BookletChartTM

NOAR TOUR AND ATMOSPHERIC RUMINISTRATION SO DEPARTMENT OF COMMERCY

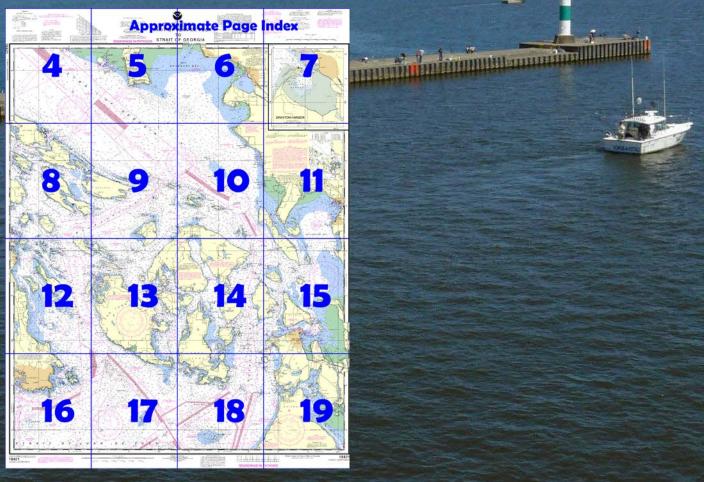
Strait of Juan de Fuca to Strait of Georgia

NOAA Chart 18421

A reduced-scale NOAA nautical chart for small boaters When possible, use the full-size NOAA chart for navigation.



- Complete, reduced-scale nautical chart
- Print at home for free
- Convenient size
- Up-to-date with Notices to Mariners
- Compiled by NOAA's Office of Coast Survey, the nation's chartmaker



Published by the National Oceanic and Atmospheric Administration National Ocean Service Office of Coast Survey

<u>www.NauticalCharts.NOAA.gov</u> 888-990-NOAA

What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart[™]?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

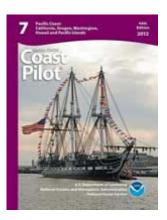
Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at http://www.NauticalCharts.NOAA.gov.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=184 http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=184 http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=184 http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=184 http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=184 http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=184 <a href="http://www.nauticalcharts.noaa.gov/nsd/searchbycharts.noaa.gov/nsd



(Selected Excerpts from Coast Pilot) Strait of Juan de Fuca, E end

Hein Bank, with a least depth of 2½ fathoms, lies 8.5 miles SE of Discovery Island; it is about 2 miles long in a N direction, within the 10-fathom curve, and 0.8 mile wide. The shoalest part of the bank is covered with thick kelp in the summer. It is marked by two lighted buoys, the northernmost is equipped with a racon.

Smith Island, 5 miles W of Whidbey Island and 8 miles ESE of Hein Bank, is irregular in shape and about 0.5 mile

long. A rocky bank, covered with kelp, extends about 2 miles W of the

island over depths of 3 to 6 fathoms. A rock that bares at lowest tides is about 0.3 mile W of Smith Island. **Smith Island Light** (48°19'06"N., 122°50'38"W.), 97 feet above the water is shown from a 45-foot skeleton tower near the W extremity of the island.

A **restricted area** of an air-to-surface weapon range is W of Smith Island. (See **334.1180**, chapter 2, for limits and regulations.)

Naval restricted areas are adjacent to the northernmost part of the W shore of Whidby Island.

In accordance with the Cooperative Vessel Traffic Service, the United States and Canada, in cooperation with industry and the British Columbia Coast Pilots have established a **Special Operating Area** at the intersection of Haro Strait and Boundary Pass in the vicinity of Turn Point Light (48°41'20"N., 123°14'15"W.). (See Coast Pilot for details.) All VTS participants will verbally communicate with Victoria Traffic on VHF-FM channel 11 when 3 miles from Turn Point. VTS participants are expected to make safe arrangements with other VTS participants within or near the **SOA**.

Regulated navigation area.-Due to heavy vessel concentrations, the waters of the Strait of Juan de Fuca, the San Juan Islands, the Strait of Georgia, and Puget Sound, and all adjacent waters, are a regulated navigation area. (See **165.1 through 165.13 and 165.1301**, chapter 2, for regulations.)

Caution.—Since logging is one of the main industries of the region, free-floating logs and submerged deadheads or sinkers are a constant source of danger in the Strait of Juan de Fuca and Puget Sound. The danger is increased during freshets, after storms, and unusually high tides. **Deadheads** or **sinkers** are logs which have become adrift from rafts or booms, have become waterlogged, and float in a vertical position with one end just awash, rising and falling with the tide. **Tidal currents.**—In Haro Strait and Boundary Pass, the flood current sets N; and the ebb current sets in the opposite direction. The ebb usually runs longer and has a greater velocity. At the N entrance to Boundary Pass, the flood sets E along the N and S sides of Sucia Islands and across Alden Bank; the velocity is about 1 to 2 knots. The current has moderate velocity between Sucia and Orcas Islands. There is a large, daily inequality in the current. (See Tidal Current Tables for predicted times and velocities.) Heavy, dangerous tide rips occur between East Point on Saturna Island and Patos Island, and for two miles N in the Strait of Georgia. Tide rips also occur on the ebb between Henry Island and Turn Point, as well as around Turn Point where the ebb may attain a velocity of 6 knots during large tides. The flood current sets E from Discovery Island across the S end of Haro Strait until close to San Juan Island. This E set is especially noticeable during the first half of the flood.

Currents.—In the S end of San Juan Channel, between Goose Island and Deadman Island, the average current velocity is 2.6 knots on the flood and ebb, however, maximum flood currents of 5 knots or more cause severe rips and eddies. Daily current predictions for this location may be obtained from the Tidal Current Tables.

Tides and Currents.—For times and velocities of current in Rosario Strait and vicinity, the Tidal Current Tables should be consulted. The currents in Lopez, Thatcher, and Obstruction Passes are reported to attain velocities of 3 to 7 knots. This should be kept in mind when proceeding through Rosario Strait, particularly at night or in thick weather. On the ebb of a large tide off the entrance to the passes, a S wind causes tide rips that are dangerous to small craft.

U.S. Coast Guard Rescue Coordination Center 24 hour Regional Contact for Emergencies

RCC Seattle Commander

13th CG District (206) 220-7001

Seattle, WA

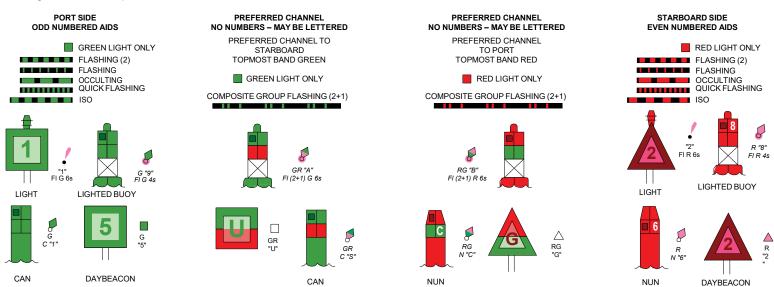
Navigation Manager Regions



To make suggestions, ask questions, or report a problem with a chart, go to https://www.nauticalcharts.noaa.gov/customer-service/assist/

Lateral System As Seen Entering From Seaward

on navigable waters except Western Rivers



For more information on aids to navigation, including those on Western Rivers, please consult the latest USCG Light List for your area. These volumes are available online at http://www.navcen.uscg.gov

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.

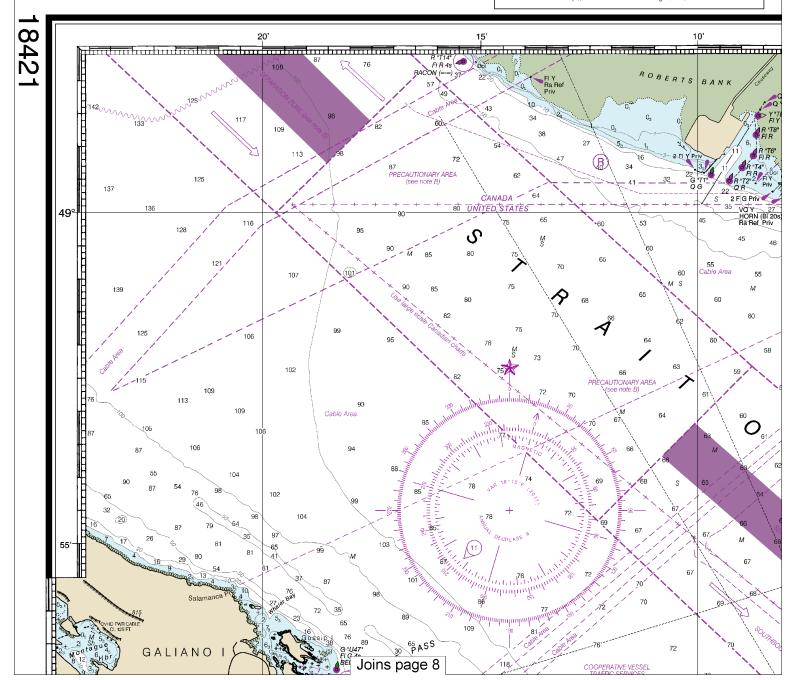
CAUTION

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

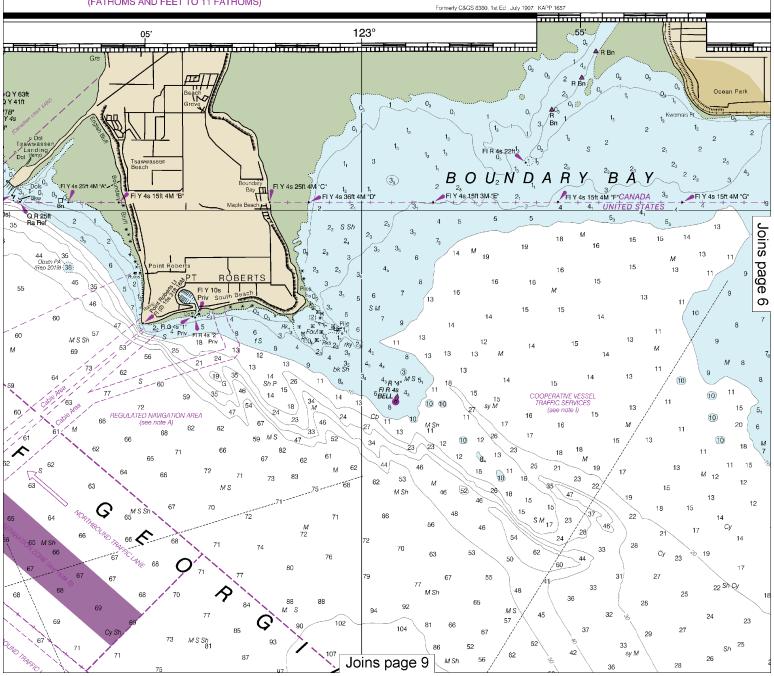


UNITED STATES - WEST COAST

WASHINGTON

STRAIT OF JUAN DE FUCA

GEORGIA STRAIT SOUNDINGS IN FATHOMS





UNITED STATES - WEST COAST

WASHINGTON

STRAIT OF JUAN DE FUCA SMOH

OF **GEORGIA** STRAIT

PUGET SOUND HARBOR SAFETY PLAN

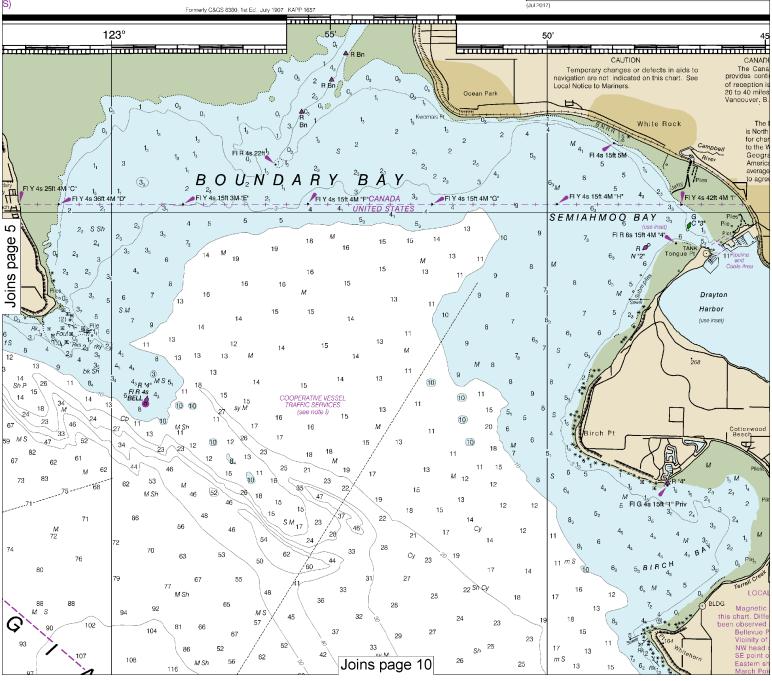
The US Coast Guard and the Puget Sound Harbor Safety Committee have dev and adopted a Harbor Safety Plan that formally established a set of Standards for Puget Sound and surrounding waters. These Standards of Care are inter supplement existing regulations by documenting good marine practices for a of operations including tug escorts, pilotage, anchoring, lightering, and pradditional information on required charts, Aids to Navigation and Emergency Ret If your vessel does not already have a copy of the Puget Sound Harbor Safety and the Care of the Puget Sound Harbor Safety and the Care of the Puget Sound Harbor Safety and the Sattle Sound Harbor Safety and Safety March of Care of the log on to http://pshsc.org/about/harbor_safety_plan or contact the Seattl Exchange at (206) 443-3830.

Additional information can be obtained at nauticalcharts.noaa.go

TIDAL INFORMATION

| PLACE | | Height referred to datum of so | |
|--|--|--------------------------------|----------------------------------|
| NAME | (LAT/LONG) | Moan Highor High Water | Mean High Water |
| Patos Island Wharf Bellingham Blaine Roche Harbor | (48°47'N/122°58'W) (48°45'N/122°30'W) (49°00'N/122°46'W) (48°37'N/123°09'W) | 8.5 9.5 | feet 7.9 7.8 8.7 7.0 |

Dashes (---) located in datum columns indicate unavailable datum values for a tide station. Rea tide predictions, and tidal current predictions are available on the Internet from http://tidesandcurr





ary. efer

DRY TORY



eveloped ds of Care ended to

r a variety provides Response. Lafety Plan, tle Marine

ov.

soundings (MLLW) Mean Low Water feet 2.6 2.4 2.5 -time water levels

CAUTION SUBMARINE PIPELINES AND CABLES

Charted submarine pipelines and submarine cables and submarine pipeline and cable areas

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 become exposed. Manners 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, draggling, or trawling.

Covered wells may be marked by lighted or validated by the control of the contro

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.

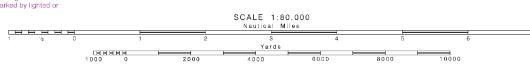
COPYRIGHT

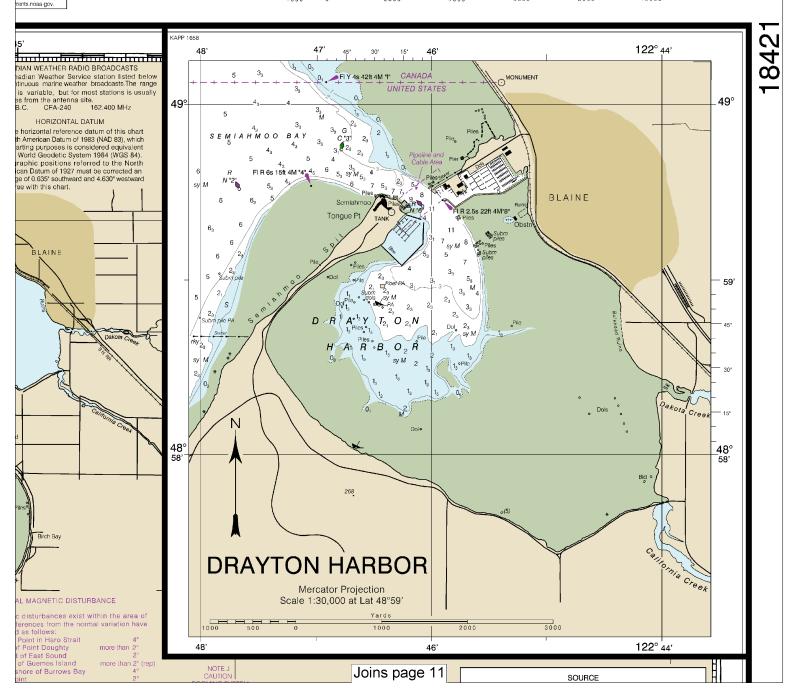
No copyright is claimed by the United States Government under Title 17 U.S.C. However, other nations may claim intellectual property rights on the compilation of data depicting the foreign waters shown on this chart.

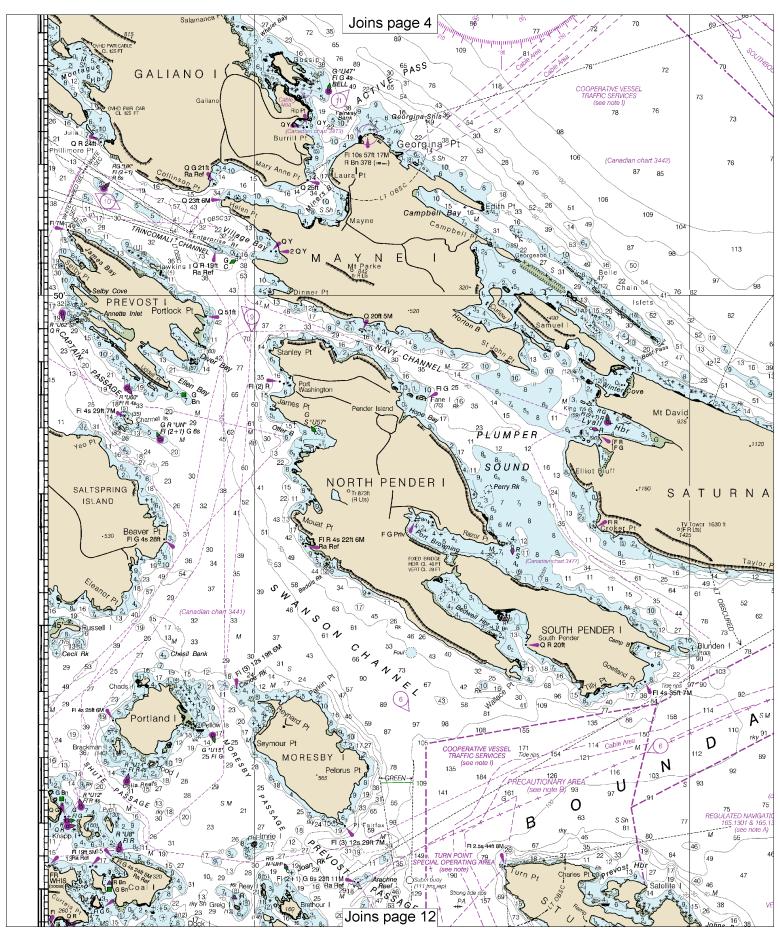
NOTE A

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.

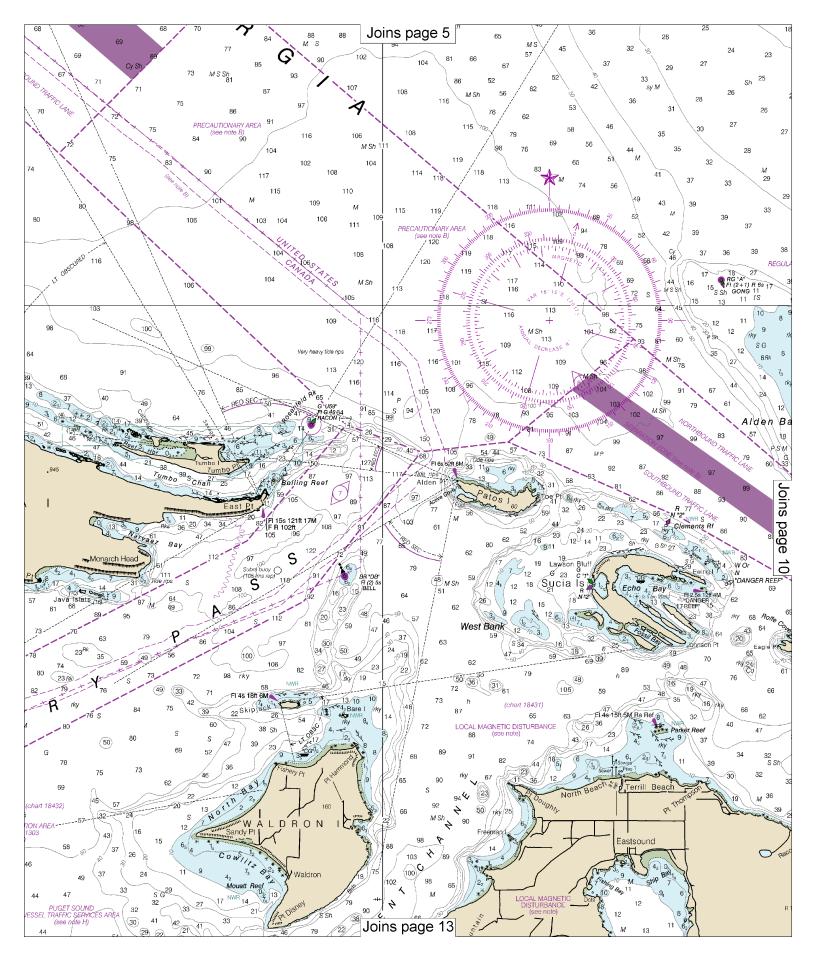


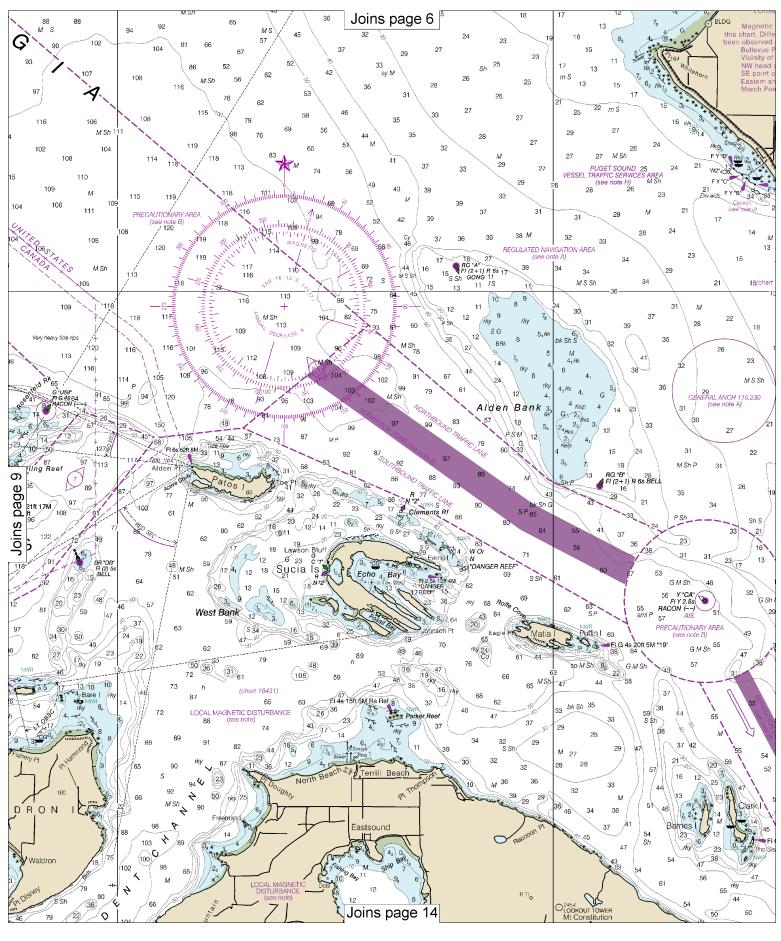




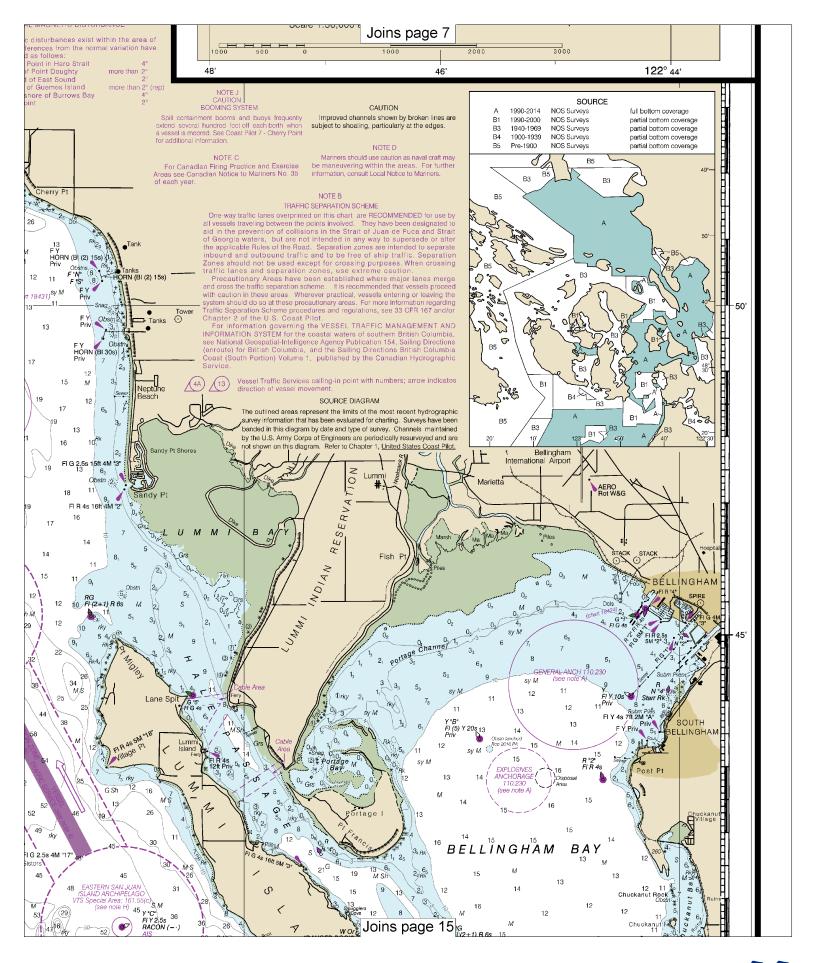


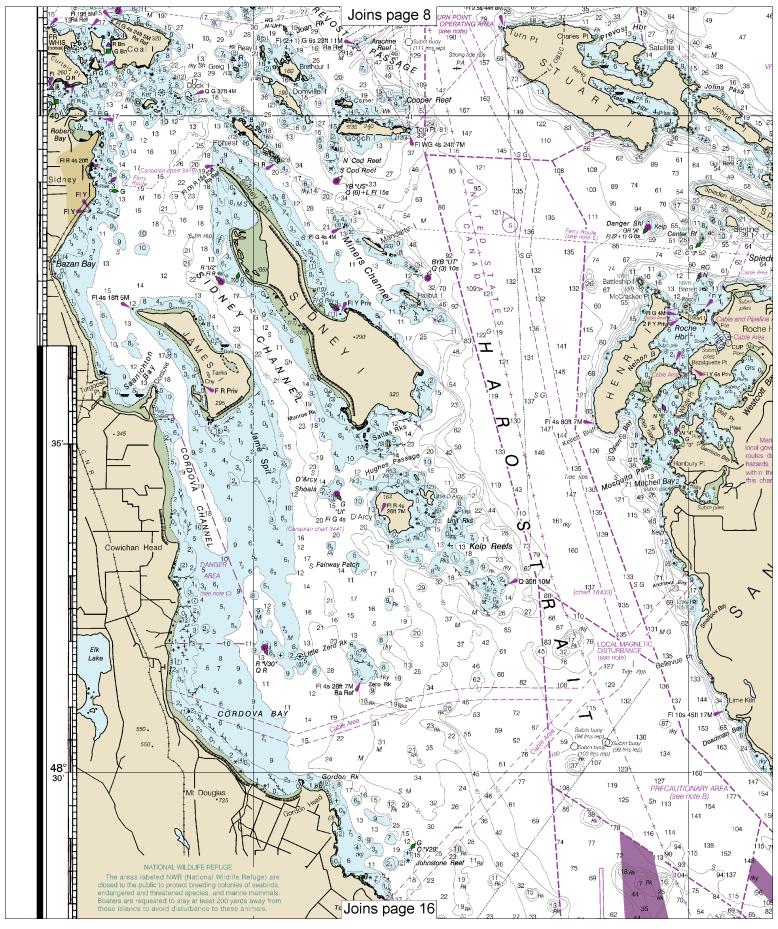


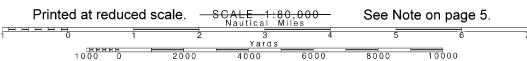


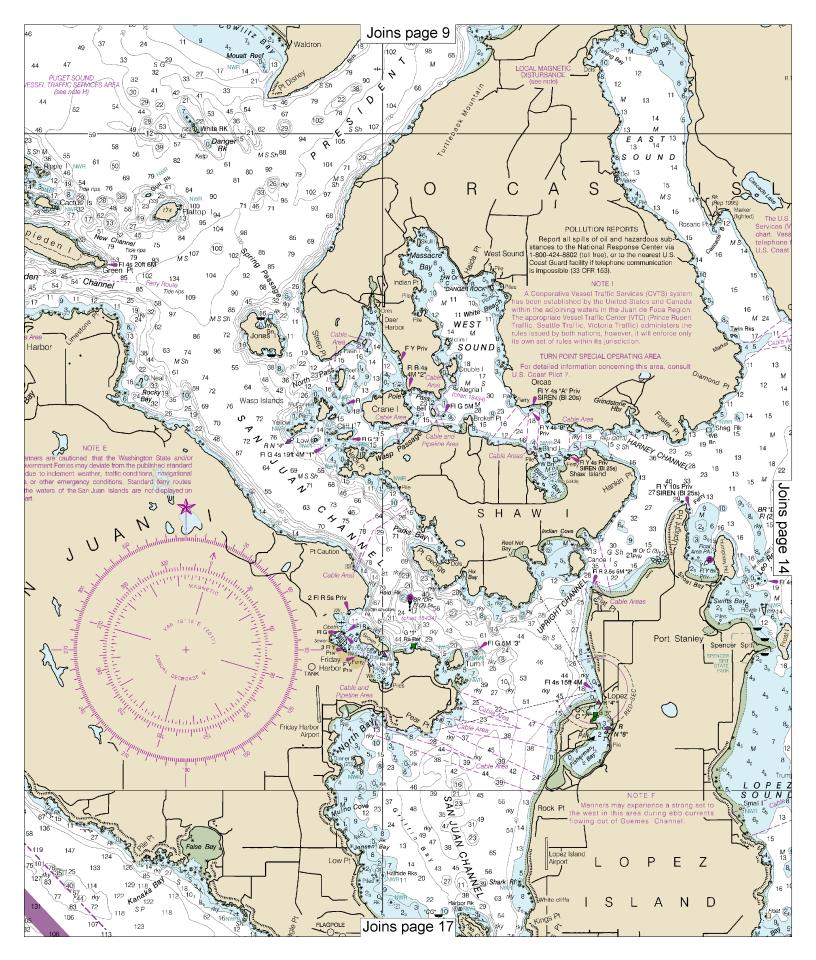


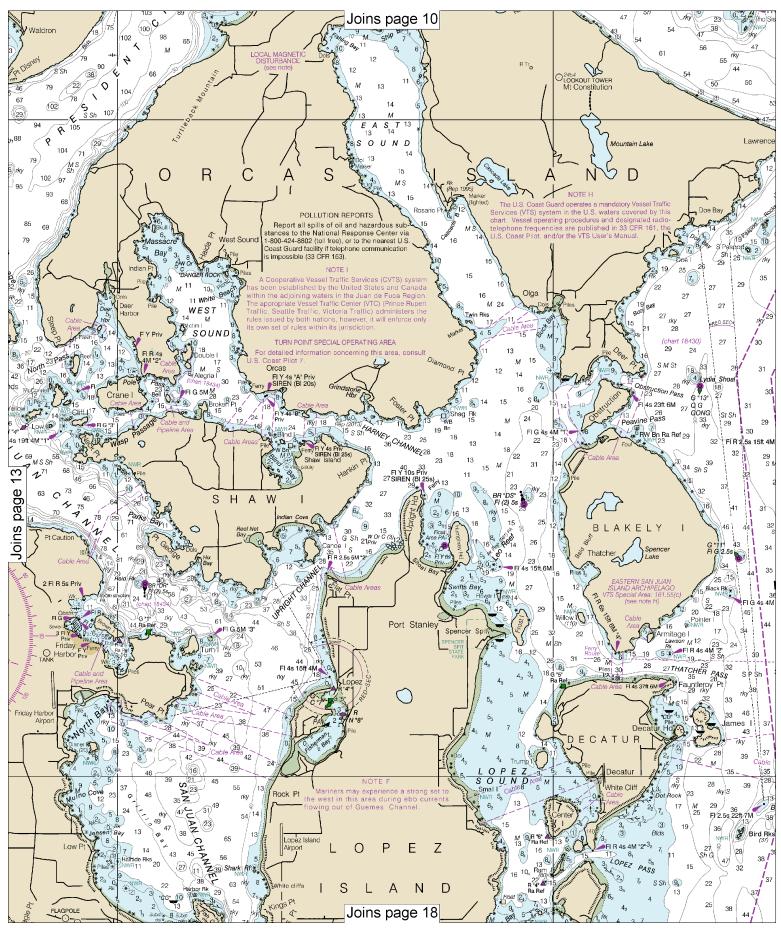




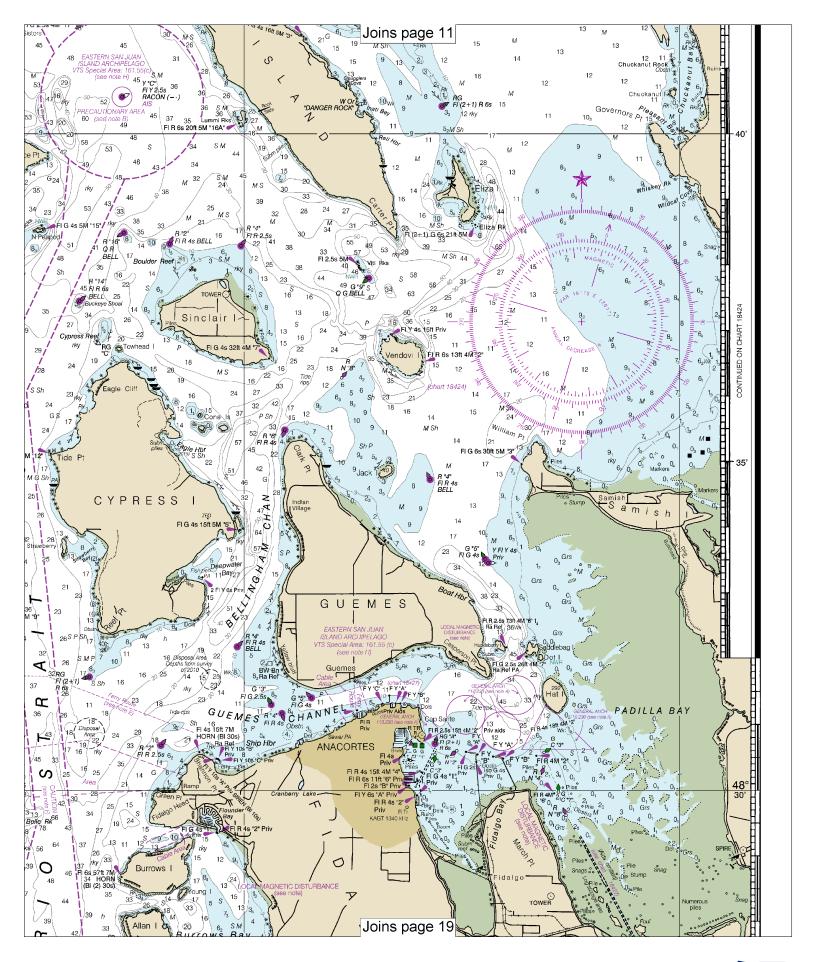


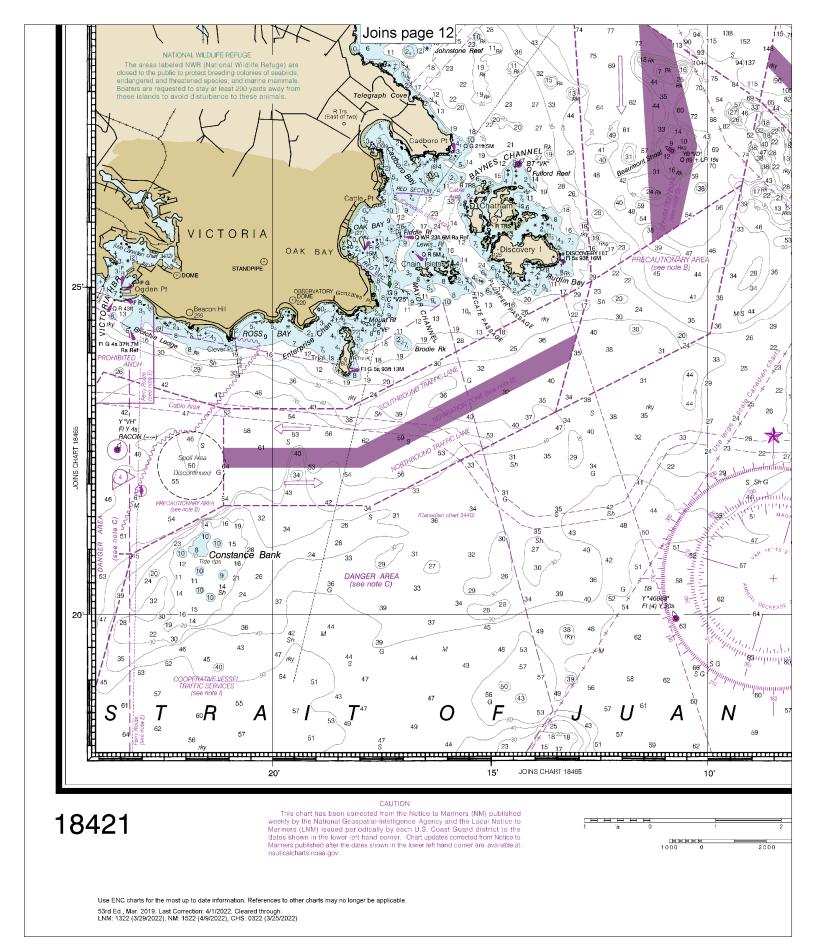




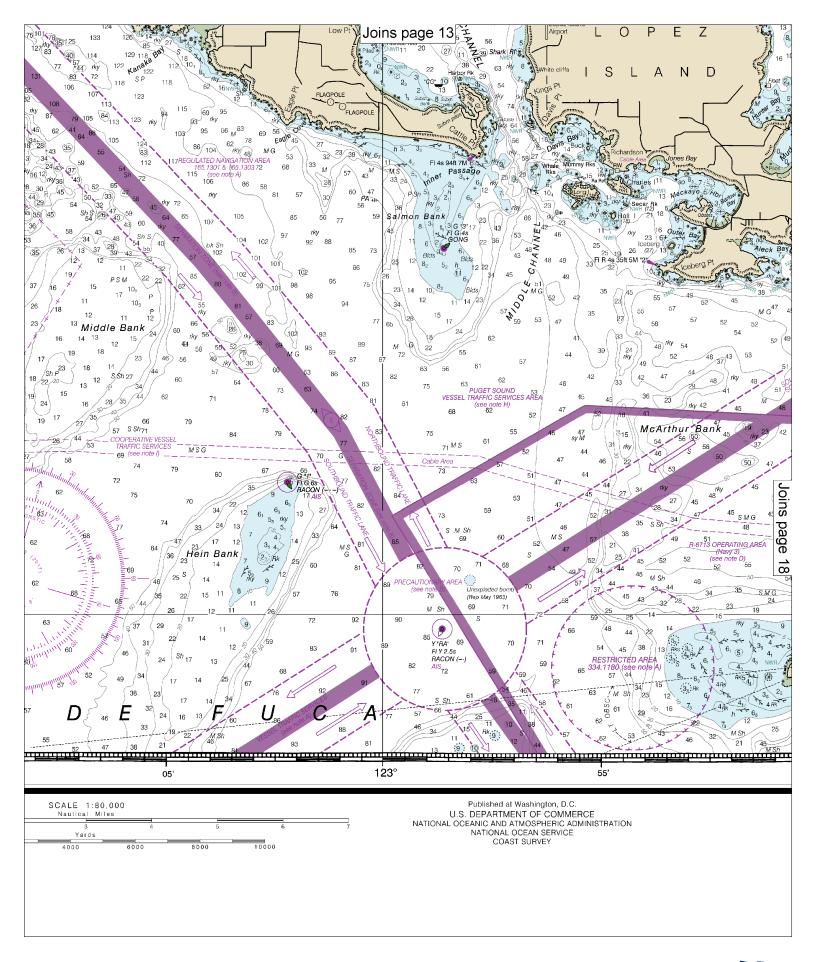


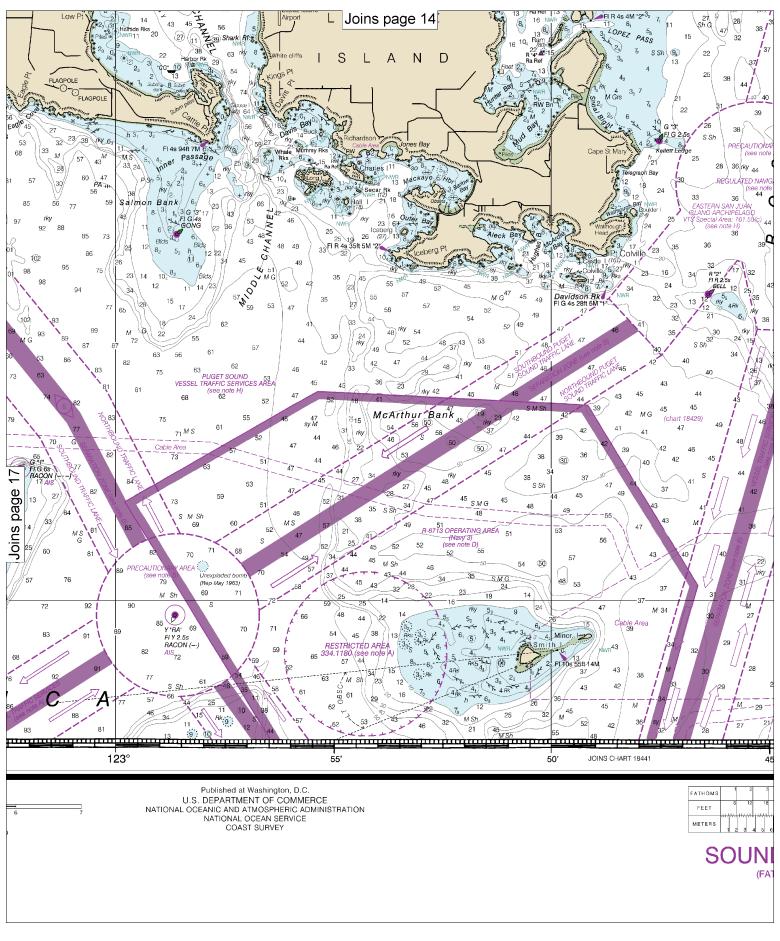






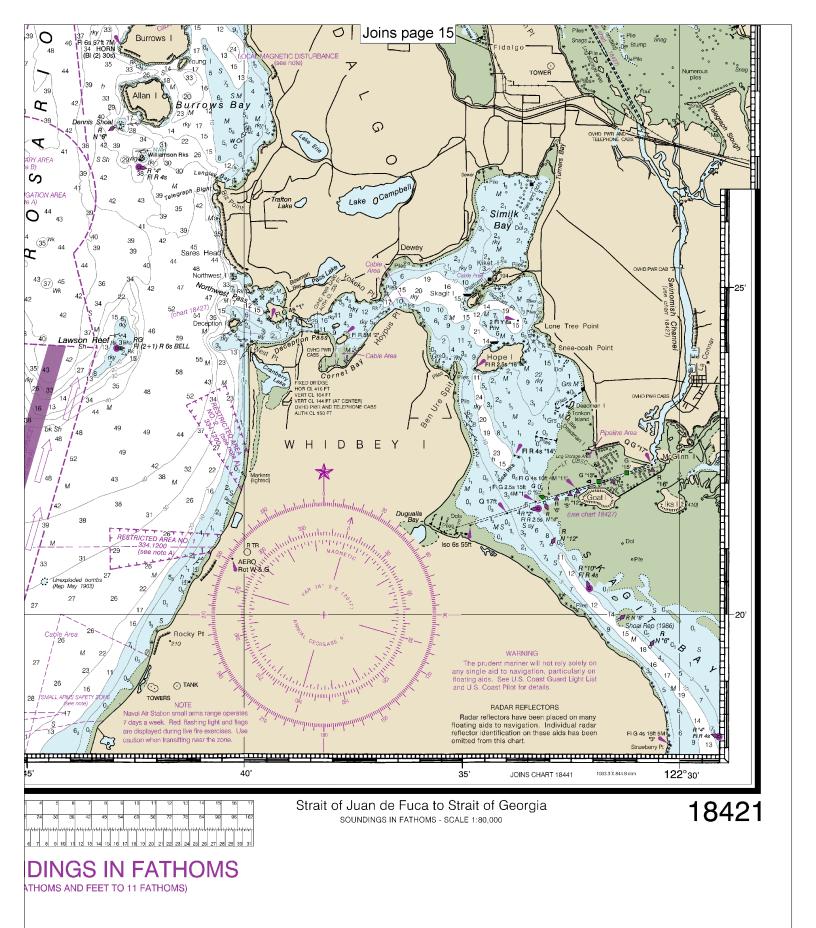






18 No lir







VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other

vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here. Channels 68, 69, 71, 72 and 78A – Recreational boat channels.

Getting and Giving Help — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

Distress Call Procedures

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of

Emergency; Number of People on Board.

- · Release transmit button.
- Wait for 10 seconds If no response Repeat MAYDAY call.

HAVE ALL PERSONS PUT ON LIFE JACKETS!



NOAA Weather Radio All Hazards (NWR) is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.

http://www.nws.noaa.gov/nwr/

Quick References

Nautical chart related products and information — http://www.nauticalcharts.noaa.gov

Interactive chart catalog — http://www.charts.noaa.gov/InteractiveCatalog/nrnc.shtml

Report a chart discrepancy — http://ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx

Chart and chart related inquiries and comments — http://ocsdata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs

Chart updates (LNM and NM corrections) — http://www.nauticalcharts.noaa.gov/mcd/updates/LNM_NM.html

Coast Pilot online — http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm

Tides and Currents — http://tidesandcurrents.noaa.gov

Marine Forecasts — http://www.nws.noaa.gov/om/marine/home.htm

National Data Buoy Center — http://www.ndbc.noaa.gov/

NowCoast web portal for coastal conditions — http://www.nowcoast.noaa.gov/

National Weather Service — http://www.weather.gov/

National Hurrican Center — http://www.nhc.noaa.gov/

Pacific Tsunami Warning Center — http://ptwc.weather.gov/

Contact Us — http://www.nauticalcharts.noaa.gov/staff/contact.htm



For the latest news from Coast Survey, follow @NOAAcharts



This Booklet chart has been designed for duplex printing (printed on front and back of one sheet). If a duplex option is not available on your printer, you may print each sheet and arrange them back-to-back to allow for the proper layout when viewing.