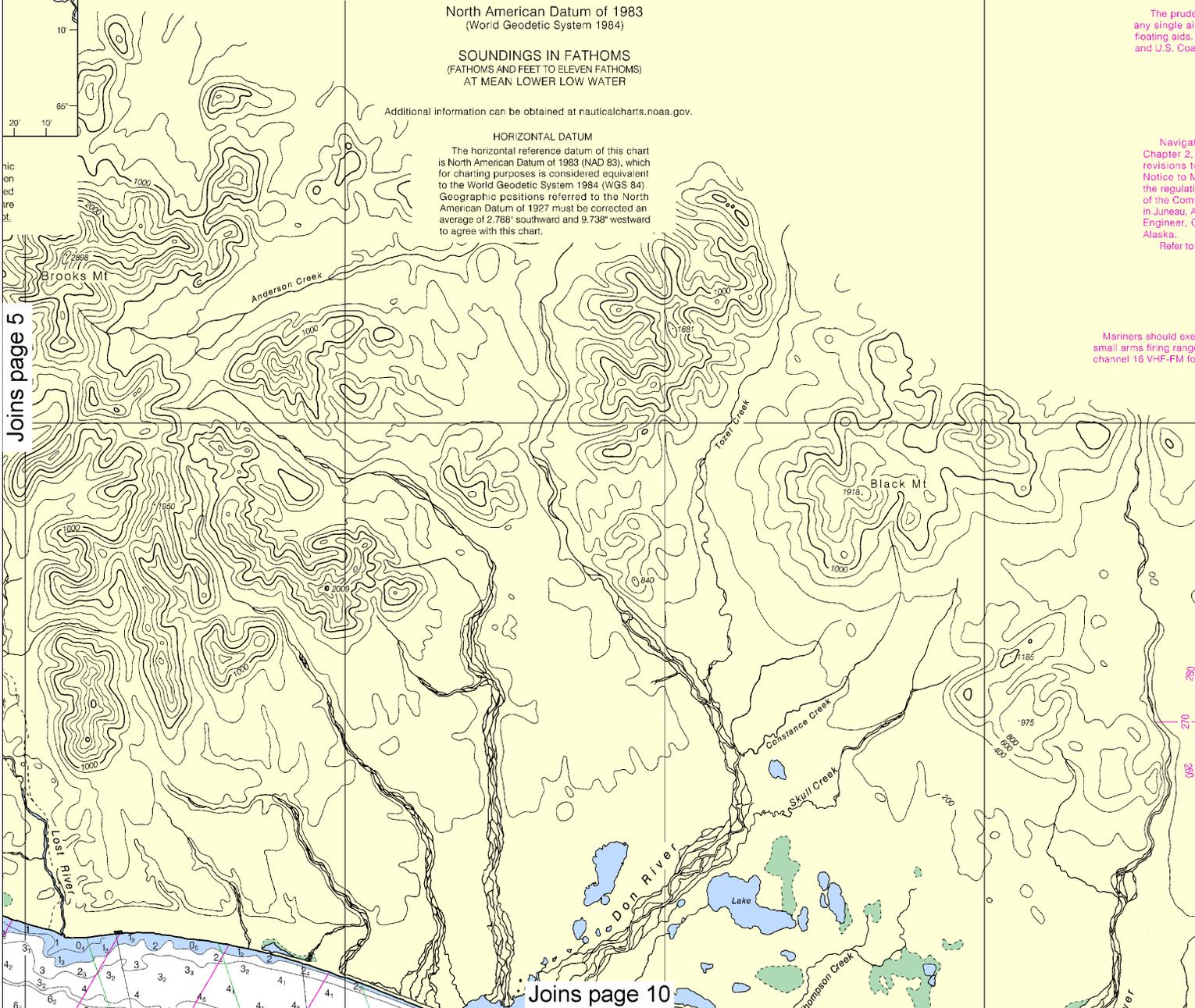
Additional information can be obtained at nauticalcharts.noaa.gov.

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 2.788" southward and 9.738" westward to agree with this chart.



Joins page 5



Joins page 10

Consult: U
supplemental
navigation.

SUPP
Consult
supplements

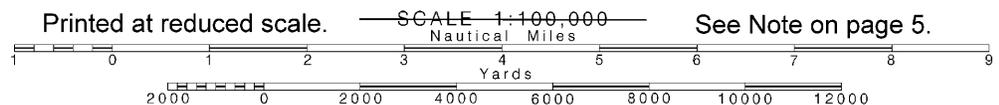
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and U.S. Coa

Naviga
Chapter 2,
revisions 1
Notice to M
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of the Com
in Juneau, A
Engineer, C
Alaska.
Refer to

Mariners should ex
small arms firing rang
channel 16 VHF-FM fo



Note: Chart grid lines are aligned with true north.



SOUNDINGS IN FATHOMS

(FATHOMS AND FEET TO 11 FATHOMS)

16204

LORAN-C OVERPRINTED

30' 25' 20' 15' 10' 05'

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

Name	Place (LAT/LONG)	TIDAL INFORMATION			
		Mean Higher High Water	Mean High Water	Mean Low Water	Extreme Low Water
Port Clarence, Bering Strait	(65°13'N/166°28'W)	1.4	1.3	0.1	--

ADDITIONAL INFORMATION
Refer to U.S. Coast Pilot 9 for important additional information.

WARNING
Independent mariner will not rely solely on this aid to navigation, particularly on this chart. See U.S. Coast Guard Light List and Coast Pilot for details.

NOTE A
Regulations are published in U.S. Coast Pilot 9. Additions or deletions to Chapter 2 are published in the Mariners' Information concerning regulations may be obtained at the Office of the Commander, 17th Coast Guard District Alaska, or at the Office of the District Engineer in Anchorage.

Refer to charted regulation section numbers.

NOTE D
Exercise caution when transiting this area when the light is in use. Monitor for times of operation.

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 HO lighthouse	Oc occulting	SFC 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
F flashing	Mkr marker	Ra Ref radar reflector	WHIS whistle
		R Bn radiobeacon	Y yellow

Bottom characteristics:

Bls 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	Coast obstruction	PD position doubtful	Subm submerged
ED existence doubtful	PA position approximate	Rap 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, with additional data from the Corps of Engineers, Geological Survey, U.S. Coast Guard, and National Geospatial-Intelligence Agency.

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

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.

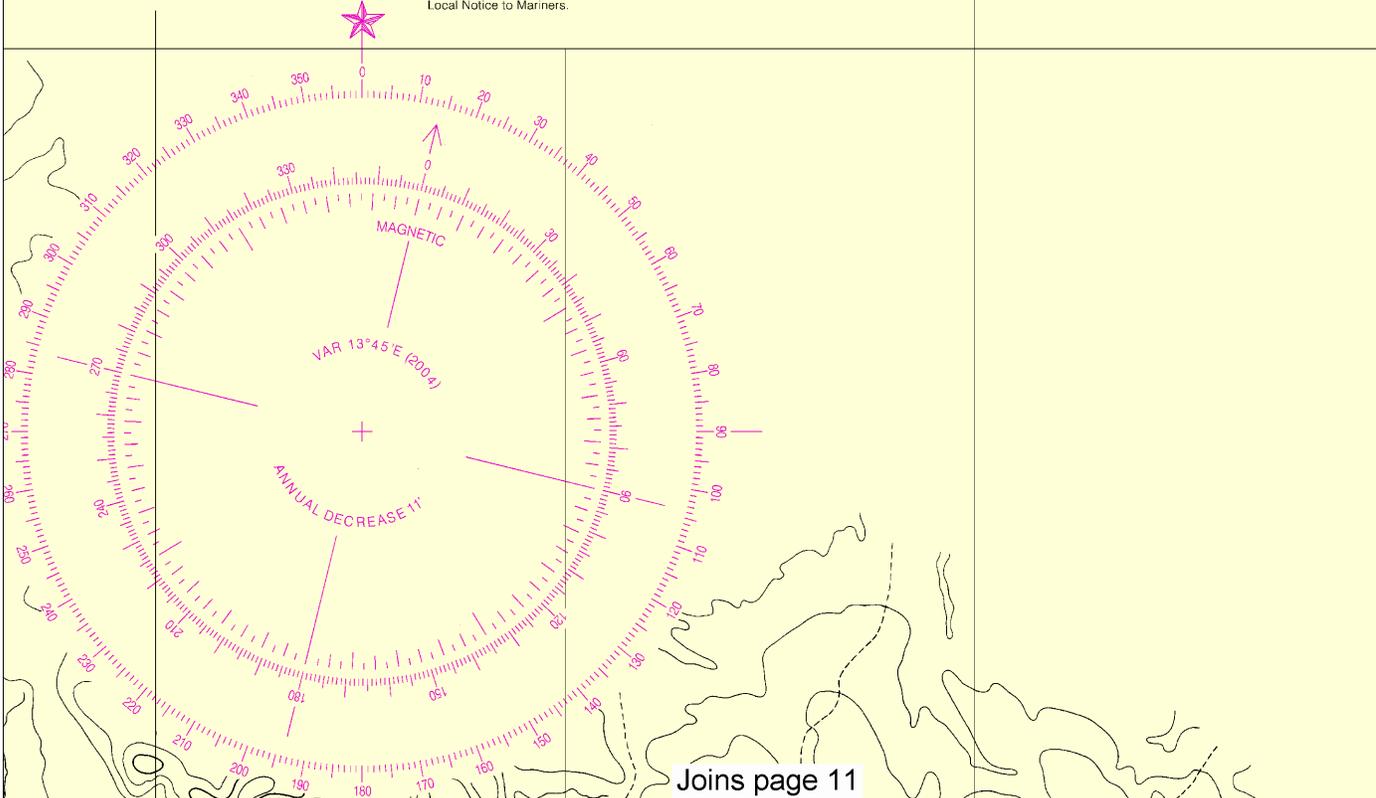
POLLUTION REPORTS

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).

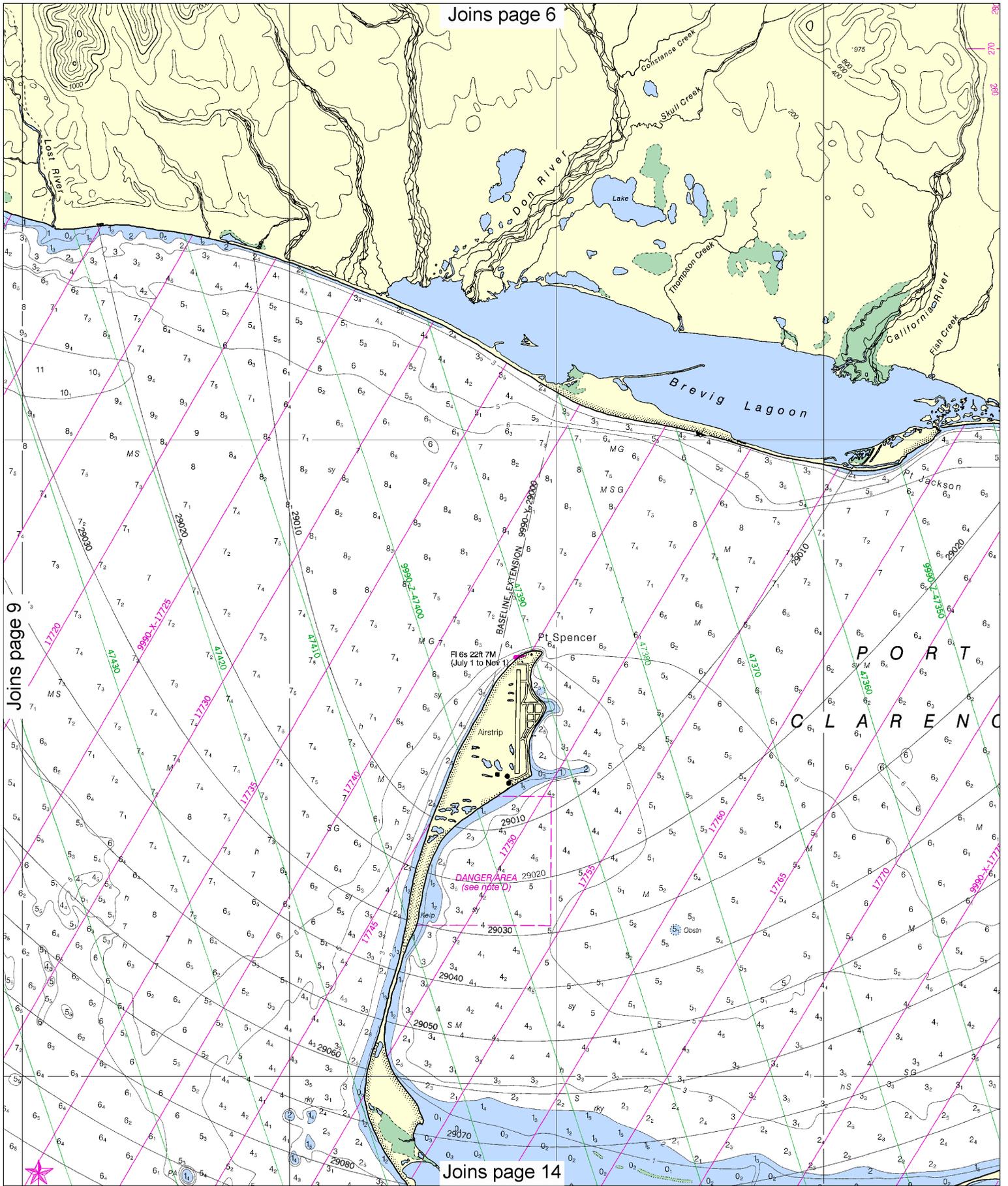
35'

65° 30'

25'



Joins page 11



Joins page 9

Joins page 14

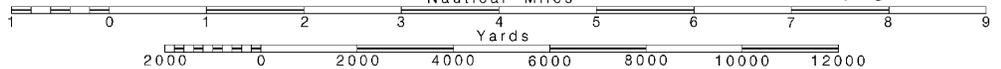
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Note: Chart grid lines are aligned with true north.

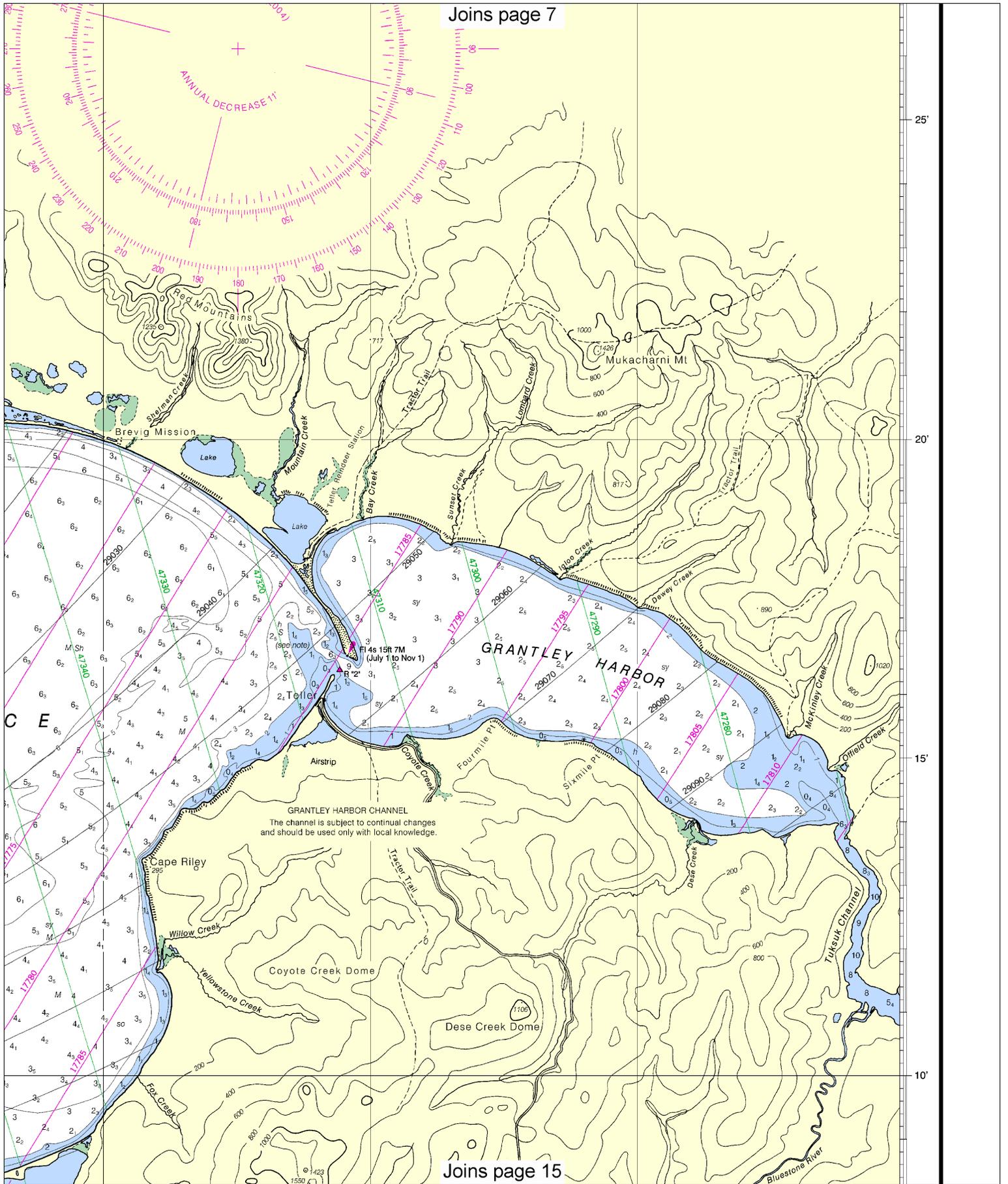
Printed at reduced scale.

SCALE 1:100,000
Nautical Miles

See Note on page 5.



Joins page 7



Joins page 15

B E R I N G S E A

10'

05'

65°

15' 10' 05' 168° 55' 50' 45'

6th Ed., Mar. / 04 ■ Corrected through NM Mar. 20/04
Corrected through LNM Mar. 09/04

16204

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.

UPDATING SERVICE

FOR THIS CHART, a listing of NOTICE TO MARINERS (NM) corrections subsequent to the NM corrected through 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.

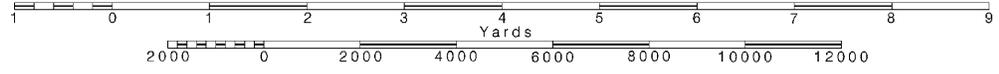
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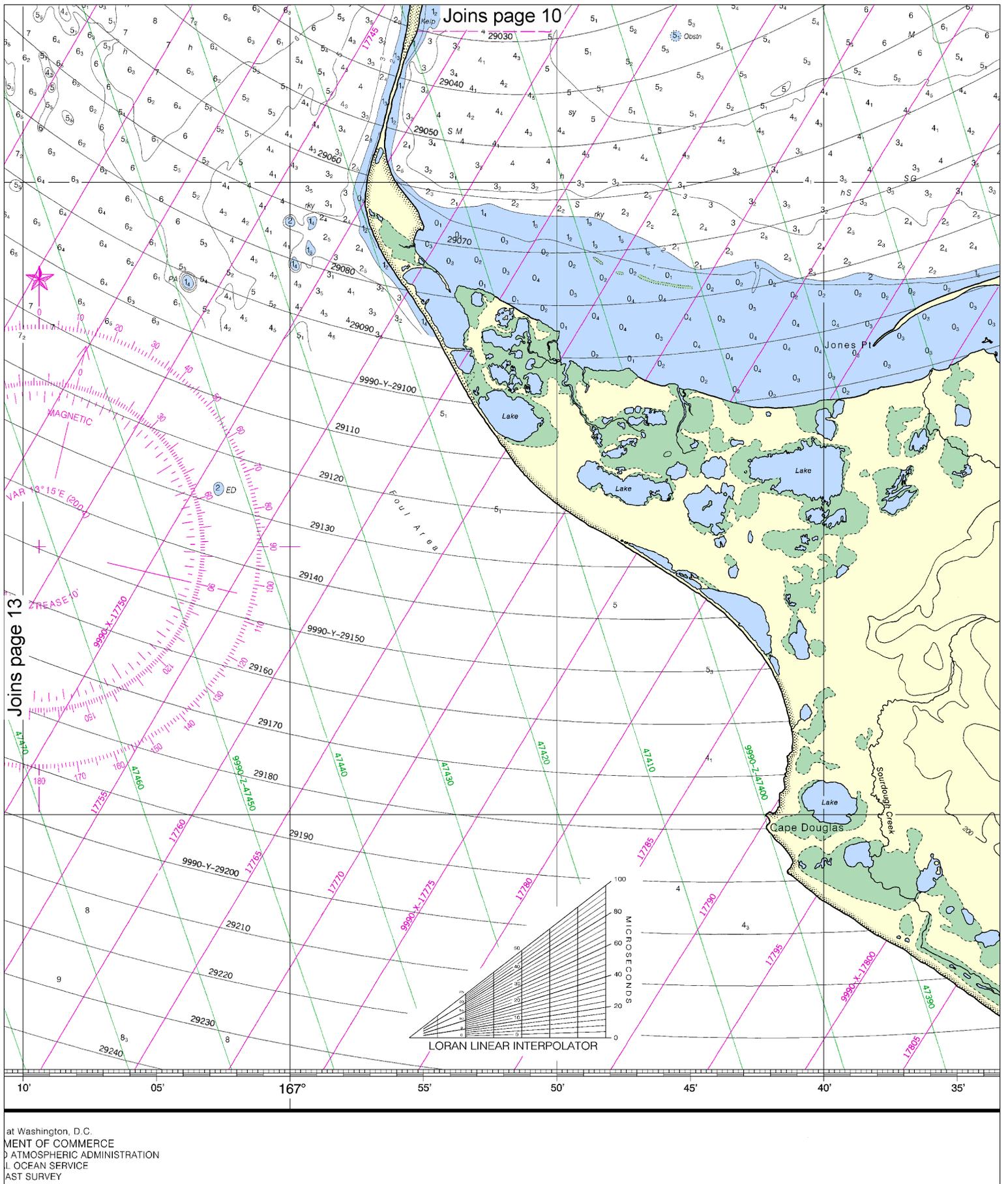
Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:100,000

See Note on page 5.





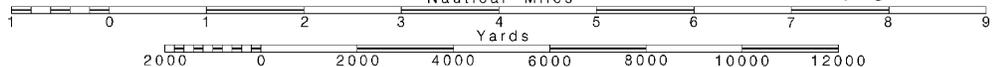
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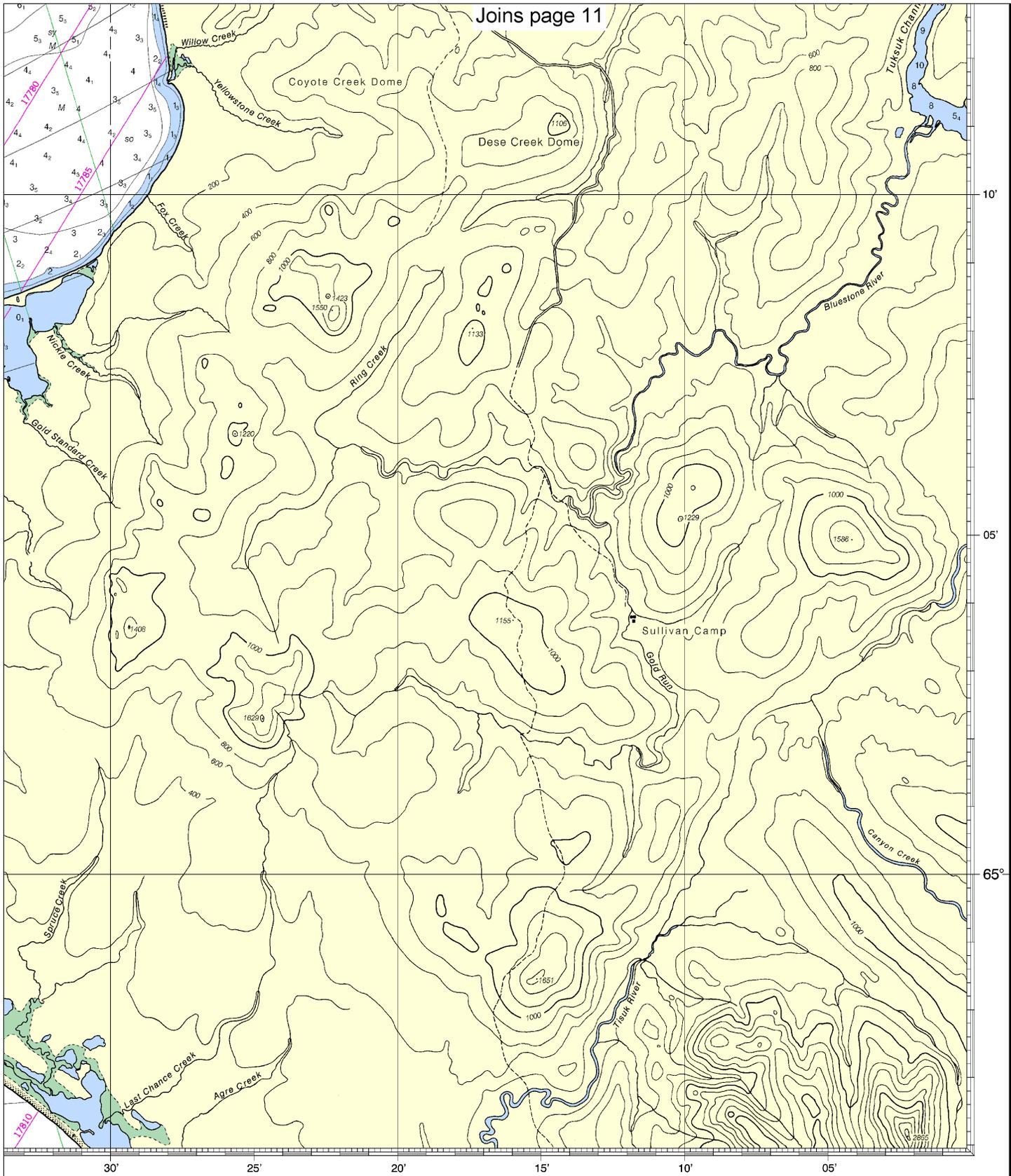
Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:100,000
 Nautical Miles

See Note on page 5.





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

Port Clarence and Approaches
SOUNDINGS IN FATHOMS - SCALE 1:100,000

16204
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
- 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.

