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18020

THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES - WEST COAST

CALIFORNIA

SAN DIEGO TO CAPE MENDOCINO

Mercator Projection
Scale 1:1,444,000 at Lat. 39°

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FATHOMS
AT MEAN LOWER-LOW WATER

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

For offshore navigation only

NOTICE TO MARINERS

NOTE A
IMO - adopted Recommended Routes for vessels carrying hazardous cargo, or oil in quantities (i.e. concentrates, explosives, radioactive materials, petroleum products, chemicals or other noxious/dangerous cargo). Vessels using these routes should use the appropriate traffic lane when passing or leaving San Francisco.

NOTE B
IMO - adopted Recommended Tracks for vessels 300 gross tons and above, carrying hazardous cargo or oil in bulk or in quantity.

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MARINE SANCTUARIES
Gulf of the Farallones National Marine Sanctuary
Monterey Bay National Marine Sanctuary

MINERAL DEVELOPMENT STRUCTURES
Obstruction lights and sound (fog) signals are required but have advanced characteristics not listed in the Light List. Subject to approval by the District Commander, U.S. Coast Guard (3rd CPR ST).

NOTE H
Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7. Copies of these regulations may be obtained at the vendor or by requesting information updates by mail from Nautical Data, Customer Service, NOAA, Silver Spring, Maryland 20910-3282. Refer to charted regulation section numbers.

NOTE I
TRAFFIC SEPARATION SCHEME
Recommended traffic lanes and precautionary areas for the approaches to San Francisco Bay are shown on charts 18649, 18680, and 18640.

NOTE J
The U.S. Coast Guard operates an Offshore Vessel Traffic Service (OVTS) in the approaches to San Francisco Bay. Participation is voluntary except that all vessels required to carry a pilot must participate. Vessels required to consult Vessel Traffic Service San Francisco (VTS) are those 300 gross tons and over, and towing vessels 26 feet or more and encountered or made up to tow more than 600 gross tons. Vessels are also required to maintain depths of vessel, shipping safety fairways, and anchorage areas. Vessels should monitor VHF-FM channel 14 and acknowledge broadcasts. Complete OVTS operating procedures is available from the VTS.

LOCAL MAGNETIC DISTURBANCE
Differences of as much as 6° from the normal may be found in the vicinity of submarine cables. See Coast Pilot 7 and individual charts for details of the vicinity of a cable area.

RADAR REFLECTORS
Radar reflectors have been placed on many floating aids to navigation. See Light List for those which can be identified.

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

NOTE K
DANGER, UNCHARTED DUMPING
Ships are hereby cautioned to navigate with care in the vicinity of dumping grounds. Vessels are prohibited from dumping, discharging or injecting any material into the ocean (zone) boundaries. Consult the Light List and/or U.S. Coast Pilot for details.

SAN DIEGO TRIPOD
The Navy has installed a tripod off the point of Point Loma. Vessels navigating in the vicinity of the tripod should exercise caution as it will project in the California Current Traffic Lanes.

NOTE L
The Navy has established a Restricted Area - Underwater Operations Area off the entrance to San Diego Bay. See Coast Pilot or Navigation Area 2 Mariners Bay.

NOTE M
All ships should keep broad to starboard and not impede the passage of vessels navigating within the traffic separation scheme including but not limited to tankers and vessels carrying hazardous cargo. Vessels avoid the lanes (MSC.1/Circ.1060/Corr.1).

NOTE N
All ships should keep broad to port and not impede the passage of vessels navigating within the traffic separation scheme including but not limited to tankers and vessels carrying hazardous cargo. Vessels avoid the lanes (MSC.1/Circ.1060/Corr.1).

NOTE O
TRAFFIC SEPARATION SCHEME
Recommended traffic lanes and precautionary areas for the approaches to San Francisco Bay are shown on charts 18649, 18680, and 18640.

MAGNETIC VARIATION
Magnetic roses are oriented to true north (zero) and to the Pacific Magnetic Model and are corrected yearly for annual change. The annual change to a value (direction) as variation (east or west) is shown on the rose. Information on the change in magnetic direction is available in the publication and the mariner is advised to

HORIZONTAL DATUM
The horizontal datum for this chart is North American Datum of 1983 (NAD83), which for charting purposes is considered equivalent to the World Geodetic System of 1984 (WGS84). The position of this chart is 0.47m/0.26 fathoms/1.53 feet southeast of WGS 72 (not equal correction to NAD 83 for position on this chart).

REGEL TRENDTIME
The U.S. Coast Guard and the Pacific States Marine Fisheries Commission have established a regulation for the protection of crabs during the winter season. Fishermen are advised to check with the California Department of Fish and Game, Sacramento, and U.S. Coast Pilot 7 - 15 miles S of the border.

CAUTION
SUBMARINE PIPELINES AND CABLES
Vessels navigating in the vicinity of submarine pipelines and submarine cables and cable areas are advised to

Pipeline Area

Submarine cable

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Mariners are advised that all submarine cables are considered to be active and should be avoided by an anchor and by at least a 500 yard radius when anchoring. Mariners should use extreme caution when operating in the vicinity of any submarine cable and are required to report any damage to submarine cables immediately to the cable owner. Vessels operating in the vicinity of submarine cables may be hindered by restricted maneuverability.

Do not anchor, trawl or dredge in the vicinity of submarine pipelines and submarine cables as this may damage the pipeline or cable and result in severe penalties.

NOTE P
Regulations for Ocean Dumping Sites are contained in 40 CFR Parts 220-229. Information concerning the location of ocean dumping sites and requirements for use of the sites may be obtained from the Environmental Protection Agency (EPA) or the San U.S. Coast Pilot's appendix for addresses of EPA offices.

HAZARDS
Shoals of rocks, bridges, landmarks and other navigational hazards are shown on the chart. Consult the Coast Pilot 7 and Navigational Information Publication.

CAUTION
Temporary changes or defects in aids to navigation are published in the Notice to Mariners and Local Notice to Mariners.

CAUTION
Limitations on the use of radio signals as navigational aids are published in the Light List, U.S. Coast Guard Light List and in National Geospatial-Intelligence Agency Publication 117.

Vessels navigating in the vicinity of military operations/training areas are cautions to know and to avoid the restricted areas.

Consult Coast Pilot 7 for Submarine Bus. Consult the locations - Unsynchronize location).

ALTIMETER
Hydrography and topography by the National Ocean Service, Coast Survey and additional data from the U.S. Coast Guard and Army Geospatial Intelligence Agency.

AIDS TO NAVIGATION
Consult U.S. Coast Guard Light List for information concerning aids to navigation. Consult the National Geospatial-Intelligence Agency Publication 117 and the Coast Guard Light List for Center List of Lights and Fog Signals for Victoria Island are included in the U.S. Coast Guard Light List.

ACOUSTIC RANGE FACILITY
Numerous active underwater test ranges are located within this area.

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

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Corrected through NM: Jan 1 0:12
Corrected through LNM: Jan. 1 0:12

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 as listed above in the lower left hand corner. Chart updates corrected from Notice to Mariners (NM) and Local Notice to Mariners (LNM) issued subsequent to the above dates are listed in the lower left hand corner are available in nauticalcharts.noaa.gov.

This nautical chart has been designed to promote safe navigation. The National Ocean Service welcomes any comments you may have regarding improving it as may help in the Chief, Marine Chart Division (N/CS3), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

SOUNDINGS IN FATHOMS

WARNING
This graphic feature and text may not be used for navigation. Refer to Nautical Data - Box U.S. Coast Guard Light List and U.S. Coast Pilot for details.

CONTROL DATUM
LORAN-C TD
METERS

San Diego to Cape Mendocino
SOUNDINGS IN FATHOMS - SCALE 1:1,444,000

18020

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