



UNITED STATES - WEST COAST SAN FRANCISCO TO CAPE FLATTERY

Mercator Projection
Scale 1:1,200,000 at Lat. 49°00'
North American Datum of 1983
(World Geodetic System 1984)
SOUNDINGS IN FATHOMS
AT MEAN LOWER LOW WATER

Additional information can be obtained at nauticalcharts.noaa.gov
(For offshore navigation only)

CAUTION
Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence 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 by:
○ (Accurate location) ○ (Approximate location)

NOTE A
NAVAL OPERATING AREAS
Mariners should use caution in these areas. For further information consult Local Notices to Mariners.

NOTE B
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 important for their biological resources and scientific value.
Discharges and groundings in these 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 609. 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.

NOTE C
TRAFFIC SEPARATION SCHEME
Recommended traffic lanes established for the approaches to San Francisco Bay are shown on charts 18645, 18680, and 18642.

NOTE D
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 E
TRAFFIC SEPARATION SCHEME
Recommended traffic lanes established for the approaches to San Francisco Bay are shown on charts 18645, 18680, and 18642.

NOTE F
CHEMICAL MUNITIONS DUMPING AREA - RESTRICTED
Chemical munitions dumping. Such use has been discontinued. Designation of such area is by your coastwise authority of dumping.

NOTE G
SEA OTTER REFUGE
The State of California's Sea Otter Refuge protects the otter population and the thousands of birds and mammals in the California Sea Otter Refuge.

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 cargo, including but not limited to, persons and mail, should avoid these areas.
(MSX, MMS 5903 Annex 11)

NOTE I
LOCAL MAGNETIC DISTURBANCE
Disturbance of as much as 5° from the normal variation has been observed in the vicinity of San Clemente Island and as much as 4° in the vicinity of Sutter Bank.

NOTE J
POLLUTION REPORTS
Report all spill of oil and hazardous substances to the nearest U.S. Coast Guard Facility if telephone communication is impossible (33 CFR 165).

NOTE K
IMO - adopted Recommended Tracks for vessels carrying hazardous cargo in bulk (including oil tankers, bulk carriers, and chemical tankers) should use the Western I-TSS when entering or leaving San Francisco.

NOTE L
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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
Additional information can be obtained at nauticalcharts.noaa.gov.
For offshore navigation only

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1)
Aids to Navigation (lights are white unless otherwise indicated):
A light
B back
C light
D light
E light
F light
G light
H light
I light
J light
K light
L light
M light
N light
O light
P light
Q light
R light
S light
T light
U light
V light
W light
X light
Y light
Z light
AA light
BB light
CC light
DD light
EE light
FF light
GG light
HH light
II light
JJ light
KK light
LL light
MM light
NN light
OO light
PP light
QQ light
RR light
SS light
TT light
UU light
VV light
WW light
XX light
YY light
ZZ light
AAA light
BBB light
CCC light
DDD light
EEE light
FFF light
GGG light
HHH light
III light
JJJ light
KKK light
LLL light
MMM light
NNN light
OOO light
PPP light
QQQ light
RRR light
SSS light
TTT light
UUU light
VVV light
WWW light
XXX light
YYY light
ZZZ light
AAA light
BBB light
CCC light
DDD light
EEE light
FFF light
GGG light
HHH light
III light
JJJ light
KKK light
LLL light
MMM light
NNN light
OOO light
PPP light
QQQ light
RRR light
SSS light
TTT light
UUU light
VVV light
WWW light
XXX light
YYY light
ZZZ light

HEIGHTS
Elevation of rocks, ledges, landmarks and lights are in feet and tide to Mean High Water unless otherwise indicated.
CAUTION
Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.
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○ (Accurate location) ○ (Approximate location)

AUTHORITIES
Hydrography and topography by the National Oceanic and Atmospheric Administration, Coast Survey, with additional data from the U.S. Coast Guard and National Geospatial-Intelligence Agency.

AIDS TO NAVIGATION
Consist of U.S. Coast Guard Light Lists, supplemental information concerning aids to navigation.
National Geospatial-Intelligence Agency Center List of Lights and Fog Signals for information not included in the U.S. Coast Guard Light List.

ACOUSTIC RANGE FACILITY
Numerous shore connected bottom cables are located within the indicated areas.

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NOT FOR NAVIGATION
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
OFFICE OF COAST SURVEY
ESD-PHB-18, W00431
CA, OR Coastline
Channel Islands to Cape Blanco
REMARKS
Depths in Fathoms
Additional data and products for this survey available <http://www.noaa.gov>
Isolated features such as rocks, wrecks, and obstructions are not portrayed on this product
Based on ESD-18, 1991, and other data for additional information