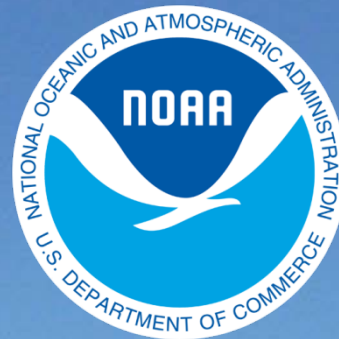


BookletChart™

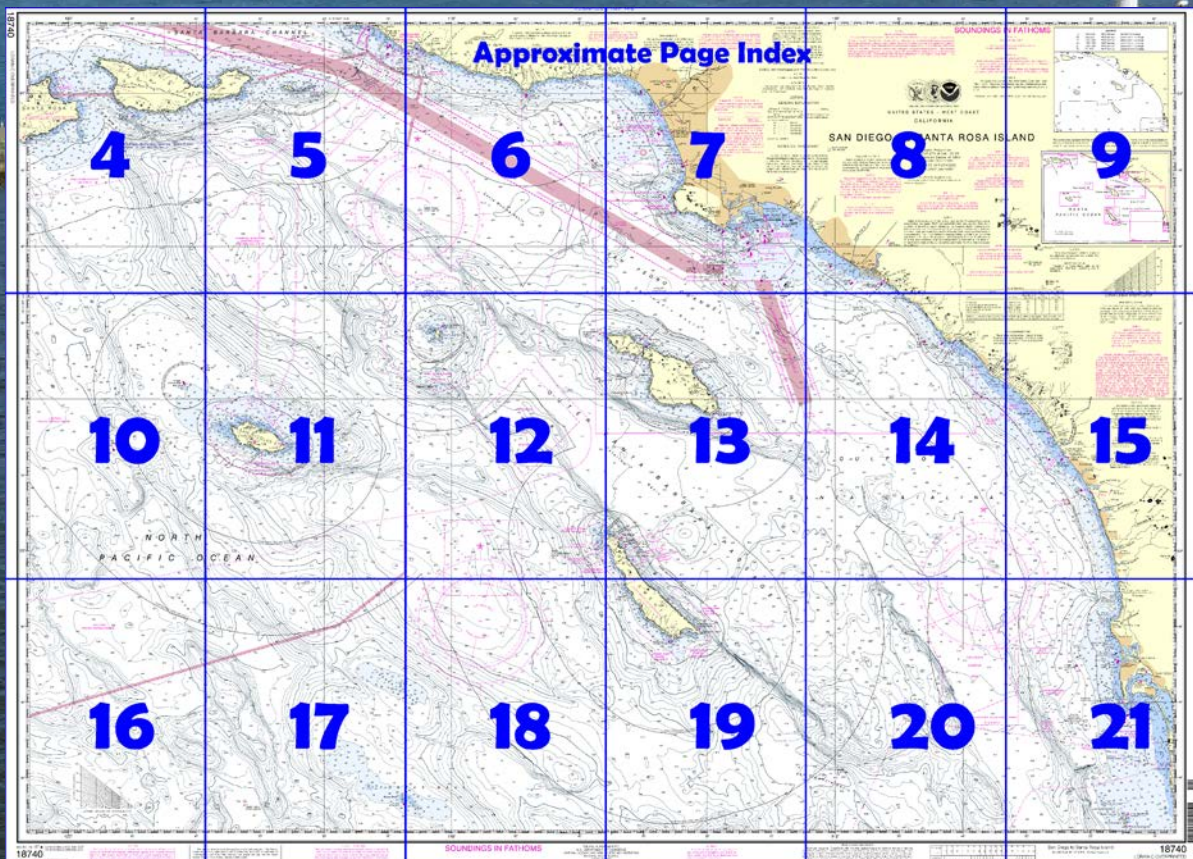
San Diego to Santa Rosa Island NOAA Chart 18740



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.

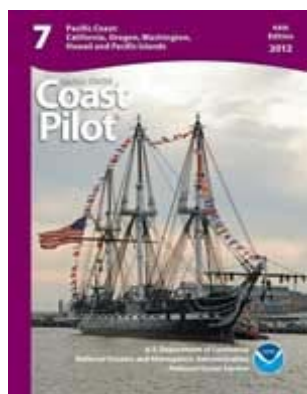
Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

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=18740>.



(Selected Excerpts from Coast Pilot)
Los Coronados (Coronado Islands) are four bare, rocky islands, extending 4.5 miles in a NW direction, 7 miles offshore in Mexican waters, and 15 miles S of Point Loma. These islands are prominent in clear weather, and the passage E of them is commonly used by vessels. Depths in the vicinity of the islands are irregular, and in thick weather or at night caution must be observed when near them.
Oceanside Harbor, at the N end of the city, 1.2 miles NW of the pleasure pier, is a small-craft harbor administered by the City of Oceanside,

Department of Harbor and Beaches. The harbor, which can accommodate about 950 small craft, shares a common entrance with Del Mar Boat Basin (**Camp Pendleton Marine Corps Base**) to the N.
Harbor regulations.—The harbor is under the control of the City of Oceanside, Department of Harbor and Beaches. The harbor headquarters building is on the E side of the harbor opposite the entrance. About 50 berths for transient craft are available at the harbor headquarters. All moorage must be arranged with the harbor office in the headquarters building. Prepaid reservations are accepted for 24 guest slips, with the remainder available on a first come, first served basis. The **Oceanside Harbor Police** operates from the headquarters building. The police boats are equipped with rescue and fire fighting equipment. The police boats monitor VHF-FM channel 16, 24 hours a day, and work on channel 12.

A **military exercise area** extends about 3 miles seaward from about 2 miles NW of the boat basin northwestward to San Clemente. Mariners are advised to consult Eleventh Coast Guard District Local Notice to Mariners for scheduled exercise dates and times.

A **restricted area** is within the military exercise area and centered about 4.5 miles NW of Del Mar Boat Basin entrance. (See **334.905**, chapter 2, for limits and regulations.)

Caution.—The city of Los Angeles advises that under certain tidal conditions, underwater installations between King Harbor and Marina del Rey, seaward to 9 fathom depths, present possible hazards to surface navigation.

Sport fishing barges usually anchor 1 or 2 miles offshore during the summer; caution is advised to avoid them.

Dana Point Harbor is a small-craft harbor in the lee of Dana Point. The harbor is entered from the E between two breakwaters each marked by a light on the seaward end.

Caution.—Mariners should exercise caution when navigating over the sewer outfalls and submerged pipelines that extend seaward from El Segundo. Numerous uncharted buoys and other potential hazards to navigation exist within this area.

The entrance to **Santa Monica Bay** is between two lights at the ends of the breakwaters at the S end of the harbor. A sound signal is at the light on the E side of the entrance. A lighted bell buoy is 230 yards SSW of the S end of the W breakwater. The channel is marked by private buoys, with lights at the entrances to Basins 1 and 2.

Hermosa Beach and **Manhattan Beach** are between Redondo Beach and El Segundo. The pier at Hermosa Beach is about 1.3 miles N of Redondo Beach and extends about 275 yards from shore; a private sound signal is at the outer end. The Manhattan Beach pier, 2.5 miles N of Redondo Beach, extends almost 175 yards from shore.

A **restricted area** extends about 7 miles offshore at El Segundo. (See **162.195**, chapter 2, for limits and regulations.)

Marina del Rey.—A **restricted area** governing navigation inside the detached breakwater has been established. (See **162.200**, chapter 2, for limits and regulations.)

Traffic separation lanes have been established in the entrance channel to Marina del Rey. These lanes are marked by State Waterway Regulatory Buoys with the words "No Sail." All vessels under power, or power and sail, shall keep these buoys to their port when entering or departing the harbor. The center lane between the buoys is used by vessels solely under sail, both entering or departing the harbor.

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

RCC Alameda	Commander	
	11 th CG District	(510) 437-3700
	Alameda, CA	

Navigation Manager Regions



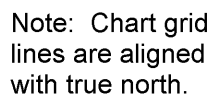
To make suggestions, ask questions, or report a problem with a chart, go to <https://www.nauticalcharts.noaa.gov/customer-service/assist/>

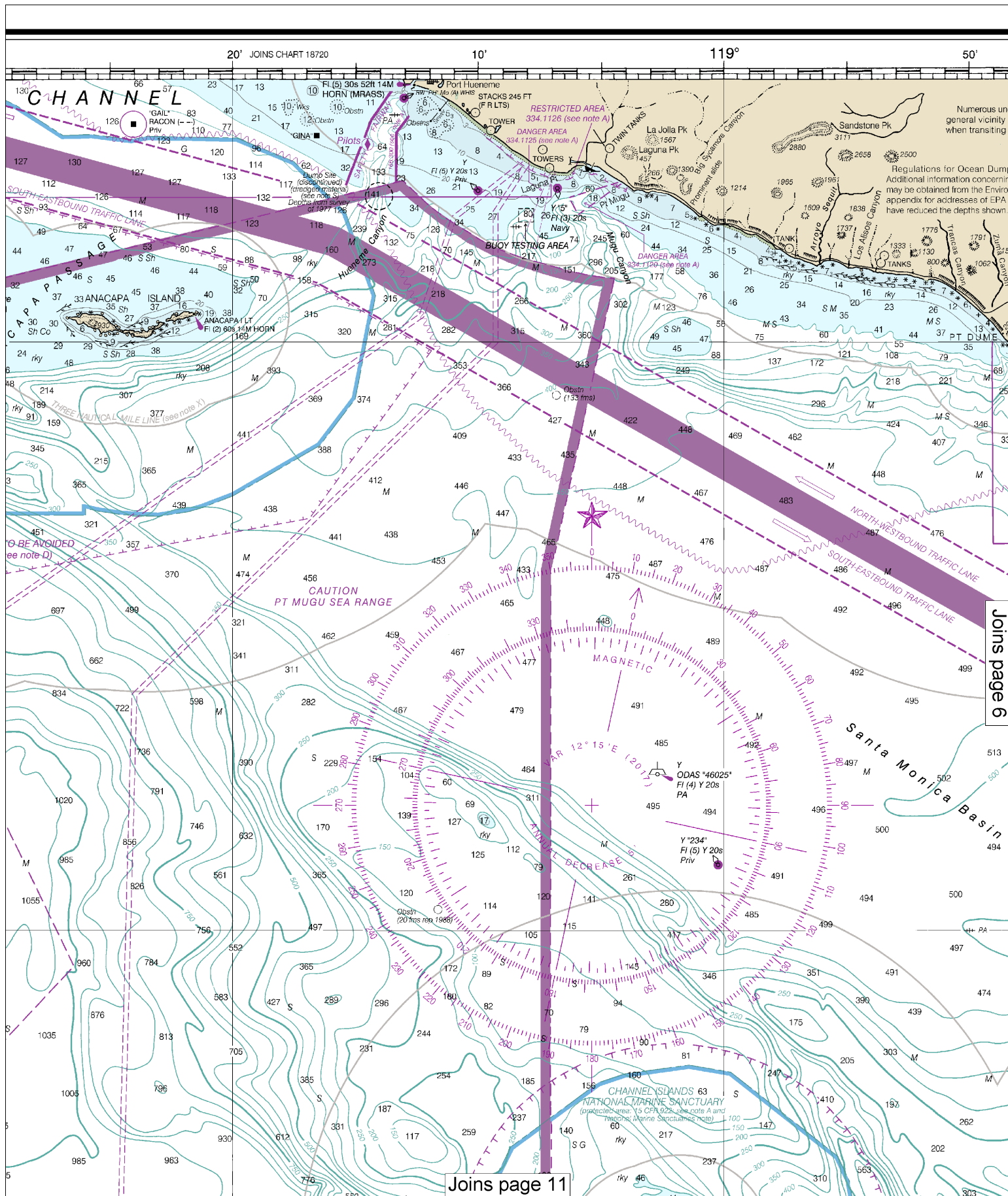
Lateral System As Seen Entering From Seaward

on navigable waters except Western Rivers

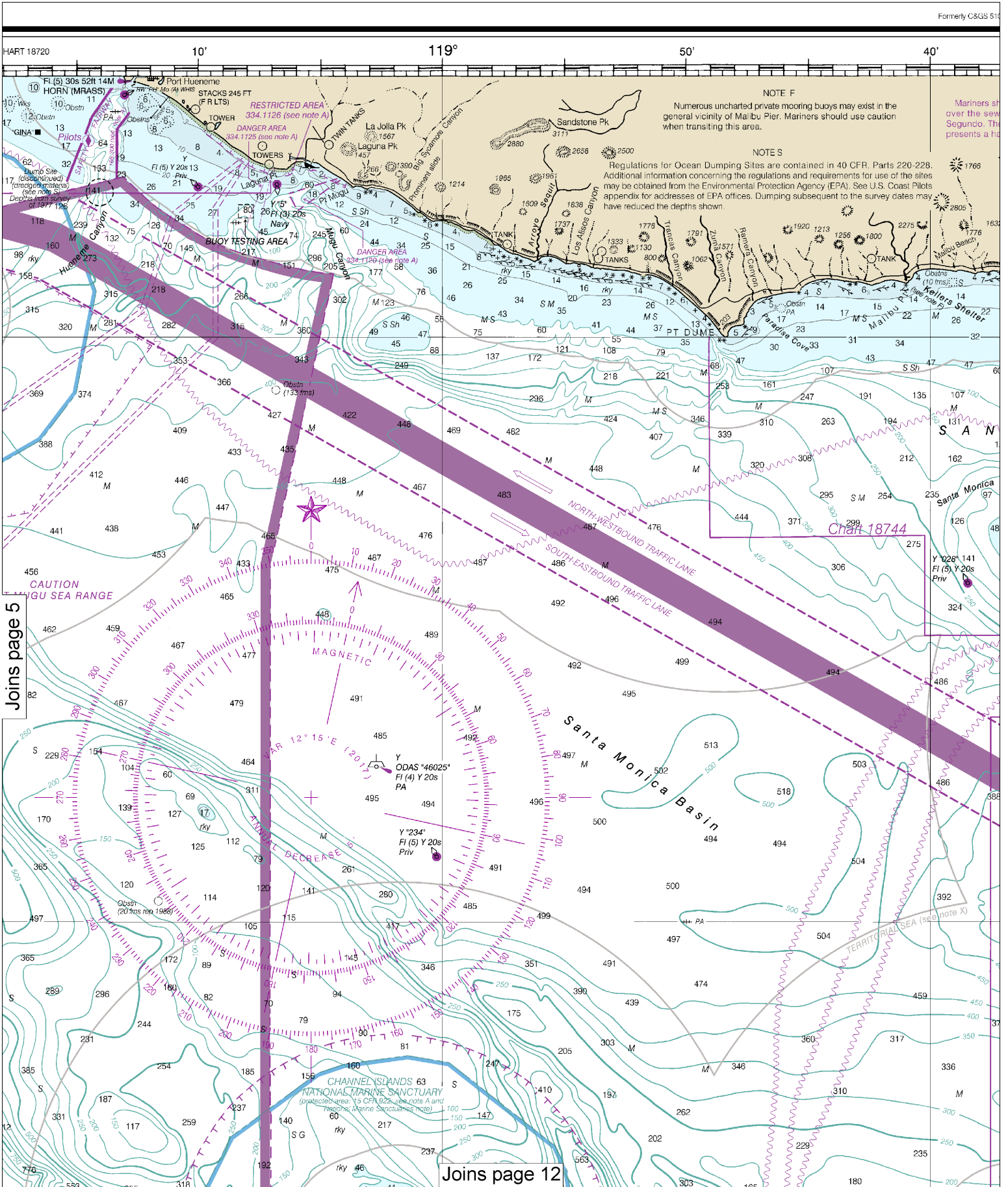


For more information on aids to navigation, including those on Western Rivers, please consult the latest USCG Light List for your area. These volumes are available online at <http://www.navcen.uscg.gov>





This BookletChart was reduced to 75% of the original chart scale.
The new scale is 1:312360. Barscales have also been reduced and
are accurate when used to measure distances in this BookletChart.



CAUTION

Mariners are cautioned that exploratory surveys and exploratory drilling operations may be in progress in, or in the vicinity of, the Southern California Traffic Separation Scheme. These operations may pose hazards to navigation. The most recent Eleventh Coast Guard District Local Notice to Mariners should be consulted for the schedule of current operations.

NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Los Angeles, CA	KWO-37	162.550 MHz
San Diego, CA	KEO-62	162.400 MHz
Santa Barbara, CA	KIH-34	162.400 MHz
Santa Barbara Marine, CA	WWF-62	162.475 MHz
Santa Ana, CA	WWG-21	162.450 MHz

For Symbols and Abbreviations see Chart No. 1

HEIGHTS
Heights in feet above Mean High Water

AUTHORITIES

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

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

CAUTION
SUBMARINE PIPELINES AND CABLES

Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling.

Covered wells may be marked by lighted or unlighted buoys.

SAN

 RADIO TOWERS
KFI 640 kHz

Report all
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1-800-4
Coast G
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page 8

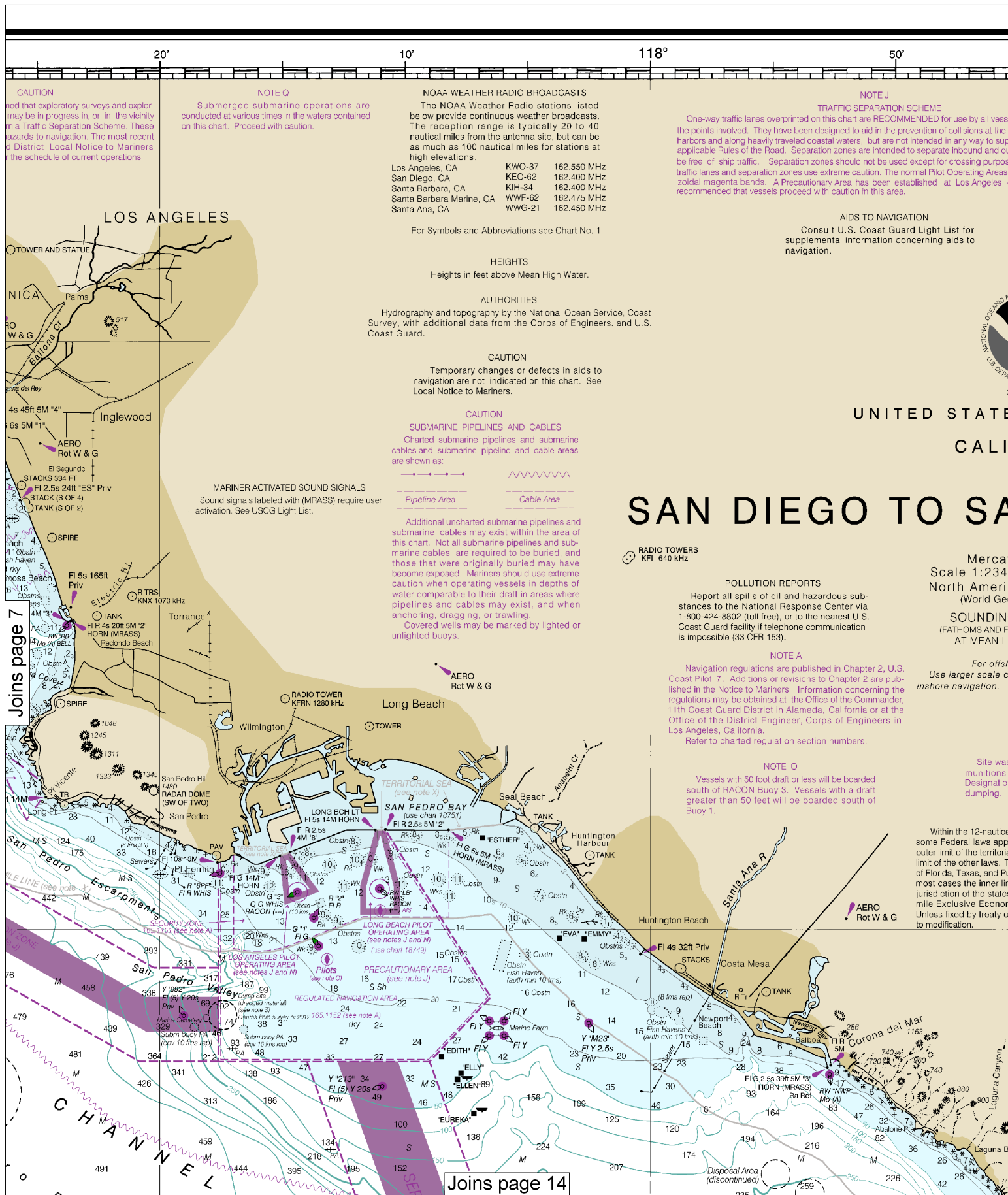
Vessels w
south of RA
greater tha
Bupv 1

Joins page 8

Vessels w
south of RA
greater tha
Bupv 1

Joins page 13

Use ENC charts for the most up to date information. References to other charts may no longer be applicable
46th Ed., Jul. 2020. Last Correction: 11/16/2023. Cleared through:
LNM: 0824 (2/20/2024), NM: 0924 (3/2/2024)



Joins page 7

Joins page 14

8

Note: Chart grid lines are aligned with true north.

CAUTION
ned that exploratory surveys and explor- may be in progress in, or in the vicinity of, the Traffic Separation Scheme. These hazards to navigation. The most recent District Local Notice to Mariners for the schedule of current operations.

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

NOAA WEATHER RADIO BROADCASTS
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Santa Barbara Marine, CA	WWF-62	162.475 MHz
Santa Ana, CA	WWG-21	162.450 MHz

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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, and U.S. Coast Guard.

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Pipeline Area Cable Area

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NOTE J
TRAFFIC SEPARATION SCHEME
One-way traffic lanes overprinted on this chart are RECOMMENDED for use by all vessels at the points involved. They have been designed to aid in the prevention of collisions at the harbors and along heavily traveled coastal waters, but are not intended in any way to supplant applicable Rules of the Road. Separation zones are intended to separate inbound and outbound traffic. Separation zones should not be used except for crossing purposes. Traffic lanes and separation zones use extreme caution. The normal Pilot Operating Areas are indicated by magenta bands. A Procautionary Area has been established at Los Angeles recommended that vessels proceed with caution in this area.

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

UNITED STATES
CALIFORNIA

SAN DIEGO TO SAN PEDRO BAY

RADIO TOWERS
KFI 640 kHz

POLLUTION REPORTS
Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8602 (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 Alameda, California or at the Office of the District Engineer, Corps of Engineers in Los Angeles, California. Refer to charted regulation section numbers.

NOTE O
Vessels with 50 foot draft or less will be boarded south of RACON Buoy 3. Vessels with a draft greater than 50 feet will be boarded south of Buoy 1.

Within the 12-nautical mile limit of the territorial limit of the other laws, the laws of Florida, Texas, and Puerto Rico most cases the inner limit of the state mile Exclusive Economic Zone Unless fixed by treaty or modification.

Merca
Scale 1:234
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SOUNDING
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Site was
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Designatio
dumping.

SOUNDINGS IN FATHOMS

(FATHOMS AND FEET TO 11 FATHOMS)

NOTE H
Acoustic Range Facility

Numerous shore connected bottom cables are located within the outlined area.

NOTE B

Submarine Pipelines and Cables

Uncharted submarine pipelines and cables may exist in the vicinity of oil well structures, and between such structures and the shoreline. Mariners should use caution when anchoring.

Oil well structures, and submarine pipelines and cables are charted only where outside of the indicated limits of charts 18725, 18744, and 18746.

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



ES - WEST COAST
IFORNIA

SANTA ROSA ISLAND

ator Projection
4,270 at Lat. 33°20'
rican Datum of 1983
eodetic System 1984)

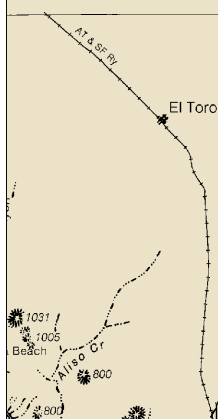
NGS IN FATHOMS
FEET TO ELEVEN FATHOMS)
LOWER LOW WATER

shore navigation only
charts outlined in diagram for

NOTE G
CHEMICAL MUNITIONS DUMPING
AREA - RESTRICTION

as formerly used or designated for U.S. chemical
is dumping. Such use has been discontinued.
on of such area in no way constitutes authority for

NOTE X
cal mile Territorial Sea, established by Presidential Proclamation,
apply. The Three Nautical Mile Line, previously identified as the
rial sea, is retained as it continues to depict the jurisdictional
The 9-nautical mile Natural Resource Boundary off the Gulf coast
Puerto Rico, and the Three Nautical Mile Line elsewhere remain in
limit of Federal fisheries jurisdiction and the outer limit of the
tes. The 24-nautical mile Contiguous Zone and the 200-nautical
omic Zone were established by Presidential Proclamation.
for the U.S. Supreme Court, these maritime limits are subject



NOTE D

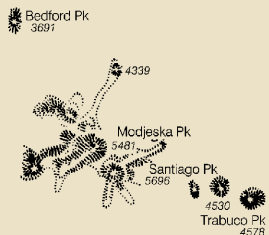
AREAS TO BE AVOIDED

All ships, except those bound to and from ports on one of the islands within the areas, engaged in the trade of carrying cargo, including, but not limited to tankers and other bulk carriers and barges, should avoid the areas. (MSC, IMO 59/33 Annex 21; IMO SN.1/Circ.342 Annex 2).

NOTE M

NAVAL OPERATING AREA

Vessels should use caution while transiting this area due to naval test operations which involve frequent maneuvers in the vicinity of and around this location.



NOTE K

LOCAL MAGNETIC DISTURBANCE

Differences as great as 5° from the normal variation have been observed in the vicinity of San Clemente Island.

WARNING

San Clemente Island is a NAVAL RESERVATION and is closed to the public.

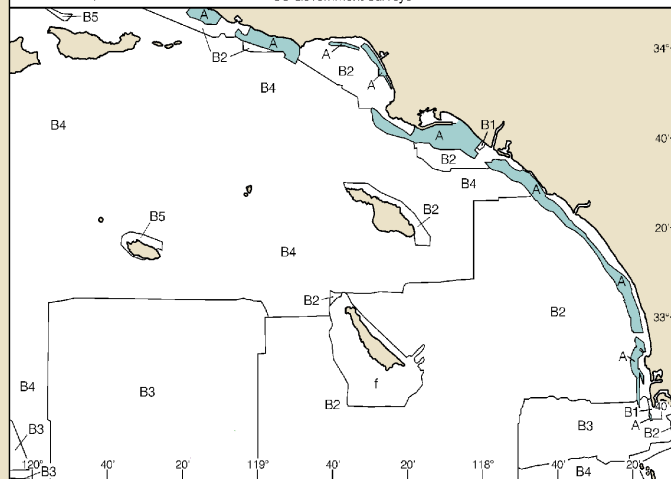
TIDAL INFORMATION

PLACE	(LAT/LONG)	Height referred to datum of soundings (MLLW)		
		Mean Higher High Water	Mean High Water	Mean Low Water
Point Loma	(32°40'N/117°14'W)	5.3	4.6	0.9
La Jolla (Scripps Institution Wharf)	(32°52'N/117°15'W)	5.3	4.6	0.9
Newport Bay Entrance, Corona del Mar	(33°36'N/117°53'W)	5.4	4.7	0.9
Los Angeles (Outer Harbor)	(33°43'N/118°16'W)	5.5	4.8	0.9
Port Hueneme	(34°09'N/119°12'W)	5.4		

Joins page 15

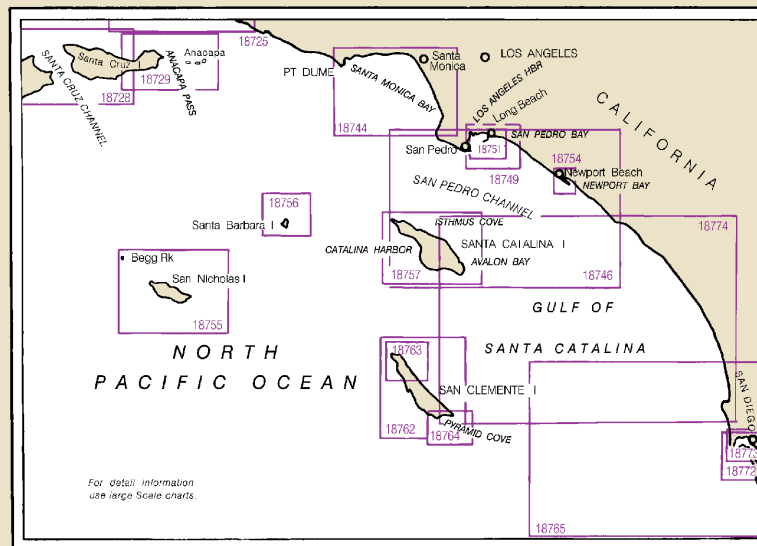
SOURCE

A	1990-2013	NOS Surveys	full bottom coverage
B1	1990-2001	NOS Surveys	partial bottom coverage
B2	1970-1989	NOS Surveys	partial bottom coverage
B3	1940-1969	NOS Surveys	partial bottom coverage
B4	1900-1939	NOS Surveys	partial bottom coverage
B5	Pre-1900	NOS Surveys	partial bottom coverage
f		US Government Surveys	



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, U.S. Coast Pilot.



Los Pinos Pk
4525
NATURE RESERVE
Entry into the Marine Nature Reserve is affected by numerous restrictions and prohibitions. For further details, contact local authorities.

NATIONAL MARINE SANCTUARIES
& MARINE PROTECTED AREAS

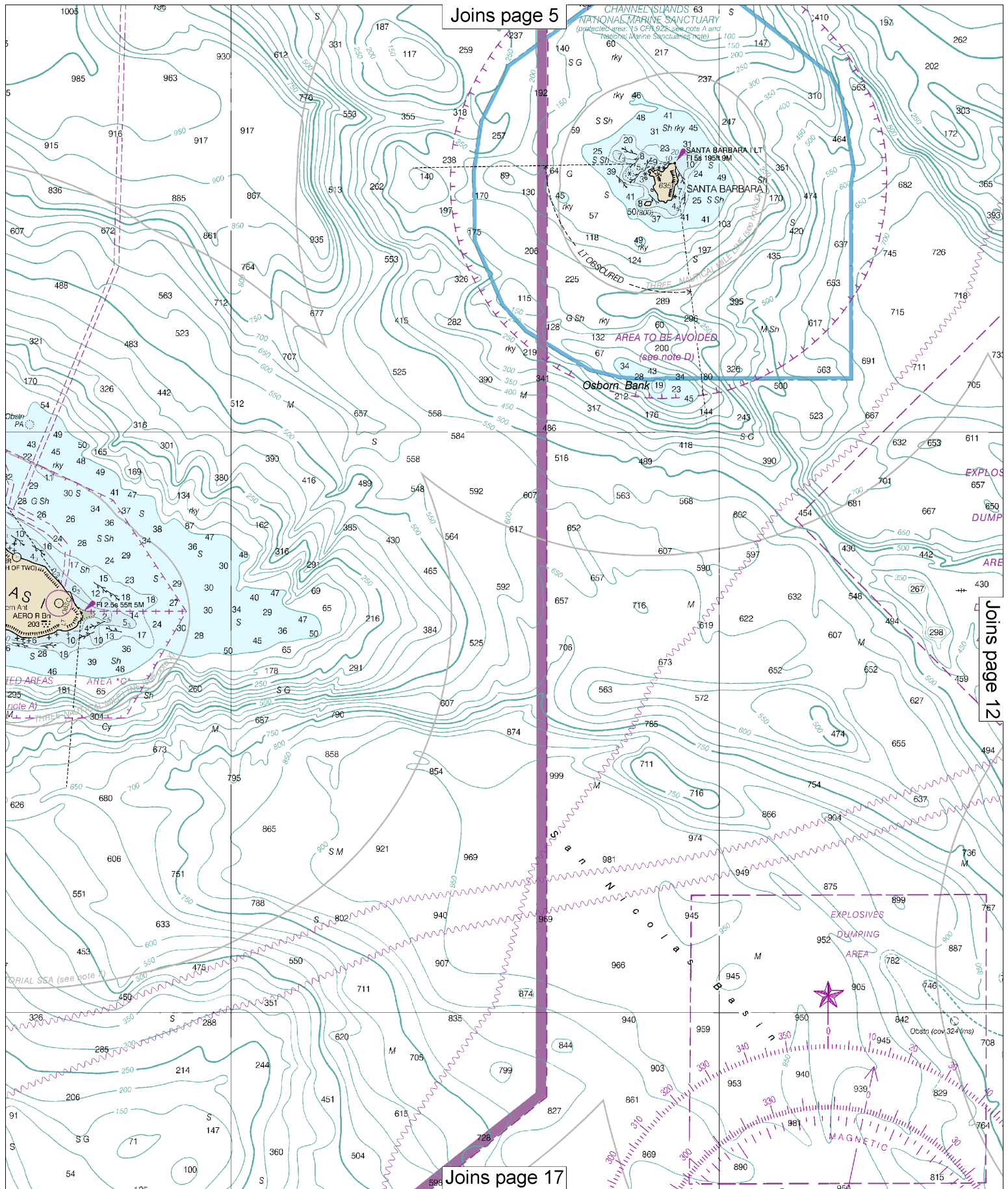
National Marine Sanctuaries are protected areas, administered by NOAA, which contain sensitive and diverse natural and cultural resources. These areas are particularly sensitive to environmental damage such as spills of oil and other hazardous materials, discharges and groundings. Exercise particular caution and follow applicable Sanctuary regulations when transiting these areas. A full description of Sanctuary regulations may be found in 15 CFR 922 and in the U.S. Coast Pilot. A full description of the federal regulations governing the Marine Protected Areas located within Channel Islands National Marine Sanctuary boundaries may be found in 15 CFR 922 and 50 CFR 660. A full description of the state regulations governing the Marine Protected Areas located within Channel Islands National Marine Sanctuary boundaries may be found in Title 14 California Code of Regulations (CCR) section 632.

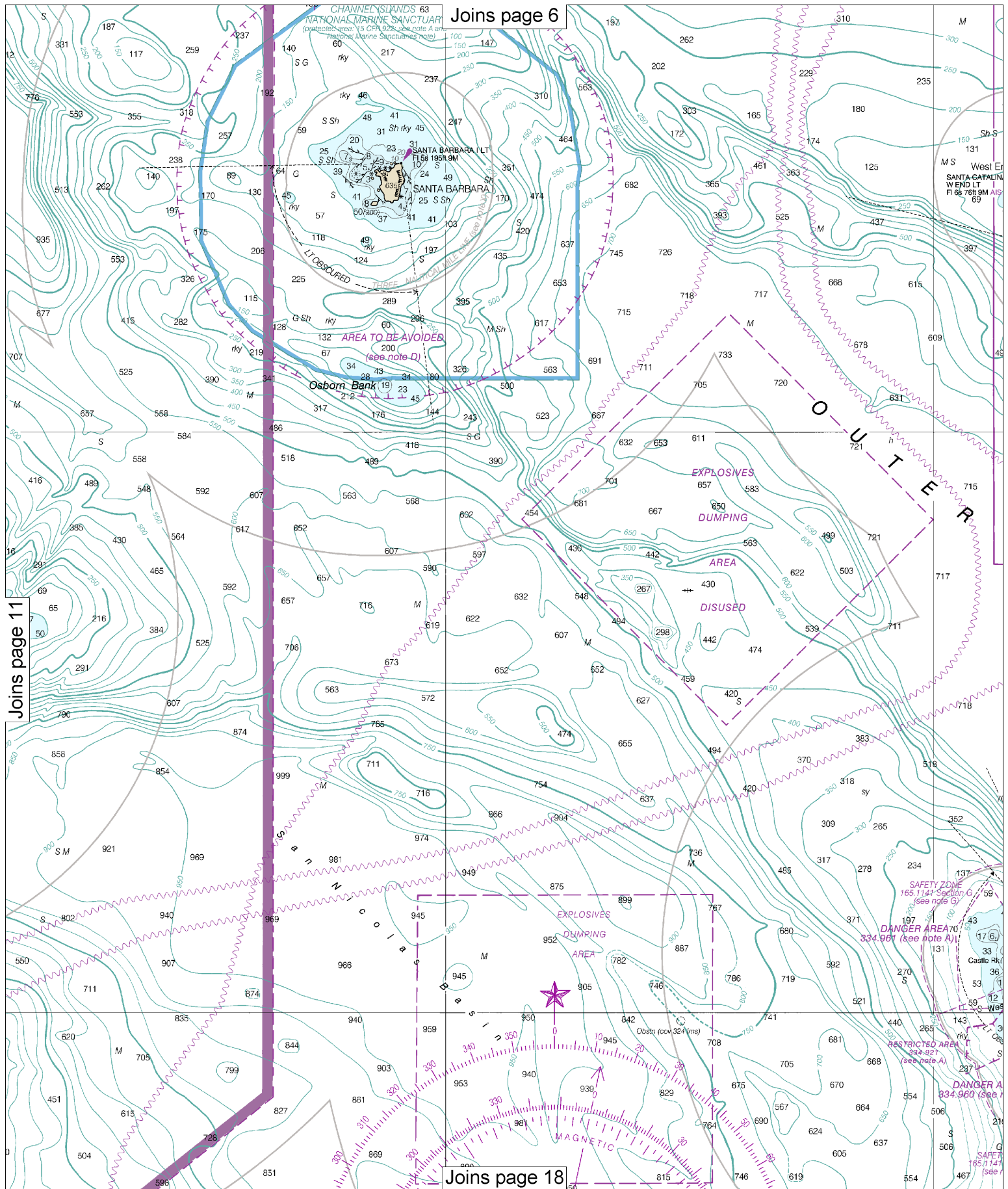
HORIZONTAL DATUM

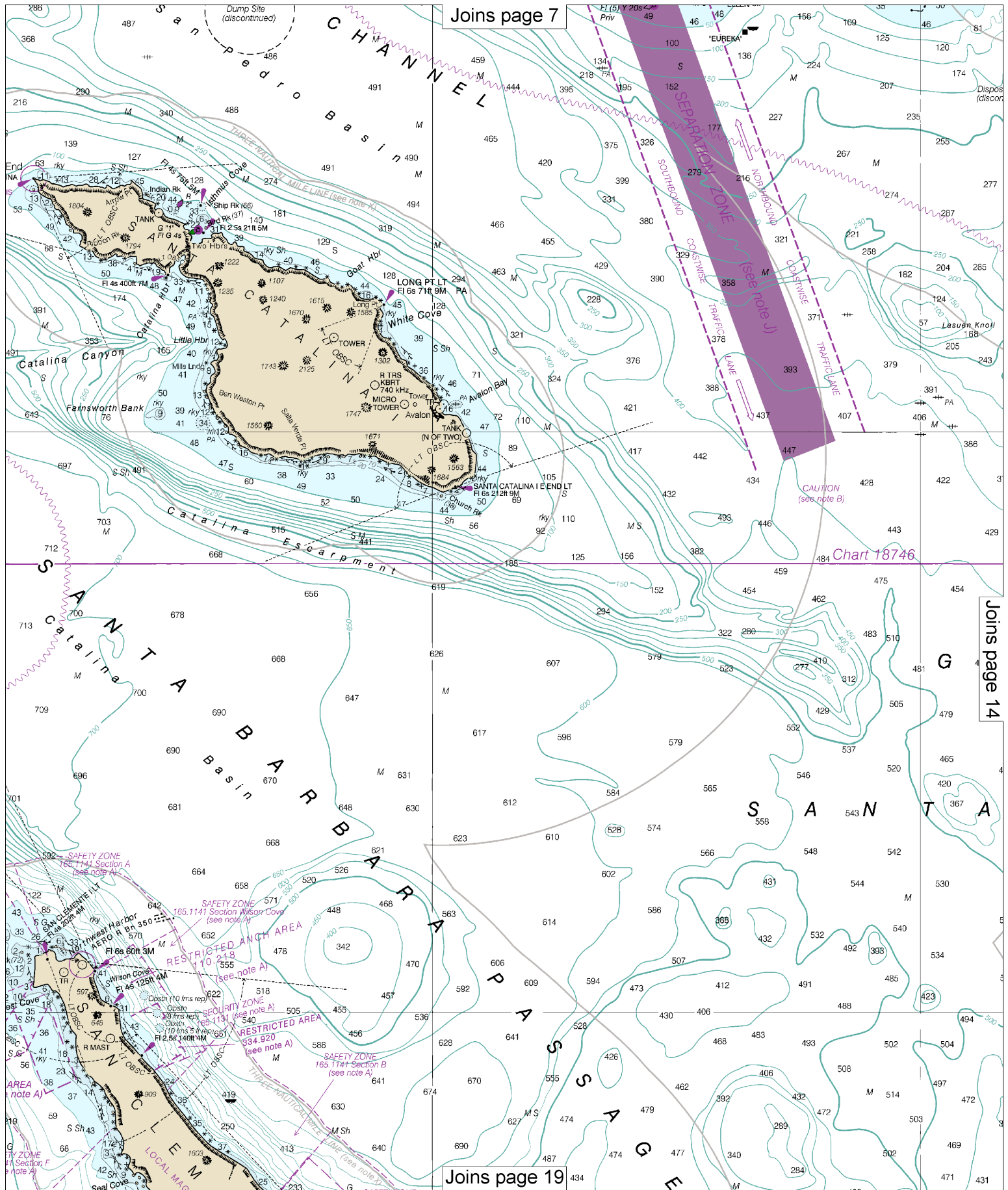
The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83) which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the

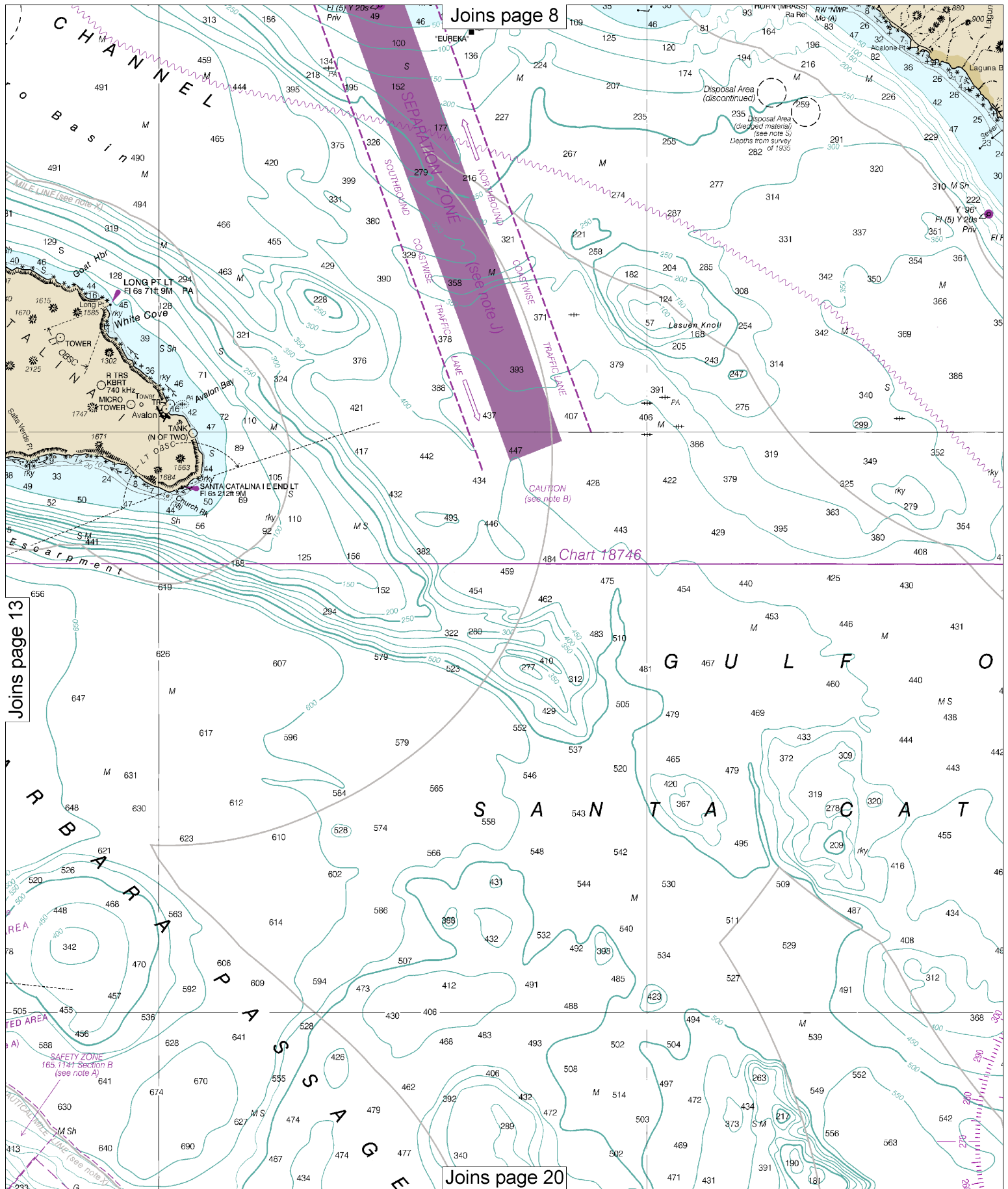


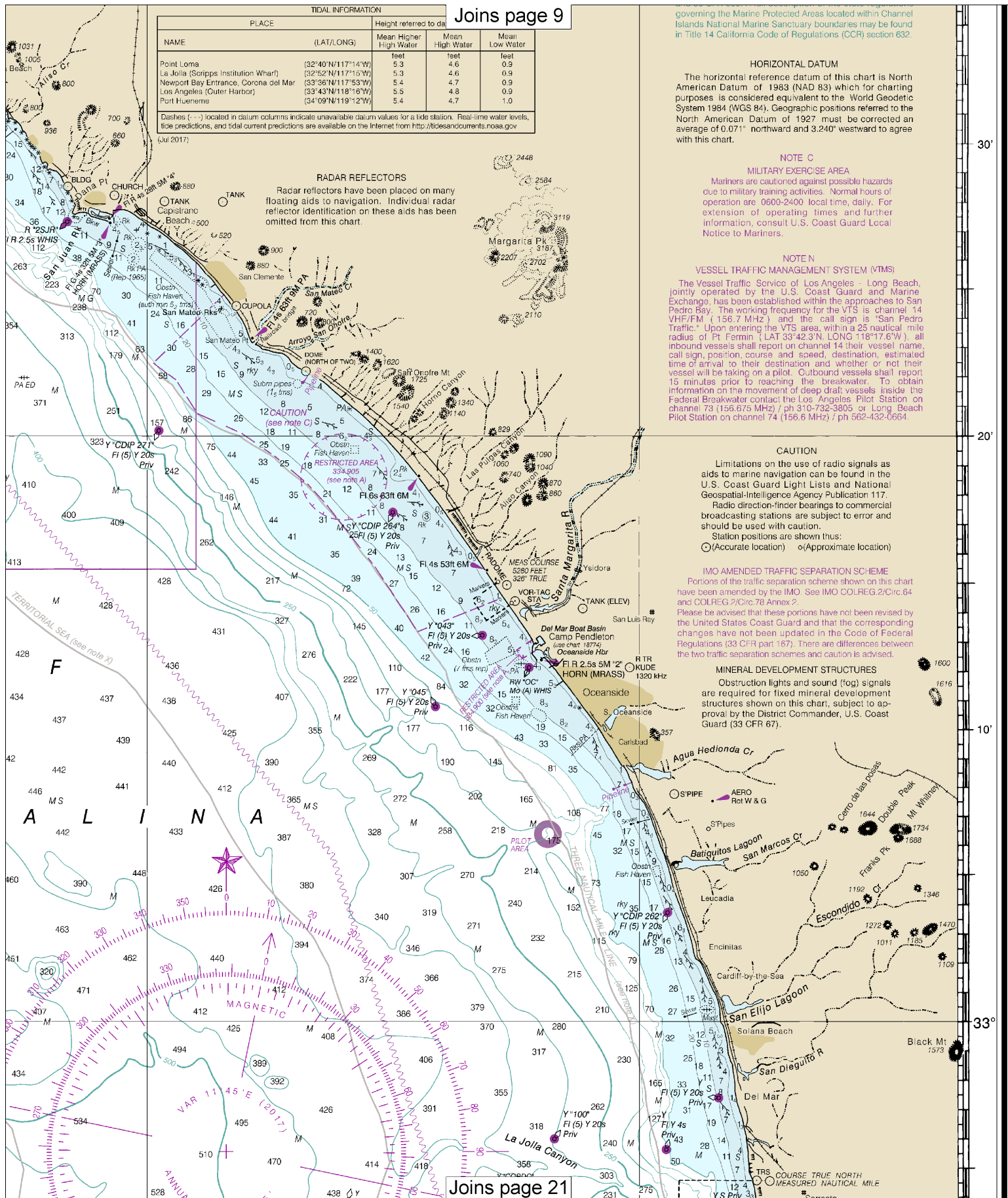
Note: Chart grid lines are aligned with true north.

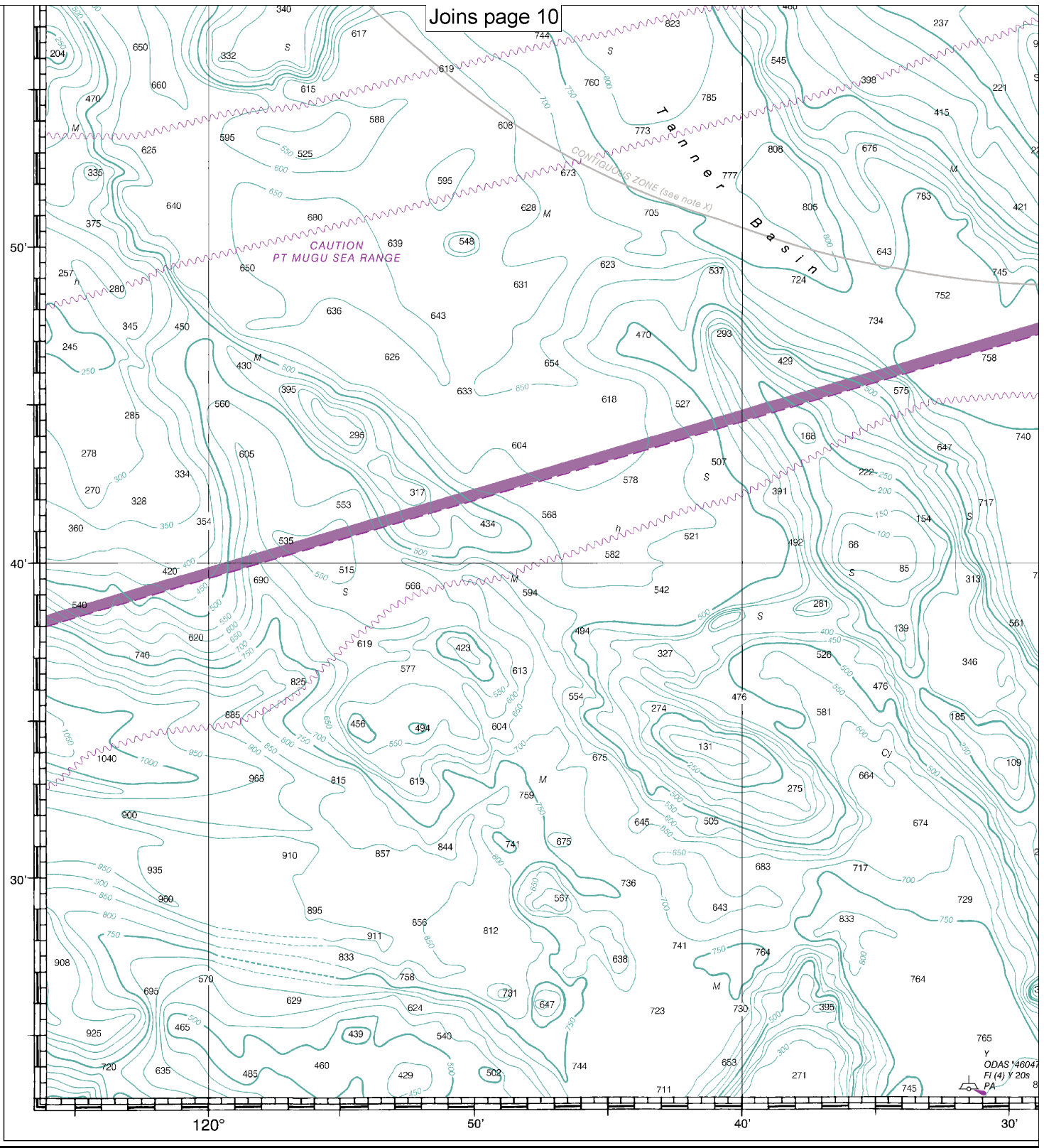












18740

CAUTION

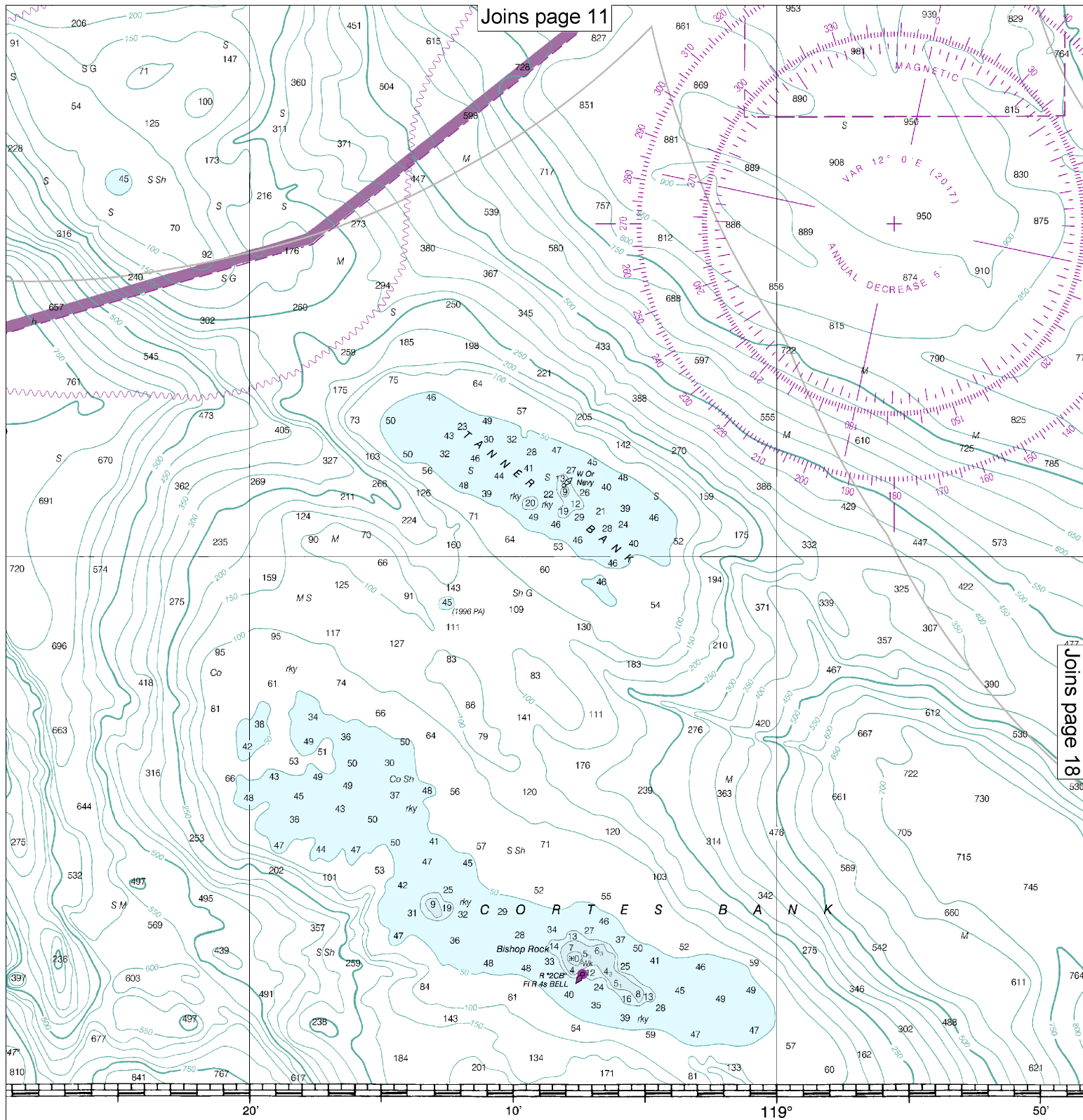
This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

NOAA encourages users to submit inquiries, discrepancies about this chart at <http://www.nauticalcharts.noaa.gov/stall/cor>

Use ENC charts for the most up to date information. References to other charts may no longer be applicable.
48th Ed., Jul. 2020. Last Correction: 11/16/2023. Cleared through:
LNM: 0824 (2/20/2024), NM: 0924 (3/2/2024)

16

Note: Chart grid lines are aligned with true north.



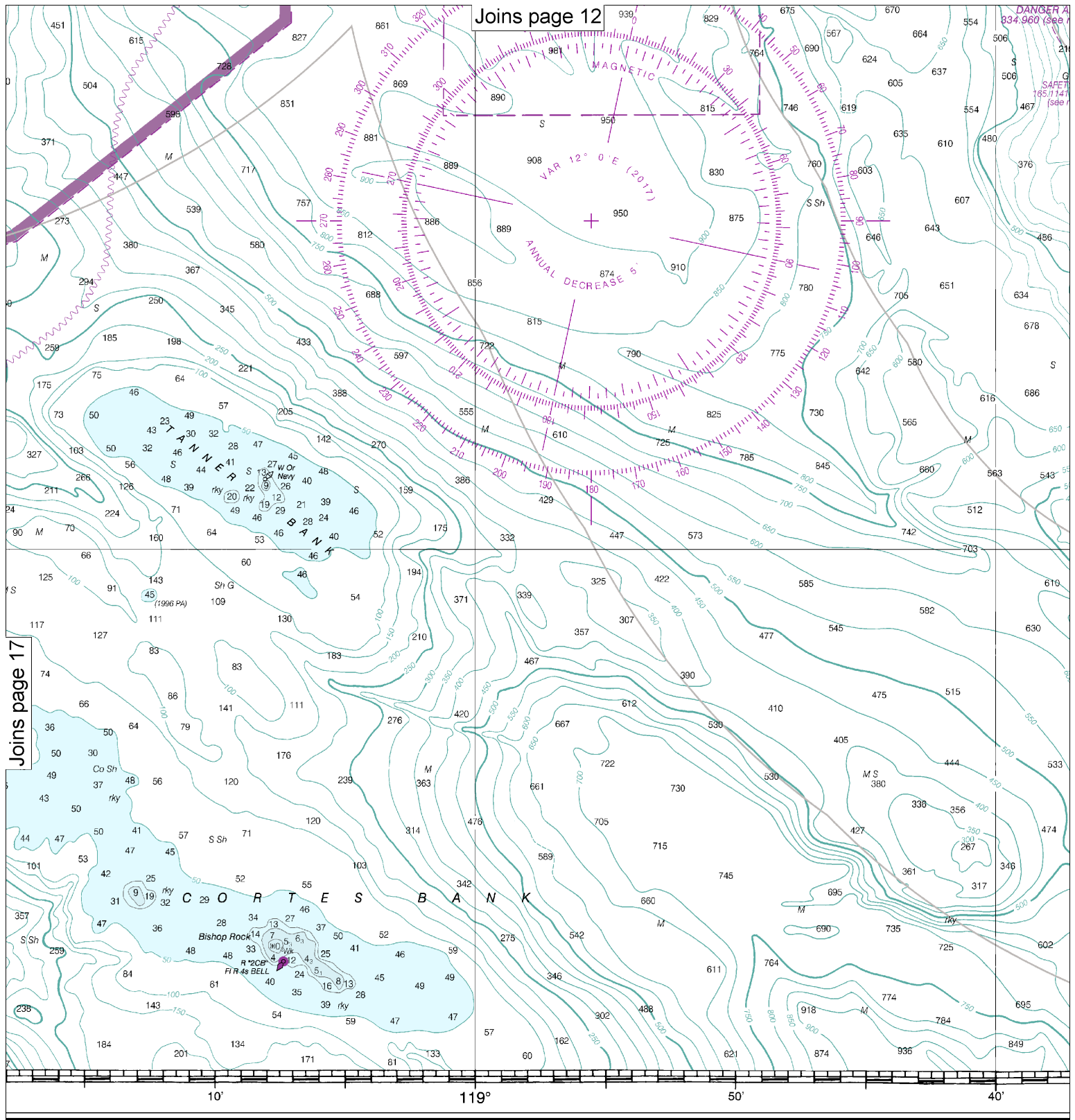
es or comments
on lach.him.

VESSEL TRANSITING

The U.S. Coast Guard and the Pacific States/British Columbia Oil Spill Task Force endorse a system of voluntary measures and minimum distances from shore for certain commercial vessels transiting along the coast anywhere between Cook Inlet, Alaska and San Diego, California. See U.S.Coast Pilot 7, Chapter 3 for details.

SOUNDINGS IN FATHOMS

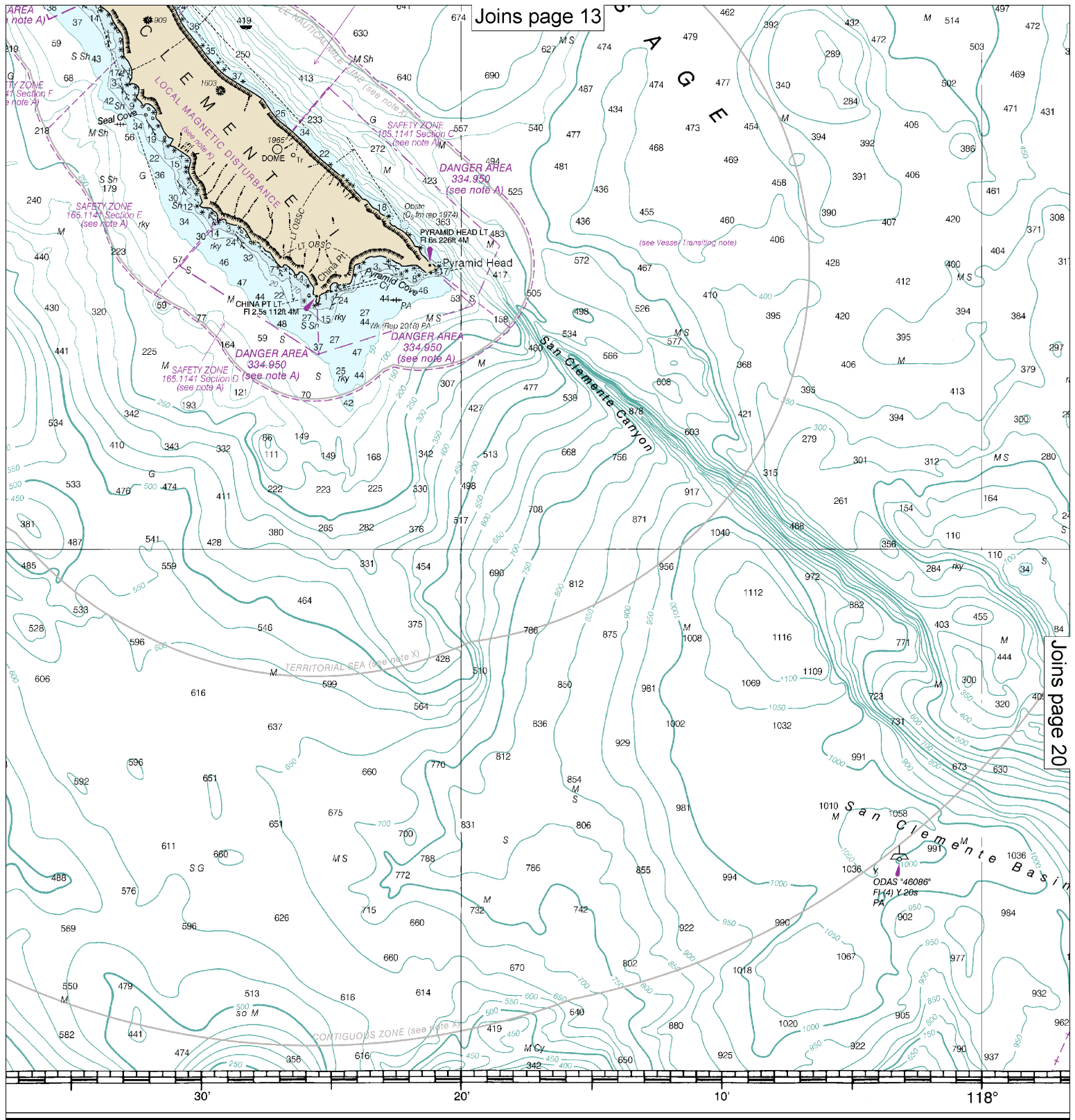
(FATHOMS AND FEET TO 11 FATHOMS)



VESSEL TRANSITING
 and the Pacific States/British Columbia Oil Spill
 a system of voluntary measures and minimum
 e for certain commercial vessels transiting along
 e between Cook Inlet, Alaska and San Diego,
 Coast Pilot 7, Chapter 3 for details.

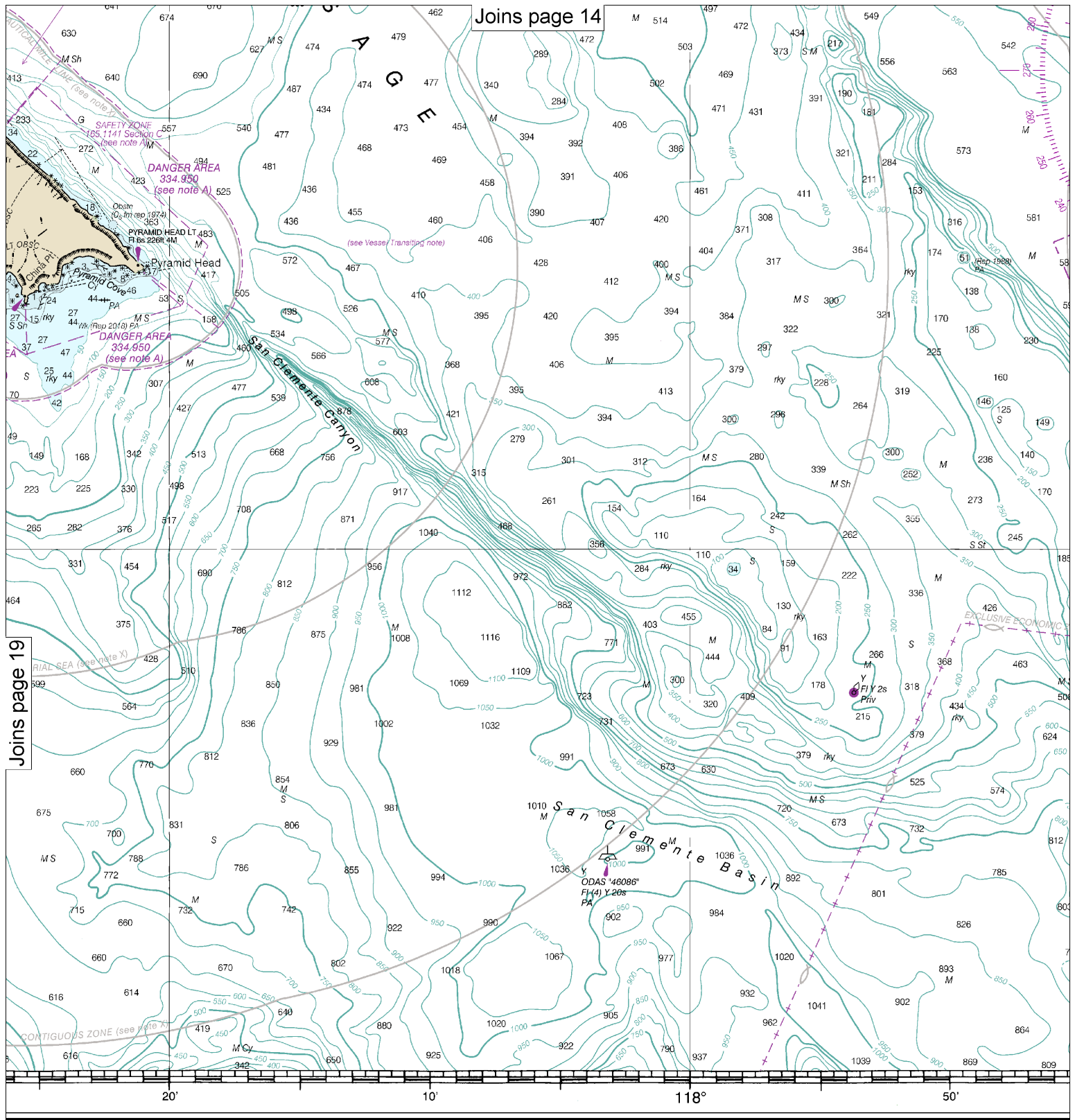
SOUNDINGS IN FATHOMS
 (FATHOMS AND FEET TO 11 FATHOMS)

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at Washington, D.C.
MENT OF COMMERCE
Y ATMOSPHERIC ADMINISTRATION
L OCEAN SERVICE
AST SURVEY

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.

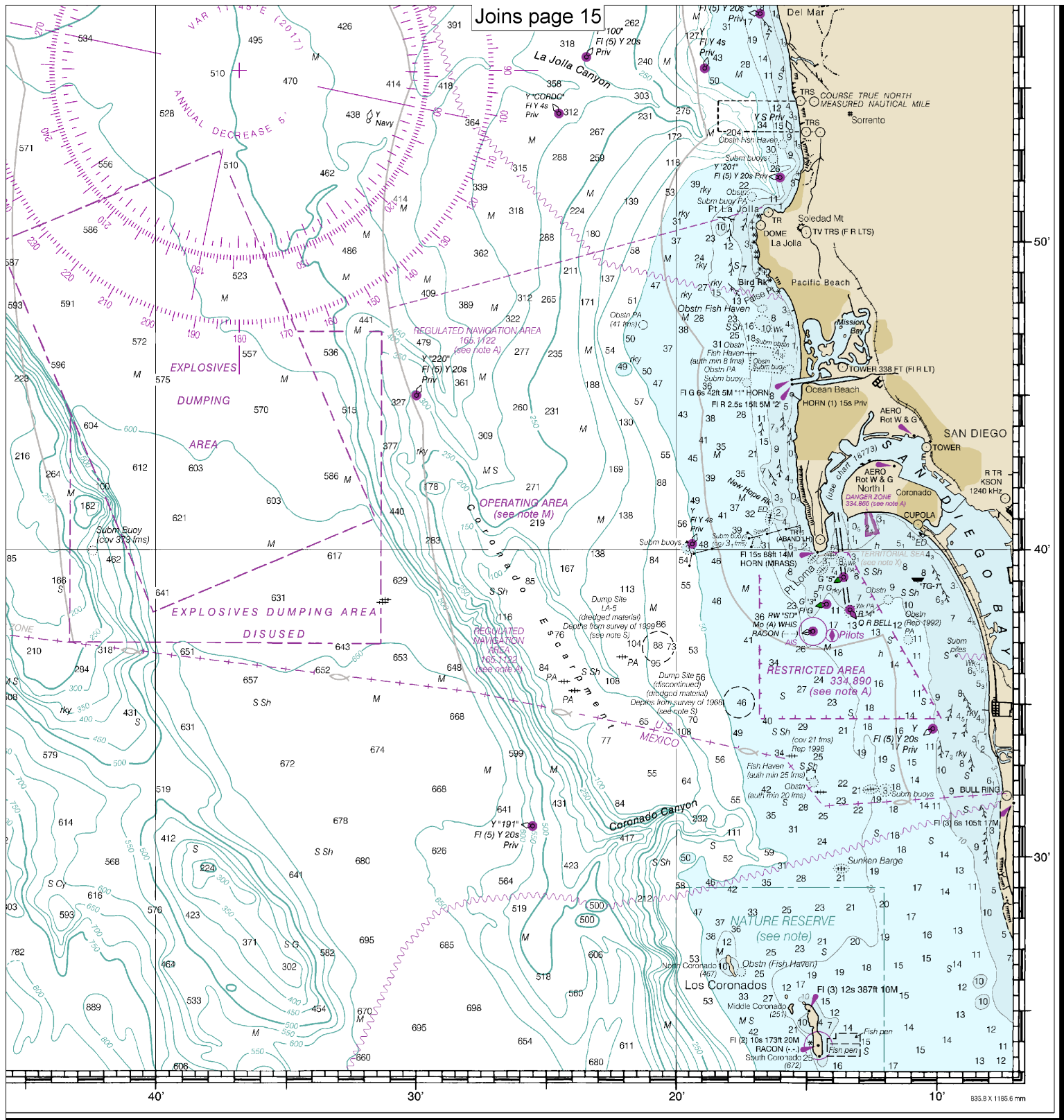


WARNING

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.

20

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

San Diego to Santa Rosa Island
SOUNDINGS IN FATHOMS - SCALE 1:234,270

18740



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
Interactive chart catalog	—	http://www.charts.noaa.gov/InteractiveCatalog/nrnc.shtml
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 **@NOAAcharts**



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.