



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

LOCAL NOTICE TO MARINERS

District: 13

Week: 10/23

ISSUED BY: COMMANDER, THIRTEENTH COAST GUARD DISTRICT (dpw)
915 Second Avenue, 35th Floor, Rm 3510, Seattle, Washington 98174-1067
Telephone: (206) 220-7280
Email: D13-SMB-D13-LNM@uscg.mil
<https://www.pacificarea.uscg.mil/Our-Organization/District-13/District-Staff/-dpw/>
<https://www.navcen.uscg.gov/local-notice-to-mariners?district=13+0&subdistrict=0>

For all Notice to Mariner submissions:
Call (206) 220-7280 or email D13-SMB-D13-LNM@uscg.mil at least two weeks prior to the start of your event or work.

COMDTPUB P16502.6, Light List Volume VI, Pacific Coast and Pacific Islands, 2023 Edition, is available at
https://www.navcen.uscg.gov/sites/default/files/pdf/lightLists/LightList_V6_2023.pdf
Coast Pilot Volume 10, Oregon, Washington, Hawaii and Pacific Islands, 2022 (3rd) Edition, is available at
https://www.nauticalcharts.noaa.gov/publications/coast-pilot/files/cp10/CPB10_WEB.pdf

Coast Pilots, along with corrections, are available at: 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.

UNITED STATES COAST GUARD NAVIGATION INFORMATION SERVICE (NIS)

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

<https://www.navcen.uscg.gov/subscribe-email-rss-feeds>

In addition, the NIS investigates all reports of degradation or loss of GPS service and discrepancies to Aids to Navigation. Mariners are encouraged to report all degradation of radio navigation services, or Aids to Navigation discrepancies to the NIS via phone: (703) 313-5900 or online at: <https://www.navcen.uscg.gov/report-a-problem>

BROADCAST NOTICE TO MARINERS

Urgent marine navigational and weather information is broadcast over VHF channel 22A (157.1 MHz). Broadcasts are initially announced over the distress, safety and calling channel 16 before they are made on channel 22A. 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. BNM are now available online as well. To view or download District 13 BNMs visit <https://www.navcen.uscg.gov/broadcast-notice-to-mariners-search?district=13>

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
D13-0183-23

Ending BNM
D13-0193-23

ABBREVIATIONS

A through H

ADRIFT - Buoy Adrift
AICW - Atlantic Intracoastal Waterway
Al - 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

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

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

DEST - Destroyed
DISCON - Discontinued
DMGD/DAMGD - Damaged
ec - eclipse
EST - Established Aid
ev - every
EVAL - Evaluation
EXT - Extinguished
F - Fixed
fl - flash
FI - Flashing
G - Green
GIWW - Gulf Intracoastal Waterway
HAZ - Hazard to Navigation
HBR - Harbor
HOR - Horizontal Clearance
HT - Height

LWB - Lighted Whistle Buoy
LWP - Left Watching Properly
MHz - Megahertz
MISS/MSNG - Missing
Mo - Morse Code
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

SHL - Shoaling
si - silent
SIG - Signal
SND - Sound
SPM - Single Point Mooring 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

SECTION I - SPECIAL NOTICES

This section contains information of special concern to the Mariner.

COLUMBIA RIVER – MCNARY DAM TO JUNIPER – Marine construction

Advanced American Construction (AAC) will be conducting pile driving and diving operations on pump stations located just upriver from Sand Station Beach on the Oregon side of the Columbia River near RM 302 in the McNary Pool. Construction work on the pump stations is scheduled till 31 Mar 2023. AAC will have the DB4000 crane barge on station for this work and will monitor VHF-FM channel 16 during the working hours of 0700-1730, Monday through Saturday. The floating equipment will remain on-station during non-working hours and will be illuminated at night by fixed white lights on all corners. Mariners are asked to transit the area with caution and minimize wake. For additional information, please contact John Strand (503) 969-4731 or JohnS@CallAAC.com.

Chart 18541

LNM: 10/23

WASHINGTON – SNAKE RIVER – LAKE SACAJAWEA – SR-12 Highway Bridge inspection

WSDOT will be inspecting the south SR-12 Highway Bridge (east bound traffic) (LLNR 13113), AKA the Vaughn Hubbard Bridge, that crosses the Snake River, mile 2.2, at Pasco, WA/Burbank, WA. The inspection will take place between 0800 and 1400 on 12 Apr 2023. The bridge will be inspected using an Under Bridge Inspection Truck (UBIT) that occupies a portion of the roadway. The UBIT reduces the SR-12 Bridge's vertical clearance up to 10 feet from 61 feet to 51 feet above high water. Mariners are advised to use caution while transiting the area. For additional information contact John LaBranche at (360) 791-7063 or labranj@wsdot.wa.gov.

Chart 18545

LNM: 10/23

OREGON - WILLAMETTE RIVER – PORT OF PORTLAND – Bridge notice

The Coast Guard intends to approve a temporary deviation to the operating schedule that governs the Broadway Highway Bridge (LLNR 14955.2), mile 11.7, Morrison Highway Bridge (LLNR 14955.4), mile 12.8, and Hawthorne Bridge (LLNR 14955.6), mile 13.1, crossing the Willamette River at Portland, OR. This deviation is necessary to accommodate the Bridge to Brews event. This deviation allows the subject bridges to remain in the closed-to-navigation position to allow safe and timely movement of event participants from 0730 until 1100 on 23 Apr 23. The subject bridges provide the following vertical clearances: Broadway Bridge 69 feet, Morrison Bridge 69 feet, and the Hawthorne Bridge provides 49 feet. All vertical clearances are referenced to the vertical clearance above Columbia River Datum 0.0. Vessels which do not require a bridge opening may continue to transit beneath the bridge during this closure period. The bridges will be able to open for emergencies, and there is no immediate alternate route for vessels to pass. In accordance with 33 CFR 117.35(e), the drawbridges must return to their regular operating schedule immediately at the end of the effective period of this temporary deviation. If any mariner or marine stakeholder cannot support this closure period, please submit objections by 22 Mar 23 at d13-smb-d13-bridges@uscg.mil.

Chart 18526

LNM: 10/23

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

From 24 Apr through 07 Jun 2023, the Washington Department of Fish and Wildlife (WDFW) Marine Fish Science (MFS) Unit and the Toxics-focused Biological Observation System (TBIOS) Team will conduct their annual, joint bottom trawl survey to assess marine fish living in the waters of Puget Sound, including the Strait of Juan de Fuca, Strait of Georgia, San Juan Archipelago, Hood Canal, Central Sound, and South Sound regions. The vessel chartered by WDFW for the survey is the F/V Chasina, a 58-foot seiner/trawler (call sign WYQ-6987), with red hull and red and white superstructure, which will carry WDFW RESEARCH placards posted on both sides of the upper deck. The survey will visit at least 65 science locations throughout the region. For more information on WDFW's MFS unit and the bottomfish programs, visit <https://wdfw.wa.gov/species-habitats/species/bottomfish> or contact Bob Pacunski at (425) 379-2314 (office) or (206) 619-5312 (cell) or email at Robert.Pacunski@dfw.wa.gov. For more information on WDFW's TBIOS program visit <https://wdfw.wa.gov/species-habitats/science/marine->

toxics/tbios or contact Robert Fisk at (366) 688-4841 (cell) or email at Robert.Fisk@dfw.wa.gov.

Charts: 18400 18440 18441 18460

LNM: 10/23

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

The Coast Guard has approved a temporary deviation for the Spokane Street Bridge (LLNR 16870.1) across the Duwamish Waterway, mile 0.3, in Seattle, WA, from 25 – 26 Mar 2023. This deviation will facilitate removal and replacement of a defective hydraulic pump. The east span will be closed to mariners from 0100 on 25 Mar 2023 until 0100 on 26 Mar 2023. Only the west span will open to mariners per 33 CFR 117.5 and signal per 33 CFR 117.1041(b)(1). The subject bridge provides 55 feet center span and 44 feet side spans in the closed-to-navigation position above high water; the horizontal clearance with the east span in the closed-to-navigation position is 125 feet. 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. For more information on this event contact Kit Loo at Kit.Loo@seattle.gov or (206) 684-3669.

Chart 18450

LNM: 10/23

WASHINGTON – PUGET SOUND – HOOD CANAL – Military airborne water drop exercise

The US military will be conducting airborne water drop exercises in Hood Canal on 20 – 22 Mar 2023. These exercises will take place in the Great Bend portion of Hood Canal near Annas Bay in approximate position 47-22-19 N, 123-07-59 W, from 0800 – 1730 daily on 20 – 22 Mar 23. The exercises will consist of aircraft, jumpers, and a support vessel that will monitor VHF-FM channel 16. Due to the complexity of these exercises, mariners are advised to stay well clear of this area and follow any instructions from military personnel involved in the operations. For more information contact MAJ Mitchell Galloway at mitchell.galloway@us.af.mil.

Chart 18440

LNM: 10/23

WASHINGTON – PUGET SOUND – LAKE WASHINGTON SHIP CANAL – Hiram M. Chittenden Locks upcoming closures (Revised from LNM 42/22)

The small locks at the Hiram M. Chittenden Locks in Ballard are currently closed to all marine traffic for annual maintenance and is scheduled to be re-opened on 13 Mar 23. During this closure, the large lock is in full service and available to accept vessels. The small locks are not scheduled to be closed again until the annual maintenance period in 2024, planned for 26 Feb – 12 Mar 2024.

USACE is beginning a maintenance project to replace the center miter gates on the Large Lock chamber. The major project will require several 30-day closures to facilitate demolition, concrete construction, and installation and commissioning of the new miter gates, respectively. There will be at least 15 days between closures to accommodate marine traffic. Additionally, the Small Lock will remain open during these periods and can pass vessels up to 123 feet long and 28 feet wide.

Currently, the large locks are scheduled to be closed to all vessel traffic during the following periods,

Closure 1: 16 Oct 2023 to 14 Nov 2023

Closure 2: 30 Nov 2023 to 29 Dec 2023

Closure 3: 14 Jan 2024 to 12 Feb 2024

Closure 4: 15 Oct 2024 to 13 Nov 2024

Closure 5: 29 Nov 2024 to 28 Dec 2024

The large lock is expected to be fully operational on 29 Dec 2024.

For current information about activities at the Locks, visit the Locks' website at <https://www.nws.usace.army.mil/Missions/Civil-Works/Locks-and-Dams/Chittenden-Locks/Closures/>, like them on Facebook www.facebook.com/chittendenlocks; follow them on Twitter <https://twitter.com/ChittendenLocks>. For specific questions, mariners may contact the lockmasters at (206) 297-9821.

Chart 18447

LNM: 10/23

WASHINGTON – LAKE WASHINGTON SHIP CANAL TO LAKE UNION – Bridge Notice

The Coast Guard intends to approve a temporary deviation from the operating schedule that governs the Fremont Street Bridge (LLNR 18182), mile 2.6, and the University Street Bridge (LLNR 18235), mile 4.3, both crossing the Lake Washington Ship Canal in Seattle, WA. This deviation will accommodate the Tenacious Ten running event on 15 Apr 2023. This deviation allows the Fremont Bridge to remain in the closed-to-navigation position from 0800 to 1030 on 15 Apr 2023, and the University Bridge may remain in the closed-to-navigation position from 0730 to 0900 on 15 Apr 23. Vessels which do not require bridge openings may continue to transit beneath these bridges during this closure period. The bridge will be required to open, if needed, for vessels engaged in emergency response operations during this closure period. If any mariner or marine stakeholder cannot support this closure period, please submit objections to d13-smb-d13-bridges@uscg.mil by 22 Mar 23.

Chart 18447

LNM: 10/23

WASHINGTON – LAKE WASHINGTON SHIP CANAL – LAKE UNION – Bridge Inspection barge operation

SDOT will be performing bridge inspection of the bascule segment of the University Street Bridge (LLNR 18235) across the Lake Washington Ship Canal, mile 4.3, Seattle, Washington. The inspection will be taking place from 0700 to 1600 daily, from 14 – 16 March 2023. The inspection of the subject bridge will be conducted using an articulating lift boom from a barge. While the articulating lift boom is in operation, the barge will be tied to the protection pier of the bridge. The barge will occupy approximately 35 feet of the waterway beneath the bridge. A full bridge opening may be given with restricted channel width access. There is no alternate route for vessels to pass. Mariners are advised to use caution while transiting the area. For more information, contact Kit Loo at (206) 684-3669 or Kit.Loo@seattle.gov.

Chart 18447

LNM: 10/23

WASHINGTON – PUGET SOUND – SARATOGA PASSAGE – Underwater remotely operated vehicle operations

General Dynamics Mission Systems will be conducting inert naval mine deployment and recovery operations using underwater Remotely Operated Vehicles in Saratoga Passage just south of Crescent Harbor. Operations will be conducted 24 hours a day, 7 days a week from 02 Feb – 14 Apr 2023, in an operational box approximately 1 kilometer square with corner points:

- 48-15-30.895 N, 122-35-18.575 W;
- 48-15-00.281 N, 122-35-02.789 W;
- 48-14-49.747 N, 122-35-48.624 W;
- 48-15-20.351 N, 122-36-04.410 W.

Mariners are requested to avoid the operational area during these operations, and especially to avoid any nets or fishing gear as there is a high risk of fouling or entangling their gear. Should the need arise for passing arrangements, the M/V Michael Uhl, M/V Point Lavinia, and the R/V Zephyr will be on scene and will monitor VHF-FM channels 16 & 13 as well as working channel 78. For more information, Annie Kundert at (978) 353-9330 and via email anne.kundert@gd-ms.com or contact Ian McGoldrick at (617) 404-7971, or via email ian.mcgoldrick@gd-ms.com.

Charts: 18428 18441

LNM: 10/23

WASHINGTON – PUGET SOUND – APPROACHES TO EVERETT AND PORT SUSAN – Scientific research activities

The University of Washington Applied Physics Lab will be performing research operations, repeatedly deploying and recovering small drifting scientific equipment in the area of the Snohomish River mouth near Everett, and in Possession Sound southeast of Gedney / Hat Island, and at the mouth of Port Susan from 20 – 24 Mar 2023. Work will be performed from the R/V Souder and R/V Inferno, both of which may be hailed on VHF-FM channel 16. Research will be conducted at all three locations, but only one at any given time. The drifting science equipment will be monitored from the research vessels at all times. Mariners should keep a lookout for the equipment and avoid if possible. For more information, contact Trevor Harrison at 774-212-1063 or twarr@uw.edu

Chart 18443

LNM: 10/23

WASHINGTON – EVERETT HARBOR– SNOHOMISH RIVER– SR 529 Highway Bridge Notice

The Coast Guard has approved a temporary bridge deviation from the operating schedule that governs the SR 529 Highway Bridges across the Snohomish River and Steamboat Slough. This deviation supports the Everett Marathon event on 02 Apr 2023. On 02 Apr 2023 from 0700 to 1130, the swing spans of the SR 529 Highway Bridge (NB) (LLNR 18591.3) and the SR 529 Highway Bridge (SB) (LLNR 18591.2) across the Snohomish River, mile 3.6, at Everett, WA, and the lift spans of SR 529 Highway Bridge (NB) (LLNR 18594.11) and the SR 529 Highway Bridge (SB) (LLNR 18594.9) across Steamboat Slough, mile 1.1, at Marysville, WA, will be authorized to remain in the closed-to-navigation positions. The SR-529 Bridges across Steamboat Slough provide 10 feet of vertical clearance in the closed-to-navigation position at high tide. The SR-529 Bridges across the Snohomish River provide 37 feet of vertical clearance in the closed-to-navigation position at high tide. The SR-529 Bridges must open to emergency vessels responding to emergencies. An alternate route for vessels to use during this deviation period is via Union Slough. For more information on this event contact Colleen Kelly at kellyc@wsdot.wa.gov.

Chart 18443

LNM: 10/23

OREGON – WASHINGTON – CAPE BLANCO TO DESTRUCTION ISLAND – Offshore research buoy servicing

Oregon State University will be conducting water sampling and servicing at the following locations from 07 – 23 Mar 2023:

- OSU Waldport Offshore Research Lighted Buoy (LLNR 651): 44-22-15.000 N, 124-56-52.500 W
- Lincoln City Offshore research site: 44-32-17.228 N; 125-29-02.760 W
- OSU Newport Shelf Research Lighted Buoy (LLNR 651.5): 44-38-20.040 N, 124-18-13.680 W
- OSU Nye Beach Research Lighted Buoy (LLNR 653): 44-39-30.168 N, 124-05-44.592 W
- OSU Grays Canyon Research Lighted Buoy (LLNR 727): 46-51-06.001 N, 124-58-00.012 W
- OSU Westport Offshore Research Lighted Buoy (LLNR 728): 46-51-06.000 N, 124-57-50.000 W
- OSU Westport Shelf Research Lighted Buoy (LLNR 728.5): 46-59-10.500 N, 124-33-58.620 W
- OSU Copalis Head Research Lighted Buoy (LLNR 730): 47-07-59.988 N, 124-16-17.760 W

The work will be conducted off the R/V Sikuliaq, which will monitor VHF-FM channels 16 and 13. This work will be conducted 24 hours a day until completed, and vessels are requested to stay well clear of the research vessel during operations. For more information, contact Edward Dever, (541) 908-2119, or Edward.Dever@oregonstate.edu.

Charts: 18500 18561 18580

LNM: 09/23

WASHINGTON – PUGET SOUND – HOOD CANAL – Small boat operations

Naval Base Kitsap will be conducting Force Protection exercises on 15 Mar 2023 from 0700-1500, on the waterfront adjacent to Naval Base Kitsap-Bangor in the Hood Canal, and will occur in an area by the following Lat/Lon:

- 1) 47-44-28N / 122-45-51W
- 2) 47-44-20N / 122-44-32W
- 3) 47-43-55N / 122-45-16W
- 4) 47-43-47N / 122-44-56W

Mariners are requested to remain at least 500 yards away from the area outlined, as well as the grey-hull Navy Security vessels conducting the exercises. Navy Security vessels will be operating at high speeds and utilizing blank ammunition during firing exercises. The Navy Security vessels can be reached on VHF-FM 72, 88A, and 16. For more information, on the exercise, please contact Mark Durben, Antiterrorism Officer, Naval Base Kitsap at (360) 396-9275, or mark.e.durben.civ@us.navy.mil.

Chart 18441

LNM: 09/23

COLUMBIA RIVER – LITTLE WHITE SALMON RIVER - DRANO LAKE – Bridge pile removal work (Revised from LNM 51/22)

Advanced American Construction (AAC) is conducting bridge pile removal work at the Burlington Northern Santa Fe Railroad Company (BNSF)

Bridge number 66.4 which crosses the Little White Salmon River at the confluence of Drano Lake and the Columbia River, near Columbia RM 162 at approximate location 45-42-40.5 N, 121-38-54.7 W. Construction of a new bridge at this location was completed in 2021 and it is in operation, while work to remove four old in-water piles from the former bridge at this location is in-progress. These piles are within the approach to the navigation channel of the new bridge from the Columbia River side and are submerged at the following depths below ordinary high water: 4.2', 15.9', 16.3' and 6.0'. Work to complete removal of these old in-water piles is scheduled to occur from 03 Jan – 31 Mar 2023. AAC will have two work barges on station for this work and will monitor VHF-FM channel 16 during the working hours of 0700 – 1730, Monday through Saturday. The floating equipment will remain on-station during non-working hours and will be illuminated at night by fixed white lights on all corners. Mariners are asked to transit the area with caution and minimize wake. For additional information, please contact Luke Sykora (509) 818-7820 or LukeS@CallAAC.com.

Chart 18532

LNM: 08/23

WASHINGTON – LAKE WASHINGTON SHIP CANAL – PORTAGE BAY – Bridge Public Notice

The Coast Guard has issued a public notice (PN 2-23) regarding WSDOT's request to replace the Portage Bay Bridge, Bridge No. 520/3 across Portage Bay. This Public Notice (PN) is soliciting for comments related to navigation. Maritime stakeholders (vessels and facilities) are highly encouraged to carefully review this notice and provide comments with regard to the proposed bridge's ability to meet the needs of navigation to include mariner requirements for horizontal and vertical navigation clearances. PN 02-23 is available at <https://www.navcen.uscg.gov/public-notices-for-bridges-active-by-district?district=13&subdistrict=n>. Comments for the record will be received at the office of: Commander (dpw), Thirteenth Coast Guard District, 915 2nd Ave, Rm 3510, Seattle, WA or via email at D13-SMB-D13-BRIDGES@uscg.mil. Comments should be sent to arrive on or before 24 Mar 2023.

Chart 18447

LNM: 08/23

COLUMBIA RIVER – PACIFIC OCEAN TO HARRINGTON POINT – ASTORIA – Bird management activities

In conjunction with the ongoing, long-term painting and preservation project on the Astoria Highway Bridge (LLNR 10086), ODOT 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, hazing will be most frequent during evening hours. The project is currently working just to the north of the south channel and should have no impact on marine navigation. Hazing activities are expected to begin in March and may continue until 01 Jun 2023. For more information on the APHIS activities, contact wildlife biologist Matt Alex at (503) 530-6445 or Matthew.J.Alex@USDA.gov.

Chart 18521

LNM: 07/23

OREGON – PORT OF PORTLAND – WILLAMETTE RIVER – Marine Construction

Stellar J. Corp. will begin dock repair and rehabilitation on and under the ship pier at Terminal 5, Berth 503, on the Port of Portland, Willamette River waterfront on 20 Feb 2023. The project location is approximately 45-38-18.857 N, 122-46-31.215 W, near Willamette River mile 1.4. Construction operations on the pier will take place during day light hours, Monday through Friday, and will continue into the summer months. Although no work will be performed outside of the Terminal 5 dock line, the project requests that vessels transiting the area operate with minimum wake if possible. For more information, contact Mike Klassen at (360) 518-2544 or MikeKlassen@stellarj.com.

Chart 18526

LNM: 07/23

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
765.5	NOAA Environmental Lighted Buoy 46005	LT EXT	18007	0197-20	08/20	
8735	Coos Bay Entrance Lighted Bell Buoy 1	OFF STA	18587	0999-22	01/23	
8750	Coos Bay Entrance Lighted Buoy 2	OFF STA	18587	1000-22	01/23	
8755	Coos Bay North Jetty Lighted Whistle Buoy 3	OFF STA	18587	1001-22	01/23	
9817	Tillamook Bay Entrance Lighted Buoy 2	LT EXT	18558	0022-23	02/23	
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	
11455	Camas Slough Range Front Light	LT EXT/STRUCT DMGD	18531	0769-22	42/22	
11480	Government Island Upper Range Front Light	LT EXT/DAYMK MISSING	18531	0046-23	02/23	
12230	Lake Celilo Daybeacon 27	STRUCT DMGD	18533	0125-23	05/23	

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
14895	Post Office Range Front Light	LT EXT	18526	0113-23	05/23
16405	Puget Sound Traffic Separation Lane Lighted Buoy SA	MISSING	18471	0162-23	08/23
17360	Nisqually Flats Light 3	STRUCT DEST/TRLB	18448	0404-21	24/21
17595	Kilisut Harbor Buoy 2	MISSING	18464	0126-23	05/23
18710	Oak Harbor Light 11	STRUCT DEST/TRLB	18428	0652-21	39/21
19480	Cypress Reef Junction Daybeacon C	DAYMK MISSING	18424	0512-22	29/22
19825	Patos Island Light	LT EXT	18431	0015-23	02/23

DISCREPANCIES (FEDERAL AIDS) CORRECTED

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
8925	Jarvis Lower Range B Front Light	WATCHING PROPERLY	18587	0183-23	09/23	10/23
9935	Clatsop Spit Lighted Whistle Buoy 8	RELOCATED	18521	0193-23	10/23	10/23

DISCREPANCIES (PRIVATE AIDS)

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
651.1	Pacwave South Spotter Lighted Buoy S	MISSING	18580	0185-23	10/23	
651.2	Pacwave South Research Lighted Buoy	MISSING	18580	0137-23	06/23	
651.3	Pacwave South Spotter Lighted Buoy N	MISSING	18580	0138-23	06/23	
10830	Rainier Anchorage Lighted Buoy R	LT EXT	18524	0771-22	42/22	
10928	Sandy Island Anchorage Lighted Buoy "S"	LT EXT	18524	0225-22	12/22	
11247	Hayden Island Water Monitoring Lighted Buoy A	MISSING	18526	0413-21	25/21	
17126	Tacoma Harbor Regulatory Buoys (3)	MISSING	18453	0613-22	34/22	
19023	Padilla Bay Research Lighted Buoy	MISSING	18424	0824-22	44/22	
19440	Shoal Bay Aquaculture Lighted Buoy	LT EXT	18421	0961-22	51/22	
19755	Pearl Island Dock Light	LT IMCH	18421	0963-22	51/22	

DISCREPANCIES (PRIVATE AIDS) CORRECTED

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
17121	Ruston Way Outfall Lighted Buoy	RESET ON STATION	18453	0191-23	09/23	10/23

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
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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.

18521	77th Ed.	01-MAR-19	Last LNM: 22/21	NAD 83	10/23
Chart Title: Columbia River Pacific Ocean to Harrington Point;Ilwaco Harbor					
CHART OR - WA - COLUMBIA RIVER - PACIFIC OCEAN TO HARRINGTON POINT - ILWACO HARBOR. Page/Side: N/A					
RELOCATE	Clatsop Spit Lighted Whistle Buoy 8			CGD13 from 46-14-55.333N to 46-14-57.565N	124-04-46.585W 124-04-40.977W

18525	38th Ed.	01-JUL-16	Last LNM: 51/21	NAD 83	10/23
Chart Title: Columbia River Saint Helens to Vancouver					
Main Panel 1742 COLUMBIA RIVER SAINT HELENS TO VANCOUVER. Page/Side: A					
ADD	Lower Left of Chart: This is the Last Edition of this chart. It will be canceled on 30-Aug-23.			NOS --	--
LAST EDITION	No new editions of chart 18525 will be published. It will be canceled on 30-Aug-23. Comparable or larger scale Electronic Navigational Chart (ENC) coverage is available. See "Cancellation of NOAA Paper and Raster Nautical Charts" in Section I of this LNM for details. A list of all canceled NOAA charts is at https://www.charts.noaa.gov/MCD/Dole.shtml .			NOS --	--

SECTION V - ADVANCE NOTICES

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

SUMMARY OF ADVANCED APPROVED PROJECTS

Approved Project(s)
None

Project Date **Ref. LNM**

Advance Notice(s)

COLUMBIA RIVER - WILLAPA BAY - 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, 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 18523

LNM: 19/22

COLUMBIA RIVER – VANCOUVER TO BONNEVILLE – Changes to the Washougal Upper and Reed Island Federal Navigation Channels (Revised from LNM 40/22)

Due to shoaling extending northeast into the Gary Island Channel and south into the Reed Island Channel to the south of Reed Island, the US Army Corps of Engineers (USACE) has altered the Federal Navigation Channels between Columbia River Mile 123 and 128. Gary Island Dike Daybeacon 54 (LLNR 11565), Washougal Upper Range Front and Rear Lights (LLNRs 11550 and 11555) and Reed Island Range Front and Rear Lights (LLNRs 11570 and 11575) no longer mark safe water for commercial maritime traffic. The US Coast Guard has marked the shoaling off Gary Island and Chatham Island with Gary Island Channel Lighted Buoy 54 (LLNR 11568) and Gary Island Channel Lighted Buoy 56 (LLNR 11571). Washougal Upper Range Front Light and Reed Island Range Front Light have been changed to Gary Island Light "A" (LLNR 11570) displaying a yellow light flashing every 2.5 seconds (Fl Y 2.5s) with a nominal range of 4 NM, and a yellow diamond shaped dayboard labeled "A". Reed Island Range Rear Light has been changed to Gary Island Light "C" (LLNR 11569) displaying a yellow light flashing every 6 seconds (Fl Y 6s) with a nominal range of 4 NM, and a yellow diamond shaped dayboard labeled "C". Washougal Upper Range Rear Light has been changed to Flag Island Light (LLNR 11573). Although the lighting and dayboard currently remain the same in the future it will be changed to a yellow light flashing every 4 seconds (Fl Y 4s) with a nominal range of 4 NM, and a yellow diamond shaped dayboard labeled "B". Future actions entail the removal of the Gary Island Lights A, B and C and their structures. Reed Island Reach Lighted Buoy 61 (LLNR 11580) will remain to mark the encroaching shoal off Reed Island.

All comments concerning the aids to navigation in these waterways should be sent to the email address D13-SMB-D13-LNM@uscg.mil. Any discrepancies for Aids to Navigation should continue to be reported to US Coast Guard Sector Columbia River.

Chart 18531

LNM: 06/23

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.

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 "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.

Toliva 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

SECTION VI - PROPOSED CHANGES

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

PROPOSED WATERWAY PROJECTS OPEN FOR PUBLIC COMMENT

Proposed Project(s)

None

Closing

Docket No.

Ref. LNM

Proposed Change Notice(s)

None

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: 10/23

SUMMARY OF DREDGING OPERATIONS

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

LNM: 10/23

SUMMARY OF MARINE EVENTS

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

LNM: 10/23

OREGON – UMPQUA RIVER – REEDSPORT – Umpqua River Railroad Bridge test deviation

The Coast Guard has approved a test deviation for the Umpqua River Railroad Bridge (LLNR 9369) across the Umpqua River, mile 11.5, in Reedsport, OR. This test deviation facilitates a test for an operating rule change at the request of the Oregon International Port of Coos Bay. The subject bridge is operating in accordance with 33 CFR 117.893(b) which states the bridge shall be maintained in fully open position, except for the crossing of trains or rail equipment. This test deviation is approved from 0700 on 18 Jan to 0700 on 16 Jul 2023, during which the bridge will be maintained in the closed-to-navigation position, and will open on signal with at least two hours-notice. The subject bridge provides 16 feet of vertical clearance in the closed-to-navigation position above high water. 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 this part of the Umpqua River for tall vessels. For more information on this bridge contact Mike Dunning at mdunning@portofcoosbay.com or (541) 267-7678.

The test deviation will operate as follows:

117.893 Umpqua River

(b) The draw of the Coos Bay Rail Line bridge, mile 11.5 at Reedsport, shall open on signal (by phone 877-978-2292) if at least two hours-notice is given.

Chart 18584

LNM: 04/23

OREGON – SIUSLAW RIVER – Bridge notice

OREGON – SIUSLAW RIVER – Bridge notice

The Cushman Railroad Bridge (LLNR 9573) at Cushman, Oregon, Siuslaw River mile 6.5, will undergo repairs from 27 Feb – 17 Jul 2023. This work will impact the north channel of the swing span bridge 24 hours a day, throughout the maintenance period. The south channel will be open to marine traffic. The bridge will still be able to operate in accordance with the drawbridge operating schedule published in 33 CFR 117.889. Crews will be working from a barge, supported by a tugboat, and will monitor VHF-FM channels 13 and 16. The barge will be anchor at the site with each corner marked with an all-around white light. For more information contact the maintenance crew chief at (503) 991-3102.

Chart 18583

LNM: 05/23

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

SNAKE RIVER – LAKE BRYAN – Bridge notice

WSDOT will be conducting a bridge deck rehabilitation project on the State Route 127 Central Ferry Highway Bridge (LLNR 13757) which crosses the Snake River, near Peyton, Washington, at River Mile 83.2. The work will repair and resurface the existing bridge deck to maintain structural integrity on the north and southbound lanes. Construction will occur between the months of February 2023 and July 2023. Work will be scheduled for 0600 – 1900, Monday – Friday. A containment system will be attached to the bridge 24-hours a day, 7 days per week, and will prevent any falling debris. The containment system will only be in place over half of the navigation channel at any given time and will have a minimum 50 feet of vertical clearance above the full pool elevation. No in-water work is proposed for the project. Mariners are advised to use caution while transiting the area. For additional information, contact the project engineer, Scott Golbek, at (509) 577-1880, or Golbeks@wsdot.wa.gov

Chart 18547

LNM: 05/23

OREGON – WILLAMETTE RIVER – PORT OF PORTLAND – Morrison Bridge notice (Revised from LNM 39/22)

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. This temporary operating rule change is to facilitate Multnomah County's repairs and preservation efforts on the bridge. 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-FM 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 is currently operational 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 and Broadcast 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.

Construction workers will be on site working Monday through Friday during daylight hours. If delays are experienced, night time/weekend work will be required to finish the project by 31 May 2023. Cautionary signs are installed on the approaching sides of the Hawthorne and Burnside Bridges. Inoperable and operable signs are installed at the Hawthorne and Burnside Bridges. Span operation signs are installed on the piers of the Morrison Bridge. Tug boats and barges will be on scene 24 hours per day, and will move around the construction zone. Mariners may contact tugs and barges on working VHF-FM channel 72 or 16. If a barge is in the navigation channel through the draw span, the vessel shall be moved with 24-hour's notice for navigation requirements. Please navigate through the area at minimum speed producing no wake. A safety fairway utilizing the red and green lighting on the bridge leaf and piers has been established. The inoperable span will have a barge and tug anchored supporting work efforts. For additional information on this event, contact Matt Studer at matt.d.studer@multco.us.

Chart 18526

LNM: 02/23

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

OREGON – WILLAMETTE RIVER – PORTLAND TO WALNUT EDDY – Bridge construction notice (Revised from LNM 20/22)
LNM 24/22. For more information contact Kiewit Construction, Ritch Schubert, at (503) 710-2277 or email ritch.schubert@kiewit.com.

LNM: 21/22

WASHINGTON – COWLITZ RIVER – SR-411 Bridge notice

WSDOT will be conducting roadway replacement on the SR-411 Bridge across the Cowlitz River at mile 17.9 near Castle Rock, Washington. The project will begin on 31 Jan 2023 and continue until approximately 18 Dec 2023, weather pending. Containment will reduce the vertical clearance by six feet. The subject bridge's vertical clearance at high water is 8.6 feet and will be reduced to 2.6 feet by containment. The containment will be marked with flashing amber lights. Red and green navigation lights will mark a 50-foot-wide non-reduced vertical clearance span for navigation. The SR-411 bridge is a non-lighted bridge, but due to the vertical clearance being reduced to a hazardous height for marine navigation, warning lights and navigation lights will be installed. Mariners should be cautious of fall hazards. For more information, contact Dan Doumit, WSDOT SW Region at (360) 430-8869 or doumitd@wsdot.wa.gov.

LNM: 04/23

WASHINGTON - LAKE WASHINGTON SHIP CANAL - UNION BAY REACH - SR 520 West Approach Bridge South Bridge Replacement (Revised from LNM 34/22)

American Bridge Company will be constructing the new SR520 West Approach Bridge South extending from the east end of the work trestle that ties into the existing floating bridge and West Navigation Channels. The construction will be supported by crane and material barges along the south side of the work and will continue through May of 2023. During this time, the Contractor will also be removing approximately 2,200ft of temporary work bridge. Mariners are advised to transit with extreme caution when navigating near the project area and be aware that no boaters are permitted between the active work zone and work trestles at any time. For additional information, contact Dennis Suh at (504) 206-6494 or email at dsuh@americanbridge.net.

Chart 18447

LNM: 40/22

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

COLUMBIA RIVER – SNAKE RIVER – 2023 Annual Lock closures for maintenance

The USACE Portland and Walla Walla Districts have scheduled the annual navigation lock maintenance closure for March 2023. During this time, the Locks and Dams on the Columbia and Snake Rivers have scheduled inspections, maintenance, and repair work. Non-routine work includes gate cleaning, structural inspections, and equipment/machinery repair and replacement. All eight (8) of the navigation locks will close on 04 Mar 2023 in accordance with the following schedule:

Columbia River navigation lock maintenance closures are:

Bonneville (RM 146.1) – 0600 on 04 Mar to 2359 on 18 Mar 2023
The Dalles (RM 191.5) – 0600 on 04 Mar to 2359 on 18 Mar 2023
John Day (RM 215.6) – 0600 on 04 Mar to 2359 on 18 Mar 2023
McNary (RM 292) – 0600 on 04 Mar to 2359 on 18 Mar 2023

SNAKE RIVER navigation lock maintenance closures are:

Ice Harbor (RM 9.7) – 0600 on 04 Mar to 2359 on 25 Mar 2023
Lower Monumental (RM 41.6) – 0600 on 04 Mar to 2359 on 18 Mar 2023
Little Goose (RM 70.3) – 0600 on 04 Mar to 2359 on 25 Mar 2023
Lower Granite (RM 107.5) – 0600 on 04 Mar to 2359 on 25 Mar 2023

For additional information regarding Bonneville, The Dalles and John Day lock maintenance closures, contact Portland District Operations Division at (503) 808-5419. For additional information regarding McNary, Ice Harbor, Lower Monumental, Little Goose and Lower Granite lock maintenance closures, contact Walla Walla District Operations Division, at (509) 527-7364.

Charts: 18532 18533 18535 18539 18541 18545 18546 18547

LNM: 36/22

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

BNSF Railway Company (BNSF) is continuing construction on the new BNSF Railroad Bridge 3.9 and starting maintenance work to the existing BNSF Railroad Bridge 3.9 (LLNR 20087) located over Lake Pend Oreille (LPO) Mile 2.7, located approximately at 48-16-20 N, 116-32-39 W, in Sandpoint, ID from the start LPO winter draw-down levels as of 15 Nov 22 through the LPO winter pool or low-water season. There will be two crane-work barge set-ups west of the bridges with support primarily from the East Algoma or geographic south end of the two bridges. Work activities will be focused on repair work to the surface of the exposed during low-water existing bridge's concrete piers, specifically piers 72 through 66 of the existing bridge. Work will be within and along the BNSF right-of-way (ROW). Hours of construction activities will generally be 0700 to 1600, Monday thru Saturday. The tugboat Audrey B will position work barges around the existing piers where work is occurring and provide other on-water project support. The Audrey B can be hailed on VHF-FM channels 73, 13 and 16. At least one of the two lighted, published navigation channels for the existing bridge spans 67 and 68 and spans 36 and 37 of the new bridge will be unobstructed during this work. At least half of the unlighted, but navigable channels of both bridges, will remain unobstructed during work activities. Vertical clearance of the bridges will be unchanged. Crane/work barges will have navigation lights and work zone buoys in accordance with the Navigation Rules (COLREGS-Inland). Enclosure (4) of this LNM displays the project vicinity, locations of high and low-water work areas, typical work barge configurations, and temporary survey post/platform details for this phase of the work activities. Changes to the work locations and activities will be updated by a subsequent LNM in the Spring of 2023. During all phases and locations, the noted navigational buoy-safety lighting for the work areas will be in place. The point of contact for the bridge contractor, Ames Construction, Inc. is Mike Pamperin at (612) 741-6535 or MikePamperin@amesco.com. For additional information contact the BNSF Project Manager, Ryan Kopera, at (913) 284-3467 or Ryan.Kopera@BNSF.com.

Chart 18554

LNM: 50/22

WASHINGTON – PUGET SOUND – LAKE WASHINGTON SHIP CANAL – Hiram M. Chittenden Locks upcoming closures (Revised from LNM 39/22)

Both the large and small lock chambers at the Hiram M. Chittenden Locks in Ballard will close to all marine traffic on 31 Oct 2022 from 0700 to 1500. This closure is to inspect the locks and open a saltwater drain screen structure.

The large lock chamber is scheduled to close to all marine traffic from 0600 on 08 Nov until 1600 23 Nov 2022 for annual maintenance. The small lock will still be available for vessels less than 120 feet in length and 26 feet in width throughout the large lock maintenance period. Emergency vessels have priority, followed by government, commercial and then recreational. Mariners may experience delays, depending on passage demand.

The small locks at the Hiram M. Chittenden Locks in Ballard will be closed to all marine traffic from at 0600 on 06 Mar until 1600 on 20 Mar 2023 for annual maintenance. During this two-week closure, the large lock will be in full service and available to accept vessels.

For current information about activities at the Locks, visit the Locks' Web site at <http://bit.ly/BallardLocks> or follow the Locks on Facebook and Twitter: www.facebook.com/chittendenlocks and [http://twitter.com/ChittendenLocks](https://twitter.com/ChittendenLocks). For specific questions, mariners may contact the lockmasters at (206) 297-9821.

Chart 18447

LNM: 42/22

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

OREGON – APPROACHES TO YAQUINA AND DEPOE BAY – YAQUINA BAY – Marine construction and demolition (Revised from LNM 45/22)

Bergerson Construction, Inc. will commence pier demolition and construction operations at the Oregon State University Ship Operations Pier on Yaquina Bay in approximate position 44-37-32.19 N, 124-02-42.11 W, from 02 Nov 2022 – 01 Jul 2023, Monday – Friday, from 0700 – 1800 daily. A 60' x 120' sectional spud barge with crane and assistant vessel Bubba B will be monitoring VHF-FM channel 17. A yellow, floating turbidity boom/curtain will be used to surround and identify the work area and white flashing lights will be used to demarcate the barge. Mariners are requested to use caution and reduce wake when transiting the area. Mariners should be aware that during this project, the OSU Dock Light (LLNR 9652) will be discontinued. For additional information, contact Bergerson Construction, Inc. at (503) 325-7130.

Chart 18561

LNM: 46/22

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 have been or are being placed at the following locations for evaluation:

On the Columbia, Snake and Willamette Rivers:

Columbia River Entrance Lighted Buoy 3 (LLNR 9911), set on 7/06/2022
Desdemona Sands Lighted Buoy 22 (LLNR 9990), set on 1/13/2022
Hood River Lighted Buoy 36 (LLNR 11932), set on 12/14/2021
Bonneville Pool Lighted Buoy 69 (LLNR 12130), set on 5/10/2022
Lake Celilo Buoy 45 (LLNR 12360), set on 9/28/2021
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 – CRIMS ISLAND TO ST HELENS – MARTIN ISLAND – Marine construction

Advanced American Construction will be constructing a new marine facility on the Washington side of the Columbia River near RM 82.3. Work includes pile driving operations and concrete placement. The M/V RUTH and Derrick Barge DB4100 will be on station from 19 Sep 22 through 30 Apr 23 working 0700 – 1700, Monday through Saturday. Onsite equipment will monitor VHF-FM channels 13 & 16 during working hours. Mariners are requested to reduce speed and avoid the work area. Please call Travis Waggener at (541) 912-9026 or email at travisw@callaac.com for more information.

Chart 18524

LNM: 36/22

COLUMBIA RIVER – VANCOUVER TO BONNEVILLE – CAMAS SLOUGH – WAMS Survey

The U.S. Coast Guard is conducting a user survey for the Camas Slough waterway, in the Columbia River near Camas, WA. The U.S. Coast Guard uses Waterways Analysis and Management Systems (WAMS) to validate the adequacy of the existing Aids to Navigation (AtoN) system in a waterway. This survey is available on the 13th Coast Guard District website at this address: <https://www.pacificarea.uscg.mil/Our-Organization/District-13/District-Staff/-dpw/-wams/>. The deadline for survey entries will be 31 Mar 2023. For additional information please contact LTJG Katie Matha at (206) 220-7283 or email D13-SMB-D13-DPW@uscg.mil

Chart 18531

LNLM: 01/23

COLUMBIA RIVER – HANFORD REACH – HOMESTEAD ISLAND – Missing buoys

Energy Northwest, located on the west side of the Columbia River at river mile 351, has reported two of three buoys marking an intake pipe and the anchor blocks that support it, are missing. Specifically, Hanford Reach Lighted Buoys 1 and 5 are missing, while Hanford Reach Lighted Buoy 3 remains watching properly. Plans are to reset the two missing buoys in the near future. Mariners are requested to reduce speed and stay to the east of Buoy 3 when transiting this section of the river. For more information, contact Marshall Schmitt at (509) 372-5334 or email maschmitt@energy-northwest.com or Mary Ramos at (509) 377-8534 or email mjoyramos@energy-northwest.com.

LNLM: 50/22

WASHINGTON – COLUMBIA RIVER TO DESTRUCTION ISLAND – Research activities and mooring deployments

The University of Washington will be deploying eight research moorings off the Washington Coast, located between 20 – 30 NM offshore of Grays Harbor from 20 – 23 Jul 2022. The moorings will have be at various depths, from the sea bed up to the surface. The one surface mooring will be a 2 foot diameter, yellow float with a yellow light flashing 5 times at one second intervals and then dark for 15 seconds (FL (5) Y 20s). The moorings are expected to remain on site through April of 2023.

The moorings are located, from north to south, at the following locations and depths:

47-06-17.430 N, 124-49-31.744 W, 26 feet below surface
47-04-02.070 N, 124-40-12.664 W, 66 feet below surface
47-03-53.430 N, 124-40-54.064 W, 26 feet below surface
47-02-27.030 N, 124-47-48.064 W, on surface
47-02-24.092 N, 124-48-02.140 W, on the sea bed
47-01-00.630 N, 124-54-42.064 W, 26 feet below surface
47-00-51.990 N, 124-55-23.464 W, on the sea bed
46-58-36.630 N, 124-46-04.384 W, 26 feet below surface

The R/V Sally Ride will be onscene conducting the deployments of the equipment, and will remain in the vicinity to conduct towed sensor operations until 10 Aug 2022. The R/V Sally Ride can be hailed on VHF-FM channel 16 or via cell phone at (858) 253-1347. Mariners are requested to remain 300 yards from any equipment and should avoid trailing any gear or equipment to prevent entanglement when transiting in the vicinity. For additional information, contact John Mickett at (206) 291-5606 or email at mickett@uw.edu.

Chart 18500

LNLM: 28/22

WASHINGTON – APPROACHES TO STRAIT OF JUAN DE FUCA – Olympic Coast National Marine Sanctuary research buoys

The Olympic Coast National Marine Sanctuary (OCNMS) has deployed two unlighted research moorings in the sanctuary which may remain throughout the winter. The first equipment is deployed in position 47-52-34.140 N, 124-44-00.300 W, offshore between James Island and Teahwhit Head. The surface gear consists of an 18-foot halibut pole (with flag and RADAR reflector), a 12-inch low-drag surface float, and an 8-meter-long line attached to the sub-surface gear. Another mooring was set in position 48-10-11.760 N, 124-49-18.000 W, off Cape Alava. This mooring was damaged and there is no visible buoy or gear on the surface. The mooring and some gear remain below the surface in his location and OCNMS will attempt to recover in the near future. Mariners are advised to stay clear of these moorings to avoid entanglement. For more information, contact Lieutenant Junior Grade Haley Glos at (360) 406-2085 or via email at haley.glos@noaa.gov.

Chart 18480

LNLM: 40/22

WASHINGTON – APPROACHES TO STRAIT OF JUAN DE FUCA – Acoustic monitoring sensor

The Olympic Coast National Marine Sanctuary (OCNMS) deployed a sub-surface acoustic mooring at the entrance to the Strait of Juan de Fuca, in location 48-29-25.188 N, 125-00-13.428 W, on 23 Sep 2022. OCNMS will maintain the acoustic mooring, named "OC-02", in an effort to achieve continuous acoustic monitoring of the underwater environment at this site over a five-year period. There is no surface gear on this mooring and the top of the float measures 6.2 meters above the sea floor. The sub-surface gear consists of four scientific instruments connected with a combination of chain and Amsteel line. For more information, contact Lieutenant Junior Grade Haley Glos at (360) 406-2085 or via email at haley.glos@noaa.gov.

Chart 18460

LNLM: 47/22

WASHINGTON – PUGET SOUND – APPLE COVE TO KEYPORT – SEATTLE TO BREMERTON – Environmental monitoring buoys

Puget Sound Restoration Fund is installing research buoys with environmental monitoring instruments at 3 locations in the central Puget Sound:

Tyee Shoal/Wing Point (off Bainbridge Island), 47-37-03.000 N, 122-29-29.040 W.

Point Jefferson (off Indianola), 47-44-30.840 N, 122-29-16.440 W.

Edmonds (north of dive park, Shell Creek) 47-49-13.440 N, 122-22-41.160 W.

Each site will have one surface buoy, yellow in color, 2 ft diameter, with flashing yellow light (FL Y (5) 20s). Buoys will be installed on or about 09 Jan 2023 and remain in place until 31 Dec 2024. Mariners are requested to avoid approaching or tying off to the research buoys. For more information, please contact the Restoration Fund at (206) 780-6947 or email info@restorationfund.org.

Charts: 18446 18449

LNLM: 49/22

WASHINGTON – PUGET SOUND – SEATTLE TO BREMERTON – ELLIOTT BAY – Marine construction

Pacific Pile & Marine is conducting a marine construction project for the City of Seattle at Pier 58 commencing on 20 Sep 2022 and continuing until June of 2023. The in-water work includes timber pier demolition and pile removal, new piling placement, new concrete construction, habitat improvements and cathodic protection systems. There will also be some demolition work conducted just north of pier 62 near the entrance to Bell Harbor Marina. Work hours are typically 0700 – 1900 daily. Pacific Pile will have multiple assets on scene including the Derrick Barge Pacific Lifter. Crews will monitor VHF-FM channels 18 and 19, for mariners with any questions. For more information, contact Andrew Bickley at (425) 890-0019, or email at andrewb@pacificpile.com.

Chart 18450

LNLM: 37/22

WASHINGTON – PUGET SOUND – BREMERTON TO SEATTLE – ELLIOTT BAY – Marine construction

Washington State Ferries is continuing construction of a new Colman Dock ferry terminal at Pier 52 in Seattle. Project will complete in spring 2023. While most in-water work has been completed, mariners should still be alert for marine construction equipment, diving operations, and equipment that may obstruct small sections of the waterway adjacent to Colman Dock. Construction will take place from 0700 – 1700 Monday through Friday. Please direct any inquiries to WSF Communications (206) 402-8070 or by email at ColmanDockProject@wsdot.wa.gov.

Chart 18450

LNM: 36/22

WASHINGTON – PUGET SOUND – ELLIOTT BAY – DUWAMISH WATERWAY – Terminal 5 pier construction (Revised from LNM 02/22)

Orion Marine Contractors is conducting 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 and will run through Oct 2023. Work will typically take place from 0700 to 1700, Monday thru Friday. The Orion 1601 Spud Barge and smaller flat deck barges will be conducting the operations. Each floating plant will have all corners marked with steady burn white lights. The barges will often be spudded down, so mariners are requested to keep a minimum 200-foot distance from the operations. The Orion equipment will monitor VHF-FM channel 13. For additional information, please contact Jesse Galligan at (253) 552-1140 or email at jgalligan@orionmarinegroup.com.

Chart 18450

LNM: 48/22

WASHINGTON – PUGET SOUND – SEATTLE TO BREMERTON – DUWAMISH WATERWAY – Environmental testing (Revised from LNM 41/22)

Anchor QEA will conduct sediment sampling work on the Lower Duwamish Waterway starting on 05 Dec 2022 and extending through May of 2023. The work will be on the 14th Ave Reach from just upstream of the Turning Basin downstream past Slip 2, both inside and outside of the federal navigation channel. This project is EPA-approved and involves small work vessels conducting marine sampling. The planned work schedule is 0700 – 1900, Monday – Friday. Work vessels may be able to move for river traffic. Mariners planning to transit this stretch of the Duwamish are encouraged to contact the vessels in advance via VHF-FM channels 16 or 13, or by calling directly:

M/V Cypress, R/V Cayuse, R/V Tieton, and R/V Stuart at (425) 281-1471

R/V Nancy Anne and R/V Peter R at (206) 418-6173

R/V Carolyn Dow at (206) 550-5202

Mariners can also call the project coordinator, Susan McGroddy, at (206) 251-2129.

Chart 18450

LNM: 47/22

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

The Naval Undersea Warfare Center (NUWC) at Keyport, WA is continuing operations in the vicinity of NUWC between University Point, the Brownsville Marina and Keyport through 23 Dec 2023. 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 call sign for the small craft will be "Keyport Range Control" and will monitor VHF-FM channels 12 and 16. All craft transiting the area are requested to exercise caution and maintain a sharp lookout for possible semi-submerged vehicles while the range is in operation. Questions can be directed to Keyport Range Control on VHF-FM channels 12 and 16 or by contacting the Pacific Northwest Range Management and Ops Division, Range Control Branch, at (360) 396-2313.

Chart 18446

LNM: 49/22

IDAHO – GPS testing

US Strategic Command will conduct GPS testing encompassing a large portion of southern Idaho, for ten days in March and April 2023. The center point of the test will be near Butte County, Idaho, at position 43-34-30 N, 112-58-30 W, with a radius of 161 NM. The GPS navigation signal may be unreliable due to testing on GPS frequencies used by shipboard navigation and handheld systems. Systems that rely on GPS, such as e-911, AIS and DSC, may be affected. The testing frequencies will be GPS L1 and L2. Testing dates and times are as listed below, using Universal Time Coordinated (UTC) or Zulu time:

27 Mar – 05 Apr 2023 / 0700Z – 1100Z & 1900Z – 2300Z

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¤tOutages>.

LNM: 06/23

SAFETY NOTICE – Navigational Range and Sector Light displays on electronic charts

The U.S. Coast Guard has become aware that the Range and Sector Light Characteristic labels are not displayed on Electronic Navigational Charts (ENCs) when used in an Electronic Chart Display and Information System (ECDIS) due to limitations of the S-52 ECDIS display specification. Mariners may query the ENC data directly within ECDIS or refer to the Light List for complete information on Range and Sector Light Characteristics.

LNM: 39/22

OREGON – WASHINGTON – Heavy Weather advisory and resources

As winter weather has arrived in the Pacific Northwest, the Coast Guard is advising mariners to be informed and prepared and to use the resources at their disposal to reduce the likelihood of marine casualties. The Captain of the Port for Puget Sound has released Marine Safety Information Bulletin (MSIB) 002-22 addressing heavy weather measures within the COTP Zone. This MSIB was included as enclosure (4) to LNM 49/22.

Additionally, mariners who operate on Oregon and Washington coastal waters should be especially vigilant during winter months. The Thirteenth Coast Guard District's Special Notice to Mariners has excellent information, especially Chapter 2, Guide to Hazardous Bars. The Special Notice to Mariners can be downloaded at:

https://www.navcen.uscg.gov/pdf/lnms/D13_LNM%20Special%20Local%20Notice%20to%20Mariners_Indefinite.pdf

The National Weather Service maintains a website with current weather conditions at 10 of the coastal bar entrances that is a must for any mariner; visit <https://www.weather.gov/pqr/barcams>. Those pages also list any restrictions or closures to marine traffic at each bar. Mariners can contact any Coast Guard Station for additional information at their location.

LNM: 46/22

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

OREGON – WASHINGTON – IDAHO – NOAA’s planned cancellation of Paper and Raster charts (Revised from LNM 09/21)
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 cancelation, a notice of the intent to cancel a specific chart will be provided via a “Last Edition” notice. The final cancelation 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 “sunsetting” or ending the production of traditional paper charts. However, even prior to traditional chart production ending, users may notice differences between paper charts and ENCs. There are two broad categories of data that are applied onto NOAA ENCs and paper / raster nautical charts – “Critical Corrections” and “Routine” data. Critical Corrections may be newly discovered shoals or other dangers to navigation, as well as changes in the positions or characteristics of aids to navigation (buoys, beacons, and lights). These are typically changes that are published by the Coast Guard in the weekly LNM. Critical corrections are applied to ENCs first, then applied to paper and raster nautical charts. These changes generally appear on both product types (raster and ENC) within a week of each other. However, new Routine source data are now ONLY applied to NOAA ENCs and not to traditional paper and raster nautical charts. Routine data includes the results of ordinary hydrographic and shoreline surveys, which could be extensive. Any specific dangers revealed during routine surveys are extracted from the data and classified as Critical Corrections to be applied to all products. For more information visit NOAA’s website: <https://nauticalcharts.noaa.gov/charts/farewell-to-traditional-nautical-charts.html>

LNM: 15/22

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
9935	<i>Clatsop Spit Lighted Whistle Buoy 8</i>	46-14-57.565N 124-04-40.977W	Q R		4	Red.	AIS: MMSI 993692045 (21).

*

ENCLOSURES

Enclosure 1

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

LNM: 10/23

Enclosure 2

OREGON - WASHINGTON - COLUMBIA RIVER - Summary of Dredging Operations

LNM: 10/23

Enclosure 3

OREGON - WASHINGTON - COLUMBIA RIVER - Summary of Marine Events

LNM: 10/23

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
OREGON COAST						
None						
COLUMBIA RIVER						
	12752	I-82 Highway Bridge (South Bound)	Umatilla, OR	Down river and center span lights extinguished	1/18/2023	0069-23
	13051	Pasco - Kennewick Railroad Bridge	Kennewick, WA	Pier Light extinguished	11/9/2022	0849-22
	13113.5	SR-12 Highway Bridge (west bound)	Pasco, WA	Lights extinguished	12/28/2022	0983-22
	14843	Harry Morgan Highway Bridge	Longview, WA	Lights extinguished	1/13/2023	0055-23
SNAKE RIVER						
	13617	Sargent Railroad Bridge	Lacrosse, WA	Lights extinguished	1/22/2023	0090-23
WILLAMETTE RIVER						
	15152	Wilsonville Railroad Bridge	Wilsonville, OR	Up and down river center green lights extinguished	9/28/2022	None
WASHINGTON COAST						
	15897	Chehalis River Bridge	Aberdeen, WA	Electrical Casualty due to vandalism - bridge must be opened manually. 2-hour advance notice required.	6/8/2022	0414-22
	16072.1	Burlington Northern Railroad Bridge	Aberdeen, WA	Unable to open to marine traffic due to vandalism.	2/1/2023	None
PUGET SOUND						
	16870.1	Spokane Street Bridge	Seattle, WA	Clearance gauge not legible	12/2/2022	None
	16888	South Park Street Bridge	Seattle, WA	Clearance gauge not legible	12/2/2022	None
IDAHO						
	20070	Trail of the Coeur D'Alenes Railroad Bridge	Chatcolet, ID	Following lights are extinguished: downriver center span west green light, downriver west red pier light, upriver center red pier light.	10/11/2022	None
BRIDGE CORRECTIONS						
Waterway	Light List	Bridge Name	Location	Status	Date Reported	BNM
OREGON COAST						
None						
COLUMBIA RIVER						
None						
SNAKE RIVER						
None						
WILLAMETTE RIVER						
None						
WASHINGTON COAST						
None						
PUGET SOUND						
None						
IDAHO						
None						

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

Start Date	End Date	Times	Location	Dredge Vessel	Assist Vessel	Channel monitored	Disposal Area	LNМ
			No events to report					10/23

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 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
11-Mar-23	1030-1300	PNW ORCA Winter Series Race #6	Willamette River, Portland, OR
11-Mar-23	1200-1700	RCYC Frostbite Regatta	Columbia River, Between I-5 and I-205, Portland, OR
20-Mar-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205, Portland, OR
27-Mar-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205, Portland, OR
1-Apr-23	1200-1700	SYSCO COB Challenge	Columbia River, Between I-5 and I-205, Portland, OR
1-Apr-23	0900-1500	Awakening of the Dragon Eye Dotting Ceremony	Willamette River between Marquam and Hawthorne Bridges, Portland, OR
3-Apr-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205, Portland, OR
10-Apr-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205, Portland, OR
15-Apr-23	1200-1700	PYC Opening Day	Columbia River, Between I-5 and I-205, Portland, OR
17-Apr-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205, Portland, OR
18-Apr-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205, Portland, OR
20-Apr-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205, Portland, OR
21-Apr-23	1200-1700	OWSA Tropical Dreams BC Race	Columbia River, Between I-5 and I-205, Portland, OR
22-Apr-23	0800-1500	Rusty Iron	Columbia River near Frenchman's Bar Park, Portland, OR
24-Apr-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205, Portland, OR
25-Apr-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205, Portland, OR
27-Apr-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205, Portland, OR
1-May-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205, Portland, OR
2-May-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205, Portland, OR
4-May-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205, Portland, OR
8-May-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205, Portland, OR
9-May-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205, Portland, OR

MARINE EVENTS

Enclosure (3)

11-May-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205, Portland, OR
15-May-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205, Portland, OR
16-May-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205, Portland, OR
18-May-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205, Portland, OR
22-May-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205, Portland, OR
23-May-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205, Portland, OR
25-May-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205, Portland, OR
26-May-23	2100-2230	Portland Rose Festival Opening	Willamette River from Hawthorne and Morrison Bridge, Portland, OR
26-May-23	0800-1700	Boatnik 2023	Rogue River, Grants Pass, OR
27-May-23	0800-1700	Boatnik 2023	Rogue River, Grants Pass, OR
28-May-23	0800-1700	Boatnik 2023	Rogue River, Grants Pass, OR
29-May-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205, Portland, OR
29-May-23	0800-1700	Boatnik 2023	Rogue River, Grants Pass, OR
30-May-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205, Portland, OR
1-Jun-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205, Portland, OR
2-Jun-23	0600-1800	Water Follies Spring Testing	Columbia River, Kennewick, WA
4-Jun-23	1200-1700	PYC Rose Festival Regatta	Columbia River, Between I-5 and I-205, Portland, OR
5-Jun-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205, Portland, OR
6-Jun-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205, Portland, OR
7-Jun-23	1730-2030	PYC Mauni Elliot	Columbia River, Between I-5 and I-205, Portland, OR
8-Jun-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205, Portland, OR
10-Jun-23	0700-1800	Portland Rosefest Dragon Boat Races	Willamette River between Marquam and Hawthorne Bridges, Portland, OR
11-Jun-23	1200-1700	SYSCO Single Handed BC Race	Columbia River, Between I-5 and I-205, Portland, OR
12-Jun-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205, Portland, OR
13-Jun-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205, Portland, OR
14-Jun-23	1730-2030	PYC Mauni Elliot	Columbia River, Between I-5 and I-205, Portland, OR

MARINE EVENTS

Enclosure (3)

15-Jun-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205, Portland, OR
17-Jun-23	1200-1700	RCYC Medium Distance Race	Columbia River, Between I-5 and I-205, Portland, OR
19-Jun-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205, Portland, OR
20-Jun-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205, Portland, OR
21-Jun-23	1730-2030	PYC Mauni Elliot	Columbia River, Between I-5 and I-205, Portland, OR
22-Jun-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205, Portland, OR
24-Jun-23	2200-2230	Umatilla Landing Days Fireworks	Columbia River, Umatilla, OR
25-Jun-23	0900-1030	Portland SharkFest Swim	Willamette River from Hawthorne Bridge to USS Blueback, Portland, OR
25-Jun-23	1200-1700	SYSCO Grow the Sport BC Race	Columbia River, Between I-5 and I-205, Portland, OR
26-Jun-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205, Portland, OR
27-Jun-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205, Portland, OR
28-Jun-23	1730-2030	PYC Mauni Elliot	Columbia River, Between I-5 and I-205, Portland, OR
29-Jun-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205, Portland, OR

SECTOR PUGET SOUND MARINE EVENTS

EVENT DATE	TIME	EVENT NAME	EVENT LOCATION
18-Mar-23	0930-2130	GHYC Islands Sailboat Race	Gig Harbor, through Colvos Passage, to north shore of Blake Island
18-Mar-23	1015-1330	Bellingham Rough Water Race	Bellingham Bay
18-Mar-23	1200-1600	Shipwright's Regatta	Port Townsend Bay
18-Mar-23	0930-1100	Class Day Regatta	Union Bay, Montlake Cut
18-Mar-23	0800-1330	Husky Open	Union Bay, Montlake Cut
18-Mar-23	0900-1700	CYC Seattle Center Sound Series 1	Shilshole Bay to Blakely Rock
18-Mar-23	1000-1800	Novice Regatta	Port Orchard, Bremerton, Sinclair Inlet
25-Mar-23	1100-2300	40th Annual Blackline Patos Island Race	Haro Strait and Boundary Pass
25-Mar-23	0900-1700	CYC Seattle Center Sound Series 2	Shilshole Bay to Blakely Rock
25-Mar-23	0900-1700	CYC Seattle Center Sound Series 3	Shilshole Bay to Blakely Rock
25-Mar-23	1100-1700	POYC Spring Shakedown	Sinclair Inlet
25-Mar-23	1800-2000	Weekly Friday Series	Port Townsend
31-Mar-23	1000-1730	Harbor Series 3 Zenth Harbor	Commencement Bay, Dalco Passage, East Passage