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

1st Ed., Mar. 1979 KAPP 1682

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 0.63" southward and 4.63" westward to agree with this chart.

SOUNDINGS IN FATHOMS
(FATHOMS AND FEET TO 11 FATHOMS)

18429

SCALE 1:25,000
Nautical Miles 0 1/2
Yards 1000 0 1000 2000
Meters 1000 0 1000 2000

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.

THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES - WEST COAST

WASHINGTON

ROSARIO STRAIT

SOUTHERN PART

Mercator Projection
Scale 1:25,000 at Lat. 48°26'

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FATHOMS
(FATHOMS AND FEET TO ELEVEN FATHOMS)
AT MEAN LOWER LOW WATER

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 Geological Survey, and U.S. Coast Guard.

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

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

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

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)

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

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).

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.

TIDAL INFORMATION

PLACE (NAME)	(LAT/LONG)	Height referred to datum of soundings (MLLW) Mean Higher High Water	Mean High Water	Mean Low Water
		feet	feet	feet
Thatcher Pass	(48°32'N/122°48'W)	7.8	7.2	2.3
Bowman Bay, Fidalgo I	(48°25'N/122°39'W)	7.7	7.1	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.
(Jan 2014)

NOTE E
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 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 US 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.

WIRE DRAGGED AREAS
The areas within the dashed green lines have been swept clear to at least the depths indicated in fathoms and feet by the green numbers.

COLREGS, 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.

NOAA WEATHER RADIO BROADCASTS
The NOAA Weather Radio station listed below provides 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.

Puget Sound, WA	WWG-24	162.425 MHz

PLANE COORDINATE GRID
(based on NAD 1927)
The Washington State Grid, North Zone, is indicated on this chart at 5000 foot intervals thus: 5
The last three digits are omitted.

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.

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.

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.

NOTE C
Mariners are cautioned that the Washington State 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 displayed on this chart.

NOTE D
The U.S. Coast Guard operates a mandatory Vessel Traffic Service (VTS) system in Puget Sound. Vessel operating procedures and designated radiotelephone frequencies are published in 33 CFR 161, the U.S. Coast Pilot, and/or the VTS User's Manual. The entire area of this chart falls within the Vessel Traffic Service (VTS) system.

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

PUGET SOUND
VESSEL TRAFFIC SERVICES AREA
(see note D)

REGULATED NAVIGATION AREA
165.1301 & 165.1303 (see note A)

EASTERN SAN JUAN ISLAND ARCHIPELAGO
VTS Special Area: Section 161.55(c)

PRECAUTIONARY AREA
(see note E)

SOUTHBOUND PUGET SOUND TRAFFIC LANE

NORTHBOUND PUGET SOUND TRAFFIC LANE

SEPARATION ZONE

VESSEL TRAFFIC SERVICES (see note A)

R-6713 OPERATING AREA (Navy-3) (see note B)

RESTRICTED AREA 334.1180 (see note A)

RESTRICTED AREA NO. 1 334.1200 (see note A)

RESTRICTED AREA NO. 2 334.1200 (see note A)

SMALL ARMS SAFETY ZONE (see note)

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

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.

LOCAL MAGNETIC DISTURBANCE
Differences from the normal variation have been observed as follows:
Eastern shore of Burrows Bay 4°

LOCAL MAGNETIC DISTURBANCE (see note)

FLOUNDER BAY
Numerous private markers and piling mark the entrance channel.

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	1990-1999	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

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.

This chart is canceled. No new editions will be issued.

11th Ed., May 2014. Last Correction: 4/4/2022. Cleared through:
LNM: 3822 (9/20/2022), NM: 4022 (10/1/2022), CHS: 0822 (9/26/2022)

To ensure that this chart was printed at the proper scale, the line below should measure six inches (152 millimeters).

SOUNDINGS IN FATHOMS
(FATHOMS AND FEET TO 11 FATHOMS)

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

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	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

Rosario Strait, Southern Part
SOUNDINGS IN FATHOMS - SCALE 1:25,000

18429

1146.1 X 800.7 mm