COLREGS, 80.1385, 80.1390 (see note A)
International Regulations for Preventing Collisions at Sea, 1972.
The entire area of this chart falls seaward of the COLREGS Demarcation Line.

CABLE AND PIPELINE AREAS
The cable and pipeline areas falling within the areas of the larger scale Canadian charts are not shown on this chart.

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 thus:
⊙(Accurate location) o(Approximate location)

NOAA encourages users to submit inquiries, discrepancies or comments about this chart at http://www.nauticalcharts.noaa.gov/staff/contact.htm.

For Symbols and Abbreviations see Chart No. 1

HEIGHTS
Heights in feet above Mean High Water in U.S. Territory.
Contour and summit elevation values are in feet and refer to Mean Sea Level.
Heights expressed in feet above Higher High-Water.
Larger Tides in Canadian Territory.

Mercator Projection
Scale 1:80,000 at Lat 48° 36'
North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FATHOMS
(FATHOMS AND FEET TO ELEVEN FATHOMS)
AT MEAN LOWER LOW WATER IN U.S. TERRITORY
AT LOWEST NORMAL TIDES IN CANADIAN TERRITORY

SOUNDINGS IN FATHOMS
(FATHOMS AND FEET TO 11 FATHOMS)

THE NATION'S CHARTMAKER SINCE 1807
UNITED STATES - WEST COAST

WASHINGTON
# STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA

Formerly C&GS 6380, 1st Ed., July 1907 C-1927-282 KAPP 1657

PUGET SOUND HARBOR SAFETY PLAN
The US Coast Guard and the Puget Sound Harbor Safety Committee have developed and adopted a Harbor Safety Plan that formally established a set of Standards of Care for Puget Sound and surrounding waters. These Standards of Care are intended to supplement existing regulations by documenting good marine practices for a variety of operations including tug escorts, pilotage, anchoring, lightering, and provides additional information on required charts, Aids to Navigation and Emergency Response. If your vessel does not already have a copy of the Puget Sound Harbor Safety Plan, log on to http://pshsc.org/about/harbor_safety_plan or contact the Seattle Marine Exchange at (206) 443-3530.

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

TIDAL INFORMATION

| PLACE | | Height referred to datum of soundings (MLLW) | | |
|---|---|---|---|---|
| NAME | (LAT/LONG) | Mean Higher High Water | Mean High Water | Mean Low Water |
| | | feet | feet | feet |
| Patos Island Wharf | (48°47'N/122°58'W) | 8.6 | 7.9 | 2.6 |
| Bellingham | (48°45'N/122°30'W) | 8.5 | 7.8 | 2.4 |
| Blaine | (49°00'N/122°46'W) | 9.5 | 8.7 | 2.7 |
| Roche Harbor | (48°37'N/123°09'W) | 7.6 | 7.0 | 2.5 |

Dashes (- - -) located in datum columns indicate unavailable datum values for a tide station. Real-time water levels, tide predictions, and tidal current predictions are available on the Internet from http://tidesandcurrents.noaa.gov.
(Mar 2013)

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.

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

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

AIDS TO NAVIGATION
Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.
See Canadian List of Lights, Buoys and Fog Signals for information not included in the U.S. Coast Guard Light List.

COPYRIGHT
No copyright is claimed by the United States Government under Title 17, U.S.C. However, other nations may claim intellectual property rights on the compilation of data depicting the foreign waters shown on this chart.

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, 13th Coast Guard District in Seattle, Washington or at the Office of the District Engineer, Corps of Engineers in Seattle, Washington.
Refer to charted regulation section numbers.

SCALE 1:80,000
Nautical Miles
Yards

CANADIAN WEATHER RADIO BROADCASTS
The Canadian Weather Service station listed below provides continuous marine weather broadcasts.The range of reception is variable, but for most stations is usually 20 to 40 miles from the antenna site.
Vancouver, B.C. CFA-240 162.400 MHz

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 0.635" southwest and 4.630" westward to agree with this chart.

LOCAL MAGNETIC DISTURBANCE
Magnetic disturbances exist within the area of this chart. Differences from the normal variation have been observed as follows:

| | |
|---|---|
| Bellevue Point in Haro Strait | 4° |
| Vicinity of Point Doughty | more than 2° |
| NW head of East Sound | 2° |
| SE point of Guemes Island | 14° |
| Eastern shore of Burrows Bay | 4° |
| March Point | 2° |

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

CAUTION
Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

NOTE C
For Canadian Firing Practice and Exercise Areas see Canadian Notice to Mariners No. 35 of each year.

NOTE D
Mariners should use caution as naval craft may be maneuvering within the areas. For further information, consult Local Notice to Mariners.

NOTE B
TRAFFIC SEPARATION SCHEME
One-way traffic lanes overprinted on this chart are RECOMMENDED for use by all vessels traveling between the points involved. They have been designated to aid in the prevention of collisions in the Strait of Juan de Fuca and Strait of Georgia waters, but are not intended in any way to supersede or alter the applicable Rules of the Road. Separation zones are intended to separate inbound and outbound traffic and to be free of ship traffic. Separation Zones should not be used except for crossing purposes. When crossing traffic lanes and separation zones, use extreme caution.
Precautionary Areas have been established where major lanes merge and cross the traffic separation scheme. It is recommended that vessels proceed with caution in these areas. Wherever practical, vessels entering or leaving the system should do so at these precautionary areas. For more information regarding Traffic Separation Scheme procedures and regulations, see 33 CFR 167 and/or Chapter 2 of the U.S. Coast Pilot.
For information governing the VESSEL TRAFFIC MANAGEMENT AND INFORMATION SYSTEM for the coastal waters of southern British Columbia, see National Geospatial-Intelligence Agency Publication 154, Sailing Directions (enroute) for British Columbia, and the Sailing Directions British Columbia Coast (South Portion) Volume 1, published by the Canadian Hydrographic Service.

45 13 Vessel Traffic Services calling-in point with numbers; arrow indicates direction of vessel movement.

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.

| SOURCE | | | |
|---|---|---|---|
| A | 1990-2014 | NOS Surveys | full bottom coverage |
| B1 | 1990-2000 | 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 |

NOTE H
The U.S. Coast Guard operates a mandatory Vessel Traffic Services (VTS) system in the U.S. waters covered by this chart. Vessel operating procedures and designated radio telephone frequencies are published in 33 CFR 161, the U.S. Coast Pilot, and/or the VTS User's Manual.

NOTE I
A Cooperative Vessel Traffic Services (CVTS) system has been established by the United States and Canada within the adjoining waters in the Juan de Fuca Region. The appropriate Vessel Traffic Center (VTC) (Tofino Traffic, Seattle Traffic, Victoria Traffic) administers the rules issued by both nations, however, it will enforce only its own set of rules within its jurisdiction.

TURN POINT SPECIAL OPERATING AREA
For detailed information concerning this area, consult U.S. Coast Pilot 7.

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 E
Mariners are cautioned that the Washington State and/or local government Ferries may deviate from the published standard routes due to inclement weather, traffic conditions, navigational hazards, or other emergency conditions. Standard ferry routes within the waters of the San Juan Islands are not depicted on this chart.

NOTE F
Mariners may experience a strong set to the west in this area during ebb currents flowing out of Guemes Channel.

NATIONAL WILDLIFE REFUGE
The areas labeled NWR (National Wildlife Refuge) are closed to the public to protect breeding colonies of seabirds, endangered and threatened species, and marine mammals. Boaters are requested to stay at least 200 yards away from these islands to avoid disturbance to these animals.

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.

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.

NOTE
Naval Air Station small arms range operates 7 days a week. Red flashing light and flags are displayed during live fire exercises. Use caution when transiting near the zone.

CONTINUED ON CHART 18424



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.

SCALE 1:80,000
Nautical Miles
Yards

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

| FATHOMS | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEET | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 |
| METERS | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 |

SOUNDINGS IN FATHOMS
(FATHOMS AND FEET TO 11 FATHOMS)

Strait of Juan de Fuca to Strait of Georgia
SOUNDINGS IN FATHOMS - SCALE 1:80,000

18421

51st Ed., May 2013. Last Correction: 11/30/2016. Cleared through:
LNM: 4816 (11/29/2016), NM: 5016 (12/10/2016), CHS: 1116 (11/25/2016)

To ensure that this chart was printed at the proper scale, the line below should measure six inches (152 millimeters).
If the line does not measure six inches (152 millimeters), this copy is not certified safe for navigation.

This chart was distributed as a PDF (Portable Document Format). Printing PDFs may alter the chart scale, color, or legibility that may impact suitability for navigation. Printed charts provided by NOAA certified Print on Demand (POD) providers fulfill a vessel's requirement to carry a navigational chart "published by the National Ocean Service" in accordance with federal regulations, including but not limited to 33 C.F.R. 164.33(a), 33 C.F.R. 164.72(b), and 46 C.F.R. 28.225(a). POD charts meet stringent print standards and can be recognized by an official certification of authenticity printed on the chart. A list of POD providers can be found at: nauticalcharts.noaa.gov/pod