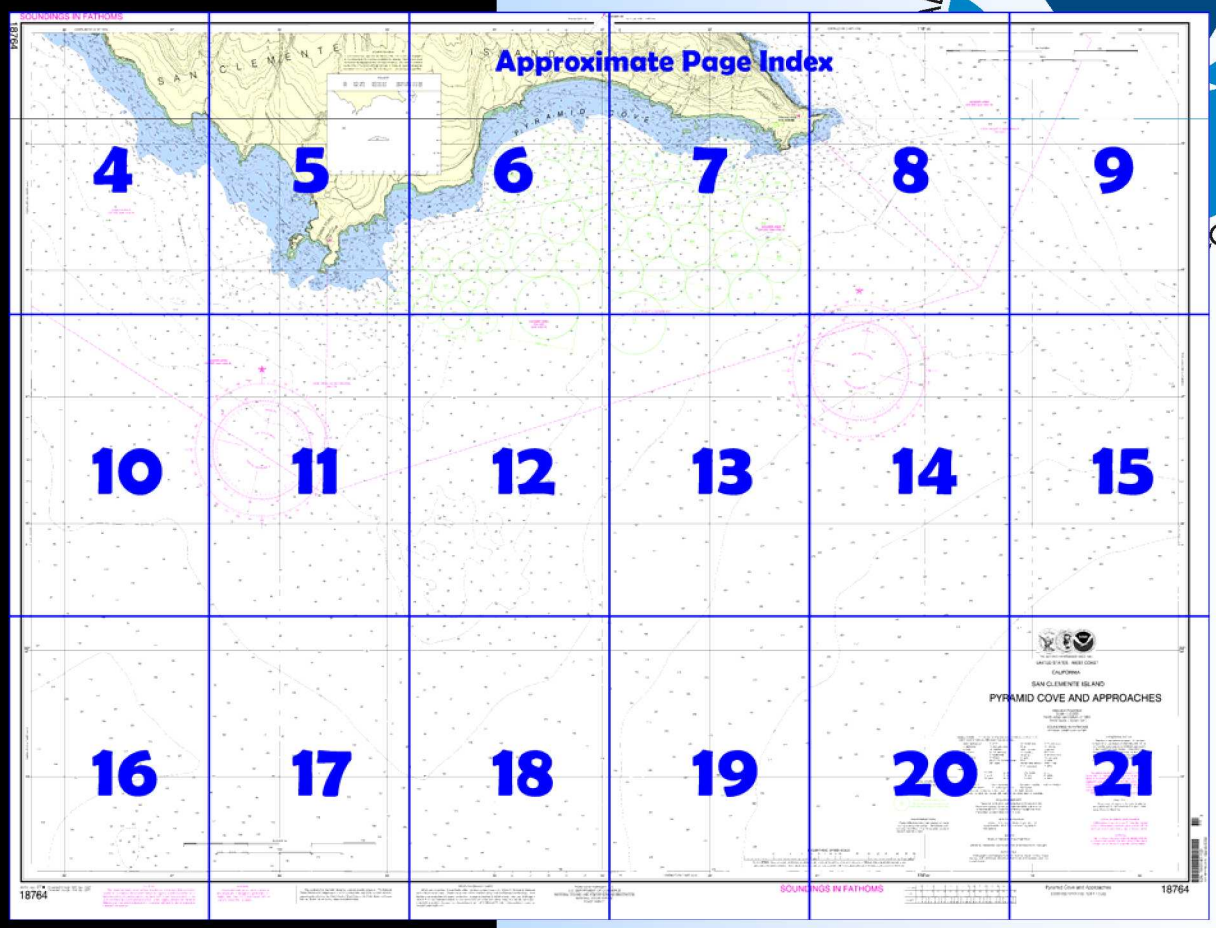
BookletChart™

San Clemente Is – Pyramid Cove and Approaches

(NOAA Chart 18764)

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 all Notices to Mariners*
- ☑ *United States Coast Pilot excerpts*
- ☑ *Compiled by NOAA, the nation's chartmaker.*



Home Edition (not for sale)

Published by the
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Coast Survey
www.NauticalCharts.NOAA.gov
301-713-2770

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™?

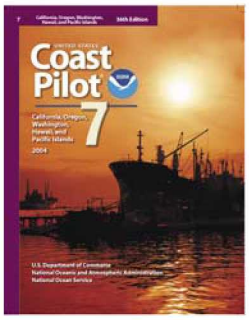
This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this 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.



[Coast Pilot 7, Chapter 5 excerpts]

(24) **San Clemente Island,** 43 miles SSW of Point Fermin and 57 miles WNW of Point Loma, is 18 miles long in a NW direction and 4 miles wide at its widest part, and reaches an elevation of 1,965 feet. The island is a U.S. Naval Reservation and is closed to the public. Vessels including yachts and fishing craft are warned that the vicinity of the island may be dangerous at any time because of naval activities, including gunfire, bombing, and rocket fire. Local magnetic disturbance

(25) Differences of as much as 5° from normal variation have been observed up to 3 miles offshore along the N, E, and S coasts of the island.

(26) The top of the island appears as a tableland from a distance. A prominent white radar dome (32°53.1'N., 118°27.0'W.), on the highest part of the island, is visible from both the E and W sides of the island.

(27) The NE side of the island is bold, with rocky cliffs. The water is generally deep close inshore, and kelp grows close to the beach. On this side of the island a prominent white rock is close inshore, 6 miles NW of Pyramid Head. On the beach behind this rock is a freshwater spring, the only one available during the dry season.

(28) The SW side of the island is more irregular, but it is lower and has more gentle slopes. Here the kelp extends several hundred yards offshore, and generally to or beyond the 10-fathom curve. Rocks are numerous close inshore and inside the kelp, but outside the kelp line, the bottom slope is more gradual than on the other side of the island, and there are many places where vessels might anchor safely in the lee of the island during the NE storms, known as the Santa Anas.

(29) **Seal Cove,** on the SW side of the island midway between the two ends, affords a boat landing and indifferent anchorage for small craft in NW weather.

(30) **Outer Santa Barbara Passage** lies between San Clemente and Santa Catalina Islands.

(31) **China Point** is the SW extremity of San Clemente Island and on the W side of Pyramid Cove. A light is shown from a white pyramidal structure on the point.

(32) **Pyramid Cove**, the deep bight in the S end of San Clemente Island, is used as a naval shore bombardment area and included in a **danger zone**. The cove, closed to the public, offers protected anchorage in 10 fathoms or more in NW weather to authorized vessels and vessels in distress. Vessels should not enter the kelp as there are indications of other dangers in addition to those already charted. Some swell makes into the cove most of the time. Authorized landing on the beach is usually not difficult, but can be extremely hazardous because of unexploded ordnance.

(33) **Pyramid Head,** the SE point of San Clemente Island and the E side of Pyramid Cove, is about 900 feet high, sharp, jagged, and prominent. **Pyramid Head Light** (32°49.2'N., 118°21.2'W.), 226 feet above the water, is shown from a post with red and white diamond-shaped daymark.

Table of Selected Chart Notes

Corrected through NM Apr. 14/07
Corrected through LNM Apr. 03/07

HEIGHTS

Heights in feet above Mean High 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.

SUPPLEMENTAL INFORMATION

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

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 0.136" northward and 3.275" westward to agree with this chart.

CAUTION

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

AIDS TO NAVIGATION

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

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.

LOCAL MAGNETIC DISTURBANCE

Differences of as much as 5° from the normal variation have been observed up to 3 miles off the south and southeast coast of San Clemente Island.

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, 11th Coast Guard District in Long Beach, California or at the Office of the District Engineer, Corps of Engineers in Los Angeles, California.

Refer to charted regulation section numbers.

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.

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

AUTHORITIES

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

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.

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.

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

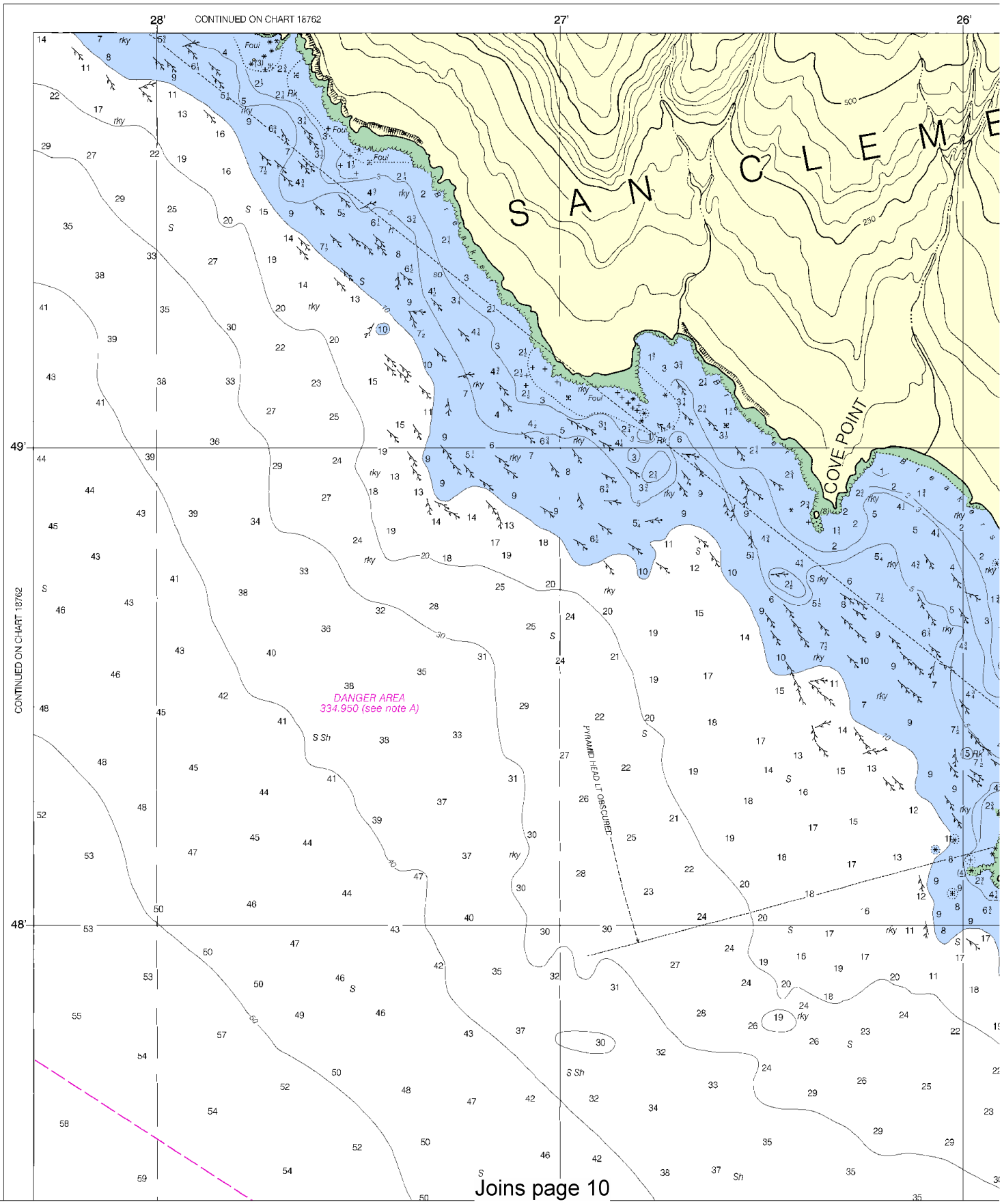
Miscellaneous:

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

(21) 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.

SOUNDINGS IN FATHOMS

18764



Joins page 10

North

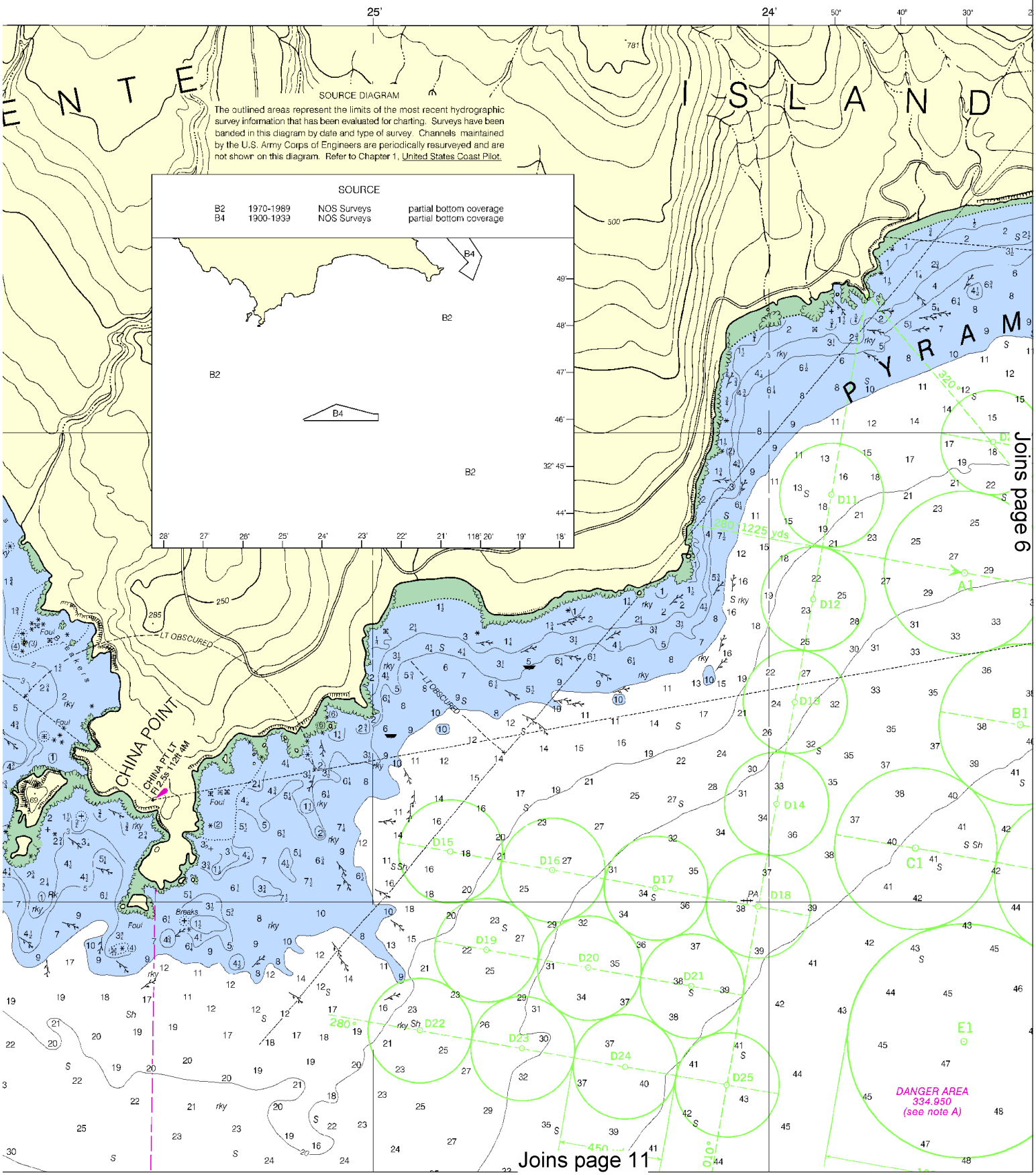
Printed at reduced scale. ~~SCALE 1:15,000~~ See Note on page 5.

Nautical Miles

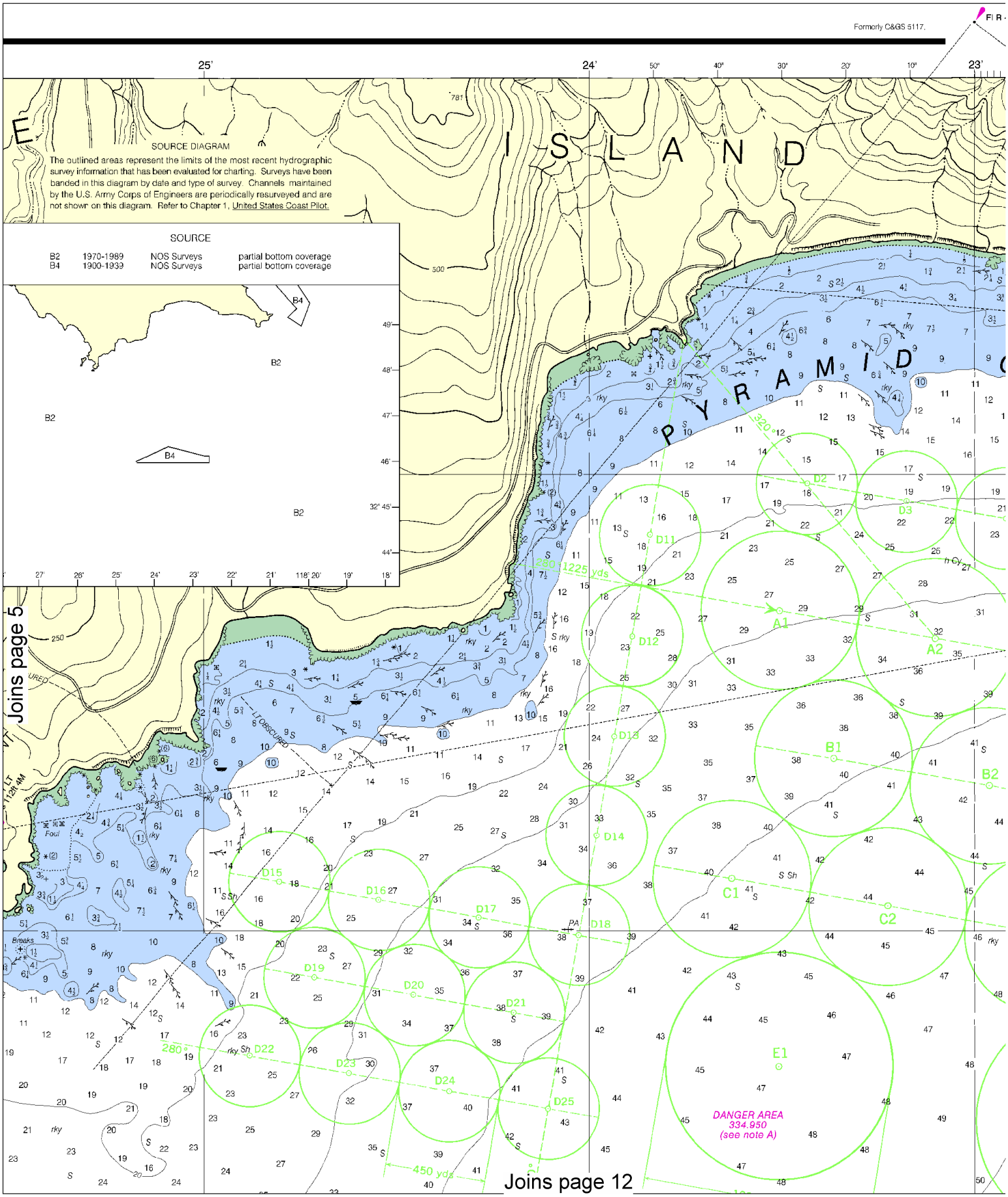
0 1

Yards

500 0 500 1000 1500



This BookletChart was reduced to 75% of the original chart scale. The new scale is 1:20000. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.



Printed at reduced scale. ~~SCALE 1:15,000~~ See Note on page 5.

Nautical Miles

0 1

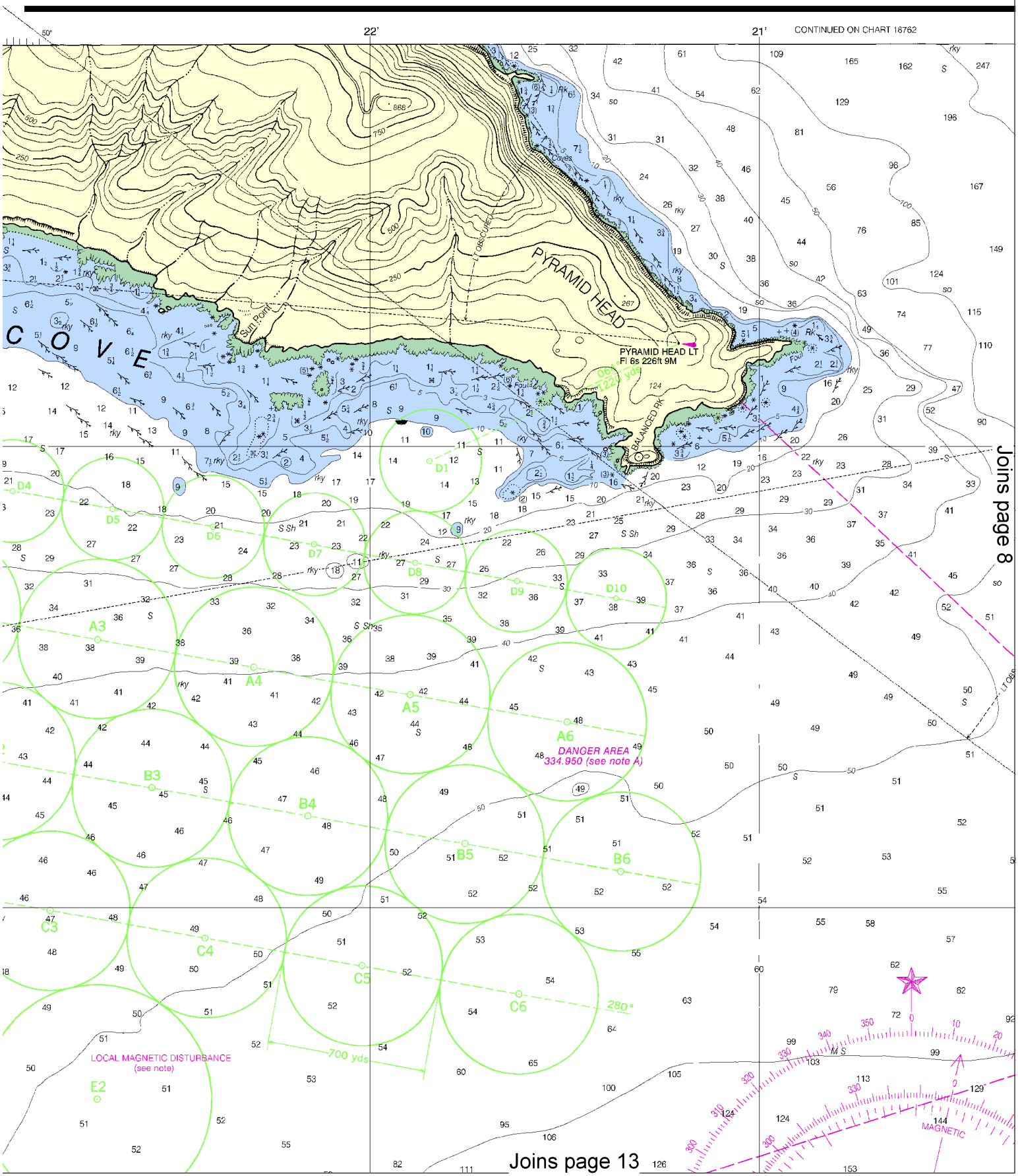
Yards

500 0 500 1000 1500

North

R 4s 886ft 4M

1st Ed., Apr. 1938 KAPP 1916



This BookletChart has been updated with: Coast Guard Local Notice To Mariners: 0510 2/2/2010,
NGA Weekly Notice to Mariners: 0910 2/27/2010,
Canadian Coast Guard Notice to Mariners: n/a .

CONTINUED ON CHART 18762

22' 21' 118° 20'

PYRAMID HEAD

PYRAMID HEAD LT
Fl 6s 226ft 9M

Sun Point

BALANCED RK

LT OBSCURED

D1 D6 D7 D8 D9 D10

A4 A5 A6

DANGER AREA
334.950 (see note A)

B4 B5 B6

C4 C5 C6

280°

700 yds

MAGNETIC

Joins page 7

Joins page 14

North

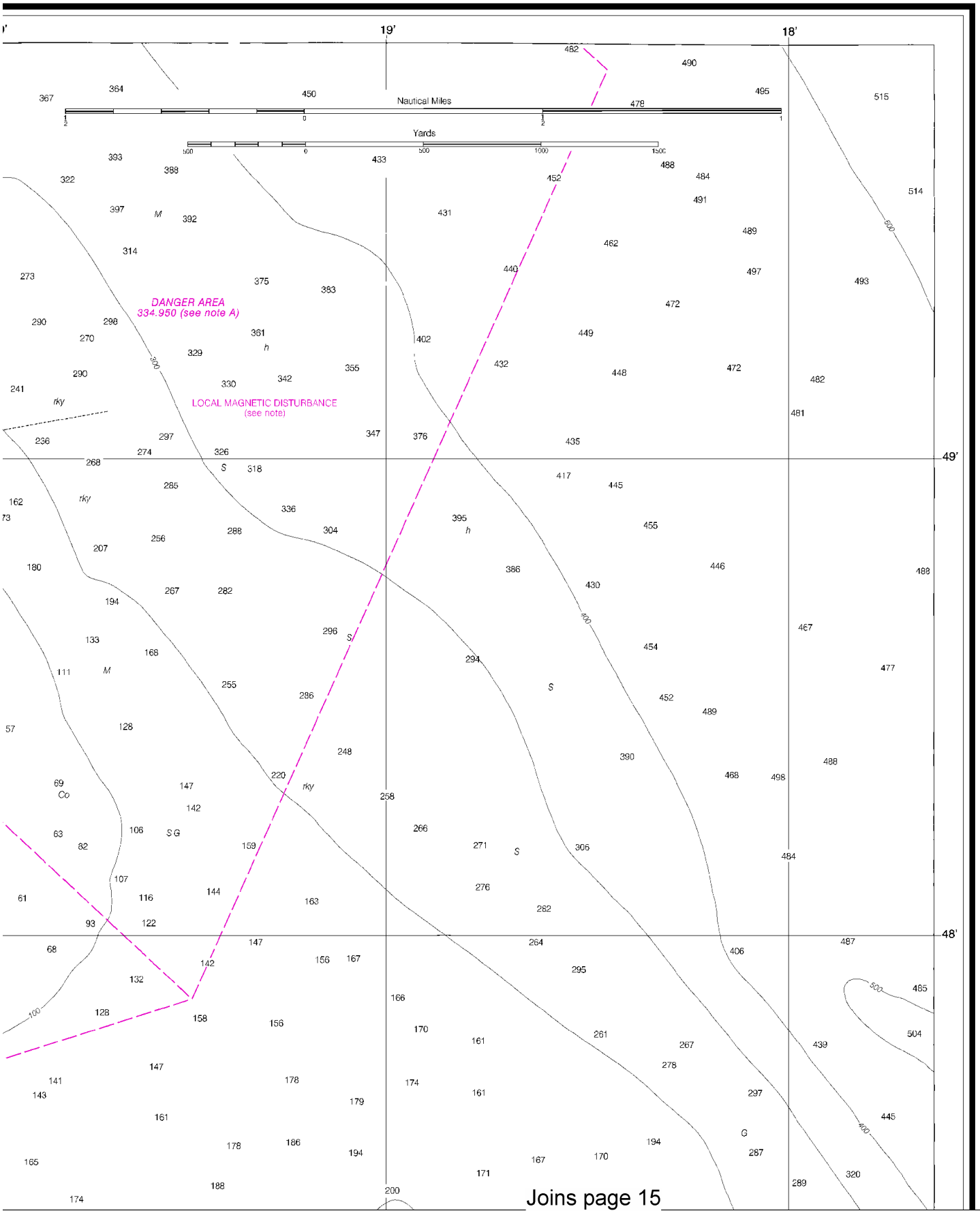
Printed at reduced scale. ~~SCALE 1:15,000~~ See Note on page 5.

Nautical Miles

0 1

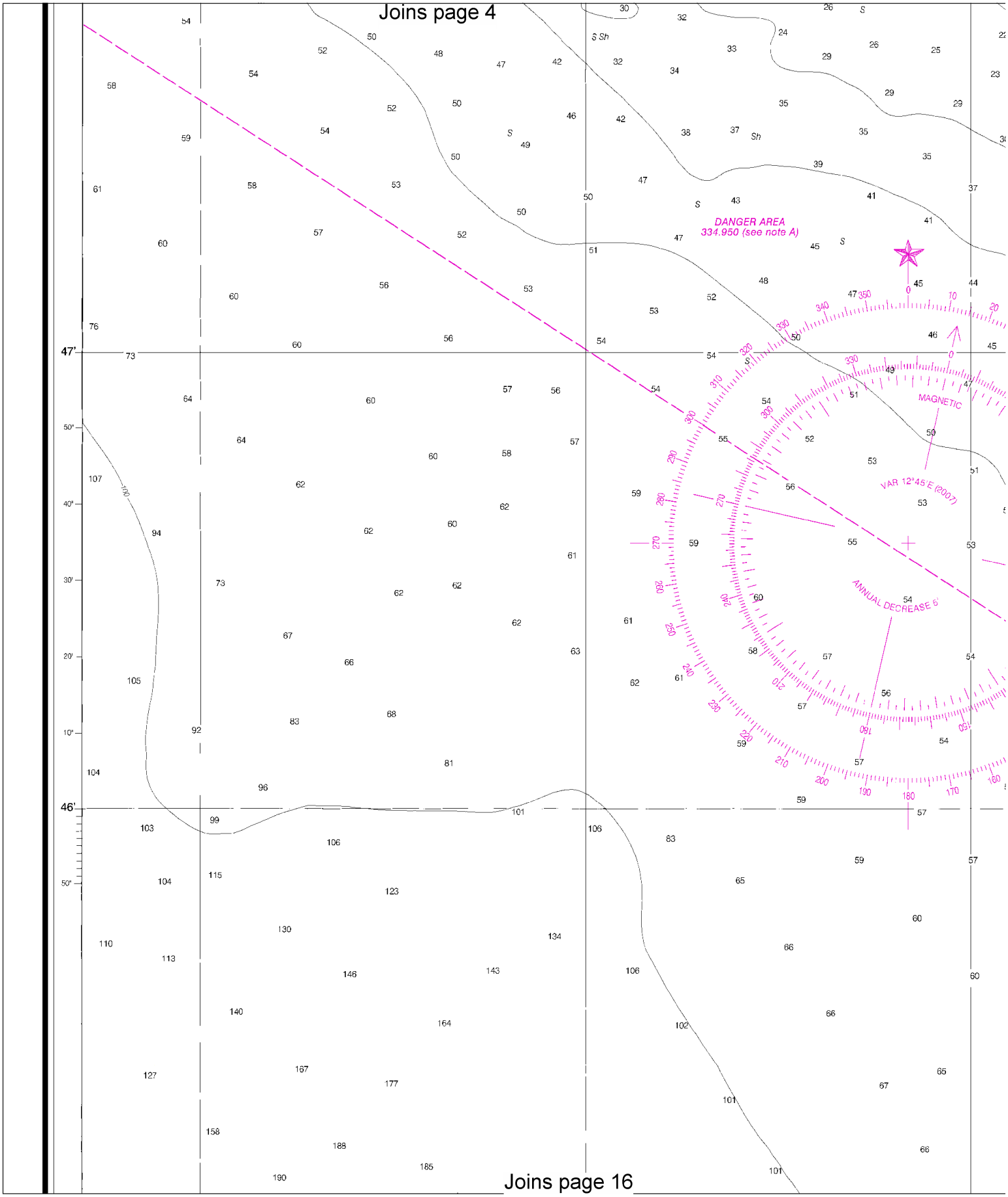
Yards

500 0 500 1000 1500



Joins page 15

Joins page 4



Joins page 16

North

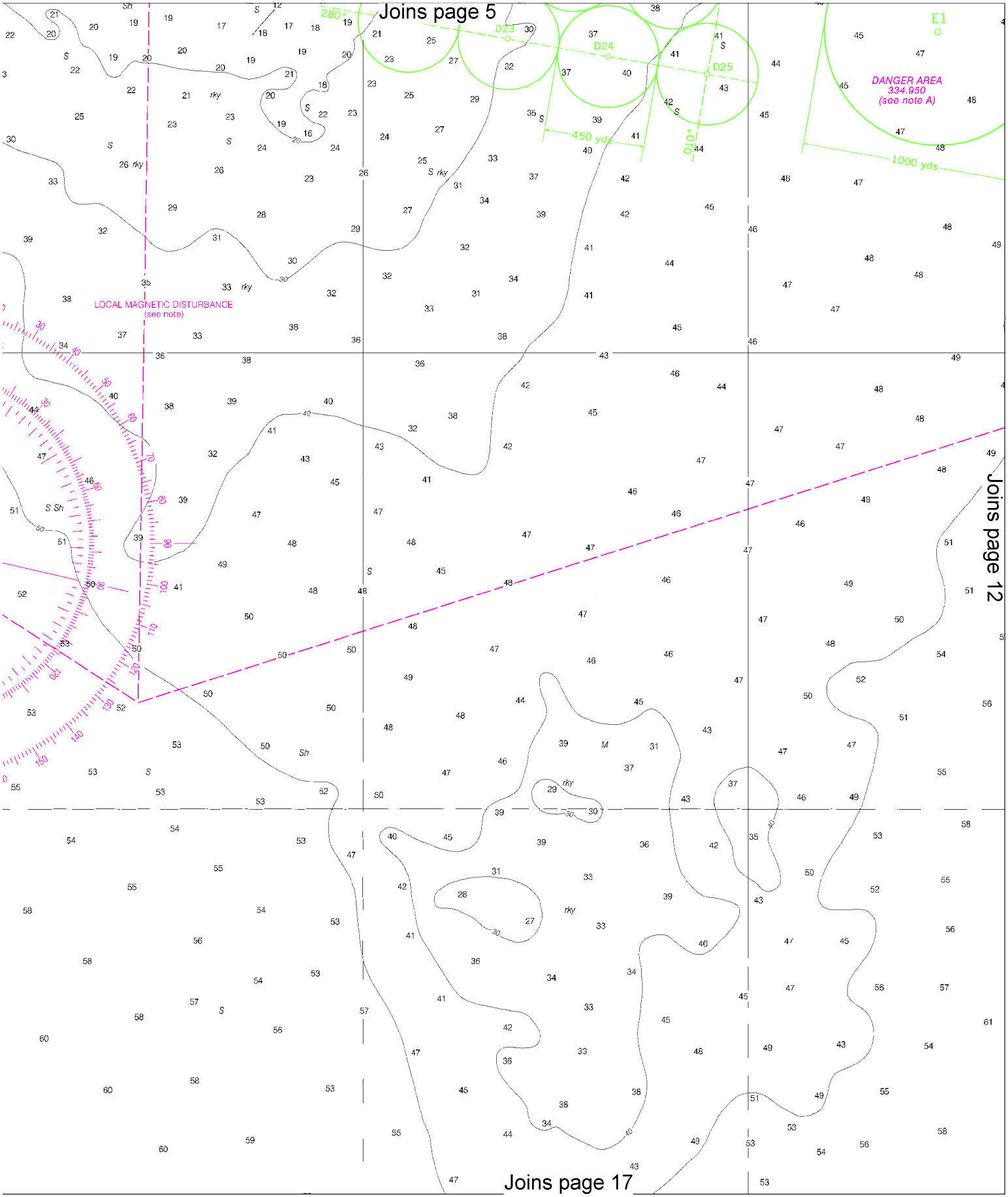
Printed at reduced scale. ~~SCALE 1:15,000~~ See Note on page 5.

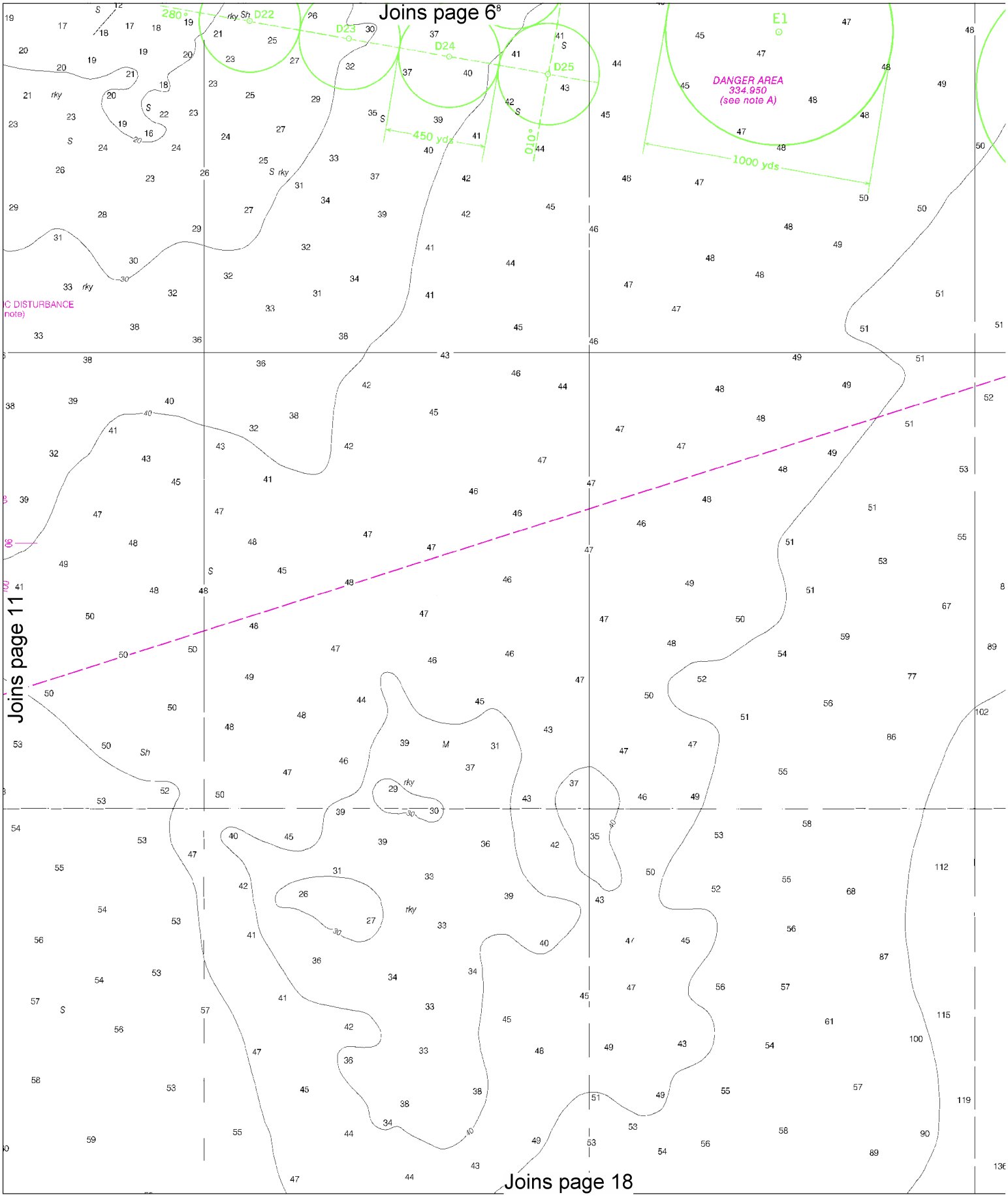
Nautical Miles

0 1

Yards

500 0 500 1000 1500


Joins page 5
Joins page 12
Joins page 17
280°
D23
D24
D25
E1
450 yds
010°
1000 yds
DANGER AREA
334.950
(see note A)
LOCAL MAGNETIC DISTURBANCE
(see note)



North

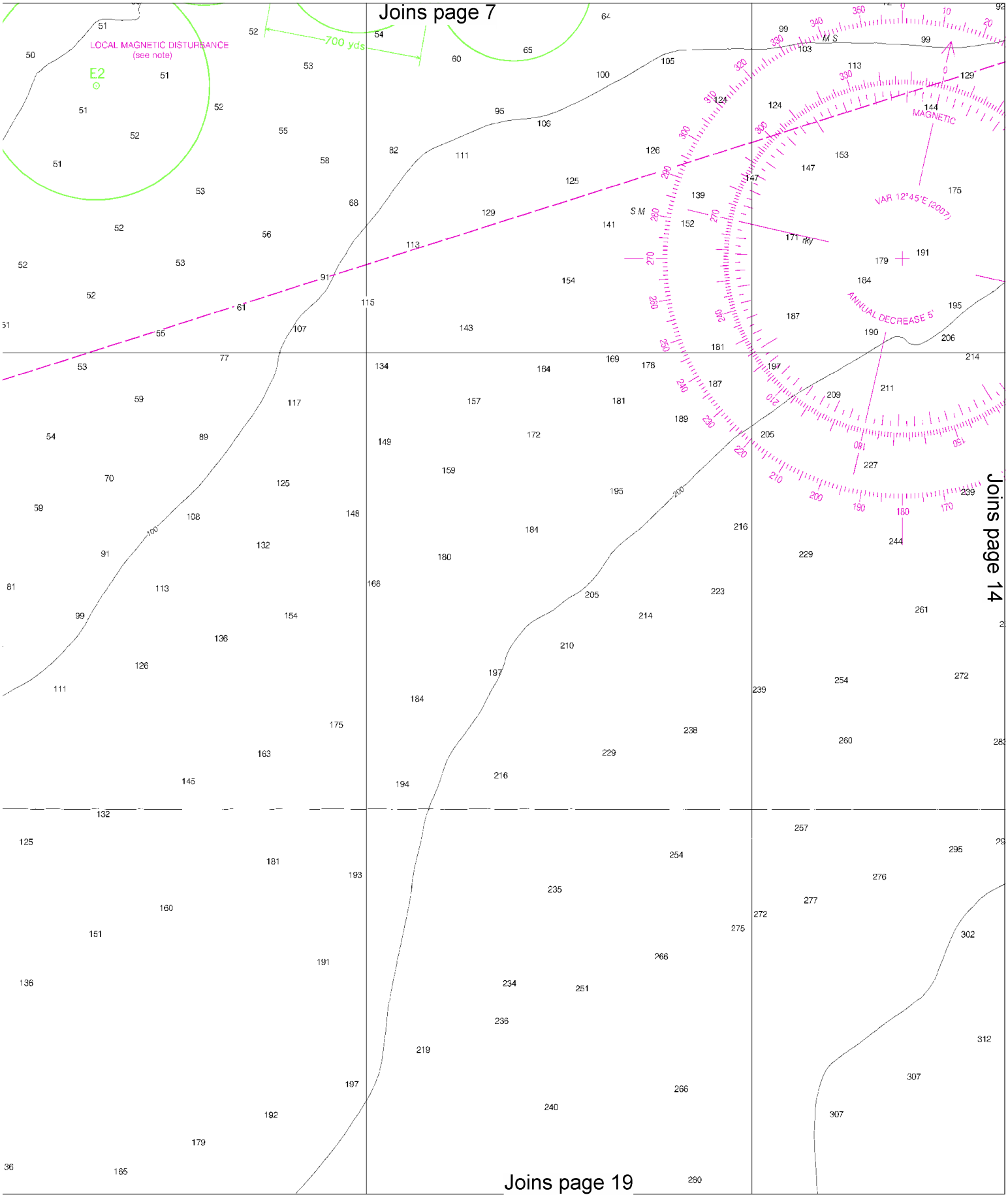
Printed at reduced scale. ~~SCALE 1:15,000~~ See Note on page 5.

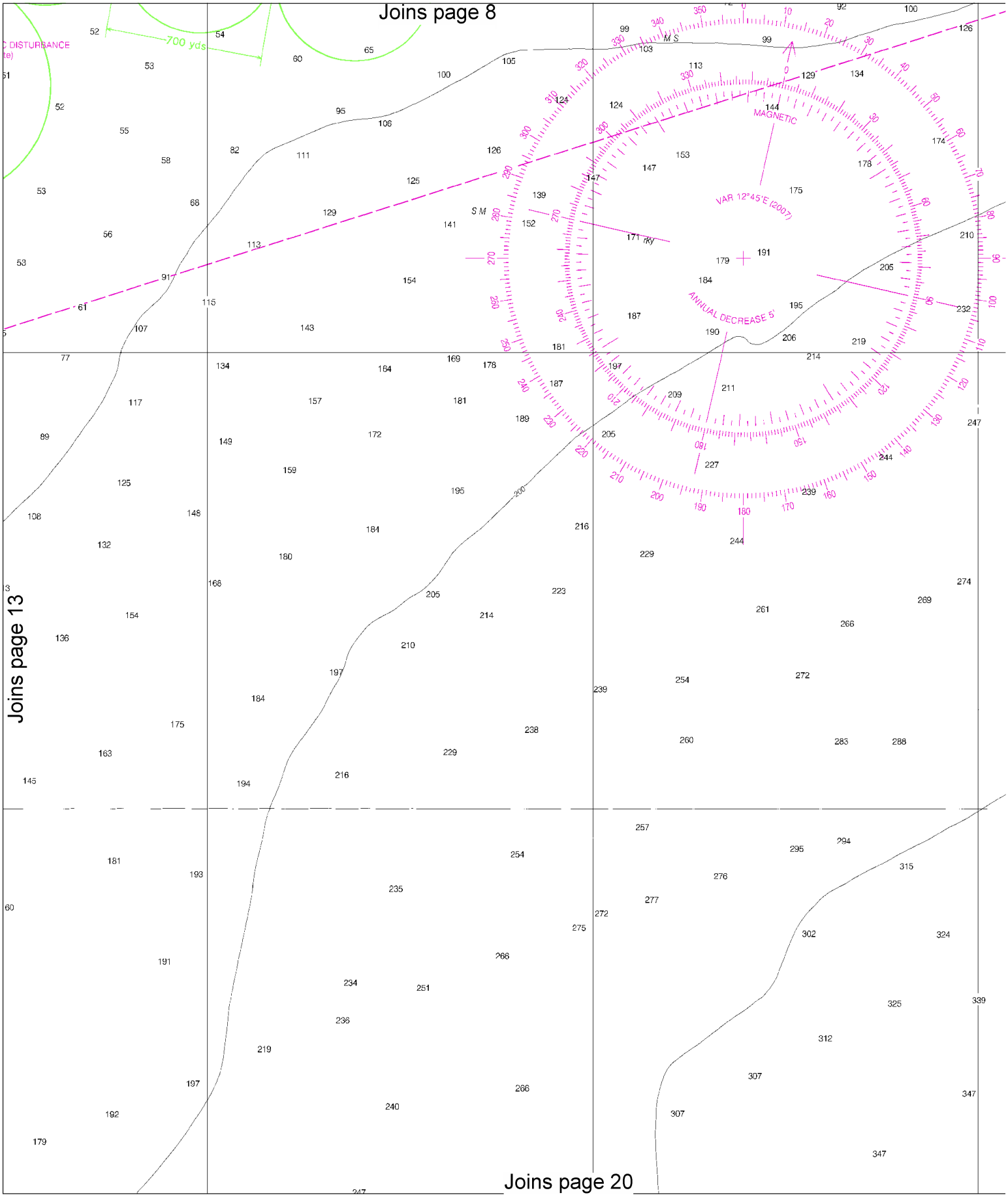
Nautical Miles

0 1

Yards

500 0 500 1000 1500


Joins page 7
LOCAL MAGNETIC DISTURBANCE
(see note)
E2
700 yds
MAGNETIC
VAR 12°45'E (2007)
ANNUAL DECREASE 5'
Joins page 14
Joins page 19



14

North

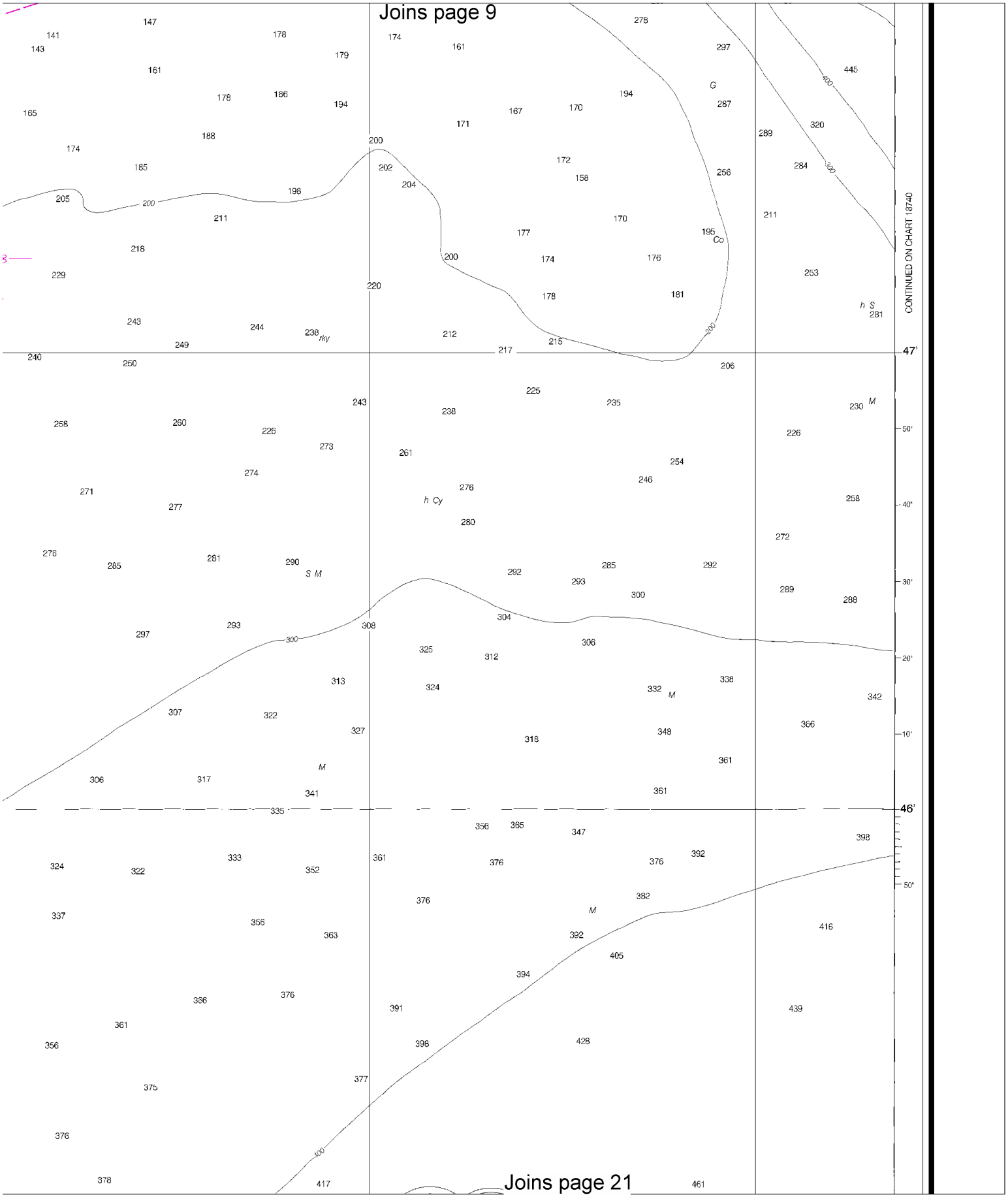
Printed at reduced scale. SCALE 1:15,000 See Note on page 5.

Nautical Miles

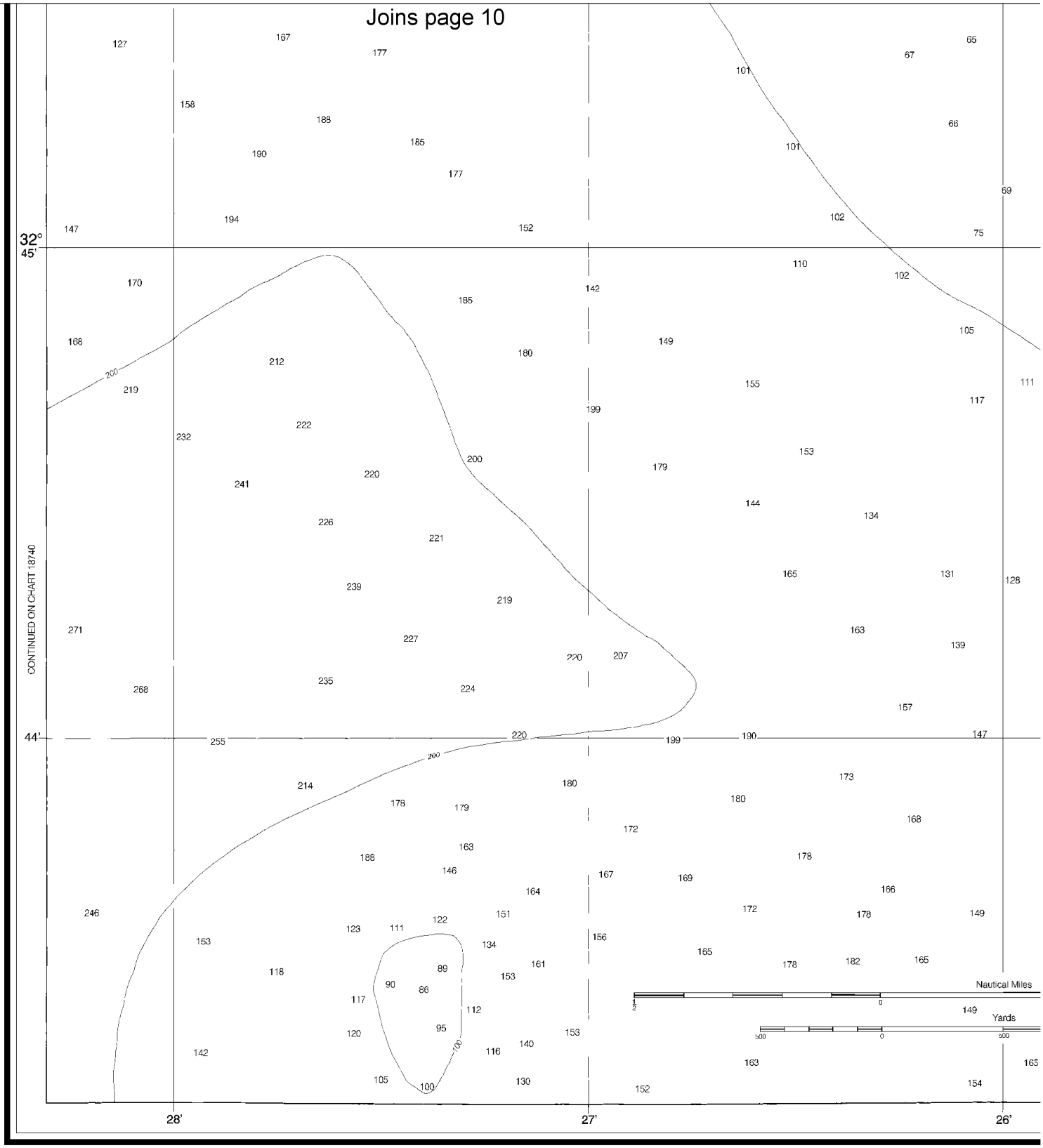
0 1

Yards

500 0 500 1000 1500


Joins page 9
Joins page 21
CONTINUED ON CHART 18740
47'
46'
50'
40'
30'
20'
10'
50"
200
300
400
rky
h Cy
S M
M
G
Co
h S

Joins page 10



9th Ed., Apr./07 ■ Corrected through NM Apr. 14/07
Corrected through LNM Apr. 03/07
18764

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North

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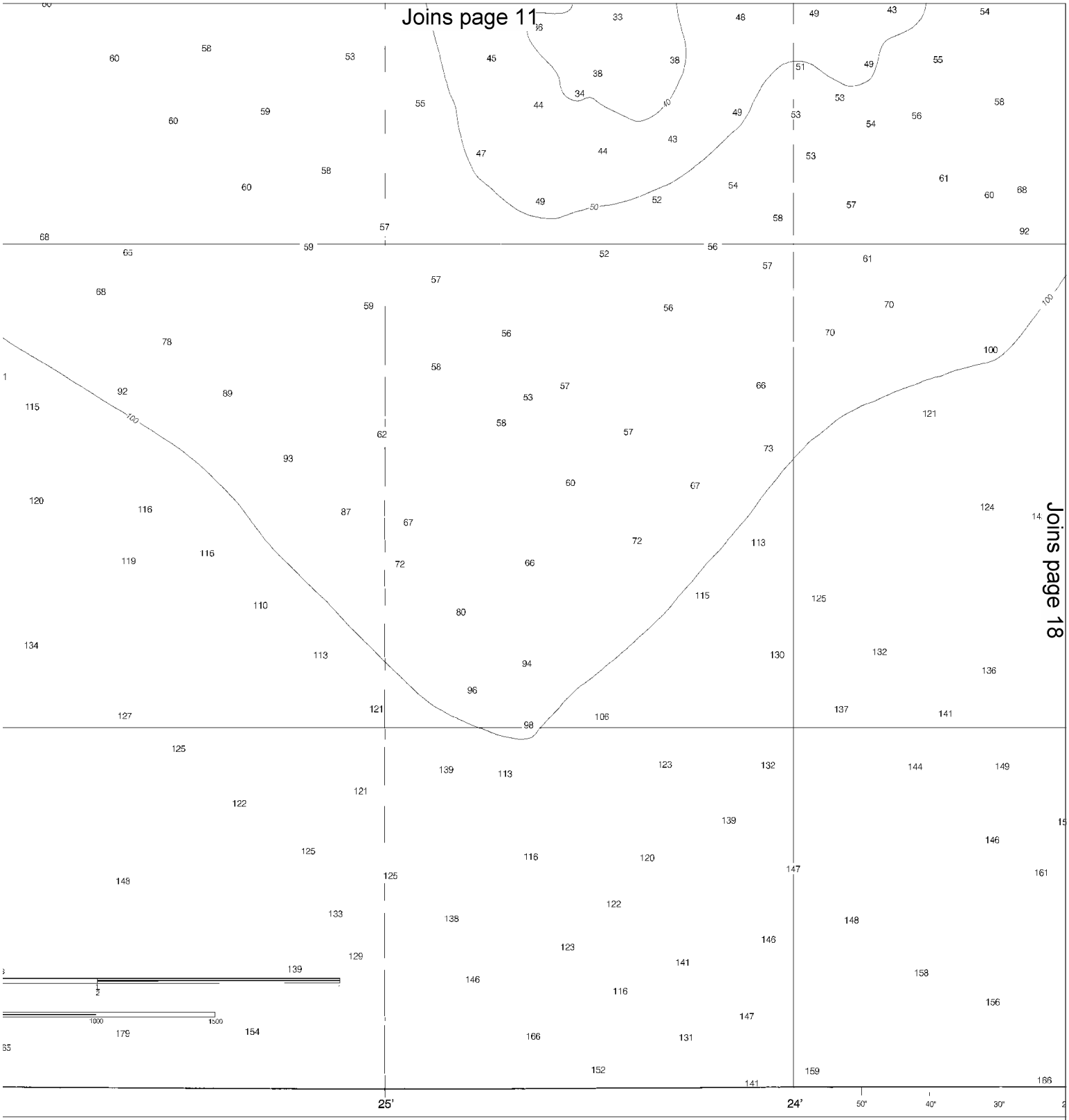
Nautical Miles

0 1

Yards

500 0 500 1000 1500



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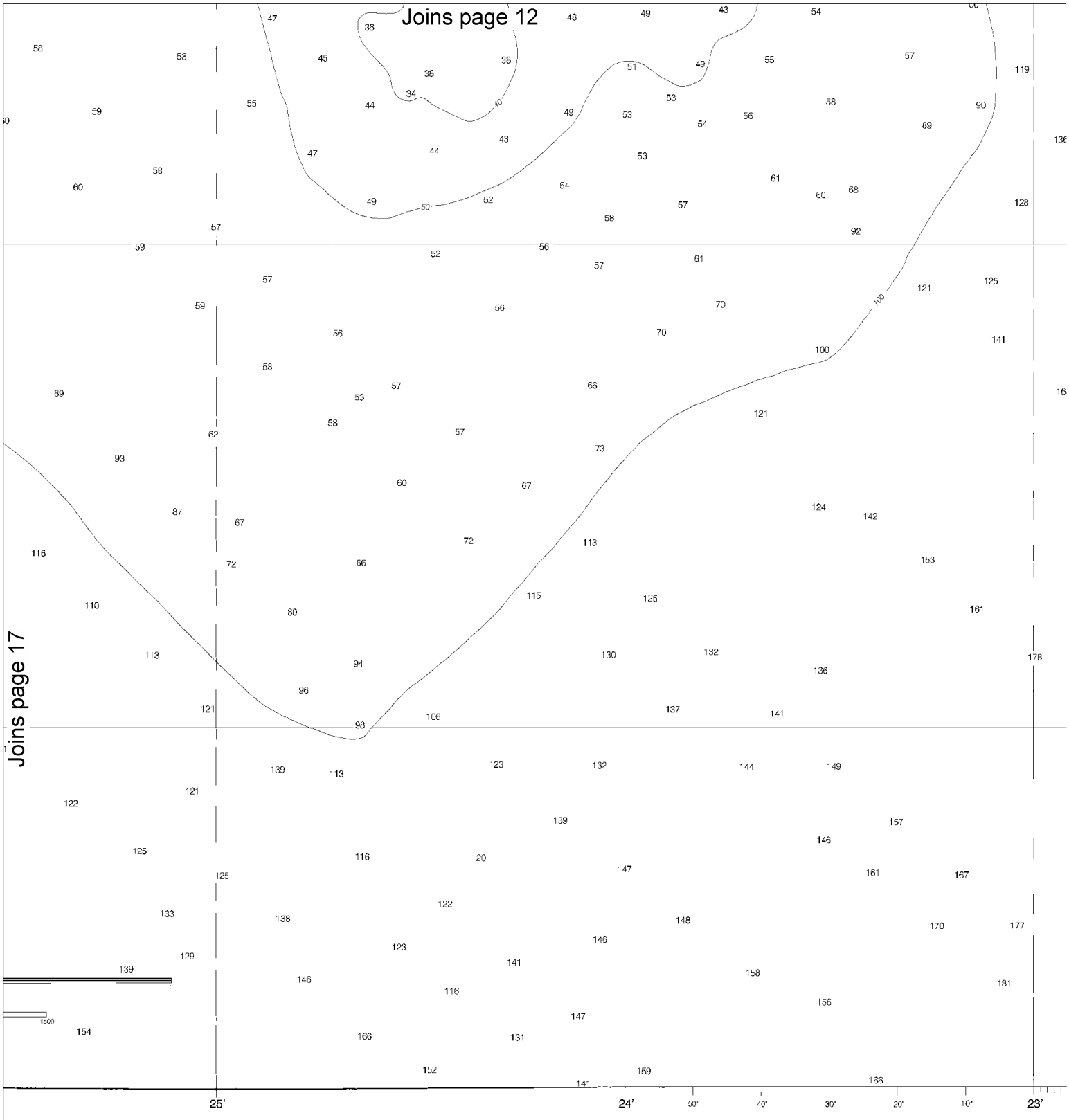

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Published at Washington, D
U.S. DEPARTMENT OF COM
NATIONAL OCEANIC AND ATMOSPHERIC
NATIONAL OCEAN SERVIC
COAST SURVEY

North

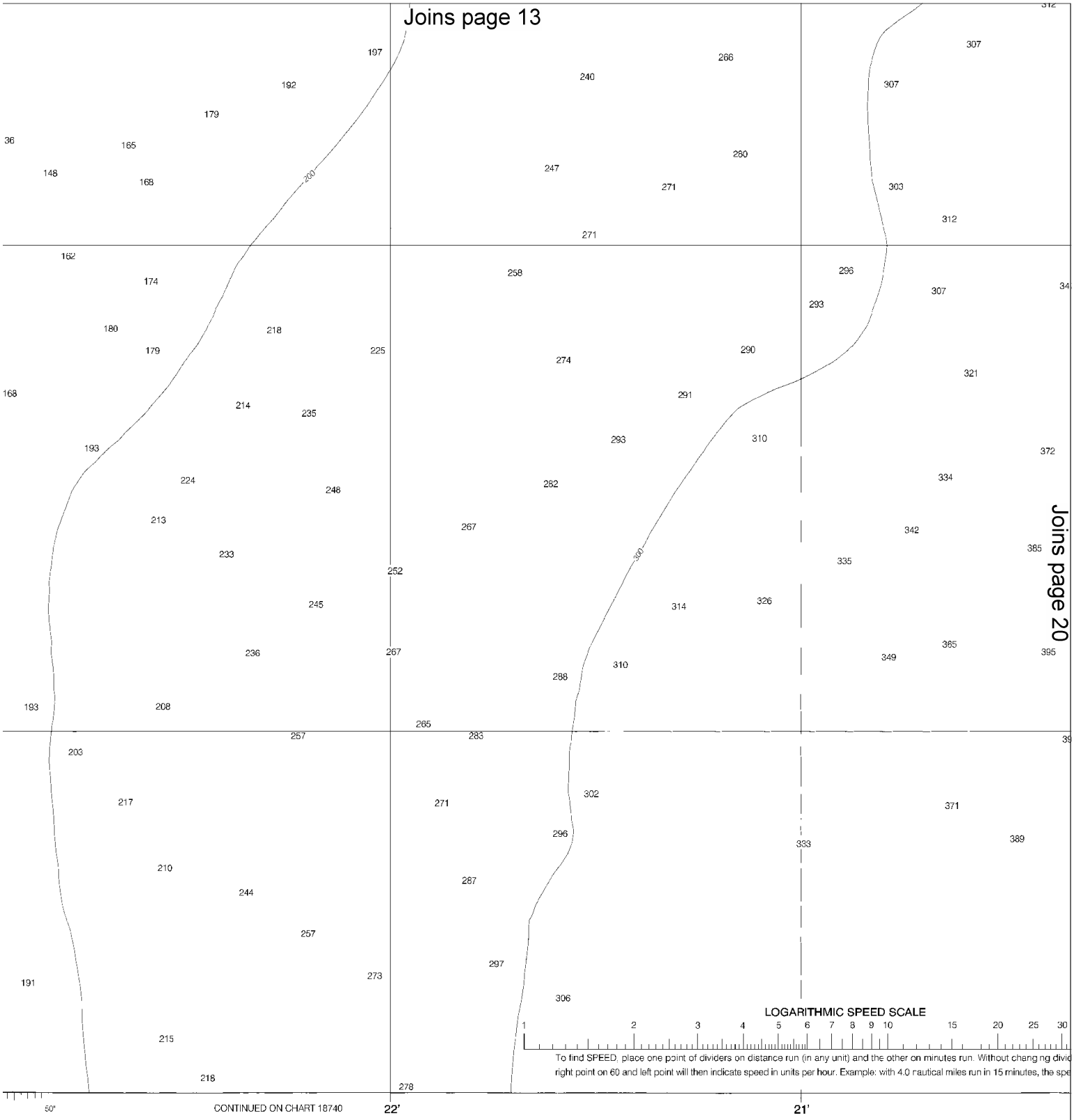
Printed at reduced scale. ~~SCALE 1:15,000~~ See Note on page 5.

Nautical Miles

0 1

Yards

500 0 500 1000 1500



D.C.
MMERCE
C ADMINISTRATION
ICE

SOUNDINGS IN FATHOMS

Joins page 14

Joins page 19

SUPPLEMENTAL INFORM
Consult U.S. Coast Pilot 7
supplemental information.

NAVAL ANCHOR
Berths are for the
assigning anchorage

RADAR REFLECTO
Radar reflectors have been p
floating aids to navigation. In
reflector identification on these
omitted from this chart.

LOGARITHMIC SPEED SCALE

To find SPEED, place one point of dividers on distance run (in any unit) and the other on minutes run. Without chang ng 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.

CONTINUED ON CHART 18740

22' 21' 118° 20'

SOUNDINGS IN FATHOMS

FATHOMS 1 2
FEET 6 12
METERS 1 2 3 4 5

North

Printed at reduced scale. ~~SCALE 1:15,000~~ See Note on page 5.

Nautical Miles 0 1

Yards 500 0 500 1000 1500

Joins page 15

THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES - WEST COAST

CALIFORNIA

SAN CLEMENTE ISLAND

PYRAMID COVE AND APPROACHES

Mercator Projection
Scale 1:15,000
North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FATHOMS
AT MEAN LOWER LOW WATER

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.

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).

AIDS TO NAVIGATION

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

HEIGHTS

Heights in feet above Mean High Water.

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

AUTHORITIES

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

HORIZONTAL DATUM

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NOTE A

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Refer to charted regulation section numbers.

CAUTION

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

LOCAL MAGNETIC DISTURBANCE

Differences of as much as 5° from the normal variation have been observed up to 3 miles off the south and southeast coast of San Clemente Island.

WARNING

San Clemente Island is a NAVAL RESERVATION. All vessels are warned that the vicinity of the island is dangerous on account of gunfire and bombing.

ED NO. 9

NSN 7642014011535 NGA REFERENCE NO. 18AHA18764

Pyramid Cove and Approaches

SOUNDINGS IN FATHOMS - SCALE 1:15,000

18764

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 & 78A – Recreational boat channels.

Distress Call Procedures

1. Make sure radio is on.
2. Select Channel 16.
3. Press/Hold the transmit button.
4. Clearly say: "MAYDAY, MAYDAY, MAYDAY."
5. Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
6. Release transmit button.
7. Wait for 10 seconds – If no response Repeat MAYDAY Call.

HAVE ALL PERSONS PUT ON LIFE JACKETS !!

Mobile Phones – Call 911 for water rescue.
Coast Guard Search & Rescue – 510-437-3700
Coast Guard San Diego – 619-683-6470
Commercial Vessel Assistance – 1-800-367-8222

NOAA Weather Radio – 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz, 162.550 MHz.

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.

NOAA, The Nation's Chartmaker

NOAA CHARTING PUBLICATIONS

Official NOAA Nautical Charts – NOAA surveys and charts the national and territorial waters of the U.S, including the Great Lakes. We produce over 1,000 traditional nautical charts covering 3.4 million square nautical miles. Carriage of official NOAA charts is mandatory on the commercial ships that carry our commerce. They are used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters. NOAA charts are available from official chart agents listed at: www.NauticalCharts.NOAA.gov.

Official Print-on-Demand Nautical Charts – These full-scale NOAA charts are updated weekly by NOAA for all Notice to Mariner corrections. They have additional information added in the margin to supplement the chart. Print-on-Demand charts meet all federal chart carriage regulations for charts and updating. Produced under a public/private partnership between NOAA and OceanGrafix, LLC, suppliers of these premium charts are listed at www.OceanGrafix.com.

Official Electronic Navigational Charts (NOAA ENCs®) – ENCs are digital files of each chart's features and their attributes for use in computer-based navigation systems. ENCs comply with standards of the International Hydrographic Organization. ENCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official Raster Navigational Charts (NOAA RNCs™) – RNCs are geo-referenced digital pictures of NOAA's charts that are suitable for use in computer-based navigation systems. RNCs comply with standards of the International Hydrographic Organization. RNCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official BookletCharts™ – BookletCharts™ are reduced scale NOAA charts organized in page-sized pieces. The "Home Edition" can be downloaded from NOAA for free and printed. The Internet address is www.NauticalCharts.gov/bookletcharts.

Official PocketCharts™ – PocketCharts™ are for beginning recreational boaters to use for planning and locating, but not for real navigation. Measuring a convenient 13" by 19", they have a 1/3 scale chart on one side, and safety, boating, and educational information on the reverse. They can be purchased at retail outlets and on the Internet.

Official U.S. Coast Pilot® – The Coast Pilots are 9 text volumes containing information important to navigators such as channel descriptions, port facilities, anchorages, bridge and cable clearances, currents, prominent features, weather, dangers, and Federal Regulations. They supplement the charts and are available from NOAA chart agents or may be downloaded for free at www.NauticalCharts.NOAA.gov.

Official On-Line Chart Viewer – All NOAA nautical charts are viewable here on-line using any Internet browser. Each chart is up-to-date with the most recent Notices to Mariners. Use these on-line charts as a ready reference or planning tool. The Internet address is www.NauticalCharts.gov/viewer.

Official Nautical Chart Catalogs – Large format, regional catalogs are available for free from official chart agents. Page size, state catalogs are posted on the Internet and can be printed at home for free. Go to http://NauticalCharts.NOAA.gov/mcd/ccatalogs.htm.

Internet Sites: www.NauticalCharts.NOAA.gov, www.NOAA.gov, www.TidesandCurrents.NOAA.gov, www.NOS.NOAA.gov.