Formerly C&GS 5002, 1st Ed., Mar. 1900 C-1867-19 KAPP 1654

Nautical Chart Catalog No. 2, Panels C, R

JOINS CHART 18007

CONTINUED ON CHART 530

UNITED STATES - WEST COAST

CALIFORNIA

SAN DIEGO TO CAPE MENDOCINO

Mercator Projection
Scale 1:1,444,000 at Lat. 38°

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FATHOMS
AT MEAN LOWER LOW WATER

For offshore navigation only

LORAN-C
GENERAL EXPLANATION

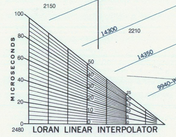
LORAN-C FREQUENCY 100kHz
PULSE REPETITION INTERVAL
9940 ..... 99,400 Microseconds
STATION TYPE DESIGNATORS: (Not individual station 'letter' designators)
M ..... Master
W ..... Secondary
X ..... Secondary
Y ..... Secondary
Z ..... Secondary

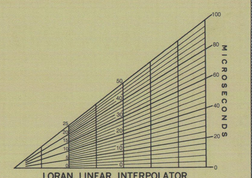
EXAMPLE: 9940-X

RATES ON THIS CHART

9940-W 9940-X 9940-Y

Loran-C correction tables published by the National Imagery and Mapping Agency or others should be used with this chart. The lines of position shown are based on assumed all seawater signal paths. Uncorrected positions may not meet the 1 nautical mile accuracy criteria established by U.S. Coast Guard. Mariners are cautioned to use larger scale Loran-C charts where possible.





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). Positions referred to the North American Datum of 1927 do not require conversion to NAD 83 for plotting on this chart.

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation lights are white unless otherwise indicated.

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

Bottom characteristics:

Blds boulders
Br broken
Cb coral
Co coral
G gravel
Gns grass
gr gray
h hard
M mud
Oys oysters
Rk rock
S sand
sc sc sh
Sh shells
sy sticky

AUTH authorized
ED existence doubtful
Obstn obstruction
PA position approximate
PD position doubtful
Rep reported
Subm submerged
wreck, rock, obstruction, or shoal swept clear to the depth indicated.
Rocks that cover and uncover, with heights in feet above datum of soundings

HEIGHTS

Elevation of rocks, bridges, landmarks and lights are in feet and refer to Mean High Water. Control and supplemental elevation values are in feet and refer to Mean Sea Level.

CAUTION

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

CAUTION

Only marine radiobeacons have been calibrated for surface use. Limitations on the use of other stations and signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Imagery and Mapping Agency Publication 117.
Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.
Station positions are shown thus:
⊙(Accurate location) ⊕(Approximate location)

AUTHORITIES

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

NOTE B
SUBMARINE OPERATING AREAS

CAUTION

Boundary limits and designations of Submerged Submarine Operating Areas are shown by solid purple lines and are indicated by letters thus: Area "U4". As submarines may be operating in these areas, vessels should proceed with caution. During torpedo practice firing, all vessels are cautioned to keep well clear of all Naval Target Vessels flying a large red flag at the highest masthead.

NOTE H
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 ships carrying hazardous cargo, should avoid the areas. (MSC, IMO SN/33 Annex 21).

NOTE K

IMO - adopted Recommended Tracks for vessels carrying hazardous cargo in bulk (including ore concentrates, explosives, munitions, chemicals, liquefied gases, refined petroleum products and other non-dangerous cargo). Vessels using these tracks should join the Western TSS when entering or leaving San Francisco.

NOTE I

IMO - adopted Recommended Tracks for vessels 300 gross tons and above (except those carrying hazardous cargo in bulk or crude oil).

NATIONAL MARINE SANCTUARY NOTE

National Marine Sanctuaries are protected areas, administered by NOAA, which contain abundant and diverse natural resources such as marine mammals, seabirds, fishes and lobpod invertebrates. These areas are particularly sensitive to environmental damage such as spills of oil and other hazardous materials, discharges, and groundings. Exercise extreme caution and navigate at reasonable speeds when transiting these areas. Federal environmental property. A full description of Sanctuary regulations may be found in 15 CFR Part 922 and in Coast Pilot.

MINERAL DEVELOPMENT STRUCTURES

Obstruction lights and sound (fog) signals are required for fixed mineral development structures shown on this chart, subject to approval by the District Commander, U.S. Coast Guard (33 CFR 67).

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 San Francisco and Los Angeles, California.
Refer to charted regulation section numbers.

NOTE C
TRAFFIC SEPERATION SCHEME

Recommended traffic lanes established for the approaches to San Francisco Bay are shown on charts 18645, 18680, and 18640.

NOTE J

The U.S. Coast Guard operates an Offshore Vessel Movement Reporting System (OVMRS) covering the seaward approaches to San Francisco Bay. All commercial vessels over 300 gross tons and all tugs with tows are required to report their movements to the Vessel Traffic Center on VHF-FM channel 12 (156.60 MHz) when entering this area. All vessels in the area are encouraged to listen on channel 12 at fifteen and forty-five minutes past each hour for broadcast reports of known shipping traffic in the area. Additional information on the OVMRS is published in Coast Pilot 7 and information concerning specific operating procedures is available from the VTS.

LOCAL MAGNETIC DISTURBANCE

Differences of as much as 5° from the normal variation have been observed in the vicinity of San Clemente Island and as much as 4° in the vicinity of Soltymile Bank.

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.

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 F
CHEMICAL MUNITIONS DUMPING AREA - RESTRICTION

Site was formerly used or designated for U.S. chemical munitions dumping. Such use has been discontinued. Designation of such area in no way constitutes authority for dumping.

SEA OTTER REFUGE

The State of California Fish and Game Code prohibits the use of boats or firearms, and the trapping of birds or mammals in the California Sea Otter Game Refuge.

NOTE G

Obstructions reported 50 feet off the bottom. All fishing vessels and other vessels involved in subsurface operations are advised to remain clear of this area.

ACOUSTIC RANGE FACILITY

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

NOTE E
TRAFFIC SEPARATION SCHEME

Recommended traffic lanes established in Santa Barbara and San Pedro Channels are shown on charts 18002, 18720, 18740, and 18746.

NOTE D

See Coast Pilot 7, Chapter 3 for information pertaining to Naval Operating Area in Bechers Bay.

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.
See National Imagery and Mapping Agency List of Lights and Fog Signals for information not included in the U.S. Coast Guard Light List.

NOTE S

Regulations for Ocean Dumping Sites are contained in 40 CFR, Parts 220-229. Additional information may be obtained from the Office of Requirements for use of the sites may be obtained from the Environmental Protection Agency (EPA). See U.S. Coast Pilots appendix for addresses of EPA offices.

CAUTION
SUBMARINE PIPELINES AND CABLES

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

Pipeline Area ——— Cable Area

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.
Of well structures and submarine pipelines and cables are charted only where outside of the indicated limits of charts 18720 and 18740.

Mt San Antonio (Old Baldy)
10064

CONTINUED ON CHART 530

36th Ed., Jan 27/01 ■
18020
LORAN-C OVERPRINTED

CAUTION
This chart has been corrected from the Notice to Mariners published weekly by the National Imagery and Mapping Agency and the Local Notice to Mariners issued periodically by each U.S. Coast Guard district to the date shown in the lower left hand corner.

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.

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.

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U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

SOUNDINGS IN FATHOMS

| FATHOMS | | |