



U.S. Department  
of Homeland Security  
**United States  
Coast Guard**

## LOCAL NOTICE TO MARINERS

**District: 13**

**Week: 15/22**

ISSUED BY: COMMANDER, THIRTEENTH COAST GUARD DISTRICT (dpw)  
915 Second Avenue, 35th Floor, Rm 3510, Seattle, Washington 98174-1067  
Telephone: (206) 220-7280  
Email: D13-SMB-D13-LNM@uscg.mil  
<https://www.pacificarea.uscg.mil/Our-Organization/District-13/District-Staff/-dpw/>  
<https://www.navcen.uscg.gov/?pageName=lnmDistrict&region=13>

COMDTPUB P16502.6, Light List Volume VI, 2022 Edition, and Coast Pilot Volume 10, 2021 Edition.  
Light List Volume VI, 2022 Edition is available at [https://www.navcen.uscg.gov/pdf/lightLists/LightList\\_V6\\_2022.pdf](https://www.navcen.uscg.gov/pdf/lightLists/LightList_V6_2022.pdf)  
Coast Pilots, along with corrections, are available at: [www.nauticalcharts.noaa.gov/publications/coast-pilot/index.html](http://www.nauticalcharts.noaa.gov/publications/coast-pilot/index.html). Print on Demand (POD) copies are available for purchase at: [www.nauticalcharts.noaa.gov/publications/print-agents.html#coast-pilot](http://www.nauticalcharts.noaa.gov/publications/print-agents.html#coast-pilot).

### UNITED STATES COAST GUARD NAVIGATION INFORMATION SERVICE (NIS)

The United States Coast Guard Navigation Information Service (NIS), operated by the USCG Navigation Center, is staffed 24 hours a day, 7 days a week. The NIS provides information on the current operational status, effective policies, and general information for GPS and DGPS. The NIS also disseminates Safety Broadcasts / Broadcast Notice to Mariners (BNM), Local Notice to Mariners (LNM), and the latest Notice Advisory to Navstar Users (NANU). LNMs and other navigation notices can be obtained via e-mail subscription through the USCG Navigation Center website:

<https://www.navcen.uscg.gov/?pageName=feeds>

In addition, the NIS investigates all reports of degradation or loss of GPS service. Mariners are encouraged to report all degradation of radio navigation services to the NIS via any of the following: Phone: (703) 313-5900 or Email: [webmaster@navcen.uscg.mil](mailto:webmaster@navcen.uscg.mil), or on the World Wide Web: <https://www.navcen.uscg.gov/?pageName=gpsUserInput>

### BROADCAST NOTICE TO MARINERS

Urgent marine navigational and weather information is broadcast over VHF channel 22A (157.1 MHz). Broadcasts are first announced over the distress, safety and calling channel 16 before they are made. All ships in U.S. waters over 20 meters in length are required to monitor VHF channel 16, and must have radios capable of tuning to the VHF simplex channel 22A. Additionally, District 13 BNMs are now available online on a test basis. To view or download District 13 BNMs visit <https://www.navcen.uscg.gov/bnm/messages/DistrictSearchV1.php?d=13&i=3>

This section contains a range of all the significant Broadcast Notice to Mariners (BNM's) on the date of this edition.

Originating Unit  
CGD THIRTEEN

Beginning BNM  
D13-0255-22

Ending BNM  
D13-0265-22

## ABBREVIATIONS

### A through H

ADRIFT - Buoy Adrift  
AICW - Atlantic Intracoastal Waterway  
AI - Alternating  
B - Buoy  
BKW - Breakwater  
bl - Blast  
BNM - Broadcast Notice to Mariner  
bu - Blue  
C - Canadian  
CHAN - Channel  
CGD - Coast Guard District  
C/O - Cut Off  
CONT - Contour  
CRK - Creek  
CONST - Construction  
DAYMK/Daymk - Daymark  
DBN/Dbn - Daybeacon  
DBD/DAYBD - Dayboard  
DEFAC - Defaced  
DEST - Destroyed  
DISCON - Discontinued  
DMGD/DAMGD - Damaged  
ec - eclipse  
EST - Established Aid

### I through O

I - Interrupted  
ICW - Intracoastal Waterway  
IMCH - Improper Characteristic  
INL - Inlet  
INOP - Not Operating  
INT - Intensity  
ISL - Islet  
Iso - Isophase  
kHz - Kilohertz  
LAT - Latitude  
LB - Lighted Buoy  
LBB - Lighted Bell Buoy  
LHB - Lighted Horn Buoy  
LGB - Lighted Gong Buoy  
LONG - Longitude  
LNM - Local Notice to Mariners  
LT - Light  
LT CONT - Light Continuous  
LTR - Letter  
LWB - Lighted Whistle Buoy  
LWP - Left Watching Properly  
MHz - Megahertz  
MISS/MSNG - Missing  
Mo - Morse Code

### P through Z

PRIV - Private Aid  
Q - Quick  
R - Red  
RACON - Radar Transponder Beacon  
Ra ref - Radar reflector  
RBN - Radio Beacon  
REBUILT - Aid Rebuilt  
RECOVERED - Aid Recovered  
RED - Red Buoy  
REFL - Reflective  
RRL - Range Rear Light  
RELIGHTED - Aid Relit  
RELOC - Relocated  
RESET ON STATION - Aid Reset on Station  
RFL - Range Front Light  
RIV - River  
RRASS - Remote Radio Activated Sound Signal  
s - seconds  
SEC - Section  
SHL - Shoaling  
si - silent  
SIG - Signal  
SND - Sound  
SPM - Single Point Mooring Buoy

ev - every  
EVAL - Evaluation  
EXT - Extinguished  
F - Fixed  
fl - flash  
Fl - Flashing  
G - Green  
GIWW - Gulf Intracoastal Waterway  
HAZ - Hazard to Navigation  
HBR - Harbor  
HOR - Horizontal Clearance  
HT - Height

MRASS - Marine Radio Activated Sound Signal  
MSLD - Misleading  
N/C - Not Charted  
NGA - National Geospatial-Intelligence Agency  
NO/NUM - Number  
NOS - National Ocean Service  
NW - Notice Writer  
OBSCU - Obscured  
OBST - Obstruction  
OBSTR - Obstruction  
Oc - Occulting  
ODAS - Anchored Oceanographic Data Buoy

SS - Sound Signal  
STA - Station  
STRUCT - Structure  
St M - Statute Mile  
TEMP - Temporary Aid Change  
TMK - Topmark  
TRLB - Temporarily Replaced by Lighted Buoy  
TRLT - Temporarily Replaced by Light  
TRUB - Temporarily Replaced by Unlighted Buoy  
USACE - Army Corps of Engineers  
W - White  
Y - Yellow

**Additional Abbreviations Specific to this LNM Edition:**

AtoN - Aids to Navigation  
COTP - Captain of the Port  
CPA - Closest Point of Approach  
LLNR - Light List Number

NAVCEN - U.S. Coast Guard Navigation Center  
NM - Nautical Miles  
ODOT - Oregon Department of Transportation  
RM - River Mile Marker

S-AIS - Synthetic AIS  
V-AIS - Virtual AIS  
VTS - Vessel Traffic Service  
WSDOT - Washington State Department of Transportation

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**SECTION I - SPECIAL NOTICES**

This section contains information of special concern to the Mariner.

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**OREGON – WASHINGTON – IDAHO – Farewell to traditional nautical charts**

NOAA is in the process of "sunsetting" or ending the production of traditional paper charts. However, even prior to traditional chart production ending, users may notice differences between paper charts and ENCs. There are two broad categories of data that are applied onto NOAA ENCs and paper / raster nautical charts – "Critical Corrections" and "Routine" data. Critical Corrections may be newly discovered shoals or other dangers to navigation, as well as changes in the positions or characteristics of aids to navigation (buoys, beacons, and lights). These are typically changes that are published by the Coast Guard in the weekly LNM. Critical corrections are applied to ENCs first, then applied to paper and raster nautical charts. These changes generally appear on both product types (raster and ENC) within a week of each other. However, new Routine source data are now ONLY applied to NOAA ENCs and not to traditional paper and raster nautical charts. Routine data includes the results of ordinary hydrographic and shoreline surveys, which could be extensive. Any specific dangers revealed during routine surveys are extracted from the data and classified as Critical Corrections to be applied to all products. For more information visit NOAA's website: <https://nauticalcharts.noaa.gov/charts/farewell-to-traditional-nautical-charts.html>

LNM: 15/22

**OREGON – APPROACHES TO YAQUINA AND DEPOE BAY – Autonomous surface vessel operations**

Oregon State University and NOAA will deploy an autonomous underwater and surface vehicle, "Triton", to collect water samples off the Oregon Shelf from Yaquina Head out to 35 NM offshore on 18 – 22 Apr 22. Triton will operate in surface mode only, on an approximately east-west trackline between 44-39-07.2 N, 124-06-00 W, and 44-39-07.2 N, 124-52-58.8 W, beginning at 0800 on 18 Apr and continuing until 22 Apr dependent upon weather conditions. Triton typically operates at slow speeds of 2 – 5 knots, is approximately 14 feet in length, and may have a 10 foot sail deployed. Triton is equipped with an all-around white light. The R/V Elakha for will be on scene for deployment and retrieval, and can be hailed on VHF-FM channel 16. If the R/V is not present, mariners are advised that Triton has no communication capability or collision avoidance maneuvering ability. A representative photograph of Triton is included as Enclosure (4) of this LNM. For more information, contact Anna Bolm at (415) 378-3610 or email at [anna.bolm@noaa.gov](mailto:anna.bolm@noaa.gov).

Chart 18520

LNM: 15/22

**OREGON – WASHINGTON – COLUMBIA RIVER TO STRAIT OF JUAN DE FUCA – Pacific Northwest Offshore Sailboat Race**

The Corinthian Yacht Club is holding the annual Pacific NW Offshore Sailing Race starting from Columbia River Entrance Lighted Whistle Buoy 2 (LLNR 9910) at the mouth of the Columbia River to the Strait of Juan De Fuca, then eastward finishing in Port Angeles, WA. 22 Sailboats are expected for this 193 NM event that will start at 1000 on 12 May and may run until 15 May 2022. For more information, contact Craig Garrison at (503) 799-8178 or email at [cwgarr@gmail.com](mailto:cwgarr@gmail.com).

Charts: 18465 18480 18500

LNM: 15/22

**OREGON – PORT OF PORTLAND – WILLAMETTE RIVER – Bridge Notice**

The Coast Guard has approved two temporary deviations from the normal operating schedule that governs the Steel Railroad-Highway Bridge (LLNR 14955.3) across the Willamette River, RM 12.1. The Steel Bridge need not open the upper lift to marine traffic for the dates and times listed below. These deviations support Rose Festival Parade events. The lower lift span of the Steel Bridge operates in accordance with 33 CFR 117.5 (open on single). When the lower lift is in the closed-to-navigation position, the bridge provides 26 feet of vertical clearance above Columbia River Datum 0.0; and in the open-to-navigation position with the upper lift in the closed-to-navigation position, the vertical clearance is 71 feet above Columbia River Datum 0.0. The Steel Bridge will be able to open the lower deck, and the upper deck if required, for emergencies. This part of the Willamette River does not have an immediate alternate route for vessels to pass. Vessels able to pass through the Steel Bridge with the lower deck in the closed or open-to-navigation position, or the upper deck in the closed-to-navigation position may do so at any time. The normal operating schedule for the Steel Bridge upper lift is in accordance with 33 CFR § 117.897(c)(3)(ii).

Scheduled events / times of approved deviations:

- Rose Festival Starlight Parade from 1900 – 2330 on 04 Jun 2022;
- Rose Festival Grand Floral Parade from 0700 – 1300 on 11 Jun 2022.

For more information on the closures of the Steel Bridge contact Keith Wagner at [kcwagner@UP.COM](mailto:kcwagner@UP.COM).

Chart 18526

LNM: 15/22

**SNAKE RIVER – LAKE SACAJAWEA – Lower Monumental Lock upstream floating guidewall restrictions**

Until repairs to the floating guide wall keyway that connects the guide wall to the dam are completed, vessels transiting the Lower Monumental navigation lock at Snake River mile 41.6, must use caution when operating near the project's upstream floating guide wall. Specifically, vessels may not tie up to the floating guide wall. Additionally, vessels may not rub against the floating guide wall when approaching or leaving the lock, nor should they use the guidewall as a pivot point for entering the lock. Crew changes for commercial vessels may only take place within the lock chamber when the vessel is properly secured to floating mooring bits. These restrictions will remain in place until repairs can be completed to the floating guide wall keyway. These repairs are planned for completion by 1700 on 28 April 2022. River users may contact the Lower Monumental Shift Operator at (509) 282-7231, or VHF-FM Channel 14 using call sign WUJ43 Lower Monumental, for more information about lockage or the NWW Operations Division at (509) 527-7364 for information on the repairs.

Chart 18545

LNM: 15/22

**SNAKE RIVER – LAKE BRYAN – Little Goose Lock upstream hazard**

To avoid a hazard upstream of the Little Goose navigation lock at Snake River mile 70.3, vessels are cautioned to ensure two feet distance is maintained between the transiting vessel and the landside upstream guide wall. A hazard to loaded commercial barge traffic has been identified attached to the guide wall at an approximate depth of 11 feet at minimum forebay pool elevation, directly across from the upstream end of the floating guide wall. Project personnel have marked the location with an orange painted "X" on the landside lock approach wall and an orange "candlestick" hazard marker atop the wall at the location of the hazard. A strobe light will also be installed at the location for identification of the hazard area at night. Additionally, to facilitate safe navigation, the Little Goose forebay will be maintained at one foot above minimum operating pool until further notice. These restrictions will remain in place until the hazard can be removed and permanent repairs completed. That work is tentatively scheduled to be completed by March 2023. For additional information on this work contact the NWW Operations Division at (509) 527-7364.

Chart 18547

LNM: 15/22

**WASHINGTON – LAKE WASHINGTON SHIP CANAL – UNION BAY REACH - Montlake Bridge notice**

The Coast Guard has approved a temporary deviation from the operating schedule that governs the Montlake Street Bridge (LLNR 18240) across the Lake Washington Ship Canal, mile 5.2, at Seattle, WA. This deviation is necessary to accommodate two University of Washington graduation ceremonies. The draw of the Montlake Bridge need not open for marine vessels from 1030 to 1430 and from 1630 to 1830 on 11 Jun and 12 Jun 2022. The Montlake Bridge in the closed-to-navigation position provides 30 feet of vertical clearance throughout the navigation channel, and 46 feet of vertical clearance throughout the center 60 feet of the bridge; vertical clearance references to the Mean Water Level of Lake Washington. Vessels able to pass through the bridge in the closed-to-navigation position may do so at any time. The bridge will be able to open for emergencies, and there is no immediate alternate route for vessels to pass. The normal operating schedule for the Montlake Bridge operates in accordance with 33 CFR § 117.1051(e). For more information on these bridge closures contact Colleen Kelly at [kellyc@wsdot.wa.gov](mailto:kellyc@wsdot.wa.gov).

Chart 18447

LNM: 15/22

**WASHINGTON – STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA – HARO STRAIT – Uncrewed surface vessel operations**

An uncrewed surface vessel (USV) with MMSI 316044033 will be operating in Haro Strait from approximately 0900 to 1400 on 19 Apr 2022. The vessel is approximately 11 feet in length, red and white in color, and will normally operate at slow speeds of approximately 4 knots. Operations will include crossing from Canadian waters into US waters and conducting tests in the vicinity of Lime Kiln Lighthouse (LLNR 19695) on San Juan Island, prior to crossing back into Canadian waters. The vessel is equipped with cameras and will monitor vessel traffic while crossing the shipping lanes. A photograph of the Data Xplorer USV is included as Enclosure (5) of this LNM. For more information, contact Forest McKeating, Open Ocean Robotics, at (250) 551-1247 or email [forest@openoceanrobotics.com](mailto:forest@openoceanrobotics.com).

Chart 18433

LNM: 15/22

**WASHINGTON – STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA – SWINOMISH CHANNEL SOUTH ENTRANCE – Shoaling  
(Revised from LNM 14/22)**

Significant shoaling exists in Swinomish Channel, especially the South Entrance between South Entrance Buoy 5 (LLNR 18802) and South Entrance Daybeacon 12 (LLNR 18812). The project depth of Swinomish Channel is 12 feet, however, the controlling depth of Swinomish Channel is 4.1 feet based upon the latest available hydrographic data. This controlling depth of 4.1 feet is reflected on NOAA ENC products. Raster products do not reflect this sounding information, as they are no longer being updated with most routine corrections. Mariners should consult ENC cells for the most up-to-date information. Mariners should transit the Swinomish Channel waterway with caution, especially at low tidal conditions.

Chart 18427

LNM: 15/22

**WASHINGTON – GPS testing**

US Strategic Command has proposed GPS testing encompassing the majority of Washington. The center point of the test will be near Selah, WA, at position 46-41-13.7 N, 120-10-21.8 W with a radius of 141 NM. The GPS navigation signal may be unreliable due to testing on GPS frequencies used by shipboard navigation and handheld systems. Systems that rely on GPS, such as e-911, AIS and DSC, may be affected. The testing frequency will be GPS L1/L2.

The testing periods will be:  
1701 on 27 May 22 until 1659 on 01 Jun 22  
1701 on 16 Jun 22 until 1659 on 21 Jun 22

For additional information or to express concerns, contact the Coast Guard Navigation Center at (703) 313-5900 or at <https://www.navcen.uscg.gov/?pageName=dgpsSiteInfo&currentOutages>.

LMN: 15/22

**OREGON – IDAHO – GPS testing**

US Strategic Command has proposed GPS testing encompassing NE Oregon, SW Idaho, Northern Nevada and NW Utah. The center point of the test will be near Twin Lakes, ID, at position 43-33-27.2 N, 115-35-54.9 W with a radius of 247 NM. The GPS navigation signal may be unreliable due to testing on GPS frequencies used by shipboard navigation and handheld systems. Systems that rely on GPS, such as e-911, AIS and DSC, may be affected. The testing frequency will be GPS L1/L2. The testing period will be 1000 – 1600 daily (MST) from 19 – 24 May 2022. For additional information or to express concerns, contact the Coast Guard Navigation Center at (703) 313-5900 or at <https://www.navcen.uscg.gov/?pageName=dgpsSiteInfo&currentOutages>.

LMN: 15/22

**OREGON – UMPQUA RIVER – Bridge Notice**

ODOT has given the Coast Guard a repair completion date for the Reedsport Highway 101 Bridge (LLNR 9367) across the Umpqua River at RM 11.1. Beginning at 0001 (Midnight) 04 Apr 2022, the subject bridge will be fully operational. The Coast Guard will be canceling the emergency deviation at that time. When this deviation is canceled, the Reedsport Highway 101 Bridge shall operate in accordance with 33 CFR § 117.893(a): the draw shall open on signal if at least two hours' notice is given.

Chart 18584

LMN: 14/22

**OREGON – PORT OF PORTLAND – NORTH PORTLAND HARBOR – Bridge Public Notice**

The Commander, Thirteenth Coast Guard District has received a request for a Preliminary Navigation Clearance Determination (PNCD) from the Interstate Bridge Replacement Program (IBR), for the Oregon Slough Interstate 5 Highway Bridge (LLNR 11297) over North Portland Harbor, aka Oregon Slough, in Portland, OR.

A PNCD is a first step in the U.S. Coast Guard bridge permitting process. At the request of the Coast Guard the IBR team has prepared a navigation impact report (NIR) for the proposed new Oregon Slough Interstate 5 Highway Bridge. This Public Notice (PN) is soliciting for comments exclusively related to navigation. Maritime transportation system stakeholders (vessels and facilities) are highly encouraged to carefully review this notice and provide comments with regard to the proposed bridge's ability to meet the needs of navigation to include mariner requirements for horizontal navigation requirements. Based off an analysis of the NIR and Public Comments the Coast Guard will prepare a PNCD. Public Notice 03-22 is available at <https://www.navcen.uscg.gov/D13BN>. Comments will be received for the record at the office of: Commander (dpw), Thirteenth Coast Guard District, 915 2nd Ave, Rm 3510, Seattle, WA or via email at D13-SMB-D13-BRIDGES@uscg.mil. Comments should be sent to arrive on or before 06 May 2022.

Chart 18526

LMN: 14/22

**COLUMBIA RIVER – VANCOUVER TO BONNEVILLE – WASHOUGAL – Marine construction**

Northbank Civil and Marine will be conducting a marine construction project near the Port of Camas – Washougal from 16 Apr – 31 May 2022 near RM 115 in approximate position 45-34-38.19 N, 122-22-58.42 W. A derrick barge and other material barges will be on scene to construct a new dock, and work hours are anticipated to be Monday – Saturday, 0700 – 1700 daily. Mariners can contact the dredge by hailing "Northbank" on VHF-FM channels 67 or 69. Mariners are asked to reduce wake when passing near the barges. For more information on this project contact Kainan Bedenlos at (503) 209-2424 or email [kainanb@northbankcm.com](mailto:kainanb@northbankcm.com)

Chart 18531

LMN: 14/22

**COLUMBIA RIVER – PASCO TO RICHLAND – LAKE WALLULA – Research buoy deployment**

USACE will deploy a temporary research data collection buoy in the Columbia River at RM 329.2 in approximate position 46-13-24 N 119-06-59 W. This location is between the Pasco-Kennewick Highway Bridge (LLNR 13052.5) and the US-395 Blue Highway Bridge (LLNR 13057), close to the northern (Pasco) shore. The buoy is yellow, round in shape, approximately 6 ft tall and 4 ft wide, with a yellow light flashing every four seconds (Fl 4s). The buoy will be in place until 30 Sep 2022. For more information, contact Wayne Jousma at (509) 527-7447 or email [wayne.r.jousma@usace.army.mil](mailto:wayne.r.jousma@usace.army.mil)

Chart 18543

LMN: 14/22

**OREGON – WILLAMETTE RIVER – EUGENE – Bridge Notice**

The City of Eugene, OR, has contracted DOWL for bridge rehabilitation on the Coburg Road Ferry Street Bridge. Rehabilitation plans include bridge deck overlays, cleaning and surface preparation for spot painting, cleaning and protection of bearings, replacement of expansion joints, epoxy injection of concrete cracks. The repair period will be 04 Apr – 31 Oct 2022, Monday through Friday up to 24 hours per day. Containment will be installed and the vertical clearance will be reduced from 27 feet to 22 feet at ordinary high water. The subject bridge crosses the Willamette River at RM 182.2 in location 44-03-28.4 N, 123-05-02.4 W. Mariners transiting under the Coburg Road Ferry Street Bridge should be aware of potential fall hazards. For more information on this project contact Mike Hawkins at (541) 954-9483 or [mhawkins@dowl.com](mailto:mhawkins@dowl.com).

LMN: 14/22

**WASHINGTON – LAKE WASHINGTON SHIP CANAL – UNION BAY REACH - Bridge deviation**

The Coast Guard has approved a temporary bridge deviation from the operating schedule of the Montlake Street Bridge (LLNR 18240). This deviation will facilitate roadway deck repair on the Montlake Bridge across the Lake Washington Ship Canal at mile 5.2 in Seattle, WA. The subject bridge is authorized to operate in single leaf mode/half opening (as opposed to double leaf mode). Vessels needing a bridge opening will be

provided a single leaf opening from 2300 on 22 Apr until 0500 on 25 Apr 22. The repairs are dependent on weather conditions, and if the roadway repairs cannot be completed from 22-25 Apr, the backup dates are listed below. The subject bridge with both bascule leaves open provides a horizontal navigation clearance of 129 feet and an unlimited vertical clearance. During single leaf openings, the horizontal navigation clearance will be reduced to 64.5 feet. The Montlake Bridge in the closed-to-navigation position provides 30 feet of vertical clearance throughout the navigation channel, and 46 feet of vertical clearance throughout the center 60 feet of the bridge. During a single leaf opening, the closed half of the span will provide 30 feet of vertical clearance on the sides and 46 feet of vertical clearance in the center 30 feet of the span. These bridge clearances are referenced to the Mean Water Level of Lake Washington. Vessels able to pass through the Montlake Bridge in the closed-to-navigation position may do so at any time, but do not loiter due to fall hazards. The bridge will not be able to provide a full opening for emergencies, and there is no alternate route for vessels to pass. Vessels requiring a double leaf/full opening to navigate through the subject bridge must contact the bridge operator at least 24 hours in advance at (206-720-3048) or via VHF Radio Channel 13. The Montlake Bridge shall operate in accordance with 33 CFR 117.1051(e) at all other times. For more information regarding this event contact Ryan Boyle at BoyleRy@wsdot.wa.gov.

All three time periods are listed below:

Date	Day	Hour	Position	Notes
22 – 25 Apr 22	Fri – Mon	2300 – 0500	Single Leaf	Double Leaf opening with at least 24 HR advance notice
20 – 23 May 22	Fri – Mon	2300 – 0500	Single Leaf	Double Leaf opening with at least 24 HR advance notice (back-up)
03 – 06 Jun 22	Fri – Mon	2300 – 0500	Single Leaf	Double Leaf opening with at least 24 HR advance notice (back-up)

Chart 18447

LNM: 14/22

**WASHINGTON – STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA – SWINOMISH CHANNEL NORTH ENTRANCE – Bridge Notice (Revised from LNM 11/22)**

The Coast Guard has approved a temporary deviation to the operating schedule that governs the BNSF Railroad Bridge 7.6 (LLNR 19155.1) across the Swinomish Channel, mile 8.4, near Anacortes, WA. BNSF is authorized to not open the draw of the subject bridge from 0900 to 1500 on 12 Apr 22 and 26 Apr 22. This deviation accommodates mechanical repairs to the swing span. During the closure times, mariners may use the alternate route is via the southern Swinomish Channel using Skagit Bay. The span will not open for emergencies or tribal fishing vessels during the two repair period. This deviation has been coordinated with the Swinomish Tribal fisheries. Bridge 7.6 normally operates in accordance with 33 CFR 117.5, and is normally maintained in the open-to-navigation position. The bridge shall operate in accordance to 33 CFR 117.5 at all other times. Vessels able to pass through the subject bridge in the closed-to-navigation position may do so at any time. Bridge 7.6 provides 8 feet of vertical clearance and 100 feet of horizontal clearance in the closed-to-navigation position. Vertical and horizontal clearances are referenced to mean high-water elevation. In accordance with 33 CFR 117.35(e), the drawbridge must return to its regular operating schedule immediately at the end of the effective period of the requested temporary deviation. For more information contact Travis Woodley at (682) 978-3311 or travis.woodley@bnsf.com.

Chart 18427

LNM: 14/22

**COLUMBIA RIVER – PACIFIC OCEAN TO HARRINGTON POINT - Mouth of the Columbia River Jetty System Major Rehabilitation Project**

Scheduled repairs of the South Jetty have commenced and are planned to continue through 2024. The 2022 seasonal operations will commence on 04 Apr 2022. The derrick barge Heidi Renee will be dredging the area for the MOLF installation on 04 Apr 2022. The derrick barge will be working with the tug James T. Operations are daylight hours, and expected to last one day. The dredged material will be an upland placement near the MOLF location. Dredge Heidi Renee and tug James T will monitor VHF channels 14, 16, and work on channel 72. A material off load facility has been constructed at the east end of the park; along the Columbia River, near Trestle Bay. The offload mooring barge will be in place the first week of April 2022. The offload facility has an aerial clearance of approximately 60 ft above the water line. When there is a barge being unloaded a crane will be utilized, the aerial clearance is about 140 ft. The ends of the spuds are painted white for visibility. For questions or additional information please call or email Sherri Brenner at (503) 550-6743 or email Sheri@jemcamis.com, or the project superintendent, Aaron Anderson at (503) 791-2161 or email AAnderson@jemcamis.com.

The jetties at the Columbia River Entrance have suffered severe deterioration and may no longer be correctly represented upon the nautical charts of the area. Mariners should use caution when transiting in the vicinity of the jetties and the river entrance. Repairs of the North jetty were completed in 2019. More information may be found at the USACE Portland District web site: <http://www.nwp.usace.army.mil/jetties/>

Chart 18521

LNM: 13/22

**OREGON – PORT OF PORTLAND – WILLAMETTE RIVER – Bridge Notice**

The Coast Guard intends to approve two temporary deviations from the normal operating schedule that governs the Steel Railroad-Highway Bridge (LLNR 14955.3) across the Willamette River, RM 12.1. The Steel Bridge need not open the upper lift to marine traffic for the dates and times listed below. These deviations support Rose Festival Parade events. The lower lift span of the Steel Bridge operates in accordance with 33 CFR 117.5 (open on single). When the lower lift is in the closed-to-navigation position, the bridge provides 26 feet of vertical clearance above Columbia River Datum 0.0; and in the open-to-navigation position with the upper lift in the closed-to-navigation position, the vertical clearance is 71 feet above Columbia River Datum 0.0. The Steel Bridge will be able to open the lower deck, and the upper deck if required, for emergencies. This part of the Willamette River does not have an immediate alternate route for vessels to pass. Vessels able to pass through the Steel Bridge with the lower deck in the closed or open-to-navigation position, or the upper deck in the closed-to-navigation position may do so at any time. The normal operating schedule for the Steel Bridge upper lift is in accordance with 33 CFR § 117.897(c)(3)(ii).

Proposed events:

- Rose Festival Starlight Parade from 1900 – 2330 on 04 Jun 2022;
- Rose Festival Grand Floral Parade from 0700 – 1300 on 11 Jun 2022.

If either of these events cannot be supported, please submit objections to d13-smb-d13-bridges@uscg.mil by 13 Apr 2022.

**WASHINGTON – APPROACHES TO ADMIRALTY INLET – Sequim Bay autonomous surface vessel deployment**

The Pacific Northwest National Laboratory (PNNL) will be operating an autonomous surface vessel in Sequim Bay, Washington in Vicinity of 48-04-29 N, 123-01-26 W, for 16 weeks from 11 Apr – 30 Jun 2022. The 10-foot long catamaran operates on the surface but may be towing submerged sensors. Mariners are asked to keep a distance of 100 feet away from the vessel. The vessel will be clearly marked with the word "Research" and the Department of Energy logo on both sides, and will display navigation lights for a powered vessel of its size. The vessel will carry AIS and broadcast its position under the name Jonesy with an MMSI number of 369914068. The research vessels Desdemona or Strait Science may be on scene during some operations and may be hailed on VHF-FM channel 16. For additional information, contact PNNL Marine Sciences Laboratory, Rob Cavagnaro, at (260) 528-3372 or email [asvjonesy@pnnl.gov](mailto:asvjonesy@pnnl.gov).

**WASHINGTON – LAKE WASHINGTON SHIP CANAL – UNION BAY REACH - Bridge deviation**

The Coast Guard has issued a temporary deviation to the operating schedule that governs the University Street Bridge (LLNR 18235), mile 4.3, and the Montlake Street Bridge (LLNR 18240), mile 5.2, both crossing the Lake Washington Ship Canal at Seattle, Washington. This deviation supports the Beat-the-Bridge running event. The draws of both the University Street Bridge and the Montlake Street Bridge need not open to mariners from 0800 – 0930 on 14 May 2022. The University Bridge in the closed-to-navigation position provides 30 feet of vertical clearance at the sides, and 45 feet of vertical clearance at the center. The Montlake Bridge in the closed-to-navigation position provides 30 feet of vertical clearance at the sides and 46 feet of vertical clearance throughout the center 60 feet of the bridge. Vertical clearance references are to the Mean Water Level of Lake Washington. Vessels able to pass through the bridges in the closed-to-navigation position may do so at any time. The bridges will be able to open for emergencies, and there is no alternate route for vessels to pass. In accordance with 33 CFR 117.35(e), the subject bridges must return to their regular operating schedule immediately at the end of the designated time-period. For more information on these events, contact Colleen Kelly for the Montlake Bridge at (425) 739-3700 or Kit Loo for the University Bridge at (206) 684-3669.

**WASHINGTON – LAKE WASHINGTON SHIP CANAL – UNION BAY REACH - Montlake Bridge notice**

The Coast Guard intends to issue a temporary deviation from the operating schedule that governs the Montlake Street Bridge (LLNR 18240) across the Lake Washington Ship Canal, mile 5.2, at Seattle, WA. This deviation is necessary to accommodate two University of Washington graduation ceremonies. The draw of the Montlake Bridge need not open for marine vessels from 1030 – 1430 and from 1630 – 1830 on 11 and 12 Jun 2022. The Montlake Bridge in the closed-to-navigation position provides 30 feet of vertical clearance throughout the navigation channel, and 46 feet of vertical clearance throughout the center 60 feet of the bridge; vertical clearance references to the Mean Water Level of Lake Washington. Vessels able to pass through the bridge in the closed-to-navigation position may do so at any time. The bridge will be able to open for emergencies, and there is no immediate alternate route for vessels to pass. The normal operating schedule for the Montlake Bridge operates in accordance with 33 CFR § 117.1051(e). Please provide objections, if these event deviations cannot be supported, at [d13-smb-d13-bridges@uscg.mil](mailto:d13-smb-d13-bridges@uscg.mil) by 13 Apr 2022.

**IDAHO – LAKE PEND ORIELLE - Bridge Public Notice**

All interested parties are notified that the Commander, Thirteenth Coast Guard District, has received an application from the Burlington Santa Fe Railway Company (BNSF) for a bridge permit for approval of the location and plans for the modification of a bridge over a navigable waterway of the United States, the BNSF Bridge 3.9E (LLNR 20087) over Lake Pend Oreille at mile 2.7, near Sandpoint, Idaho.

The Coast Guard is soliciting input on this permit application. Mariners and interested stakeholders may express their views, in writing, on the proposed modification to the existing bridge and its possible impact on navigation and the environment, if any, giving sufficient detail to establish a clear understanding of their reasons for support of, or opposition to, the proposed work. Public Notice 01-22 has been published on the USCG Navigation Center website at: <https://www.navcen.uscg.gov/?pageName=pnBridges&Active=1&region=13>  
Comments will be received for the record at the office of: Commander (dpw), Thirteenth Coast Guard District, 915 2nd Ave, Rm 3510, Seattle, WA or via email at [d13-smb-d13-bridges@uscg.mil](mailto:d13-smb-d13-bridges@uscg.mil). Comments should be sent to arrive on or before 30 Apr 2022.

**OREGON – APPROACHES TO YAQUINA AND DEPOE BAY – Bridge construction notice (Revised from LNM 06/21)**

ODOT is conducting cathodic protection upgrades and bridge concrete repairs to the Yaquina Bay Highway 101 Bridge (LLNR 9627) in Newport, OR, at Yaquina Bay mile 0.7. A low-level access walkway system has been constructed across the 4 concrete arch spans from the south bank heading north. While erected, the vertical navigation clearance will be reduced to a minimum of 16 feet at MHHW. The low level walkway system spans from the south bank to the North approx. 880 feet. This system will be functional until approximately the summer of 2024. The main navigational channel will not be impeded by the project as that section is made of steel. Mariners are requested not to loiter under the construction area due to fall hazards. For more information, contact Dan Lutze, the project superintendent, at (503) 519-5408.

The project is taking actions to prevent conflicts with birds. ODOT has contracted with the US Department of Agriculture's Animal and Plant Health Inspection Service (APHIS) to perform bird-hazing activities with an aim to prevent nesting in certain sections of the bridge until scaffolding and containment can be installed. Hazing activities may include noise cannons, laser lights, and pyrotechnics. The activities may happen at any time of day, however, the noise cannons will primarily be used for the few hours surrounding sunset each evening. These efforts will have no effect on marine navigation. Hazing activities are expected to begin at the end of March and continue well into June. For more information on the APHIS activities, contact Steven Schultz at (541) 757-4158 or [Steven.Schultz@ODOT.Oregon.gov](mailto:Steven.Schultz@ODOT.Oregon.gov).

**COLUMBIA RIVER – VANCOUVER TO BONNEVILLE – Bridge Public Notice**

The Commander, Thirteenth Coast Guard District, has received a request for a Preliminary Navigation Clearance Determination (PNCD) from the Interstate Bridge Replacement Program (IBR), the project to replace the Interstate 5 Highway Bridge (LLNR 11258) which crosses the Columbia River at mile 106.5 between Portland and Vancouver.

A PNCD is the first step in the US Coast Guard bridge permitting process. At the request of the Coast Guard, the IBR team has prepared a navigation impact report (NIR) for the proposed new IBR bridge. Based off an analysis of the NIR and Public Comments the Coast Guard will prepare a PNCD. Public Notice 02-22 has been published and is soliciting for comments exclusively related to navigation. Maritime transportation system stakeholders (vessels and facilities) are highly encouraged to carefully review this notice and provide comments with regard to the proposed bridge's ability to meet the needs of navigation to include mariner requirements for horizontal navigation clearances and vertical navigation clearances to include air draft and air gap requirements. The Coast Guard is particularly interested in receiving comments from maritime stakeholders with current and or future vertical navigation clearance requirements of greater than 116 feet (air draft and air gap). Public Notice 02-22 is available at <https://www.navcen.uscg.gov/D13BN>. Comments will be received for the record at the office of: Commander (dpw), Thirteenth Coast Guard District, 915 2nd Ave, Rm 3510, Seattle, WA or via email at [D13-SMB-D13-BRIDGES@uscg.mil](mailto:D13-SMB-D13-BRIDGES@uscg.mil). Comments should be sent to arrive on or before 25 Apr 2022.

Chart 18531

LNM: 12/22

**SNAKE RIVER – LAKE SACAJAWEA – Bridge Inspection**

WSDOT will be inspecting the SR-12 Highway Bridges (east bound) (LLNR 13113) and (west bound) (LLNR 13113.5) that cross the Snake River at RM 2.2 near Pasco, WA, between the hours of 0700 – 1300 daily on 18 – 22 Apr 2022. The bridge will be inspected deploying two under-bridge inspection trucks (UBITs) from the top of the bridge deck. UBITs have a flashing amber strobe light mounted to the bottom of each bucket. Mariners are advised to use caution while transiting the area below the UBITs. For more information, contact Sean Tanner at (360) 601-2346 or [tanners@wsdot.wa.gov](mailto:tanners@wsdot.wa.gov)

Chart 18545

LNM: 12/22

**IDAHO – GPS testing**

US Strategic Command has proposed GPS testing encompassing a portion of Idaho. The center point of the test will be near Idaho Falls Idaho, at position 43-34-30 N, 112-58-30 W with a radius of 161 NM. The GPS navigation signal may be unreliable due to testing on GPS frequencies used by shipboard navigation and handheld systems. Systems that rely on GPS, such as e-911, AIS and DSC, may be affected. The testing frequency will be GPS L1/L2. The testing period will be 0400 – 0900 daily (MST) from 22 – 28 Apr 2022. For additional information or to express concerns, contact the Coast Guard Navigation Center at (703) 313-5900 or at <https://www.navcen.uscg.gov/?pageName=dgpsSiteInfo&currentOutages>.

LNM: 12/22

**WASHINGTON – STRAIT OF GEORGIA AND STRAIT OF JUAN DE FUCA – PUGET SOUND – Bottom Trawl survey**

From 25 Apr through 20 May 2022, the Washington Department of Fish and Wildlife (WDFW) Marine Fish Science (MFS) Unit will conduct their annual bottom trawl survey to assess marine fish living in the waters of Puget Sound, including the Strait of Juan de Fuca, Strait of Georgia, San Juan Archipelago, Hood Canal, Central Sound, and South Sound regions. The vessel chartered by WDFW for the survey is the F/V Chasina, a 58-foot seiner/trawler (call sign WYQ-6987), with red hull and red and white superstructure, which will carry WDFW RESEARCH placards posted on both sides of the upper deck. For more information on WDFW's MFS unit and the bottomfish programs, visit <https://wdfw.wa.gov/species-habitats/species/bottomfish>. For more information on the bottom trawl survey contact Jennifer Blaine at (425) 379-2313 (office) or (425) 231-9476 (cell) or email at [Jennifer.Blaine@dfw.wa.gov](mailto:Jennifer.Blaine@dfw.wa.gov).

Charts: 18400 18421 18440 18441 18448

LNM: 11/22

**WASHINGTON – PUGET SOUND – SEATTLE TO BREMERTON – DUWAMISH WATERWAY – Bridge emergency deviation  
(Revised from LNM 08/22)**

The Coast Guard has approved an emergency temporary deviation from the operating regulations of the 1st Ave South Highway Bridge (LLNR 16887), AKA SR-99 Bridge, across the Duwamish Waterway, mile 2.5, Seattle, WA. The subject bridge sustained damage from a roadway accident, and the draw span is limited to opening when sustained winds are less than 10 knots. The bridge operator may exercise good judgement to delay or not open the draw for a reasonable time only when sustained winds exceed 10 knots. The bridge operator may delay the opening of the draw for a reasonable time while waiting for sustained winds to be less than 10 knots, but shall inform mariners for the reason of delayed openings. Mariners shall contact the bridge operator prior to entering the Duwamish Waterway to request an opening, if the bridge cannot open due to wind velocity, the bridge operator shall record the vessel(s) name and contact them every thirty minutes with a draw status. The reasonable delay to open due to damages applies to all vessels requesting an opening including vessels of 5000 gross tons and over, a vessel towing a vessel of 5000 gross tons and over, and a vessel proceeding to pick up for towing a vessel of 5000 gross tons and over. During this closure, the draw of the subject bridge may also delay opening the draw to marine vessels engaged in emergency operations. Repairs to the bridge are taking longer than expected, and the anticipated completion date is now 15 Apr 2022.

Chart 18450

LNM: 11/22

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**SECTION II - DISCREPANCIES**

This section lists all reported and corrected discrepancies related to Aids to Navigation in this edition. A discrepancy is a change in the status of an aid to navigation that differs from what is published or charted.

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**DISCREPANCIES (FEDERAL AIDS)**

<u>LLNR</u>	<u>Aid Name</u>	<u>Status</u>	<u>Chart No.</u>	<u>BNM Ref.</u>	<u>LNM St</u>	<u>LNM End</u>
733	NOAA Environmental Lighted Buoy 46041	MISSING	18500	0174-22	08/22	
756	Strait of Juan De Fuca Traffic Separation Lane Lighted Buoy JA	MISSING	18485	0828-20	47/20	
765.2	DART Tsunami Warning Lighted Buoy 46407	ADRIFT	18007	0237-22	13/22	
765.4	DART Tsunami Warning Lighted Buoy 46404	ADRIFT	18007	0254-22	14/22	
765.5	NOAA Environmental Lighted Buoy 46005	LT EXT	18007	0197-20	08/20	
8655	Rogue River Entrance Buoy 1	MISSING	18601	0751-21	43/21	
10215	Miller Sands Dike Light 5	DAYMK IMCH	18521	0022-22	02/22	
10475	Westport Dike Light 58	LT EXT/STRUCT DMGD	18523	0190-22	09/22	
12980	Lake Wallula West Channel Junction Light W	STRUCT DEST/TRLB	18542	0208-20	09/20	
14420	Baker Bay West Channel Entrance Jetty Light 2	LT IMCH/STRUCT DMGD	18521	0633-21	38/21	
14835	Sauvie Island Junction Light	STRUCT DEST/TRLB	18524	0930-21	51/21	
15186	Willapa Bay Entrance Lighted Buoy C	MISSING	18504	0786-21	45/21	
16071.25	Hoquiam River Obstruction Buoy	MISSING/TRDBN	18502	0178-20	08/20	
16090	Quillayute River Sector Light	LT EXT/STRUCT DMGD	18480	0848-21	47/21	
16095	Quillayute River Entrance Light 3	LT EXT/STRUCT DMGD	18480	0853-21	48/21	
16136	Strait of Juan De Fuca Traffic Separation Lane Lighted Buoy JA	MISSING	18485	0828-20	47/20	
16223	Race Rocks East Cautionary Lighted Buoy VG (C)	OFF STA	18465	0890-21	49/21	
17360	Nisqually Flats Light 3	STRUCT DEST/TRLB	18448	0404-21	24/21	
18710	Oak Harbor Light 11	STRUCT DEST/TRUB	18428	0652-21	39/21	
19815	Boundary Pass Shoal Isolated Danger Lighted Bell Buoy DB	TMK MISSING	18431	0062-22	03/22	

**DISCREPANCIES (FEDERAL AIDS) CORRECTED**

<u>LLNR</u>	<u>Aid Name</u>	<u>Status</u>	<u>Chart No.</u>	<u>BNM Ref.</u>	<u>LNM St</u>	<u>LNM End</u>
15435	Long Island Junction Light	WATCHING PROPERLY	18504	None	05/22	15/22

**DISCREPANCIES (PRIVATE AIDS)**

<u>LLNR</u>	<u>Aid Name</u>	<u>Status</u>	<u>Chart No.</u>	<u>BNM Ref.</u>	<u>LNM St</u>	<u>LNM End</u>
10928	Sandy Island Anchorage Lighted Buoy "S"	LT EXT	18524	0225-22	12/22	
11207	Lower Vancouver Anchorage Lighted Buoy V	LT EXT	18525	0147-22	06/22	
11247	Hayden Island Water Monitoring Lighted Buoy A	MISSING	18526	0413-21	25/21	
16115	University of Washington LaPush Research Lighted Buoy	MISSING	18480	0150-22	07/22	
17044	Des Moines Marina Lighted Buoy 1	MISSING/LT EXT	18474	0762-21	44/21	

**DISCREPANCIES (PRIVATE AIDS) CORRECTED**

<u>LLNR</u>	<u>Aid Name</u>	<u>Status</u>	<u>Chart No.</u>	<u>BNM Ref.</u>	<u>LNM St</u>	<u>LNM End</u>
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None



**PLATFORM DISCREPANCIES**

Name	Status	Position	BNM Ref.	LNM St	LNM End
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**None**

**PLATFORM DISCREPANCIES CORRECTED**

Name	Status	Position	BNM Ref.	LNM St	LNM End
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**None**

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**SECTION III - TEMPORARY CHANGES and TEMPORARY CHANGES CORRECTED**

This section contains temporary changes and corrections to Aids to Navigation for this edition. When charted aids are temporarily relocated for dredging, testing, evaluation, or marking an obstruction, a temporary correction shall be listed in Section IV giving the new position.

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**TEMPORARY CHANGES**

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
9285	Winchester Bay Harbor Entrance Daybeacon 1	TRUB	18584	0353-21	21/21	
12980	Lake Wallula West Channel Junction Light W	TRLB	18542	0214-20	10/20	
14835	Sauvie Island Junction Light	TRLB	18524	0936-21	51/21	
16071.25	Hoquiam River Obstruction Buoy	TRDBN	18502	0534-21	32/21	
17360	Nisqually Flats Light 3	TRLB	18448	0409-21	24/21	
18050	Orchard Rocks Fish Pen Lights (3)	DISCONTINUED	18449	0894-21	50/21	
18710	Oak Harbor Light 11	TRUB	18428	0711-21	42/21	

**TEMPORARY CHANGES CORRECTED**

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
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**None**

**PLATFORM TEMPORARY CHANGES**

Name	Status	Position	BNM Ref.	LNM St	LNM End
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**None**

**PLATFORM TEMPORARY CHANGES CORRECTED**

Name	Status	Position	BNM Ref.	LNM St	LNM End
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**None**

## SECTION IV - CHART CORRECTIONS

This section contains corrections to federally and privately maintained Aids to Navigation, as well as NOS corrections.

This section contains corrective actions affecting chart(s). Corrections appear numerically by chart number, and pertain to that chart only. It is up to the mariner to decide which chart(s) are to be corrected. The following example explains individual elements of a typical chart correction.

Chart Number	Chart Edition	Edition Date	Last Local Notice to Mariners	Horizontal Datum Reference	Source of Correction	Current Local Notice to Mariners
12327	91st Ed.	19-APR-97	Last LNM: 26/97	NAD 83		27/97
Chart Title: NY-NJ-NEW YORK HARBOR - RARITAN RIVER						
Main Panel 2245 NEW YORK HARBOR						
(Temp) ADD	NATIONAL DOCK CHANNEL BUOY 3				CGD01	074-02-48.001W
Corrective Action	Green can	Object of Corrective Action			Position	

(Temp) indicates that the chart correction action is temporary in nature. Courses and bearings are given in degrees clockwise from 000 true. Bearings of light sectors are toward the light from seaward. The nominal range of lights is expressed in nautical miles (NM) unless otherwise noted.

**18457**                    **10th Ed.**                    **01-JAN-06**                    **Last LNM: 23/17**                    **NAD 83**                    **15/22**

*Chart Title:* Puget Sound-Hammersley Inlet to Shelton

**Main Panel 1718 PUGET SOUND HAMMERSLEY INLET TO SHELTON. Page/Side: N/A**

LAST EDITION No new editions of chart 18457 will be published. It will be canceled on 01-Jun-22. Comparable or larger scale Electronic Navigational Chart (ENC) coverage is available. See "Cancellation of NOAA Paper and Raster Nautical Charts" in Section I of this LNM for details. A list of all canceled NOAA charts is at <https://www.charts.noaa.gov/MCD/Dole.shtml>.                    NOS                    --

**18556**                    **26th Ed.**                    **01-JUN-12**                    **Last LNM: 18/14**                    **NAD 83**                    **15/22**

*Chart Title:* Nehalem River

**Main Panel 1787 NEHALEM RIVER. Page/Side: N/A**

LAST EDITION No new editions of chart 18556 will be published. It will be canceled on 01-Jun-22. Comparable or larger scale Electronic Navigational Chart (ENC) coverage is available. See "Cancellation of NOAA Paper and Raster Nautical Charts" in Section I of this LNM for details. A list of all canceled NOAA charts is at <https://www.charts.noaa.gov/MCD/Dole.shtml>.                    NOS                    --

**18589**                    **16th Ed.**                    **01-OCT-07**                    **Last LNM: 38/17**                    **NAD 83**                    **15/22**

*Chart Title:* Port Orford to Cape Blanco;Port Orford

**Main Panel 1798 PORT ORFORD TO CAPE BLANCO. Page/Side: N/A**

LAST EDITION No new editions of chart 18589 will be published. It will be canceled on 01-Jun-22. Comparable or larger scale Electronic Navigational Chart (ENC) coverage is available. See "Cancellation of NOAA Paper and Raster Nautical Charts" in Section I of this LNM for details. A list of all canceled NOAA charts is at <https://www.charts.noaa.gov/MCD/Dole.shtml>.                    NOS                    --

## SECTION V - ADVANCE NOTICES

This section contains advance notice of approved projects, changes to aids to navigation, or upcoming temporary changes such as dredging, etc. Mariners are advised to use caution while transiting these areas.

### SUMMARY OF ADVANCED APPROVED PROJECTS

<u>Approved Project(s)</u>	<u>Project Date</u>	<u>Ref. LNM</u>
None		

#### Advance Notice(s)

**COLUMBIA RIVER - WILLAPA BAY -GRAYS HARBOR –PUGET SOUND – Replacement of incandescent Lights with LED lanterns**

The U.S. Coast Guard is replacing the following incandescent lantern with LED lanterns at sites on the Columbia River, Willapa Bay, Grays Harbor, Bellingham Channel and Eagle Harbor. These current incandescent lanterns have a single or dual beam of high intensity, with an all-around light of reduced intensity. The change to a LED lantern will remove the high intensity beams, but significantly increase the intensity of the all-around light. The sites are:

- Svensen Island Light 12 (LLNR 14775) the high intensity beam will be removed and the intensity of the light will be increased.
- Willapa River Light 39 (LLNR 15340) the high intensity beams will be removed and the intensity of the light will be increased.
- South Willapa Bay Light 7 (LLNR 15410) the high intensity beam will be removed and the intensity of the light will be increased.
- Long Island Junction Light (LLNR 15435) the high intensity beam will be removed and the intensity of the light will be increased.
- Aberdeen Harbor Light 3 (LLNR 15900) the high intensity beam will be removed and the intensity of the light will be increased.

Johns River Entrance Light 8 (LLNR 15955) the high intensity beams will be removed and the intensity of the light will be increased.  
 Eagle Harbor Light 4 (LLNR 18010) the high intensity beam will be removed and the intensity of the light will be increased.  
 Bellingham Channel Light 5 (LLNR 19175) the high intensity beams will be removed and the intensity of the light will be increased.

The change in light characteristics will be advertised by a Broadcast Notice to Mariners and Light List corrections in the Local Notice to Mariners. Mariners are encouraged to share comments on the performance and operation of these lights as aids to navigation. All comments should be sent to the email address D13-SMB-D13-LNM@uscg.mil. Any discrepancy for these or other Aids to Navigation should continue to be reported to US Coast Guard Sector Columbia River and US Coast Guard Sector Puget Sound.

Charts: 18421 18441 18502 18504 18523

LNM: 13/22

**WASHINGTON – WILLAPA BAY - Disestablishment of Willapa Bay Lighted Buoy “C” and Buoy “D”**

The U.S. Coast Guard will be permanently disestablishing Willapa Bay Entrance Lighted Buoy “C” (LLNR 15186) and Willapa Bay Entrance Buoy “D” (LLNR 15167) as the constantly shifting bar at the entrance to Willapa Bay prevents these buoys from marking the navigable channel, and surf conditions make the placement, retrieval and servicing of these buoys hazardous. There are currently no plans by the US Army Corps of Engineers to dredge or maintain the entrance channel into Willapa Bay. Virtual AIS (V-AIS) signals will be established in place of these buoys.

Mariners are encouraged to share comments on the performance and operation of aids to navigation All comments should be sent to the email address of D13-SMB-D13-LNM@uscg.mil. Any discrepancy for Aids to Navigation should continue to be reported to US Coast Guard Sector Columbia River.

Chart 18504

LNM: 09/22

**WASHINGTON – STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA AND PUGET SOUND – Removal of RACONs on aids to navigation**

The U.S. Coast Guard will be removing the RACONs from selected aids to navigation in the Strait of Juan de Fuca, Rosario Strait and Puget Sound due to the consistent failure of the signals and that they are no longer considered necessary for safe navigation of the waterways. While there is no specific timeline for the removal of this equipment, it will be coordinated with servicing and discrepancy responses. The removal of the RACONs will be announced by Broadcast Notice to Mariners and published in the Local Notice to Mariners as Chart and Light List corrections. These aids to navigation are:

- Hein Bank Lighted Buoy 1 (LLNR 16362)
- Rosario Strait Traffic Separation Lane Lighted Buoy “RA” (LLNR 16370)
- Puget Sound Traffic Separation Lane Lighted Buoy “SA” (LLNR 16405)
- Puget Sound Traffic Separation Lane Lighted Buoy “SF” (LLNR 16745)
- Puget Sound Traffic Separation Lane Lighted Buoy “SG” (LLNR 16815)
- Rosario Strait Traffic Separation Lane Lighted Buoy “C” (LLNR 19520)
- Rosario Strait Traffic Separation Lane Lighted Buoy “CA” (LLNR 19535)

Mariners are requested to respond in writing to the Coast Guard District office with any comments on this change at D13-SMB-D13-LNM@uscg.mil. Any discrepancy for these or other Aids to Navigation should continue to be reported to US Coast Guard Sector Puget Sound.

Charts: 18400 18421 18441 18465

LNM: 36/21

**SECTION VI - PROPOSED CHANGES**

Periodically, the Coast Guard evaluates its system of aids to navigation to determine whether the conditions for which the aids to navigation were established have changed. When changes occur, the feasibility of improving, relocating, replacing, or discontinuing aids are considered. This section contains notice(s) of non-approved, proposed projects open for comment. SPECIAL NOTE: Mariners are requested to respond in writing to the District office unless otherwise noted (see banner page for address).

**PROPOSED WATERWAY PROJECTS OPEN FOR PUBLIC COMMENT**

<u>Proposed Project(s)</u>	<u>Closing</u>	<u>Docket No.</u>	<u>Ref. LNM</u>
None			

**Proposed Change Notice(s)**

**COLUMBIA RIVER – VANCOUVER TO BONNEVILLE – Disestablishment of Washougal Upper and Reed Island Range Lights**

Due to shoaling extending north into Gary Island Channel and south into the Reed Island Channel to the south of Reed Island, Washougal Upper Range Front and Rear Lights (LLNRs 11550 and 11555) and Reed Island Range Front and Rear Lights (LLNRs 11570 and 11575) no longer mark safe water for commercial maritime traffic and may be misleading. The US Coast Guard is proposing to mark the shoaling off Gary Island and Chatham Island with lighted floating aids to navigation, and securing the range lights. Reed Island Reach Lighted Buoy 61 (LLNR 11580) will remain to mark the encroaching shoal off Reed Island.

Mariners are encouraged to share comments on the performance and operation of these lights as aids to navigation. All comments should be sent to the email address D13-SMB-D13-LNM@uscg.mil. Any discrepancy for Aids to Navigation should continue to be reported to US Coast Guard Sector Columbia River.

Chart 18531

LNM: 10/22

**WASHINGTON – PUGET SOUND –STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA - Removal of ball topmarks from Isolated Danger Buoys**

The U.S. Coast Guard is proposing to remove the two black ball topmarks from the Isolated Danger Buoys listed below. This action is due to recurring damage of the topmarks from weather events, and the debris has interfered with the visibility of the light signal.

Tolivia Shoal Isolated Danger Lighted Bell Buoy DTS (LLNR 17265)  
Blakely Island Shoal Isolated Danger Lighted Buoy DS (LLNR 19430)  
Reid Rock Lighted Isolated Danger Buoy DR (LLNR 19630)  
Boundary Pass Shoal Isolated Danger Lighted Bell Buoy DR (LLNR 19815)

Mariners are encouraged to share comments on the performance and operation of these lights as aids to navigation. All comments should be sent to the email address D13-SMB-D13-LNM@uscg.mil. Any discrepancy for these or other Aids to Navigation should continue to be reported to US Coast Guard Sector Puget Sound.

Charts: 18421 18448

LNM: 07/22

**WASHINGTON – STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA – SAN JUAN CHANNEL – Change to the light sectors at Fisherman Bay Sector Light**

The U.S. Coast Guard is proposing to change the arc of visibility for the white and red sectors at Fisherman Bay Sector Light (LLNR 19560) to facilitate the installation of LED lighting equipment and increase the reliability of the light signal. The current white light sector would be reduced from 74 degrees to 18 degrees and the intensities of the white and red sectors would be increased to promote increased visibility. The white 18 degree sector would remain orientated to the northwest.

Mariners are encouraged to share comments on this proposed change and the performance and operation of these lights as aids to navigation. All comments should be sent to the email address D13-SMB-D13-LNM@uscg.mil. Any discrepancy for Aids to Navigation should continue to be reported to US Coast Guard Sector Puget Sound.

Chart 18434

LNM: 12/22

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**SECTION VII - GENERAL**

This section contains information of general concern to the Mariners. Mariners are advised to use caution while transiting these areas.

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**SUMMARY OF BRIDGE LIGHTING DISCREPANCIES AND CORRECTIONS**

The summary of Bridge Lighting Discrepancies and Corrections is listed as Enclosure (1) of this Local Notice to Mariners.

LNM: 15/22

**SUMMARY OF DREDGING OPERATIONS**

The summary of Dredging Operations is listed as Enclosure (2) of this Local Notice to Mariners.

LNM: 15/22

**SUMMARY OF MARINE EVENTS**

The summary of Marine Events is listed as Enclosure (3) of this Local Notice to Mariners.

LNM: 15/22

**OREGON – PORT OF PORTLAND - WILLAMETTE RIVER – Bridge notice**

The Coast Guard has approved a temporary operating rule change that governs the Morrison Highway Bridge (LLNR 14955.5) across the Willamette River, mile 12.8 at Portland, OR. The Morrison Bridge operates in accordance with 33 CFR 117.897(c)(3)(iv). This temporary rule temporarily suspends the current regulatory cite regarding the Morrison Bridge, and adds a temporary paragraph 33 CFR § 117.897(c)(3)(vi) which amends the operating schedule of the Morrison Bridge. The rule change authorizes the subject bridge to open half of the draw span on signal when at least a two-hour notice has been given, or four-hour notice if a tug assist is needed from 1900 on 01 Apr 2022 through 1900 on 31 May 2023. Mariners may contact the Hawthorne Bridge operator via telephone at (503) 988-3452 or VHF radio channel 13 for an opening of the Morrison Bridge. Half of the draw will be maintained in the closed-to-navigation position to allow for preservation and painting maintenance. The rule change allows the Morrison Bridge to alternate operation of the east or west leaf span during the temporary rule period. The west span will be operational at the beginning of project and the east span will be in the closed-to-navigation position. The horizontal clearance with a full opening is 185 feet, therefore, in single leaf operations, the temporary rule change reduces the horizontal clearance to approximately 90 feet. The dates to switch operational spans will be determined later and published in the Local Notice to Mariners. This rule reasonably accommodates waterway users while reducing Multnomah County's burden to safely clear work crews for bridge openings. When the operational span is in the closed-to-navigation position, the vertical clearance is 69 feet in center and 48 feet on the side. The vertical clearance of the operational span is unlimited when in the open-to-navigation position. This regulation approval allows a containment system under the bridge that reduces the non-opening half of the bridge's vertical clearance by 5 feet from 69 feet center to 64 feet, and from 48 feet on the sides to 43 feet. All draw clearances are above the Columbia River Datum 0.0. Vessels able to pass through the bridge in the closed-to-navigation position may do so at any time. In accordance with 33 CFR 117.35(e), the bridge must return to its regular operating schedule immediately at the end of the designated time-period. For additional information on this event, contact Matt Studer at matt.d.studer@multco.us.

Chart 18526

LNM: 09/22

**COLUMBIA RIVER – BONNEVILLE TO THE DALLES – Bridge notice**

ODOT is conducting a bridge deck replacement project on the SR 197 Highway Bridge (LLNR 12133) at Columbia RM 191.6 near The Dalles, OR and Dallesport WA. A work access and containment platform will be suspended beneath the bridge starting in mid-August and will be in place continuously until 27 May 2022. While in place, the vertical navigation clearance will be reduced by approximately 3 feet to a minimum clearance of 97 feet Columbia River datum OHW. If a vessel needs the full 100 feet of vertical clearance for passage through the subject bridge, contact the ODOT Resident Engineer with no less than 12 hours of notice. For more information, or to make a request, contact ODOT Resident Engineer Brad DeHart at (541) 296-2800 or bradley.k.dehart@odot.state.or.us.

Chart 18532

LNM: 31/21

**WASHINGTON – GRAYS HARBOR – WISHKAH RIVER – Bridge inspection**

Washington State Department of Transportation will be inspecting the US-12, Heron Street Highway Bridge (LLNR 16072.2) that spans the Wishkah River near Aberdeen, WA. The inspection will take place between 0900 and 1200 on 12 May 2022. The bridge will be inspected using an under-

**WASHINGTON – GRAYS HARBOR – WISHKAH RIVER – Bridge inspection**

bridge inspection truck (UBIT) that occupies a portion of the roadway and extends a boom under the bridge. There is no fixed impact to navigational clearance from this operation (~10 ft. reduction to clearance while bucket is under the bridge, however UBIT will promptly give way to tall marine vessels). Mariners are advised to use caution while transiting the area. UBIT bucket will have a flashing orange light on the bottom and a safety lookout will be on the bridge. Bridge openings will occur as usual. For additional information, contact Alan Kuper, P.E. at (360) 701-0556 or kuper@wsdot.wa.gov.

Chart 18502

LNM: 09/22

**WASHINGTON – PUGET SOUND – HOOD CANAL – Bridge Notice**

WSDOT will be inspecting the Hood Canal Highway Bridge (LLNR 17769) that spans Hood Canal near Port Gamble, WA. The inspection will take place between 0900 and 1500 on 09 – 10 May 2022. The bridge will be inspected using an under-bridge inspection truck (UBIT) that occupies a portion of the roadway and extends a boom under the bridge. There is no fixed impact to navigational clearance from this operation (~10 ft. reduction to clearance while bucket is under the bridge, however the UBIT will promptly give way to tall marine vessels). Mariners are advised to use caution while transiting the area. UBIT bucket will have a flashing amber light on the bottom and a safety lookout will be on the bridge. Bridge openings will occur as usual. For additional information, contact Alan Kuper, P.E. at (360) 701-0556 or email kuper@wsdot.wa.gov.

Chart 18441

LNM: 08/22

**WASHINGTON – LAKE WASHINGTON SHIP CANAL – LAKE WASHINGTON – Interstate 90 Highway Bridge Anchor Cable Replacement**

WSDOT will be replacing anchor cables linking the I-90 Highway Bridge (west channel) (LLNR 18389) in Lake Washington. The project will take place within a 1000ft wide strip on both the north and south sides of the I-90 floating bridge from 17 Mar to 30 Sep 2022. Work will be carried out during 24 hour shifts typically starting Monday morning at 0600 and finishing Friday at 1800, with some occasional weekend hours. A derrick crane, DB Alameda, will be used to winch up existing anchor cables and pay out new anchor cables. DB Alameda will maneuvered by the tug Capt Cae, and multiple flat deck barges and working skiffs will be maneuvering within the work zone. All vessels may be contacted on VHF-FM Channel 16. Deep-water divers will be deployed to disconnect the old cable and reconnect the new cable at the lakebed and shallow water divers will be deployed to assist with cable handling near to and under the floating pontoons. All barges will be lighted on the outermost corners of the individual barge. An orange buoy will mark the anchor noting the location and used for retrieval. Some locations on the SW corner of the work zone will require anchors attached to a pendant line for extra length and feature 2 buoys, one for the anchor and another for the pendant line. Mooring of vessels to the bridge will have line travels slightly above and below the water between the derrick crane and the bridge. Mariners transiting through the area shall not produce a wake or approach the barges within 500 feet. No boat traffic is permitted between the barge and the bridge at any time during the course of the project. For additional information, contact Andrew Schaal (0600-1800) at Andrew.Schaal@kiewit.com and (541) 969-0559; or Evan Spading (1800-0600) at Evan.spading@kiewit.com and (808) 342-3561.

Chart 18447

LNM: 10/22

**WASHINGTON – LAKE WASHINGTON – SAMMAMISH RIVER – West Sammamish River Bridge Notice (Revised from LNM 13/20)**

Construction on the West Sammamish River Bridge at Sammamish River mile 0.5 near Kenmore, Washington is ongoing and will continue through October 2023. The western bridge will be removed and a new bridge constructed. Mariners may transit through the construction zone, but are advised that temporary work piers will be constructed on the west side of the bridge, and will reduce the horizontal span to 40 feet of clearance. Containment will be installed under the bridge reducing the vertical clearance from 11.5 feet to 10.5 feet measured at OHW. Working hours will normally be from 0600 to 1800 six days per week, however, during the in water work window of 01 Jul to 31 Aug, operations will be 24 hours per day. If construction falls behind schedule, the work hours may shift to 24 hours/seven days per week. For more information regarding construction, contact Jake Brockmoller at (253) 888-2514, or Mick Cannon at (253) 377-1041.

Chart 18447

LNM: 05/21

**OREGON – SNAKE RIVER – Bridge notice**

ODOT will be repairing the bridge that spans the Snake River in Ontario OR at river mile 372. The operations will occur seven days a week, daylight hours only, from 01 Apr to 31 Oct 2022. The bridge will be repaired using an under-bridge inspection truck (UBIT) or snooper crane that occupies approximately 10 feet of the vertical span of the bridge, work containment platforms that occupies approximately 6 feet of vertical span of the bridges, and a barge that will occupy one of the nine existing bridge spans. Mariners are advised to use caution while transiting the area. For additional information contact ODOT District 14 Project Manager, Petr Lovasik at (541) 823-4021 or (541) 709-6889 (cellular) or Petr.Lovasik@odot.state.or.us.

LNM: 06/22

**IDAHO – LAKE COEUR D'ALENE – LAKE PEND OREILLE – BNSF Railroad Bridge construction update**

BNSF Railway Company (BNSF) is continuing construction on the new BNSF Railroad Bridge 3.9 (LLNR 20087) located over Lake Pend Oreille (LPO) Mile 2.7, located approximately at 48-16-20 N, 116-32-39 W, in Sandpoint, ID from the start of LPO winter draw-down levels as of 01 Oct 2021 through the start of LPO summer fill-up beginning 01 May 2022. This notice reflects updates to the next project phase work activities required due to the seasonal fluctuation of LPO water levels. Work barges will be staged along the work corridor with support from upland staging areas, primarily from the south shore of LPO, near East Algoma along the BNSF right-of-way (ROW). Hours of construction activities will generally be 0730 to 1600, Monday to Saturday. An Ames-owned tugboat, Audrey B, will position barges and provide other on-water support within the BNSF 200' ROW west of the existing BNSF Bridge 3.9. The Audrey B can be hailed on VHF-FM channels 13 and 16.

One of the two published navigation channels at the existing BNSF Bridge 3.9 spans 67 and 68 and half of the existing spans 2 and 3; 14 through 17; 27 through 30; 40 through 43; 53 through 56; 84; and 95 through 97 will remain unobstructed during all work activities. Vertical clearance of the existing bridge will be unchanged. The temporary work trestles and work barges will have navigation lights and work zone buoys in accordance with the Navigation Rules (COLREGS-Inland). Enclosure (4) of LNM 02/22 displayed the project vicinity, locations of high and low-water work areas, for this phase of the work activities. Changes to the work locations and activities will be updated by a subsequent LNM in the Spring of 2022. During all phases and locations, the noted navigational buoy-safety lighting for the work areas will be in place. The point of contact for the bridge contractor, Ames Construction, Inc. is Mike Pamperin at (612) 741-6535; MikePamperin@amesco.com. For additional information contact the BNSF Project Manager, Ryan Kopera at (913) 284-3467; Ryan.Kopera@BNSF.com.

Chart 18554

LNM: 51/21

**COLUMBIA AND SNAKE RIVERS – Winter seasonal recreational vessel lockage**

The USACE Portland and Walla Walla Districts will implement the winter seasonal lockage schedule, beginning in September until 15 May 2022, for the passage of recreational craft through the Columbia and Snake River navigation locks. The Portland District will begin the winter lockage schedule on 30 Sep, while the Walla Walla District will commence the winter schedule on 18 Sep. Winter lockage will be made during daylight hours

### **COLUMBIA AND SNAKE RIVERS – Winter seasonal recreational vessel lockage**

only, on request at each lock – vessels should contact the lock operator via VHF-FM channel 14 or telephone, and should make their request at least 30 minutes in advance.

Lock Name	Location	Phone Number	Radio Call Sign
Portland District:			
Bonneville Lock	Columbia River Mile 145.5	(541) 374-8323	WUJ 33
The Dalles Lock	Columbia River Mile 191.5	(541) 506-8211	WUJ 34
John Day Lock	Columbia River Mile 215.6	(541) 298-9712	WUJ 35
Walla Walla District:			
McNary Lock	Columbia River Mile 292	(541) 922-2231	WUJ 41
Ice Harbor Lock	Snake River Mile 9.7	(509) 543-3253 x231	WUJ 42
Lower Monumental Lock	Snake River Mile 41.6	(509) 282-7231	WUJ 43
Little Goose Lock	Snake River Mile 70.3	(509) 399-2233 x231	WUJ 44
Lower Granite Lock	Snake River Mile 107.5	(509) 843-1493 x231	WUJ 45

Commercial vessels continue to have lockage precedence over recreational vessels. At the discretion of the lock operator, recreational vessels may be allowed to lock through with commercial vessels. The Portland District requests that recreational vessels contact the lock at least 30 minutes prior to arrival using VHF-FM channel 14 or via telephone. All vessel owner/operators lock through at their own risk. All persons in the vessel must be wearing a personal flotation device (PFD) during lockage. Follow the directions of the lock operator when using locks or operating in the vicinity of the locks. The lock operator has final authority on the suitability of a craft for lockage. Please refer to USACE Safe Lockage Policy for Recreational Craft on the Columbia and Snake Rivers, published separately, for safety requirements. For safety and additional information on Portland District navigation lock operations and schedules visit <http://www.nwp.usace.army.mil/Missions/Navigation.aspx> and for Walla Walla District lock operations visit <http://www.nww.usace.army.mil/Missions/Navigation.aspx> or call the USACE Walla Walla Operations Division at (509) 527-7112.

Charts: 18532 18533 18535 18536 18537 18539 18541 18545 18546 18547

LNM: 35/21

### **SNAKE RIVER – LAKE SACAJAWEA AND LAKE HERBERT G. WEST – Upstream floating guidewall restrictions (Revised from LNM 10/21)**

Repairs at the Ice Harbor Lock and Dam and the Little Goose Lock and Dam upstream floating guide walls are now completed, so all restrictions regarding the use of the floating guide wall are now lifted. However, restrictions still apply at the following project:

- Lower Monumental Lock and Dam, Snake River Mile 41.6, vessels may not tie up to or rub against the floating guidewall when approaching or leaving the lock, nor should they use the guidewall as a pivot point for entering the lock. These restrictions will remain in place until more substantial repairs can be made to the locks' floating guidewall cables. For additional information on this work, contact the NWW Operations Division at (509) 527-7364.

Charts: 18545 18546

LNM: 04/22

### **OREGON – CAPE BLANCO TO YAQUINA HEAD – Scientific equipment installation**

Oregon State University (OSU) has installed four, 1-mile long, 10-inch diameter, steel conduits under the seafloor running out from Driftwood Beach State Recreation Site near Seal Rock, Oregon, as part of the construction of the PacWave South Wave Energy Test Site. In mid-2023, subsea cables will be installed in the conduits to carry power and data from the test site to shore. Until the cables are installed, the seaward end of the conduits may protrude up to 3 feet vertically and 10 feet horizontally from the seafloor depending on sand movement. Once the cables are installed, the final placement of the conduits will be below the seafloor. The conduit punch outs are located approximately 1500 yards offshore from Driftwood Beach, which is between Seal Rocks and Waldport.

Until the subsea cables are installed, mariners are requested to avoid anchoring or setting fishing gear in a 1,000 x 1,500-foot Conduit Punch Out Area around the conduit exit locations due to risk of snagging on any exposed conduit. The location of the Conduit Punch Out Area was shown in the graphic attached as Enclosure (4) to LNM 52/21. If crab pots, or other equipment, becomes snagged in this area, mariners are asked to contact OSU prior to attempting to recover the snagged items. For more information contact Brett Hembrough at (541) 737-9023 and [brett.hembrough@oregonstate.edu](mailto:brett.hembrough@oregonstate.edu), or Dan Hellin at (541) 745-8337 and [dan.hellin@oregonstate.edu](mailto:dan.hellin@oregonstate.edu).

Chart 18580

LNM: 49/21

### **OREGON – YAQUINA HEAD TO COLUMBIA RIVER – Undersea cable maintenance (Revised from LNM 03/22)**

The vessel Tuna Time II, will be providing surface support for divers conducting undersea telecommunications cable work in approximate position 45-15-01 N, 123-58-39.2 W, approximately 1100 yards off the shore near Pacific City, Oregon. Operations were previously scheduled for the first week in November, but will be completed as soon as favorable weather conditions allow. The operation will take 2-3 days with dive operations running from 0700 – 1800 daily. Tuna Time II will have limited maneuverability (being anchored) while conducting operations. All vessels in the area are requested to maintain a minimum 1 NM CPA to ensure safety of divers and navigation. Tuna Time II will monitor VHF-FM channels 16 and 13. For more information, contact (904) 397-8996 or email [operations@gaeaquatic.com](mailto:operations@gaeaquatic.com)

Chart 18520

LNM: 07/22

### **OREGON – TILLAMOOK BAY – Tillamook entrance north jetty repair work**

J.E. McAmis, Inc will commence a Tillamook North Jetty Repair project for the Portland District of USACE on 28 Feb 2022. Equipment will be operating atop the jetty near Bar View Jetty State Park and the Coast Guard observation tower, on the north side of the entrance. The project is expected to continue through July 2022, and operating hours will be weekdays, daylight only.

Chart 18558

LNM: 07/22

### **COLUMBIA RIVER SYSTEM AND WASHINGTON - Testing of prototype plastic buoys**

The U.S. Coast Guard is testing various prototype plastic buoys to observe their station keeping ability and visual and radar detection capabilities. Buoys are being placed at the following locations for evaluation:

On the Columbia, Snake and Willamette Rivers:

- Columbia River Entrance Lighted Buoy 3 (LLNR 9911), set on 1/13/2022
- Desdemona Sands Lighted Buoy 22 (LLNR 9990), set on 1/13/2022
- Hood River Lighted Buoy 36 (LLNR 11932), set on 12/14/2021
- Bonneville Pool Lighted Buoy 69 (LLNR 12130)
- Lake Celilo Buoy 45 (LLNR 12360), set on 9/28/2021
- Lake Wallula Lighted Buoy 2 (LLNR 12815), set on 10/04/2021

**COLUMBIA RIVER SYSTEM AND WASHINGTON - Testing of prototype plastic buoys**

Snake River Buoy 14 (LLNR 13195), set on 9/30/2021  
Snake River Buoy 18 (LLNR 13210)  
Elk Rock Buoy 10 (LLNR 15005), reset on 1/06/2022  
Elk Rock Buoy 12 (LLNR 15010)

In Grays Harbor and Admiralty Inlet Washington:  
Point Chehalis Lighted Buoy 4 (LLNR 15990)  
Point Wilson Lighted Buoy 6 (LLNR 16470), set on 12/16/2021

While the buoys performance is being studied, the US Coast Guard is soliciting comments from the maritime community transiting this waterway. Mariners are requested to respond in writing to the Coast Guard District office with any comments on this change at D13-SMB-D13-LNM@uscg.mil. Any discrepancy for these or other Aids to Navigation should continue to be reported to US Coast Guard Sector Columbia River and US Coast Guard Sector Puget Sound.

Charts: 18502 18533 18545

LNM: 03/22

**COLUMBIA RIVER – VANCOUVER TO BONNEVILLE – Shoaling protruding into Reed Island Reach**

Due to shoaling extending south into the Reed Island Reach Channel south of Reed Island, the US Coast Guard has relocated Reed Island Reach Lighted Buoy 61 (LLNR 11580) to approximate position 45-32-46.318N 122-18-02.052W. This position is near the center of the channel. Vessels transiting Reed Island Reach should navigate on the southern edge of the channel between longitudes 122-17-30.0W and 122-18-25.0W (RM 125+40 to 126+40) and proceed with caution.

Chart 18531

LNM: 30/21

**COLUMBIA RIVER – BONNEVILLE TO THE DALLES – Bridge demolition activities**

Advanced American Construction (AAC) will be conducting bridge pier demolition in the Columbia River at the mouth of Little White Salmon River / Drano Lake, at Columbia River mile 162, at the BNSF Little White Salmon River Railroad Bridge. Onsite work is expected to occur from 31 Jan – 15 Apr 2022. AAC's Derrick Barge AAC Millennium and work barges will be on station and monitoring VHF-FM channel 16 during the working hours of 0700 through 1700, Monday through Saturday. The floating equipment will remain on-station during non-working hours and will be illuminated at night by fixed white lights on all corners. A navigation channel will be maintained at all times, but mariners are asked to transit the area with caution and minimize wake. Please contact Scott Miller at (503) 568-4313 or ScottM@CallAAC.com with questions.

Chart 18532

LNM: 04/22

**OREGON – WILLAMETTE RIVER – WALNUT EDDY TO NEWBERG – Marine construction exposed piles**

Harbor Offshore, Inc. has completed the first phase of a construction project which included pile driving operations in the vicinity of the Raw Water Pump Station on the Willamette River near Wilsonville, OR. There are a total of six 14x89 H-Pile installed in an East-West Row that remain above waterline in approximate position 45-17-36.96 N, 122-46-57.96 W. All vessel traffic should be aware of these pilings when navigating in this area. The piles are planned to remain in their current configuration exposed above the waterline until June 2022. For additional information, please contact Lauren Collins at (707) 389-0678 or lcollins@harboroffshoreinc.com.

Chart 18528

LNM: 49/21

**WASHINGTON – APPROACHES TO ADMIRALTY INLET – Sequim Bay scientific sensor deployment**

The Pacific Northwest National Laboratory (PNNL) will be deploying and retrieving submerged scientific equipment in the entrance channel to Sequim Bay, Washington for 4 weeks between 11 Apr and 30 Jun 2022. The submerged scientific equipment will be located at approximate position 48-04-53 N, 123-02-30 W. There will be no surface marker buoys on the equipment, but the equipment extends approximately 10 feet above the seafloor, leaving at least 9 feet of water over the equipment at all times. The research vessels DESDEMONA or STRAIT SCIENCE may be on scene during the deployment and retrieval. The vessels may be hailed on VHF-FM channel 16. For additional information, contact PNNL Marine Sciences Laboratory, John Vavrinec, at (360) 681-3665 or email john.vavrinec@pnnl.gov.

Chart 18471

LNM: 11/22

**WASHINGTON – PUGET SOUND – APPLE COVE TO KEYPORT – Submersible Vehicle testing**

The Naval Undersea Warfare Center (NUWC) at Keyport, WA will be continuing operations in the vicinity of NUWC between University Point, the Brownsville Marina and Keyport through 23 Dec 2022. Operations will normally be conducted Monday through Friday during daylight hours. Operations will involve semisubmersible and submersible vehicles escorted by a small naval craft with a flashing red light. The small craft will monitor VHF-FM channels 12 and 16. The call sign for the small craft will be "Keyport Range Control". All craft transiting the area are requested to exercise caution and maintain a sharp lookout for possible semi-submerged vehicles while the range is in operation. Questions can be directed to Keyport Range Control on VHF-FM channels 12 and 16 or by contacting the Pacific Northwest Range Management and Ops Division, Range Control Branch, at (360) 396-2313.

Chart 18446

LNM: 02/22

**WASHINGTON – PUGET SOUND – PORT MADISON AND PORT ORCHARD – Oceanographic Research**

The University of Washington will be conducting a tidal energy study at the south end of Agate Pass from 11 – 27 Apr 2022. The R/V Russell Davis Light will be anchored in a four point mooring throughout the experiment, in approximate position 47-42-25.2 N and 122-34-13.8 W, and will display lights and shapes for a vessel at anchor. The R/V Jack Robertson will deploy and recover the mooring anchors at the start and end of the experiment. Each anchor will have a crown buoy consisting of a white float and a QW light (quick flash white). The research vessels will monitor VHF-FM channels 16, 14 and 13. The anchor lines will extend 130 yards from the vessel. All vessels are requested to stay outside of the four anchor buoys and provide a minimum clearance of 130 yards from the anchored vessel. For additional information, contact Applied Physics Laboratory, University of Washington at (206) 685-1971.

Chart 18446

LNM: 07/22

**WASHINGTON – PUGET SOUND – ELLIOTT BAY - Colman Dock construction**

Washington State Ferries is conducting demolition and construction operations at the Colman Docks, scheduled to be completed in the summer of 2022. Operations will be conducted from 0700 to 1700, Monday through Friday. Mariners should be aware of marine construction equipment moored around the Colman Dock and regular tows up and down the Duwamish River in support of the operation. Equipment may obstruct small sections of the waterway adjacent to Colman Dock. Water quality monitoring will be taking place during construction operations. Please direct any

**WASHINGTON – PUGET SOUND – ELLIOTT BAY - Colman Dock construction**  
 inquiries to WSF Communications at (206) 402-8070 or email wsfcomms@wsdot.wa.gov.  
 Chart 18450

LNM: 27/17

**WASHINGTON – PUGET SOUND – ELLIOT BAY – DUWAMISH WATERWAY – Terminal 5 pier construction**  
 Orion Marine will be continuing the marine construction activities associated with the Terminal 5 Berth Modernization Project for the Port of Seattle on the Duwamish River west waterway. Phase 2 of the project includes pile installation and new pier construction for and will run through Aug 2023. Work will typically take place from 0700 to 1700, Monday thru Friday. The DB Rainier and DB St. Helens, will each have a material barge moored alongside and will always remain on site. Each floating plant will have all corners marked with steady burn white lights. The DBs will run on anchors at times so mariners are requested to keep at least a 200-foot distance. The crane and tugs will monitor VHF-FM channel 13. For additional information please contact Jesse Galligan at (253) 552-1140 or email at jgalligan@orionmarinegroup.com.  
 Chart 18450

LNM: 02/22

**WASHINGTON – PUGET SOUND – HOOD CANAL – Pier construction**  
 Manson Construction will be conducting pier demolition and construction activities in Hood Canal on Navy Base Kitsap Bangor from 17 July 2020 through Jun 2022. The project will consist of demolition of existing pier, pile driving and construction of a 500' pier extension. Operations will Monday through Friday 0600 – 1630. There will be a derrick on site and a pile driver barge with multiple barges and a work skiff. Bangor Control Tower will be using VHF-FM channel 88A. Mariners are requested to reduce speed and minimize wake in the area for the safety of the personnel and equipment. For more information contact the US Navy POC Dennis Wiechmann at (360) 315-4084 email dennis.e.wiechmann@navy.mil or the Manson Construction superintendent Brian Dorning at (206) 718-8626.  
 Charts: 18458 18476

LNM: 28/20

**WASHINGTON – PUGET SOUND – HOOD CANAL – Naval Test and Evaluation Barge operations (Revised from LNM 09/22)**  
 The Naval Surface Warfare Center Detachment Puget Sound, located at SUBASE Bangor, will be working with Western Towboat to operate the Research, Development, Test and Evaluation Barge M241 in the waters of Hood Canal. The operations are scheduled from sunrise until sunset, Monday through Friday, from 06 Mar – 06 May 2022, in the waters from east of Brown Point at 47-44-35 N, 122-44-17 W, to south of Oak Head at 47-40-19 N, 122-47-58 W, where a marker buoy will be placed in water greater than 25 fathoms in depth and greater than 100 yards from shore, and short gaps in the schedule are expected to occur to allow for correction of technical issues. The operations will consist of low speed straight-line courses parallel to the shoreline with some stationary periods to perform deck operations. A 28-foot tracking vessel will accompany the barge and occasionally be underway to participate in operations. Questions can be directed to any operating support craft/personnel on marine VHF Channel 16, 88A or the Naval Surface Warfare Center waterfront POCs Mark Moss (360) 396-2948 or Steve Polillo (360) 315-0333.  
 Charts: 18458 18476

LNM: 10/22

**OREGON – WASHINGTON – IDAHO – NOAA's planned cancellation of Paper and Raster charts (Revised from LNM 09/21)**  
 The National Oceanic and Atmospheric Administration (NOAA) is undertaking a multi-year program to end production and maintenance of its suite of over 1,000 traditional paper nautical charts and all associated raster chart products and services, including: Print-on-Demand (POD) paper nautical charts, Full-size chart PDF files, BookletChart™ PDF files, NOAA raster navigational charts (NOAA RNC®), the NOAA RNC tile service, and the online RNC viewer.

Six months prior to cancellation, a notice of the intent to cancel a specific chart will be provided via a "Last Edition" notice. The final cancellation of a chart will be made via a "Canceled" notice. Both types of notices will appear in LNM Section IV, "Chart Correction." A comprehensive list of all cancelled NOAA charts is available at: <http://www.charts.noaa.gov/MCD/Dole.shtml>.

Traditional paper nautical chart production is ending to enable the creation and maintenance of larger scale, more up-to-date, higher quality coverage of NOAA's electronic navigational chart (NOAA ENC®) product. This will significantly enhance the amount of charted detail available to mariners. More information about NOAA's program to sunset traditional paper charts is on the NOAA Coast Survey website at: <https://nauticalcharts.noaa.gov/charts/farewell-to-traditional-nautical-charts.html>. An online NOAA Custom Chart application at: <https://devgis.charttools.noaa.gov/pod> is available to create chart images from ENC data, which may then be printed. Notices to Mariners will not be issued for NOAA Custom Charts.

LNM: 10/21

**SECTION VIII - LIGHT LIST CORRECTIONS**

An Asterisk \*, indicates the column in which a correction has been made to new information

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
15435	LONG ISLAND JUNCTION LIGHT	46-32-08.867N 123-58-35.684W	Fl (2+1)G 6s	17	5	JG on multi-pile structure.	15/22  *

**ENCLOSURES**

**Enclosure 1**

OREGON - WASHINGTON - IDAHO - MONTANA - Summary of Bridge Lighting Discrepancies and Corrections

LNM: 15/22

**Enclosure 2**

OREGON - WASHINGTON - COLUMBIA RIVER - Summary of Dredging Operations

LNM: 15/22



**Enclosure 3**

OREGON - WASHINGTON - COLUMBIA RIVER - Summary of Marine Events

LNM: 15/22

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If you have any questions, comments, or need additional information concerning this or other LNMs (e.g. additions, deletions, corrections) contact the address or phone number on the front page.

CDR Brendan J. Harris  
Chief, Waterways Management Branch  
Thirteenth Coast Guard District

# BRIDGE DISCREPANCIES AND CORRECTIONS

Enclosure (1)

BRIDGE DISCREPANCIES						
Waterway	Light List	Bridge Name	Location	Status	Date Reported	BNM
<b>OREGON COAST</b>						
None						
<b>COLUMBIA RIVER</b>						
None						
<b>SNAKE RIVER</b>						
None						
<b>WILLAMETTE RIVER</b>						
None						
<b>WASHINGTON COAST</b>						
None						
<b>PUGET SOUND</b>						
	16887	1st Ave South Highway Twin Bridge	Seattle, WA	Damaged; cannot open when winds exceed 10kts Mariners call bridge operator prior to transit	2/17/2022	0163-22
	18398	I-90 Highway Bridge (east channel)	Seattle, WA	Green center light extinguished	12/13/2021	0909-21
<b>IDAHO</b>						
None						
BRIDGE CORRECTIONS						
Waterway	Light List	Bridge Name	Location	Status	Date Reported	BNM
<b>OREGON COAST</b>						
None						
<b>COLUMBIA RIVER</b>						
None						
<b>SNAKE RIVER</b>						
None						
<b>WILLAMETTE RIVER</b>						
None						
<b>WASHINGTON COAST</b>						
None						
<b>PUGET SOUND</b>						
None						
None						
<b>IDAHO</b>						
None						

**Dredging operations are scheduled or in progress at the following locations:**

<b>Start Date</b>	<b>End Date</b>	<b>Times</b>	<b>Location</b>	<b>Dredge Vessel</b>	<b>Assist Vessel</b>	<b>Channel monitored</b>	<b>Disposal Area</b>	<b>LNM</b>
13-Apr-22	30-Apr-22	24 Hrs / 7 Days	Grays Harbor; Point Chehalis Range	M/V Yaquina	None	VHF-FM 13 & 16	Half Moon Bay	15/22

**Mariners are advised that the start and ending dates for dredging activities may vary due to unforeseen on-site conditions, such as gill net fishing, weather and other factors.**

**USACE dredges request mariners transit at their slowest safe speed to minimize wake when in the vicinity of a dredge and proceed with caution after making passing arrangements. Vessel(s) and/or equipment may encroach into the channel.**

# MARINE EVENTS

Enclosure (3)

SECTOR COLUMBIA RIVER MARINE EVENTS			
EVENT DATE	TIME	EVENT NAME	EVENT LOCATION
14-Apr-22	1230-1630	OCSA Sailboat Race -SYSCO Race Clinic	Columbia River between I-5 and I-205 Bridges, Portland, OR
16-Apr-22	1230-1630	OCSA Sailboat Race -SYSCO COB Challenge	Columbia River between I-5 and I-205 Bridges, Portland, OR
18-Apr-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
19-Apr-22	1800-2130	OCSA Sailboat Race -Spring Evening Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
21-Apr-22	1800-2130	OCSA Sailboat Race -Spring Evening Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
23-Apr-22	0730- 1530	Rusty Iron	Columbia River; Frenchmans Bar Regional Park, Vancouver downstream around Caterpillar Island and back
25-Apr-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
26-Apr-22	1800-2130	OCSA Sailboat Race -Spring Evening Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
28-Apr-22	1800-2130	OCSA Sailboat Race -Spring Evening Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
29-Apr-22	0800-1900	Strong Racing Hydroplane Testing	Columbia River, Pasco, WA
2-May-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
3-May-22	1800-2130	OCSA Sailboat Race -Spring Evening Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
5-May-22	1800-2130	OCSA Sailboat Race -Spring Evening Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
7-May-22	1030-1430	Opening Day Columbia River Yachting Association	Columbia River between I-5 and I-205 Bridges, Portland, OR
8-May-22	1630-2100	OCSA Sailboat Race -R20 "1972 Disco Party" BC Race	Columbia River between I-5 and I-205 Bridges, Portland, OR
9-May-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
10-May-22	1800-2130	OCSA Sailboat Race -Spring Evening Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
12-May-22	1630-2100	OCSA Sailboat Race -CYC Pacific NW Offshore	Pacific Ocean, Buoy 2, heading North toward Puget Sound
12-May-22	1800-2130	OCSA Sailboat Race -Spring Evening Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
15-May-22	1630-2100	OCSA Sailboat Race -RCYC "Fly Your Bags" BC Race	Columbia River between I-5 and I-205 Bridges, Portland, OR
16-May-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
17-May-22	1800-2130	OCSA Sailboat Race -Spring Evening Series	Columbia River between I-5 and I-205 Bridges, Portland, OR

# MARINE EVENTS

Enclosure (3)

18-May-22	0630- 1530	Columbia River Splash 2022	Columbia river mile 111 Near West End of Lemon Island, Portland, OR
19-May-22	0530-1830	Vancouver USA H1 Unlimited Exhibition	Columbia River between I-5 bridge and Vancouver Marine Park
19-May-22	1800-2130	OCSA Sailboat Race -Spring Evening Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
20-May-22	0530-1830	Vancouver USA H1 Unlimited Exhibition	Columbia River between I-5 bridge and Vancouver Marine Park
22-May-22	1230-1630	OCSA Sailboat Race -OWSA "Tropical Dreams" BC Race	Columbia River between I-5 and I-205 Bridges, Portland, OR
23-May-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
24-May-22	1800-2130	OCSA Sailboat Race -Spring Evening Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
26-May-22	1800-2130	OCSA Sailboat Race -Spring Evening Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
27-May-22	1200-1730	Boatnik 2022	Rogue River at Grants Pass, OR
28-May-22	1200-1730	Boatnik 2022	Rogue River at Grants Pass, OR
29-May-22	1200-1730	Boatnik 2022	Rogue River at Grants Pass, OR
30-May-22	1200-1730	Boatnik 2022	Rogue River at Grants Pass, OR
30-May-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
31-May-22	1800-2130	OCSA Sailboat Race -SYSCO Summer Evening Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
2-Jun-22	1800-2130	OCSA Sailboat Race -SYSCO Summer Evening Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
3-Jun-22	0630-1730	Tri City Water Follies Spring Testing	Columbia River, Kennewick, WA
5-Jun-22	1230-1630	OCSA Sailboat Race -PYC Rose Festival Regatta	Columbia River between I-5 and I-205 Bridges, Portland, OR
6-Jun-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
7-Jun-22	1800-2130	OCSA Sailboat Race -SYSCO Summer Evening Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
9-Jun-22	1800-2130	OCSA Sailboat Race -SYSCO Summer Evening Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
11-Jun-22	0700-1800	Portland Rose Festival	Willamette River between Marquam and Hawthorne Bridges in Portland, OR
12-Jun-22	0700-1800	Portland Rose Festival	Willamette River between Marquam and Hawthorne Bridges in Portland, OR
12-Jun-22	1230-1630	OCSA Sailboat Race -Single Handed BC Race	Columbia River between I-5 and I-205 Bridges, Portland, OR
13-Jun-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
14-Jun-22	1800-2130	OCSA Sailboat Race -SYSCO Summer Evening Series	Columbia River between I-5 and I-205 Bridges, Portland, OR

# MARINE EVENTS

Enclosure (3)

16-Jun-22	1800-2130	OCSA Sailboat Race -SYSCO Summer Evening Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
18-Jun-22	1330-2130	OCSA Sailboat Race -RCYC Medium Distance Race	Columbia River between Buoy 14 east to Ackerman Island and back, Portland, OR
20-Jun-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
21-Jun-22	1000-1700	Columbia Gorge Racing Association RS Aero World Championship	Columbia River Between Cascade Locks, OR and Stevenson, WA
21-Jun-22	1800-2130	OCSA Sailboat Race -SYSCO Summer Evening Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
22-Jun-22	1000-1700	Columbia Gorge Racing Association RS Aero World Championship	Columbia River Between Cascade Locks, OR and Stevenson, WA
23-Jun-22	1800-2130	OCSA Sailboat Race -SYSCO Summer Evening Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
23-Jun-22	1000-1700	Columbia Gorge Racing Association RS Aero World Championship	Columbia River Between Cascade Locks, OR and Stevenson, WA
24-Jun-22	1000-1700	Columbia Gorge Racing Association RS Aero World Championship	Columbia River Between Cascade Locks, OR and Stevenson, WA
24-Jun-22	0730-1930	Richland Regatta	Columbia River, Kennewick, WA
25-Jun-22	1000-1700	Columbia Gorge Racing Association RS Aero World Championship	Columbia River Between Cascade Locks, OR and Stevenson, WA
25-Jun-22	0730-1930	Richland Regatta	Columbia River, Kennewick, WA
25-Jun-22	1030-1330	Save Salmon	Willamette River, Portland, OR
26-Jun-22	1700-2130	OCSA Sailboat Race -SYSCO Grow the Sport BC Race	Columbia River between I-5 and I-205 Bridges, Portland, OR
26-Jun-22	1000-1700	Columbia Gorge Racing Association RS Aero World Championship	Columbia River Between Cascade Locks, OR and Stevenson, WA
26-Jun-22	0730-1100	Portland Sharkfest Swim	Willametter River; Portland Fire and Rescue Station 21 to Duckworth dock
26-Jun-22	0730-1930	Richland Regatta	Columbia River, Kennewick, WA
27-Jun-22	1830-2130	OCSA Sailboat Race -OWSA Womens Regatta	Columbia River between I-5 and I-205 Bridges, Portland, OR
27-Jun-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
27-Jun-22	1000-1700	Columbia Gorge Racing Association RS Aero World Championship	Columbia River Between Cascade Locks, OR and Stevenson, WA
28-Jun-22	1800-2130	OCSA Sailboat Race -SYSCO Summer Evening Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
28-Jun-22	1000-1700	Columbia Gorge Racing Association RS Aero World Championship	Columbia River Between Cascade Locks, OR and Stevenson, WA
29-Jun-22	1000-1700	Columbia Gorge Racing Association RS Aero World Championship	Columbia River Between Cascade Locks, OR and Stevenson, WA
30-Jun-22	1800-2130	OCSA Sailboat Race -SYSCO Summer Evening Series	Columbia River between I-5 and I-205 Bridges, Portland, OR

# MARINE EVENTS

Enclosure (3)

30-Jun-22	1000-1700	Columbia Gorge Racing Association RS Aero World Championship	Columbia River Between Cascade Locks, OR and Stevenson, WA
1-Jul-22	1000-1700	Columbia Gorge Racing Association RS Aero World Championship	Columbia River Between Cascade Locks, OR and Stevenson, WA
2-Jul-22	2130-2300	Independence Day fireworks at the Port	Ilwaco WA
3-Jul-22	2130-2300	Mill Creek Independence day Celebration	North Bend, OR
3-Jul-22	2130-2300	Waldport Fireworks	Bayshore Spit over Alsea Bay Waldport, OR
4-Jul-22	2130-2300	Lincoln City 4th of July	Salishan Spit, Lincoln City, OR
4-Jul-22	2130-2300	Florence Independence day Celebration	Port of Siuslaw end Harbor Street Florence OR
4-Jul-22	1930-2300	Bandon 4th of July	Bandon, OR
4-Jul-22	2130-2300	July 4th party at the port of Gold Beach	Gold Beach, OR
4-Jul-22	2130-2300	Waterfront Blues Festival	Willameter Rive; between Hawthorne and Marquam bridges
4-Jul-22	2130-2300	Waverly Country Club 4th of July	Willamette River 1100 SE Waverly Drive Portland, OR
5-Jul-22	1800-2130	OCSA Sailboat Race -SYSCO Summer Evening Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
7-Jul-22	1800-2130	OCSA Sailboat Race -SYSCO Summer Evening Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
9-Jul-22	1030-1730	Gorge Outrigger Canoe Race	Columbia River between Stevenson, WA and Bingen, WA
9-Jul-22	1030-1830	The Big Float	Willamette River; Portland Waterfront
10-Jul-22	1230-1630	OCSA Sailboat Race -PYC Summer Regatta	Columbia River between I-5 and I-205 Bridges, Portland, OR
11-Jul-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
12-Jul-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
14-Jul-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
16-Jul-22	2030-2300	Cathlamet Bald Eagle Days	Birnie Creek in Cathlamet
16-Jul-22	1230-1630	OCSA Sailboat Race -SYSCO Match Race	Columbia River between I-5 and I-205 Bridges, Portland, OR
17-Jul-22	1630-2130	OCSA Sailboat Race -PYC Family Night BC Race	Columbia River between I-5 and I-205 Bridges, Portland, OR
18-Jul-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
19-Jul-22	0830-1730	Columbia Gorge Racing Association US Optimist National Championship	Columbia River Between Cascade Locks, OR and Stevenson, WA
19-Jul-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
20-Jul-22	0830-1730	Columbia Gorge Racing Association US Optimist National Championship	Columbia River Between Cascade Locks, OR and Stevenson, WA
21-Jul-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR

# MARINE EVENTS

Enclosure (3)

21-Jul-22	0830-1730	Columbia Gorge Racing Association US Optimist National Championship	Columbia River Between Cascade Locks, OR and Stevenson, WA
22-Jul-22	0830-1730	Columbia Gorge Racing Association US Optimist National Championship	Columbia River Between Cascade Locks, OR and Stevenson, WA
23-Jul-22	0830-1730	Columbia Gorge Racing Association US Optimist National Championship	Columbia River Between Cascade Locks, OR and Stevenson, WA
24-Jul-22	1630-2130	OCSA Sailboat Race -RCYC Pirates Beer Can Race	Columbia River between I-5 and I-205 Bridges, Portland, OR
24-Jul-22	0830-1730	Columbia Gorge Racing Association US Optimist National Championship	Columbia River Between Cascade Locks, OR and Stevenson, WA
25-Jul-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
26-Jul-22	1800-2130	OCSA Sailboat Race -SYSCO Soaker	Columbia River between I-5 and I-205 Bridges, Portland, OR
26-Jul-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
27-Jul-22	1300-1630	OCSA Sailboat Race -Ranger 20 Nationals	Columbia River between I-5 and I-205 Bridges, Portland, OR
28-Jul-22	1300-1630	OCSA Sailboat Race -Ranger 20 Nationals	Columbia River between I-5 and I-205 Bridges, Portland, OR
28-Jul-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
29-Jul-22	0530-1830	Tri City Water Follies Columbia Cup	Columbia River, Kennewick, WA
29-Jul-22	1300-1630	OCSA Sailboat Race -Ranger 20 Nationals	Columbia River between I-5 and I-205 Bridges, Portland, OR
30-Jul-22	0530-1830	Tri City Water Follies Columbia Cup	Columbia River, Kennewick, WA
30-Jul-22	1300-1630	OCSA Sailboat Race -Ranger 20 Nationals	Columbia River between I-5 and I-205 Bridges, Portland, OR
31-Jul-22	0530-1830	Tri City Water Follies Columbia Cup	Columbia River, Kennewick, WA
31-Jul-22	1300-1630	OCSA Sailboat Race -Ranger 20 Nationals	Columbia River between I-5 and I-205 Bridges, Portland, OR
1-Aug-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
2-Aug-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
4-Aug-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
6-Aug-22	1330-1630	OCSA Sailboat Race -SYSCO Dual Bridge Duel & CC Cup	Columbia River between I-5 and I-205 Bridges, Portland, OR
6-Aug-22	1000-1700	Smoke on the Water Hobie Cat Regatta	Columbia River, Skamokawa, WA
7-Aug-22	1000-1700	Smoke on the Water Hobie Cat Regatta	Columbia River, Skamokawa, WA
8-Aug-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
9-Aug-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
11-Aug-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR



# MARINE EVENTS

Enclosure (3)

13-Aug-22	1030-1330	Swim the Snake	Snake River, within Lake Bryon near Lyons Ferry State Park, WA
13-Aug-22	1045-1600	OCSA Sailboat Race -SYSCO St. Helens Race & Cruise	Columbia River between I-5 and I-205 Bridges, Portland, OR
14-Aug-22	1045-1600	OCSA Sailboat Race -SYSCO St. Helens Race & Cruise	Columbia River between I-5 and I-205 Bridges, Portland, OR
15-Aug-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
16-Aug-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
18-Aug-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
20-Aug-22	1630-2100	OCSA Sailboat Race -CYC Sport Your Colors BC Race	Columbia River between I-5 and I-205 Bridges, Portland, OR
22-Aug-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
23-Aug-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
25-Aug-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
28-Aug-22	1630-2100	OCSA Sailboat Race -Cal 20 Mardi Gras BC Race	Columbia River between I-5 and I-205 Bridges, Portland, OR
29-Aug-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
30-Aug-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
1-Sep-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
5-Sep-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
10-Sep-22	1130-2100	OCSA Sailboat Race -RCYC Long Distance Race	Columbia River between Martin Slough, Woodland, WA and Willamette River, Portland Or
11-Sep-22	0900-2100	OCSA Sailboat Race -RCYC Long Distance Race	Columbia River between Martin Slough, Woodland, WA and Willamette River, Portland Or
12-Sep-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
17-Sep-22	1230-1630	OCSA Sailboat Race -SYSCO One-Design Races	Columbia River between I-5 and I-205 Bridges, Portland, OR
18-Sep-22	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
19-Sep-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
24-Sep-22	1530-2100	OCSA Sailboat Race -OWSA Out of the World BC Race	Columbia River between I-5 and I-205 Bridges, Portland, OR

# MARINE EVENTS

Enclosure (3)

25-Sep-22	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
26-Sep-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
1-Oct-22	1230-1630	OCSA Sailboat Race -PYC Robert A. Smith Regatta	Columbia River between I-5 and I-205 Bridges, Portland, OR
2-Oct-22	1230-1630	OCSA Sailboat Race -PYC Robert A. Smith Regatta	Columbia River between I-5 and I-205 Bridges, Portland, OR
2-Oct-22	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
9-Oct-22	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
16-Oct-22	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
23-Oct-22	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
30-Oct-22	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
6-Nov-22	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
13-Nov-22	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
20-Nov-22	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
27-Nov-22	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
4-Dec-22	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
11-Dec-22	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
18-Dec-22	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
25-Dec-22	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
1-Jan-23	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
8-Jan-23	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
15-Jan-23	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
22-Jan-23	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
29-Jan-23	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
5-Feb-23	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Columbia River between I-5 and I-205 Bridges, Portland, OR

# MARINE EVENTS

Enclosure (3)

12-Feb-23	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
19-Feb-23	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
26-Feb-23	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
5-Mar-23	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
12-Feb-23	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Columbia River between I-5 and I-205 Bridges, Portland, OR

## SECTOR PUGET SOUND MARINE EVENTS

EVENT DATE	TIME	EVENT NAME	EVENT LOCATION
13-Apr-22	1900-2130	Windseekers Series 2022	Commencement Bay, Dalco Passage
13-Apr-22	1800-2030	Wednesday Race Series	Port Townsend Bay
14-Apr-22	1800-2100	TTPYC Thursday Night Sailboat Race Series	Vashon Island from Three Tree Point south to the area adjacent to the Des Moines Marina and Redondo
14-Apr-22	1730-1930	Sequim Bay Duck Dodge Race	Sequim Bay, WA
15-Apr-22	1800-2030	Friday Sailing Series	Port Townsend Bay
16-Apr-22	1000-1800	Milltown Sailing Assn - Spring Regatta Sailboat Race	Port Gardner and Possession Sound
16-Apr-22	1000-2000	WSSA #3 Rich Passage Ramble	Sinclair Inlet, Rich Passage, Blake Island
16-Apr-22	0900-1700	CYC Spring Regatta (Big Boats)	Shilshole Bay
17-Apr-22	0900-1700	CYC Spring Regatta (Big Boats)	Shilshole Bay
19-Apr-22	1700-2100	CYC Tuesday Evening Series	Lake Washington
20-Apr-22	1700-2100	CYC Wednesday Evening Series	Lake Washington
20-Apr-22	1700-2100	CYC Wednesday Sound Evening Series	IVO Shilshole Marina
20-Apr-22	1900-2130	Windseekers Series 2022	Commencement Bay, Dalco Passage
20-Apr-22	1800-2030	Wednesday Race Series	Port Townsend Bay
21-Apr-22	1700-2100	CYC Thursday Sound Evening Series	IVO Shilshole Marina
21-Apr-22	1800-2100	TTPYC Thursday Night Sailboat Race Series	Vashon Island from Three Tree Point south to the area adjacent to the Des Moines Marina and Redondo
21-Apr-22	1730-1930	Sequim Bay Duck Dodge Race	Sequim Bay, WA
22-Apr-22	1800-2030	Friday Sailing Series	Port Townsend Bay
22-Apr-22	1800-2000	POYC Spring Fridays	Sinclair Inlet
23-Apr-22	0600-1800	Paddlers Cup	Gig Harbor
23-Apr-22	0900-1700	CYC Spring Regatta (Small Boats)	Shilshole Bay
24-Apr-22	1130-1300	TYC Daffodil Marine Festival Boat Parade	Commencement Bay
24-Apr-22	0600-1800	Paddlers Cup	Gig Harbor
24-Apr-22	0900-1700	CYC Spring Regatta (Small Boats)	Shilshole Bay
26-Apr-22	1700-2100	CYC Tuesday Evening Series	Lake Washington
27-Apr-22	1700-2100	CYC Wednesday Evening Series	Lake Washington
27-Apr-22	1700-2100	CYC Wednesday Sound Evening Series	IVO Shilshole Marina

# MARINE EVENTS

Enclosure (3)

27-Apr-22	1900-2130	Windseekers Series 2022	Commencement Bay, Dalco Passage
27-Apr-22	1800-2030	Wednesday Race Series	Port Townsend Bay
28-Apr-22	1700-2100	CYC Thursday Sound Evening Series	IVO Shilshole Marina
28-Apr-22	1800-2100	TTPYC Thursday Night Sailboat Race Series	Vashon Island from Three Tree Point south to the area adjacent to the Des Moines Marina and Redondo
28-Apr-22	1730-1930	Sequim Bay Duck Dodge Race	Sequim Bay, WA
29-Apr-22	1800-2030	Friday Sailing Series	Port Townsend Bay
29-Apr-22	1800-2000	POYC Spring Fridays	Sinclair Inlet
29-Apr-22	1700-2000	Lido14 Fun on Fridays	Commencement Bay, Tye Marina to Blair Waterway to Browns Point
30-Apr-22	1000-1800	Milltown Sailing Assn - Mid-Distance Series Sailboat Race	Port Gardner, Possession Sound, Saratoga Passage
30-Apr-22	0900-1700	East Sound Spring Regatta	East Sound, Orcas Island, WA
30-Apr-22	1000-2000	Smith Island/Double Bluff Race	Shilshole Bay to Smith Island and back



**Triton - Autonomous Underwater and Surface Vessel by Ocean Aero**





**Data Xplorer - Uncrewed Surface Vessel by Open Ocean Robotics**