



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

## LOCAL NOTICE TO MARINERS

**District: 13**

**Week: 23/22**

ISSUED BY: COMMANDER, THIRTEENTH COAST GUARD DISTRICT (dpw)  
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<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). LNM 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  
D13-0398-22

Ending BNM  
D13-0412-22

## 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 – CAPE SEBASTIAN TO HUMBURG MOUNTAIN – ROGUE RIVER – Shoaling and limited Coast Guard response capability**

The Coast Guard provides a seasonal Search and Rescue Detachment (SARDET) on the Rogue River in Gold Beach, Oregon. This unit exists to ensure the safety of the maritime community along the Southern Oregon Coast during periods of increased recreational vessel activity. Currently, significant shoaling is present in the Rogue River and mariners will experience shallower water depths than normal and shallower than charted. During most tidal conditions, the shoaling is preventing the Coast Guard from operating vessels in the river and entrance due to insufficient water depth. USCG Station Chetco River will continue to site a response vessel at Rogue River as often as practicable with respect to available water depth. Additional Search and Rescue response, such as outside the mouth of the river and helicopter operations will continue to be provided from Station Chetco River and Sector North Bend. Dredging at the entrance of the river and in the federal channel is scheduled to begin on or about 08 Jun 2022. During dredging operations, the dredge, barge, support vessels and additional equipment may significantly block the channel. Mariners are encouraged to keep a safe distance from all dredging operations.

Chart 18601

LNM: 23/22

#### **OREGON – PORT OF PORTLAND – WILLAMETTE RIVER – Barge launch**

Gunderson Marine is launching a new barge at their facility on the Willamette River on 24 Jun 2022. The 315-ft barge will be launched between 1530 – 1830 on 24 Jun on the west side of the Willamette near RM 9 in approximate location 45-33-21N, 122-43-08W. A Shaver Transportation tug will be positioned at both the north and south ends of the launch location to assist with launch and ensure a clear waterway. Additionally, three small workboats will be on site to clear any debris following the launch. For more information, contact Jim Pinckney at (503) 522-2006 (cell) or (503) 972-5766 (office).

Chart 18526

LNM: 23/22

#### **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. However, during the Rose Festival Week, this rule change does not apply and the Morrison Bridge will operate normally, as outlined in 33 CFR 117.897. 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: 23/22

#### **WASHINGTON – LAKE WASHINGTON SHIP CANAL AND LAKE UNION– Ballard, Fremont and University Bridges notice**

The Coast Guard has issued a temporary deviation from the operating schedule that governs three Seattle DOT bridges that cross the Lake Washington Ship Canal in Seattle, WA: the Ballard Street Bridge (LLNR 18180), mile 1.1, the Fremont Street Bridge (LLNR 18182), mile 2.6, and the University Street Bridge (LLNR 18235), mile 4.3. The deviation is necessary to accommodate heavier than normal roadway traffic associated with a fireworks display over Lake Union. The bridges will remain in the closed-to-navigation position prior to and after the fireworks display. To facilitate this event, the draws of these bridges will be maintained in the closed-to-navigation positions as follows:

- The Fremont Street Bridge need not open to marine vessels from 2200 on 04 Jul to 0130 on 05 Jul 2022;
- The Ballard Street and University Street Bridges need not open to marine vessels from 2130 on 04 Jul to 0130 on 05 Jul 2022.

Vessels which do not require bridge openings may continue to transit beneath these bridges during the closure periods. The lift spans will be required to open, if needed, for vessels engaged in emergency response operations during this closure period. In accordance with 33 CFR 117.35(e), the drawbridges must return to their regular operating schedule immediately at the end of the designated time period. For additional information, contact Kit Loo at (206) 684-3669.

Chart 18447

LNM: 23/22

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

The Coast Guard intends to approve a temporary deviation from the normal operating schedule that governs the Montlake Street Bridge (LLNR 18240) across the Lake Washington Ship Canal, mile 5.2. The Montlake Bridge need not open the draw for marine vessels during heavy road traffic for the University of Washington football games on the following dates and times:

- 03 Sep 2022, 1700 to 1930 and 2200 to 0100;
- 10 Sep 2022, 1030 to 1300 and 1600 to 1800;
- 17 Sep 2022, 1400 to 1630 and 1930 to 2200;
- 24 Sep 2022, TBA at a later date;
- 15 Oct 2022, TBA at a later date;
- 04 Nov 2022, 1700 to 1930 and 2230 to 0100;
- 19 Nov 2022, TBA at a later date.

The deviation is necessary to accommodate vehicular traffic attending football games at Husky Stadium at the University of Washington, in Seattle, Washington. This deviation will allow the Montlake Bridge to remain in the closed-to-navigation position before and after each game. 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 which do not require a bridge opening may continue to transit beneath this bridge during the closure. The bridge will be required to open, if needed, for vessels engaged in emergency response operations during this closure period. The Coast Guard will publish any updates or changes to this operating schedule in future LNM publications, once game times are announced. If any mariner has an objection to any of the bridge closure times, please submit a comment to d13-smb-d13-bridges@uscg.mil by 24 Jun 2022.

Chart 18447

LNM: 23/22

#### **WASHINGTON – STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA – HALE PASSAGE – Marine construction**

American Construction Co. will be replacing the breakwater near the Lummi Island Ferry terminal from 01 Aug to 12 Oct 2022. The work consists of removing the old breakwater and replacing with a larger, 125-ft breakwater and includes some rock drilling. Operations will usually be conducted from 0700-1530 on Monday – Friday in approximate location 48-43-13.950N, 122-40-50.410W. The derrick barge Palouse will be on site with barges Skagit and Chelan, and can be reached on VHF-FM channel 16 or cell phone (425) 238-3144. Mariners are requested to maintain at least 100 yards from the operation. For more information contact Rob Pate at (425) 238-3144, or email robp@americanconstco.com.

Chart 18421

LNM: 23/22

#### **WASHINGTON – PUGET SOUND – SEATTLE TO BREMERTON – ELLIOTT BAY / DUWAMISH RIVER – Tribal fisheries**

The Muckleshoot Tribe have started gillnet steelhead fishing operations in Elliott Bay and on the lower Duwamish River as of 01 Jun 2022 and this fishery will remain open until approximately 01 Jul 2022. The operations will take place in Elliott Bay east of a line drawn from Pier 91 to Duwamish Head Light (LLNR 16910) and in both waterways of the Duwamish River. Although this fishery is not expected to cause congestion on the waterway, mariners are still advised to use caution while transiting the area. For more information, contact Coast Guard Sector Puget Sound Waterways Management at (206) 217-6051 or the Muckleshoot Tribal Enforcement at (253) 876-2927.

Chart 18450

LNM: 22/22

#### **WASHINGTON – PUGET SOUND – SEATTLE TO BREMERTON – DUWAMISH WATERWAY – Spokane Street Bridge deviation**

The Coast Guard has cancelled an approved temporary deviation for the Spokane Street Bridge (LLNR 16870.1) across the Duwamish Waterway, mile 0.3, in Seattle, WA, that was scheduled for 03 Jun – 27 Aug 2022. Due to construction delays, the contractor has requested new dates for a temporary deviation, as outlined below. This deviation will support multiple events to make repairs and upgrades for the subject bridge. The work will begin with assembling scaffolding, and followed by installing scaffolding with the use of a barge and UBIT truck. A 60 ft wide X 200 ft long crane barge will be used during the first two weeks of June lifting scaffolding up to the bridge and during the last two weeks of August to remove the scaffolding. A second service barge will be on site but outside of the channel. Two service tugs will be on site as well. The tugs and barges can be hailed using VHF channel 13. 82 of the 250 feet of horizontal clearance will be reduced while installing and removing scaffolding on the east and west side. After the platform has been installed, a total of 24 feet (11 ft west side and 13 ft east side) of horizontal clearance will be reduced. Scaffolding will be lighted with amber flashing lights. The vertical clearance will be reduced from 44 feet to 27 feet on the sides of the Spokane Street Bridge. The center vertical clearance will not be reduced during this deviation period. Vertical and horizontal clearances are referenced to mean high-water elevation. The horizontal and vertical clearances will only be impacted while the bridge is in the closed-to-navigation position. Mariners transiting the construction area are advised to not put out any wake, and fall hazards will be present. The Coast Guard will be approving a safety zone for the Duwamish Waterway in the vicinity of the Spokane Street Bridge. Vessels able to pass through the

subject bridge in the closed-to-navigation position may do so at any time. No alternate route is available on the Duwamish Waterway. The following are the deviation dates and times:

2300 on 24 Jun 22 – 0700 on 25 Jun 22 (cannot open for emergency response);  
2300 on 08 Jul 22 – 0700 on 09 Jul 22 (cannot open for emergency response);  
2300 on 10 Jul 22 – 0700 on 23 Sep 22 (two hour minimum notice for bridge opening, 20 minute notice for emergency response);  
2300 on 23 Sep 22 – 0700 on 24 Sep 22 (cannot open for emergency response);  
2300 on 29 Sep 22 – 0700 on 30 Sep 22 (cannot open for emergency response);

If any mariner cannot support the dates and times for this temporary bridge deviation, please submit comments to d13-smb-d13-bridges@uscg.mil by 15 Jun 22.

Chart 18450

LNM: 22/22

#### **WASHINGTON – PUGET SOUND – GPS testing**

GPS testing is scheduled to be conducted encompassing the southern Puget Sound region and portions of the Lower Columbia River and Grays Harbor on 03 – 16 Jun 2022 at a testing center point of 46-57-04.8 N, 122-40-47.6 W, with a possible impact radius of 67 nm at 50 feet above ground level from center point. 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. More information is available at the Coast Guard Navigation Center website [www.navcen.uscg.gov](http://www.navcen.uscg.gov). During this period, GPS users are encouraged to report any GPS service outages that they may experience to the navigation information service (NIS) by calling (703) 313-5900 or by using the NAVCEN website to submit a GPS problem report.

LNM: 22/22

#### **OREGON – PORT OF PORTLAND – WILLAMETTE RIVER – Bank stabilization work**

Anderson Construction will conduct bank restoration work on the Willamette River from 15 Jun to 31 Oct 2022. The work site is on the western shore of the Willamette River south of the Ross Island Highway Bridge (LLNR 14959.7) near RM 14.4 in approximate location 45-29-41 N, 122-40-06 W. A turbidity curtain will be installed via barge on 15 Jun and then demobilized at the end of the project. Once the turbidity curtain is installed, all work will be done shoreside of the turbidity curtain. For more information, contact the Project Engineer David Knudsen at (503) 702-6969 or email at [dknudsen@andersen-const.com](mailto:dknudsen@andersen-const.com)

Chart 18526

LNM: 21/22

#### **OREGON – WILLAMETTE RIVER – PORTLAND TO WALNUT EDDY – Bridge construction notice (Revised from LNM 20/22)**

Kiewit Construction will begin a seismic upgrade construction project on the I-205 Highway Bridge (LLNR 15078) AKA, Abernethy Bridge across the Willamette River at RM 25.6, from 20 Jun 22 to 01 Oct 25. The construction activity will take place across the entire river at the bridge. Construction personnel will be working 24 hours a day Monday through Saturday. Bridge construction work will include the installation of multiple temporary work platforms across sections of the river. All river traffic will be restricted to a temporary navigational channel with horizontal clearance of 150 feet wide and vertical clearance of 51.8 feet high at ordinary high water (OHW), or 76.0 feet high at Columbia River Datum (CRD). The temporary navigation channel will be marked with floating buoys with flashing lights to match buoy type (red nun and green can navigational buoys and white can informational buoys, each with matching color lights flashing at 4-second intervals). Crews will be using floating cranes and barges, attended by tugs throughout the site. All vessels will monitor VHF channels 13 and 16. Barges will be marked on each corner with a white light flashing at 6-second intervals. Each corner of the multiple trestles will also be marked at each corner with a white light flashing at 6-second intervals. Signage on the trestles will communicate the safe distance from the work zone. For an overview of the work site and navigation channel, see Enclosure (4) of this LNM. For more information contact Kiewit Construction, Ritch Schubert, at (503) 710-2277 or email [ritsch.schubert@kiewit.com](mailto:ritsch.schubert@kiewit.com).

LNM: 21/22

#### **WASHINGTON – STRAIT OF JUAN DE FUCA – SWIFTSURE BANK – ECHO Program 2022 Voluntary Vessel Slowdown trial at Swiftsure Bank**

Effective 01 Jun 2022, the Enhancing Cetacean Habitat and Observation (ECHO) Program voluntary vessel slowdown trial in the vicinity of Swiftsure Bank is in effect for all inbound and outbound commercial and government vessels. If it is safe and operationally feasible to do so, commercial and government vessels are requested to not exceed the following speeds through the water:

11 knots – Bulk carriers, tankers, general cargo vessels, and government vessels; and,

14.5 knots – Vehicle carriers, cruise ships, and container vessels.

The voluntary vessel slowdown trial takes place in the inbound and outbound lanes of the vessel traffic separation scheme between the start or end of the traffic separation scheme on the western or southern side, and the 124-40-00 W longitudinal line (radio call in point 1) on the eastern side. Speed transition zones are in place about 5 nautical miles prior to entering the slowdown area.

The ECHO Program voluntary slowdown trial in Swiftsure Bank aims to reduce underwater noise in known southern resident killer whale feeding areas. This initiative will remain in effect 24 hours per day until 2359 PDT on 31 Oct 22. The voluntary slowdowns at Swiftsure Bank and in Haro Strait and Boundary Pass are led by the Vancouver Fraser Port Authority's ECHO (Enhancing Cetacean Habitat and Observation) program, in cooperation with government agencies, Indigenous communities, industry partners and environmental groups. For more detailed information related to this slowdown trial and the ECHO program, refer to the following internet web address:

<https://www.portvancouver.com/environmental-protection-at-the-port-of-vancouver/maintaining-healthy-ecosystems-throughout-our-jurisdiction/echo-program/projects/swiftsure-bank-slowdown/>

Chart 18460

LNM: 21/22

#### **WASHINGTON – STRAIT OF JUAN DE FUCA – Port of Vancouver Canada 2022 Voluntary Lateral Displacement**

As of 01 Jun 22, the Enhancing Cetacean Habitat and Observation (ECHO) Program voluntary inshore lateral displacement is in effect for all tugs

transiting the Canadian inshore area of the Strait of Juan de Fuca. If it is safe and operationally feasible to do so, tugs are requested to move south of the known killer whale feeding area and navigate either through the outbound shipping lane or the inshore lateral displacement zone, while maintaining a buffer distance of 1,000 meters from the traffic separation scheme (TSS). The inshore lateral displacement zone is 1,500 meters wide and occurs in the area between 123-52-21.192 W, 48-18-37.332 N and 124-31-33.378 W, 48-28-53.316 N, covering a distance of approximately 28 NM. The ECHO Program voluntary lateral displacement initiative aims to reduce underwater noise in known southern resident killer whale feeding areas along the northern edge of the Strait of Juan de Fuca. This initiative will remain in effect 24 hours a day through 31 Oct 22. For more detailed information related to lateral displacement and the ECHO program, visit the following web address: <https://www.portvancouver.com/environmental-protection-at-the-port-of-vancouver/maintaining-healthy-ecosystems-throughout-our-jurisdiction/echo-program/projects/lateral-displacement/>

Chart 18460

LNM: 21/22

#### WASHINGTON – STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA – CAP SANTE WATERWAY AND PADILLA BAY – Diving operations

Natural Resources Consultants and Northwest Straits Foundation will conduct WDFW-approved surface supplied air dive operations to remove derelict crab pots from the Anacortes, Guemes Island, and Padilla Bay areas from 23 May to 15 Jul 2022. Dive operations will take place from 0800-1600 daily from the 30 foot F/V Cadence, loaded with surface supplied air divers and full complement of surface supplied air diving equipment. The southern portion of the operation consists of the waters offshore of Anacortes from Cap Sante Marina to Hat Island, including the northern section of the Swinomish Channel entrance. The northern section includes the northern region of Padilla Bay, from Saddlebag Island to William Point. F/V Cadence will monitor VHF-FM Channel 16. Mariners operating in this area are requested to remain at least 100 yards from vessel during dive operations. For more information, contact the project POCs Kyle Antonelis at (206) 355-9358, kantonelis@nrccorp.com, or Joan Drinkwin at (360) 820-3323, jdrinkwin@nrccorp.com.

Charts: 18421 18424 18427

LNM: 21/22

#### WASHINGTON – STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA – BOUNDARY PASS – Oceanographic research

The University of Washington will be conducting oceanographic research in the vicinity of Sandy Point, Waldron Island, WA, between 20 Jun – 04 Jul 22. Operations will include deployment of a temporary surface mooring in location 48-41-40.860 N, 123-05-04.782 W. The work will be conducted off the R/V Jack Robertson, which will monitor VHF-FM channels 13, 14 and 16. The mooring will be installed during extended operational periods, limited to no more than 5 days, and will consist of a small, yellow, lighted surface float (1m diameter or less). The surface float will have a FL Y 4s light and yellow reflective tape. Mariners are requested to keep a safe distance when in the vicinity of the research vessel and scientific assets in the area. For more information contact University of Washington POCs Alex Fisher at (443) 477-7447 or afisher1@uw.edu, or Jim Thomson at (206) 999-6908 or jthomson@apl.washington.edu.

Chart 18421

LNM: 21/22

#### WASHINGTON – LAKE WASHINGTON SHIP CANAL – UNION BAY REACH - Montlake Bridge notice (Revised from LNM 15/22)

The Coast Guard has approved a change to the temporary deviation from the operating schedule that governs the Montlake 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 previously was authorized to not open for marine vessels from 1030 to 1430 and from 1630 to 1830 on 11 Jun and 12 Jun 2022. This approval change authorizes the draw of the subject bridge to not open for marine vessels for the following dates and times:

11 Jun 2022: 1030 – 1430; 1630 – 1830;

12 Jun 2022: 1130 – 1530; 1730 – 1930.

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.

Chart 18447

LNM: 20/22

## 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.

### DISCREPANCIES (FEDERAL AIDS)

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
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	
765.5	NOAA Environmental Lighted Buoy 46005	LT EXT	18007	0197-20	08/20	
<b>9295</b>	<b>Salmon Harbor Entrance Light 2</b>	<b>LT EXT</b>	<b>18584</b>	<b>0412-22</b>	<b>23/22</b>	

<b>9817</b>	<b>Tillamook Bay Entrance Lighted Bell Buoy 2</b>	<b>LT EXT</b>	<b>18558</b>	<b>0401-22</b>	<b>23/22</b>
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
10715	Cleaveland Dike Light 3	LT EXT	18524	0392-22	22/22
11430	Fisher Quarry Channel Range Front Light	LT IMCH	18531	0289-22	17/22
11465	Government Island Range Front Light	REDUCED INT	18531	0325-22	19/22
11490	Lady Island Range Front Light	REDUCED INT	18531	0324-22	19/22
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
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
16405	Puget Sound Traffic Separation Lane Lighted Buoy SA	REDUCED INT	18471	0367-22	21/22
17360	Nisqually Flats Light 3	STRUCT DEST/TRLB	18448	0404-21	24/21
18710	Oak Harbor Light 11	STRUCT DEST/TRLB	18428	0652-21	39/21

#### DISCREPANCIES (FEDERAL AIDS) CORRECTED

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
8845	Coos Bay Range B Front Light	RELIGHTED	18587	None	23/22	23/22
9895	Columbia River Entrance Range Front Light	WATCHING PROPERLY	18521	None	23/22	23/22
11870	Wind Mountain Upper Range Front Light 26	WATCHING PROPERLY	18532	0399-22	20/22	23/22

#### DISCREPANCIES (PRIVATE AIDS)

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
10811	Lewis And Clark Bridge Approach Buoy 1	OFF STA	18524	0390-22	22/22	
10813	Lewis And Clark Bridge Approach Buoy 3	OFF STA	18524	0391-22	22/22	
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	

#### DISCREPANCIES (PRIVATE AIDS) CORRECTED

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
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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

### 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.

#### 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	
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	TRLB	18428	0287-22	17/22	

#### 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 at 40-41-09.001N 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.

**18429**      **11th Ed.**      **01-MAY-14**      **Last LNM: 39/17**      **NAD 83**      **23/22**

Chart Title: Rosario Strait-southern part

Main Panel 1682 ROSARIO STRAIT SOUTH PART. Page/Side: N/A

LAST EDITION No new editions of chart 18429 will be published. It will be canceled on 05-Oct-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

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**18430**      **9th Ed.**      **01-JUL-10**      **Last LNM: 39/17**      **NAD 83**

**23/22**

Chart Title: Rosario Strait-northern part

**Main Panel 1683 ROSARIO STRAIT NORTH PART. Page/Side: N/A**

LAST EDITION No new editions of chart 18430 will be published. It will be canceled on 05-Oct-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 --

**18432 7th Ed. 01-SEP-13 Last LNM: 44/13 NAD 83 23/22**

*ChartTitle: Boundary Pass*

**Main Panel 1685 BOUNDARY PASS. Page/Side: N/A**

LAST EDITION No new editions of chart 18432 will be published. It will be canceled on 05-Oct-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 --

**18433 6th Ed. 01-APR-05 Last LNM: 42/17 NAD 83 23/22**

*ChartTitle: Haro-Strait-Middle Bank to Stuart Island*

**Main Panel 1686 HARO STRAIT MIDDLE BANK TO STUART ISLAND. Page/Side: N/A**

LAST EDITION No new editions of chart 18433 will be published. It will be canceled on 05-Oct-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 --

**18434 7th Ed. 01-APR-08 Last LNM: 40/17 NAD 83 23/22**

*ChartTitle: San Juan Channel*

**Main Panel 1941 SAN JUAN CHANNEL. Page/Side: N/A**

LAST EDITION No new editions of chart 18434 will be published. It will be canceled on 05-Oct-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 --

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

*ChartTitle: Puget Sound-Hammersley Inlet to Shelton*

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

CANCELED Chart 18457 is canceled. No Print-on Demand or digital raster formats of this chart are available. 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 --

**18477 6th Ed. 01-SEP-18 Last LNM: 09/17 NAD 83 23/22**

*ChartTitle: Puget Sound-Entrance to Hood Canal*

**Main Panel 1938 PUGET SOUND ENTRANCE TO HOOD CANAL - -. Page/Side: -**

LAST EDITION No new editions of chart 18477 will be published. It will be canceled on 05-Oct-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 --

**18504 66th Ed. 01-JUL-06 Last LNM: 29/17 NAD 83 23/22**

*ChartTitle: Willapa Bay;Toke Pt.*

**Main Panel 1734 WILLAPA BAY. Page/Side: N/A**

LAST EDITION No new editions of chart 18504 will be published. It will be canceled on 05-Oct-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 23/22**

*ChartTitle: Nehalem River*

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



CANCELED	Chart 18556 is canceled. No Print-on Demand or digital raster formats of this chart are available. 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 <a href="https://www.charts.noaa.gov/MCD/Dole.shtml">https://www.charts.noaa.gov/MCD/Dole.shtml</a> .	NOS --	--
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**18580      24th Ed.      01-FEB-18      Last LNM: 30/20      NAD 83      23/22**

*ChartTitle: Cape Blanco to Yaquina Head*

**Main Panel 1791 CAPE BLANCO TO YAQUINA HEAD --. Page/Side: -**

ADD	Pacwave North Spotter Lighted Buoy A "A" Ylw Priv FI W 2.5s	CGD13 at 44-40-54.480N	124-08-39.840W
ADD	Pacwave North Spotter Lighted Buoy B "B" Ylw Priv FI W 2.5s	CGD13 at 44-41-21.120N	124-08-40.560W
ADD	Pacwave North Spotter Lighted Buoy C "C" Ylw Priv FI W 2.5s	CGD13 at 44-41-49.920N	124-08-43.330W
ADD	Pacwave South Research Lighted Buoy Ylw Priv FI W 2.5s	CGD13 at 44-34-00.000N	124-13-58.800W
ADD	Pacwave South Spotter Lighted Buoy N "N" Ylw Priv FI W 2.5s	CGD13 at 44-34-15.000N	124-13-58.800W
ADD	Pacwave South Spotter Lighted Buoy S "S" Ylw Priv FI W 2.5s	CGD13 at 44-33-45.000N	124-13-58.800W

**18589      16th Ed.      01-OCT-07      Last LNM: 38/17      NAD 83      23/22**

*ChartTitle: Port Orford to Cape Blanco;Port Orford*

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

CANCELED	Chart 18589 is canceled. No Print-on Demand or digital raster formats of this chart are available. 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 <a href="https://www.charts.noaa.gov/MCD/Dole.shtml">https://www.charts.noaa.gov/MCD/Dole.shtml</a> .	NOS --	--
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## 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

**Approved Project(s)**  
None

**Project Date**      **Ref. LNM**

**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.  
South Willapa Bay Light 7 (LLNR 15410) the high intensity beam 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: 19/22

#### WASHINGTON – WILLAPA BAY - Disestablishment of Willapa Bay Lighted Buoy “C” and Buoy “D” (Revised from LNM 16/22)

The U.S. Coast Guard has permanently disestablished 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. The projected approximate locations are:

Willapa Bay V-AIS “A”, a special purpose AIS marking good water at 46-44-18.4N 124-06-21.9W  
Willapa Bay V-AIS “B”, a special purpose AIS marking good water at 46-43-34.4N 124-03-52.7W

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: 18/22

#### 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)

Puget Sound Traffic Separation Lane Lighted Buoy “SA” (LLNR 16405), the RACON has been permanently discontinued

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

#### 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 will be removing 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)

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: 16/22

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### 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).

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#### PROPOSED WATERWAY PROJECTS OPEN FOR PUBLIC COMMENT

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

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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.

### **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: 23/22

### **SUMMARY OF DREDGING OPERATIONS**

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

LNM: 23/22

### **SUMMARY OF MARINE EVENTS**

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

LNM: 23/22

### **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.

Chart 18561

LNM: 12/22

### **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 supports 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 kwagner@UP.COM.

Chart 18526

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 –SR-197 Highway Bridge notice (Revised from LNM 31/21)**

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 approximately 01 Dec 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: 23/22

**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

**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.

LNM: 14/22

**WASHINGTON – COWLITZ RIVER – Bridge notice**

Utility work will be performed on State Route 411 Castle Rock Bridge located in Castle Rock, WA, across the Cowlitz River at river mile 17.4. Cable replacement will take place from 01 Jun - 01 Aug 22, Monday through Friday between 0700 – 1700 daily. The cable replacement will be performed using an under-bridge inspection truck (UBIT) that occupies a portion of the roadway on the subject bridge. The UBIT will be the give way vessel, but mariners are advised to use caution while transiting the area and not transit directly underneath the UBIT. The SR-411 Bridge has a vertical clearance of 8.6 feet at high tide. The UBIT requires 5 to 10 feet of vertical clearance under the bridge at high tide, therefore mariners should expect no clearance in the vicinity of the UBIT. The subject bridge provides 28 feet of vertical clearance at low tide. The UBIT can lower the vertical clearance to 18 feet at low tide. The UBIT will be equipped with a flashing amber light. For additional information, contact Mark Guz at (360) 518-4464 or mark.guz@lumen.com.

LNM: 17/22

**WASHINGTON – PUGET SOUND – SEATTLE TO BREMERTON – DUWAMISH WATERWAY – Bridge emergency deviation  
(Revised from LNM 16/22)**

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. Repairs to the bridge are taking longer than anticipated as some necessary parts are being fabricated, and the Coast Guard has extended the emergency deviation until 26 Aug 2022. If repairs are completed sooner, the deviation will be cancelled. 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.

Chart 18450

LNM: 19/22

**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

**WASHINGTON – EVERETT HARBOR – SNOHOMISH RIVER – Bridge Inspection**

WSDOT will be inspecting the SR 529 Bridges (LLNR 18591.2 south bound, and LLNR 18591.3 north bound) across the Snohomish River at river mile 3.7 near Everett, WA. The inspections will take place between 0800 – 1500 daily on 18 – 22 Jul 22, and 25 – 28 Jul 22. The bridges will be inspected

**WASHINGTON – EVERETT HARBOR – SNOHOMISH RIVER – Bridge Inspection**

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. The UBIT bucket will have a flashing amber light on the bottom and a safety lookout will be on the bridge. Bridge openings will not be impacted. For additional information, contact Alan Kuper, P.E. at (360) 701-0556 or kupera@wsdot.wa.gov.

Chart 18444

LNM: 17/22

**WASHINGTON – EVERETT HARBOR – STEAMBOAT SLOUGH – Bridge Inspection**

WSDOT will be inspecting the SR 529 Bridges (LLNR 18594.9 south bound, and LLNR 18594.11 north bound) across Steamboat Slough at river mile 1.1 and 1.2 near Marysville, WA. The inspections will take place between 0800 – 1500 daily on 18 – 22 Jul 22, and 25 – 28 Jul 22. The bridges 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. The UBIT bucket will have a flashing amber light on the bottom and a safety lookout will be on the bridge. Bridge openings will not be impacted. For additional information, contact Alan Kuper, P.E. at (360) 701-0556 or kupera@wsdot.wa.gov.

Chart 18444

LNM: 17/22

**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, or Dan Hellin at (541) 745-8337 and dan.hellin@oregonstate.edu.

Chart 18580

LNM: 49/21

**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 have commenced on and 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 starting on 19 Apr 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

**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)  
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), set on 5/10/2022  
Lake Celilo Buoy 45 (LLNR 12360), set on 9/28/2022  
Lake Wallula Lighted Buoy 2 (LLNR 12815), set on 10/04/2021  
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), set on 5/24/2022  
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: 21/22

**COLUMBIA RIVER – PACIFIC OCEAN TO HARRINGTON POINT – HARRINGTON POINT – WOODY ISLAND CHANNEL – Current measuring buoy**

**COLUMBIA RIVER – PACIFIC OCEAN TO HARRINGTON POINT – HARRINGTON POINT – WOODY ISLAND CHANNEL – Current measuring buoy**

NOAA has deployed a yellow, oceanographic data collection buoy to measure currents in Woody Island Channel about 1500 yards SE of Harrington Point Channel LB 54 (LLNR 10190), in approximate position 46-14-15.288 N, 123-41-09.528 W. The buoy has a yellow light with a group flashing (5) every 20 seconds characteristic. The buoy will be deployed until the end of Sep 2022. For more information, contact Drew Maczko, at (206) 526-6918 or email at drew.maczko@noaa.gov.

Chart 18521

LNM: 16/22

**COLUMBIA RIVER – PACIFIC OCEAN TO HARRINGTON POINT – NORTH CHANNEL – Current measuring buoy**

NOAA has deployed a yellow, oceanographic data collection buoy to measure currents in the Columbia River North Channel between Grays Point Light 13 (LLNR) and Portuguese Point Daybeacon 14A near the entrance to Grays Bay, in approximate position 46-16-26.076 N, 123-45-24.480 W. The buoy has a yellow light with a group flashing (5) every 20 seconds characteristic. The buoy will be deployed until the end of Sep 2022. For more information, contact Drew Maczko, at (206) 526-6918 or email at drew.maczko@noaa.gov.

Chart 18521

LNM: 16/22

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

USACE has deployed 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 (F 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

Chart 18543

LNM: 14/22

**OREGON – PORT OF PORTLAND – WILLAMETTE RIVER – Swan Island Basin geotechnical drilling**

Gregg Drilling and Testing will be conducting Overwater Geotechnical Investigations from 09 May thru 15 Jun 2022 from 0700 – 1900 daily in the Swan Island Basin in approximate locations 45-34-03 N, 122-43-45 W and 45-33-44 N, 122-42-28 W. The R/V Quin Delta will be conducting the drill operations and monitoring channels VHF-FM channels 16 and 13. Mariners are advised to use caution when transiting the area. For further information, comments or details contact Captain Tim O'Donnell at (949) 254-5190 or e-mail at BEARatSEA@gmail.com.

Chart 18526

LNM: 19/22

**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 Vavrinc, at (360) 681-3665 or email john.vavrinc@pnnl.gov.

Chart 18471

LNM: 11/22

**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.

Chart 18471

LNM: 13/22

**WASHINGTON – PUGET SOUND – HOOD CANAL – Naval Test and Evaluation Barge operations (Revised from LNM 10/22)**

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 have been extended from the original schedule and are now planned from sunrise until sunset, Monday through Friday until 27 Jun 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-FM Channels 16 or 88A or the Naval Surface Warfare Center waterfront POCs Mark Moss (360) 396-2948 or Steve Polillo (360) 315-0333.

Chart 18458

LNM: 19/22

**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

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

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 – 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 inquiries to WSF Communications at (206) 402-8070 or email [wsfcomms@wsdot.wa.gov](mailto: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](mailto:jgalligan@orionmarinegroup.com).

Chart 18450

LNM: 02/22

**WASHINGTON – LAKE WASHINGTON SHIP CANAL – LAKE WASHINGTON – Outfall pipe**

Mariners should be aware of a new, permanent outfall pipe that has been installed at The Boeing Company's Renton manufacturing facility at the southern end of Lake Washington. The terminus of the outfall extends approximately 52 feet into the lake at the northeast corner of the Boeing property at an approximate position of 47-30-12.0 N and 122-12-25.2 W. The water depth from the top of the outfall varies from 7.5 to 9.2 feet below low lake level. For additional information about this outfall and its location, contact Mark Clement (425) 229-4279 or email at [mark.d.clement@boeing.com](mailto:mark.d.clement@boeing.com).

Chart 18447

LNM: 17/22

**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 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>.

LNM: 15/22

**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

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

NOAA is in the process of "sunseting" 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

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

are now ONLY applied to NOAA ENC's 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

**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
651.1	<i>Pacwave South Spotter Lighted Buoy S</i>	44-33-45.000N 124-13-58.800W	Fl W 2.5s			Yellow sphere buoy.	Private Aid. 23/22
*	*	*	*	*	*	*	*
651.2	<i>Pacwave South Research Lighted Buoy</i>	44-34-00.000N 124-13-58.800W	Fl W 2.5s			Yellow tower buoy.	Private Aid. 23/22
*	*	*	*	*	*	*	*
651.3	<i>Pacwave South Spotter Lighted Buoy N</i>	44-34-15.000N 124-13-58.800W	Fl W 2.5s			Yellow sphere buoy.	Private Aid. 23/22
*	*	*	*	*	*	*	*
654.1	<i>Pacwave North Spotter Lighted Buoy A</i>	44-40-54.480N 124-08-39.840W	Fl W 2.5s			Yellow sphere buoy.	Private Aid. 23/22
*	*	*	*	*	*	*	*
654.2	<i>Pacwave North Spotter Lighted Buoy B</i>	44-41-21.120N 124-08-40.560W	Fl W 2.5s			Yellow sphere buoy.	Private Aid. 23/22
*	*	*	*	*	*	*	*
654.3	<i>Pacwave North Spotter Lighted Buoy C</i>	44-41-49.920N 124-08-43.330W	Fl W 2.5s			Yellow sphere buoy.	Private Aid. 23/22
*	*	*	*	*	*	*	*

**ENCLOSURES****Enclosure 1**

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

LNM: 23/22

**Enclosure 2**

OREGON - WASHINGTON - COLUMBIA RIVER - Summary of Dredging Operations

LNM: 23/22

**Enclosure 3**

OREGON - WASHINGTON - COLUMBIA RIVER - Summary of Marine Events

LNM: 23/22

**Enclosure 4**

OREGON – WILLAMETTE RIVER – PORTLAND TO WALNUT EDDY – Abernethy Bridge navigational diagram

LNM: 21/22

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						
<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>
2-Jun-22	16-Jun-22	24 Hrs / 7 Days	Chetco River; Entrance (RM -00+05 to 00+17)	M/V Yaquina	None	VHF-FM 13 &16	BERM (NS) ODMDS	22/20
1-Jun-22	11-Jun-22	24 Hrs / 7 Days	Rogue River; Entrance Channel (RM 00-35 to 00+00)	Patriot, Snohomish	Lummi Island Cassie Lind Regulator	VHF-FM 13 &16	ODS	20/22
12-Jun-22	30-Jun-22	24 Hrs / 7 Days	Rogue River; Entrance Channel (RM 00+00 to 00+10)	Patriot, Snohomish	Lummi Island Cassie Lind Regulator	VHF-FM 13 &16	ODS	20/22
1-Jul-22	23-Jul-22	24 Hrs / 7 Days	Rogue River; Boat Basin Access Channel (RM 00+03+17 to 00+21+00)	Patriot, Snohomish	Lummi Island Cassie Lind Regulator	VHF-FM 13 &16	ODS	20/22
24-Jul-22	24-Aug-22	24 Hrs / 7 Days	Rogue River; Gravel Bar (RM 00+00 to 16+37)	Patriot, Snohomish	Lummi Island Cassie Lind Regulator	VHF-FM 13 &16	ODS	20/22
2-Jun-22	16-Jun-22	24 Hrs / 7 Days	Coquille River (RM -00+10 to 00+35)	M/V Yaquina	None	VHF-FM 13 &16	ODMDS	22/22
2-Jun-22	16-Jun-22	24 Hrs / 7 Days	Coos Bay (Foul Wx Backup) (RM 02+00 to 03+30)	M/V Yaquina	None	VHF-FM 13 &16	Site F, Site G	22/22
2-Jun-22	16-Jun-22	24 Hrs / 7 Days	Coos Bay (Foul Wx Backup) (RM 06+00 to 07+30)	M/V Yaquina	None	VHF-FM 13 &16	Site F, Site G	22/22
2-Jun-22	16-Jun-22	24 Hrs / 7 Days	Coos Bay (Foul Wx Backup) (RM 08+00 to 10+10)	M/V Yaquina	None	VHF-FM 13 &16	Site F, Site G	22/22
2-Jun-22	16-Jun-22	24 Hrs / 7 Days	Coos Bay (Foul Wx Backup) (RM 10+20 to 11+40)	M/V Yaquina	None	VHF-FM 13 &16	Site F, Site G	22/22
2-Jun-22	16-Jun-22	24 Hrs / 7 Days	Siuslaw River (RM -00+30 to 00+35)	M/V Yaquina	None	VHF-FM 13 &16	ODMDS N/S	22/22
8-Jun-22	29-Jun-22	24 Hrs / 7 Days	Columbia River; Howard Island (RM 67+25 to 67+45)	M/V Oregon	Clackamas, Ivanhoff and Williams	VHF-FM 13 &16	Ashore Howard Island	22/22

**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
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
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	2100-2300	Umatilla Landing Day Fireworks	Umatilla, OR
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
25-Jun-22	0630-1930	2022 Rooster Rock Outrigger Canoe Race	Columbia River, Corbett, 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	0730-1930	Richland Regatta	Columbia River, Kennewick, WA

# MARINE EVENTS

Enclosure (3)

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
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	Yachats 4th of July	Yachats, OR
2-Jul-22	2100-2330	Independence Day Fireworks at the Port	Ilwaco WA
3-Jul-22	2100-2330	Mill Casino Independence Day Celebration	North Bend,OR
3-Jul-22	2100-2330	Waldport Fireworks	Bayshore Split over Alsea Bay , Waldport, OR
4-Jul-22	2130-2300	St. Helens 4th of July	St. Helens OR
4-Jul-22	2130-2230	Fireworks over the Bay	Coos Bay, OR
4-Jul-22	2100-2330	Lincoln City 4th of July	Lincoln City, OR
4-Jul-22	2000-2300	Brookings, OR July 4th Fireworks	Brookings, OR
4-Jul-22	2130-2300	Florence Independence day Celebration	Port of Siuslaw end Harbor Street Florence OR 97439
4-Jul-22	2130-2300	Astoria Warrenton 4th of July fireworks	Astoria Warrenton
4-Jul-22	2100-2330	Bandon 4th of July	Bandon, OR
4-Jul-22	2130-2300	Fort Dalles Fourth	Dalles, OR
4-Jul-22	2100-2330	July 4th party at the port of Gold Beach	Gold Beach, OR
4-Jul-22	2130-2300	Newport 4th of July	Newport, OR
4-Jul-22	2130-2300	Kennewick fireworks	Kennewick, WA
4-Jul-22	2100-2330	Washugal 4th of July	Washugal, WA
4-Jul-22	2130-2300	Port Orford 4th of July	Port Orford, OR
4-Jul-22	2000-2230	Cascade Locks 4th of July	Port of Cascade Locks, OR
4-Jul-22	0900-2130	Oaks Park 4th of July	Willamette River, Portland, OR
4-Jul-22	2100-2330	Waterfront Blues Festival	Barge on Willameter River between Hawthorne and Marquam Bridges
4-Jul-22	2100-2330	Waverly Country Club 4th of July	Willamette River, Portland, OR
4-Jul-22	2100-2130	Clatskanie Heritage Days	Clatskanie River, Clatskanie, OR
4-Jul-22	2200-2300	Westport Fireworks	Pacific Ocean, Westport, Wa
5-Jul-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)

7-Jul-22	1800-2130	OCSA Sailboat Race -SYSCO Summer Evening Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
8-Jul-22	0700-1800	Kiteboard 4 Cancer	Columbia River, Hood River, OR
9-Jul-22	2130-2300	RaINIER Days/ Days in the Park	Raineir WA
9-Jul-22	1030-1730	Gorge Outrigger Canoe Race	Columbia River between Stevenson, WA and Bingen, WA
9-Jul-22	0700-1800	Kiteboard 4 Cancer	Columbia River, Hood River, OR
10-Jul-22	1030-1830	The Big Float	Willamette River, Downtown Portland, OR
10-Jul-22	0700-1800	Kiteboard 4 Cancer	Columbia River, Hood River, OR
10-Jul-22	0700-1630	Portland Bridge Swim	Portland, OR
10-Jul-22	1130-1730	Gorge Downwind Champs	Columbia River, Home Valley, WA to Hood River, OR
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	1130-1730	Gorge Downwind Champs	Columbia River, Home Valley, WA to Hood River, 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	1130-1730	Gorge Downwind Champs	Columbia River, Home Valley, WA to Hood River, OR
12-Jul-22	1800-2130	OCSA Sailboat Race - SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
13-Jul-22	1130-1730	Gorge Downwind Champs	Columbia River, Home Valley, WA to Hood River, OR
14-Jul-22	1130-1730	Gorge Downwind Champs	Columbia River, Home Valley, WA to Hood River, OR
14-Jul-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
15-Jul-22	1130-1730	Gorge Downwind Champs	Columbia River, Home Valley, WA to Hood River, OR
16-Jul-22	2000-0000	Cathlamet Bald Eagle Days	Birnie Creek in Cathlamet,WA
16-Jul-22	1130-1730	Gorge Downwind Champs	Columbia River, Home Valley, WA to Hood River, OR
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
17-Jul-22	0730-1730	Clearwater River Rush Jet Boat Race	Clearwater River, Orofino to Kamiah, ID
18-Jul-22	0730-1730	Clearwater River Rush Jet Boat Race	Clearwater River, Orofino to Kamiah, ID
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	0730-1730	Clearwater River Rush Jet Boat Race	Clearwater River, Orofino to Kamiah, ID
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

# MARINE EVENTS

Enclosure (3)

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
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
23-Jul-22	1000-1030	Garibaldi Days Fireworks	Tillamook Bay, Garibaldi, OR
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
6-Aug-22	0730-1630	Paddle for Life	Lake River, Ridgefield, WA

# MARINE EVENTS

Enclosure (3)

6-Aug-22	1000-1700	Double Damned 2022	Columbia River between Cascade Locks and The Dalles
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
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

# MARINE EVENTS

Enclosure (3)

17-Sep-22	8:00- 1800	LOCR Willamette River Regatta	Lake Oswego, 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	8:00- 1800	LOCR Willamette River Regatta	Lake Oswego, 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

SECTOR PUGET SOUND MARINE EVENTS			
EVENT DATE	TIME	EVENT NAME	EVENT LOCATION
8-Jun-22	1900-2130	Windseekers Series 2022	Commencement Bay, Dalco Passage
8-Jun-22	1800-2030	Wednesday Race Series	Port Townsend Bay
8-Jun-22	1700-2100	CYC Seattle Wednesday night evening series	Lake Washington
8-Jun-22	1700-2100	CYC Sound Wednesday Sound Evening Series	West, North and South of Shilshole Marina
9-Jun-22	1800-2100	TTPYC Thursday Night Sailboat Race Series	Vashon Island from Three Tree Point south to Des Moines marina and Redondo
9-Jun-22	1730-1930	Sequim Bay Duck Dodge Race	Sequim Bay, WA
9-Jun-22	1700-2100	CYC Sound Thursday Evening Series	West, North and South of Shilshole Marina
10-Jun-22	1800-2100	Milltown Sailing Assn - Log Dodge Series Sailboat Race	Port Gardner, Possession Sound, Snohomish River entrance
10-Jun-22	1900-nxt day	Seventy48	Thea Foss Waterway to Point Hudson
10-Jun-22	1800-2030	Friday Sailing Series	Port Townsend Bay
10-Jun-22	1800-2000	Spring Friday Night Series	Sinclair Inlet
10-Jun-22	1700-2000	Lido14 Fun on Fridays	Commencement Bay, Tyee Marina to Blair Waterway to Browns Point.
10-Jun-22	1900-2130	Take Your Time Friday's Race Series	Shilshole Bay
11-Jun-22	all day	Seventy48	Thea Foss Waterway to Point Hudson
11-Jun-22	1300-1500	Elliot Bay Marina	Elliot Bay
11-Jun-22	0900-2200	TYC Summer Vashon Sailboat Race	Circumnavigate Vashon Island
11-Jun-22	1330-1600	Whidbey Adventure Swim	Saratoga Passage
12-Jun-22	prev day-1900	Seventy48	Thea Foss Waterway to Point Hudson
12-Jun-22	1200-1600	Lido14 Sunday Funday Series	Commencement Bay from Tyee Marina to Blair Waterway to Browns Point. Quartermaster Harbor
13-Jun-22	0500-nxt day	Race To Alaska	Port Townsend, WA to Victoria, BC
13-Jun-22	1830-2000	Ballard Cup Series II	Shilshole Bay
14-Jun-22	prev day-1700	Race To Alaska	Port Townsend, WA to Victoria, BC
14-Jun-22	1800-2200	Duck Dodge Lake Union	Lake Union
14-Jun-22	1700-2100	CYC Seattle Lake Tuesday Evening Series	Lake Washington
15-Jun-22	1900-2130	Windseekers Series 2022	Commencement Bay, Dalco Passage
15-Jun-22	1800-2030	Wednesday Race Series	Port Townsend Bay



# MARINE EVENTS

Enclosure (3)

15-Jun-22	1700-2100	CYC Seattle Wednesday night evening series	Lake Washington
15-Jun-22	1700-2100	CYC Sound Wednesday Sound Evening Series	West, North and South of Shilshole Marina
16-Jun-22	1900-2030	Elliot Bay Marina	Elliot Bay
16-Jun-22	1800-2100	TTPYC Thursday Night Sailboat Race Series	Vashon Island from Three Tree Point south to Des Moines marina and Redondo
16-Jun-22	1730-1930	Sequim Bay Duck Dodge Race	Sequim Bay, WA
16-Jun-22	1700-2100	CYC Sound Thursday Evening Series	West, North and South of Shilshole Marina
17-Jun-22	1800-2100	Milltown Sailing Assn - Log Dodge Series Sailboat Race	Port Gardner, Possession Sound, Snohomish River entrance
17-Jun-22	1800-2000	Spring Friday Night Series	Sinclair Inlet
17-Jun-22	1700-2000	Lido14 Fun on Fridays	Commencement Bay, Tyee Marina to Blair Waterway to Browns Point.
17-Jun-22	1900-2130	Take Your Time Friday's Race Series	Shilshole Bay
18-Jun-22	1200-1530	Three Hour Tour Series 1	Commencement Bay, Dalco Passage
18-Jun-22	1000-1800	WSSA #7 – Brownsville Race	Brownsville, Agate Pass, Burke Bay
18-Jun-22	1000-1800	Watmough Bay Race	Port Townsend Bay to SE Lopez Island
18-Jun-22	1000-1400	Sound Rowers' Rat Island Regatta	Fort Worden State Park around Rat Island and back
18-Jun-22	0730-1900	Round Orcas	Circumnavigates Orcas Island
18-Jun-22	1000-1800	SBYC Saturday Race Series	Sequim Bay, WA
19-Jun-22	1000-1800	Watmough Bay Race	Port Townsend Bay to SE Lopez Island
20-Jun-22	all day	WA360	Port Townsend Bay to Budd Inlet to Bellingham to Point Roberts back to Port Townsend Bay
20-Jun-22	1000-1700	Race Week Pacific Northwest	IVO Guemes, Vendovi, Eliza, Lummi, and Sinclair Islands
21-Jun-22	all day	WA360	Port Townsend Bay to Budd Inlet to Bellingham to Point Roberts back to Port Townsend Bay
21-Jun-22	1000-1700	Race Week Pacific Northwest	IVO Guemes, Vendovi, Eliza, Lummi, and Sinclair Islands
21-Jun-22	1800-2200	Duck Dodge Lake Union	Lake Union
21-Jun-22	1700-2100	CYC Seattle Lake Tuesday Evening Series	Lake Washington
22-Jun-22	1900-2130	Windseekers Series 2022	Commencement Bay, Dalco Passage
22-Jun-22	1800-2030	Wednesday Race Series	Port Townsend Bay
22-Jun-22	1000-1700	Race Week Pacific Northwest	IVO Guemes, Vendovi, Eliza, Lummi, and Sinclair Islands
22-Jun-22	1700-2100	CYC Seattle Wednesday night evening series	Lake Washington
22-Jun-22	1700-2100	CYC Sound Wednesday Sound Evening Series	West, North and South of Shilshole Marina
23-Jun-22	1900-2030	Elliot Bay Marina	Elliot Bay

# MARINE EVENTS

Enclosure (3)

23-Jun-22	1800-2100	TTPYC Thursday Night Sailboat Race Series	Vashon Island from Three Tree Point south to Des Moines marina and Redondo
23-Jun-22	1000-1700	Race Week Pacific Northwest	IVO Guemes, Vendovi, Eliza, Lummi, and Sinclair Islands
23-Jun-22	1730-1930	Sequim Bay Duck Dodge Race	Sequim Bay, WA
23-Jun-22	1700-2100	CYC Sound Thursday Evening Series	West, North and South of Shilshole Marina
24-Jun-22	1800-2100	Milltown Sailing Assn - Log Dodge Series Sailboat Race	Port Gardner, Possession Sound, Snohomish River entrance
24-Jun-22	1800-2030	Friday Sailing Series	Port Townsend Bay
24-Jun-22	1800-2000	Spring Friday Night Series	Sinclair Inlet
24-Jun-22	1000-1700	Race Week Pacific Northwest	IVO Guemes, Vendovi, Eliza, Lummi, and Sinclair Islands
24-Jun-22	1900-2130	Take Your Time Friday's Race Series	Shilshole Bay
25-Jun-22	1100-1900	Captain Raynaud International Schooner Race	Commencement Bay to Alki Point
25-Jun-22	2210-2230	Manette Bridge Fireworks AKA Bremerton Bridge Blast	Manette Bridge /Bremerton, WA
25-Jun-22	1100-1800	Cruise and Snooze A and B	Shilshole Bay to Pt Madison
26-Jun-22	1100-1900	Captain Raynaud International Schooner Race	Blakely Rock Light to Foulweather Bluff
26-Jun-22	1200-1600	Lido14 Sunday Funday Series	Commencement Bay from Tyee Marina to Blair Waterway to Browns Point. Quartermaster Harbor
26-Jun-22	0600-1000	IRONMAN Coeur d'Alene	Lake Coeur d'Alene
26-Jun-22	1100-1800	Cruise and Snooze A and B	Pt Madison to Shilshole Bay
27-Jun-22	1100-1900	Captain Raynaud International Schooner Race	Klas Rock to Point Wilson
27-Jun-22	1830-2000	Ballard Cup Series II	Shilshole Bay
27-Jun-22	2200-2215	Vazquez Wedding Fireworks	South Hood Canal
28-Jun-22	1800-2200	Duck Dodge Lake Union	Lake Union
28-Jun-22	1700-2100	CYC Seattle Lake Tuesday Evening Series	Lake Washington
29-Jun-22	1900-2130	Windseekers Series 2022	Commencement Bay, Dalco Passage
29-Jun-22	1800-2030	Wednesday Race Series	Port Townsend Bay
29-Jun-22	1700-2100	CYC Seattle Wednesday night evening series	Lake Washington
29-Jun-22	1700-2100	CYC Sound Wednesday Sound Evening Series	West, North and South of Shilshole Marina
30-Jun-22	1900-2030	Elliot Bay Marina	Elliot Bay
30-Jun-22	1800-2100	TTPYC Thursday Night Sailboat Race Series	Vashon Island from Three Tree Point south to Des Moines marina and Redondo
30-Jun-22	1730-1930	Sequim Bay Duck Dodge Race	Sequim Bay, WA
30-Jun-22	1700-2100	CYC Sound Thursday Evening Series	West, North and South of Shilshole Marina

- 1** - 12" Dia. Regulatory Buoy w/ "Slow No Wake, All Boats Pass Between Channel Markers, Boat Ramp Access" Message w/ White Solar Powered Light (See Reference Drawing 2)
- 2** - "Slow No Wake Within 200 Feet" 8'x4' Sign Attached to Temporary Work Bridge
- 3** - Red Channel Marker Buoy w/ Red Solar Powered Light (Ref. Dwg 1)
- 4** - Green Channel Marker Buoy w/ Green Solar Powered Light (Ref. Dwg 1)
- 5** - "Keep Out" 12" Dia. Hanging Buoy (See Reference Drawing 3)
- 6** - "Keep Out" 8'x4' Warning Sign Attached to Temporary Work Bridge
- 7** - "Slow No Wake, All Boats Pass Between Channel Markers" Message (See Reference Drawing 2)



Tugs available on site to move barges to clear navigational channel during working hours. Barges will be moored clear of the navigational channel when unattended.

**All work performed in the area within the project's "dock removal limits"**

# Oscillator Platform Location