



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

LOCAL NOTICE TO MARINERS

District: 13

Week: 27/23

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, 2023 (4th) 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
D13-0454-23

Ending BNM
D13-0467-23

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.

WASHINGTON – LEWIS RIVER – Bridge repair

MJ Hughes Construction will be performing bridge deck repair and Under Bridge Inspections on the I-5 Highway Bridge across the Lewis River at RM 5.5. Work will be done on the eastbound bridge from 07 Aug to 30 Sep 23. Work will be done on the westbound bridge from 26 Jul – 14 Sep 24. The bridge deck repair work and under bridge inspection truck will take place Monday – Saturday, 1 or 2 shifts of 10 hours each per day both day and night depending on scope of work. Mariners are advised to use caution while transiting area. For additional information, contact William Hill at (971) 240-7310 email bill.h@mjhughes.com.

Chart 18524

LNM: 27/23

IDAHO – CLEARWATER RIVER – Geotechnical survey operations

The Idaho Transportation Department (ITD) has hired ConeTec to conduct geotechnical survey operations in the vicinity of the US-95 Spalding Bridge across the Clearwater River (RM 10.5) and the US-12 Arrow Bridge (RM 15.1) near Spalding, Idaho. The operations include underwater drilling off a barge located within 200 feet of each bridge. Operations will run seven days a week, from 0700-1700, starting on 10 Jul to 31 Oct 2023. The drilling is performed on a 40'x20' non powered barge with a 20' Jet boat supporting. The barge will be anchored on location by anchors off all four corners. There will be an 18" orange buoy ball attached to each anchor line designating where the lines are below the surface. The barge will show Restricted in Ability to Maneuver dayshapes (Ball/ Diamond/Ball) and lights (Red/White/Red), in addition to white lights on all corners. Mariners are requested to keep a minimum distance of 100' from the equipment. The on-site crew can be reached by contacting Jeffry Parkhurst at (801) 597-8719 or jparkhurst@conetec.com. For more information, contact Mark Campbell, ITD, at (208) 514-6285.

LNM: 27/23

WASHINGTON – PUGET SOUND – PORT TOWNSEND – Oceanographic survey operations

The US Naval Oceanographic Office will commence an oceanographic survey in the Port Townsend Bay out to Admiralty Inlet using unmanned underwater vehicles from 23 to 31 Jul 23, daily from 0700-1800. The Survey Vessel NAVOCEANO will be monitoring VHF-FM channels 13 and 16, and will use lights per the Navigational Rules of the Road. Mariners are requested to use caution and maintain a minimum 200 yards distance from the survey vessel. For additional information, contact the US Naval Oceanographic Office at (727) 417-5750.

Chart 18464

LNM: 27/23

WASHINGTON – PUGET SOUND – SINCLAIR INLET AND RICH PASSAGE – Oceanographic survey operations

The US Naval Oceanographic Office will commence an oceanographic survey within the Sinclair Inlet and through Rich Passage using unmanned underwater vehicles from 09 to 22 Jul 23, daily from 0700-1800. The Survey Vessel NAVOCEANO will be monitoring VHF-FM channels 13 and 16, and will use lights per the Navigational Rules of the Road. Mariners are requested to use caution and maintain a minimum 200 yards distance from the survey vessel. For additional information, contact the US Naval Oceanographic Office at (727) 417-5750.

Chart 18449

LNM: 27/23

WASHINGTON – PUGET SOUND – APPROACHES TO EVERETT – Oceanographic survey operations

The US Naval Oceanographic Office will commence an oceanographic survey in the vicinity of Port Gardner using unmanned underwater vehicles from 01 to 03 Aug 23, daily from 0700-1800. The Survey Vessel NAVOCEANO will be monitoring VHF-FM channels 13 and 16, and will use lights per the Navigational Rules of the Road. Mariners are requested to use caution and maintain a minimum 200 yards distance from the survey vessel. For additional information, contact the US Naval Oceanographic Office at (727) 417-5750.

Chart 18443

LNM: 27/23

COLUMBIA RIVER – CRIMS ISLAND TO ST HELENS – Current measuring buoy

NOAA will be deploying a yellow, oceanographic data collection buoy to measure currents in the Columbia River on 18 Jul 2023 near Crims Island Dike Light 6 (LLNR 10685) at RM 57, in approximate location 46-10-28.44 N 123-06-22.80 W. The buoy has a yellow light with a group flashing (5) every 20 seconds characteristic. The buoy will be deployed from NOAA's R/V Bailey, which will monitor VHF-FM channel 16. The buoy will be in the water from approximately 18 Jul – 30 Sep 2023. For more information, contact Drew Maczko, at (361) 549-3178 or email at drew.maczko@noaa.gov.

Chart 18524

LNLM: 26/23

COLUMBIA RIVER – ST HELENS TO VANCOUVER – Current measuring buoy

NOAA will be deploying a yellow, oceanographic data collection buoy to measure currents in the Columbia River on 18 Jul 2023 in the vicinity of the Vancouver Railroad Bridge (LLNR 11250) at RM 105.6 in approximate location 45-37-34.4 N, 122-41-22.4 W. The buoy has a yellow light with a group flashing (5) every 20 seconds characteristic. The buoy will be deployed from NOAA's R/V Bailey, which will monitor VHF-FM channel 16. The buoy will be in the water from approximately 18 Jul – 30 Sep 2023. For more information, contact Drew Maczko, at (361) 549-3178 or email at drew.maczko@noaa.gov.

Chart 18525

LNLM: 26/23

WASHINGTON – PUGET SOUND – APPLE COVE TO KEYPORT – Temporary lighted buoy (Revised from LNM 20/23)

NOAA's Pacific Marine Environmental Laboratory deployed a temporary research lighted buoy on 18 May 23 approximately 1500 yards northwest of Shilshole Bay Marina in approximate position 47-41-23.22 N, 122-25-18.12 W. The buoy is yellow and grey, round and marked with a flashing yellow four seconds (FL Y 4s) light. This buoy is expected to remain in this location until approximately 28 Jul 23. For more information, contact Cabot Zucker at (425) 477-9554 or email at cabot.zucker@noaa.gov.

Charts: 18446 18473

LNLM: 26/23

WASHINGTON – PUGET SOUND – SEATTLE TO BREMERTON – DUWAMISH WATERWAY – Research activities

Windward Environmental will be performing environmental sampling and trawling in the Lower Duwamish Waterway, Seattle, WA, from 21 – 25 Aug 2023. The study area is bound by the following four points:

47-34-09.856 N, 122-21-07.668 W,
47-34-10.150 N, 122-20-44.187 W,
47-30-38.721 N, 122-17-48.194 W, and
47-30-41.251 N, 122-17-46.357 W.

Work hours will usually be from 0800 – 1700 daily, from the 42-ft R/V Kittiwake. Kittiwake will monitor VHF-FM channel 16 for passing arrangements. The vessel is typically in constant motion during sampling, but if necessary, the sampling equipment may be retrieved and secured in approximately 10 minutes. For more information, please contact Thai Do at (206) 812-5407, or email thaidthai@windwardenv.com.

Chart 18450

LNLM: 26/23

IDAHO – ST. JOE RIVER – Sediment remediation activities

Arcadis will commence sediment remediation on the south side of the St. Joe River within the town of St. Maries, Idaho from 05 Jul – 01 Oct 2023. Site activities include dredging, backfilling, verification surveying and sampling, and water quality monitoring. Operations are expected to occur 12 hours per day (0700 – 1900) and 6 days per week during the construction period. The work area is approximately located at 47-19-19.42 N, 116-34-46.55 W. Construction barge, support scows, and other support boats may be positioned near the dredging area, and monitoring buoys will be deployed during the construction period 24 hours per day and 7 days per week. Warning buoys, lights, day shapes, and other aids to navigation will be deployed per the Navigation Rules of the Road. Mariners are requested to use caution and reduce wake when transiting the area. For additional information, contact Arcadis at (720) 339-6657 or (406) 565-7003.

LNLM: 26/23

OREGON – WASHINGTON – U.S. Coast Pilot 10, 4th Edition release

U.S. Coast Pilot 10, Pacific Coast: Oregon, Washington, Hawaii and Pacific Islands, 3rd Edition, 2022, has been issued and is ready for free download and weekly updates at www.nauticalcharts.noaa.gov/publications/coast-pilot/index.html. The 2023 Edition cancels the preceding 2022 Edition and incorporates all previous corrections. Only Print-on-Demand (POD) bound copies are available for purchase; visit www.nauticalcharts.noaa.gov/publications/print-agents.html#coast-pilot

LNLM: 25/23

OREGON – YAMHILL RIVER – DAYTON – Bridge notice

Demolition and reconstruction of the Ferry Street Pedestrian and Utility Bridge will be conducted from 22 Jun – 30 Nov 2023 by the Stellar J Corporation, for the City of Dayton, Oregon. The bridge is located at the City of Dayton, at river mile 4.95 of the Yamhill River in approximate position 45-13-22.879 N, 123-04-19.078 W. Bridge work will take place from a temporary work platform located adjacent to the existing bridge. Work hours are expected to be Monday – Friday from 0600 – 1800; however, work may occur on other days and times. The temporary navigation channel will be located between bents 4 and 5 and the temporary work platform and will provide a minimum of 15 feet of vertical clearance and 40 feet of horizontal clearance at the ordinary high-water elevation of 75 feet. The temporary navigation channel will be marked by signs indicating the channel. Mariners are advised to use caution while transiting the area. For more information, contact Stellar J Project Manager Joe McNichol at (360) 356-8268 or by email at joem@stellarj.com.

LNLM: 25/23

COLUMBIA RIVER – ST. HELENS TO VANCOUVER – Bridge deviation notice

The Coast Guard intends to approve a temporary deviation request that governs the operating schedule for the Vancouver Railroad Bridge (AKA BNSF Bridge 9.6) (LLNR 11250) across the Columbia River, RM 105.6, at Vancouver, WA. This deviation is necessary to accommodate rail maintenance. The deviation will authorize the swing span of the bridge to remain in the closed-to-navigation position, from 0600 – 1600 on 16 – 19 Oct 2023. The BNSF Bridge 9.6 provides 37.0 feet of vertical clearance in the closed-to-navigation position. The bridge may be opened for emergencies if a one-hour notice is given. If the bridge opens for an emergency, the deviation will be extended past 1600. Vessels that do not require a bridge opening may continue to transit beneath the bridge during this closure period. The bridge shall operate in accordance with 33 CFR §117.5 at all other times. If any mariner cannot support these closure times, please submit a comment by 07 Jul 2023 at d13-smb-d13-bridges@uscg.mil. For more information, contact Travis Woodley at (682) 978-3311.

Chart 18525

LNLM: 25/23

WASHINGTON – LAKE WASHINGTON SHIP CANAL – Bridge deviation notice

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 Street Bridge need not open the draw for marine vessels during heavy road traffic for the 2023 University of Washington football games on the following dates and times:

- 02 Sep, TBD;
- 09 Sep, TBD;
- 23 Sep, TBD;
- 14 Oct, TBD;
- 21 Oct, TBD;
- 11 Nov, TBD;
- 25 Nov, TBD.

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 two and a half hours before and two and a half hours after each game. Due to television scheduling, game times will be published at later dates when determined, and the LNM will be updated with the bridge closure times. 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. The bridge shall operate in accordance with 33 CFR § 117.897 at all other times. If any mariner cannot support the dates listed for a bridge closure, please submit a comment by 07 Jul 2023 at d13-smb-d13-bridges@uscg.mil. For more information, contact Colleen Kelly at (425) 739-3700.

Chart 18447

LNLM: 25/23

WASHINGTON – PUGET SOUND – SARATOGA PASSAGE – Underwater remotely operated vehicle operations (Revised from LNM 24/23)

The U.S. Navy and 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 12 Jun – 31 Aug 2023, in the following locations:

- 48-11-06.498 N, 122-33-51.972 W;
- 48-11-10.422 N, 122-33-21.828 W;
- 48-10-18.822 N, 122-33-15.078 W;
- 48-10-10.284 N, 122-33-45.210 W;
- 48-15-42.774 N, 122-34-24.576 W;
- 48-15-12.162 N, 122-34-08.790 W;
- 48-15-01.626 N, 122-34-54.624 W;
- 48-15-32.232 N, 122-35-10.410 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 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, contact Daniel Bockstege at (850) 339-2011 or (850) 896-5923; email daniel.t.bockstege.civ@us.navy.mil, or Annie Kundert at (978) 353-9330 and via email anne.kundert@gd-ms.com or Ian McGoldrick at (617) 404-7971, or via email ian.mcgoldrick@gd-ms.com.

Chart 18441

LNLM: 25/23

OREGON – WASHINGTON – SAN FRANCISCO TO CAPE FLATTERY – NOAA and Saildrone joint ocean survey operations

SAILDRONE, INC. is conducting oceanographic research with Uncrewed Surface Vehicles (USVs), called "SAILDRONE Explorers" off the coast of California, Oregon and Washington during the months from July thru September 2023. SAILDRONE Explorers are 23 ft in length, 16 ft tall, orange in color, have a white all around light on top of the wing and are marked "SAILDRONE". Three of these vehicles will be following 30 Nautical mile long transects starting 5 nm from shore and running perpendicular to shore on a east/west or west/east course. Saildrone vehicles are uncrewed, wind and solar powered, and will have limited maneuverability during survey operations. Mariners are requested to remain greater than 500 meters away from the research equipment. An informational graphic is included as Enclosure (5) to this LNM. Questions regarding this notice can be directed to Saildrone Mission Control at missioncontrol@saildrone.com or via phone at (510) 722-6070.

Chart 18007

LNLM: 24/23

COLUMBIA RIVER – ST HELENS TO VANCOUVER – LAKE RIVER – Waterway closure for outfall pipeline construction

Advanced American Construction (AAC) will begin marine construction work on Lake River channel on the Washington side of the Columbia River (running parallel to the Columbia near River Mile 98) from 10 July – 17 Nov 2023 to replace the Salmon Creek Treatment Plant Outfall Pipeline. The project location is approximately 45-43-57.95 N, 122-44-46.38 W. The construction activity will take place across the river transferring

materials and equipment from one side to another using modular barges as a bridge / ferry barge. During the dates of 10 Jul - 4 Aug, Lake River will be closed to navigation from Mondays at 0600 until Fridays at 1800. At night and during the weekends, the river will be open to navigation, with buoys with signage and flashing lights deployed 200' upstream and 200' downstream of the work location. Additionally, work activities will continue 7 Aug – 17 Nov 23, with the river open to navigation. Mariners are asked to transit the area with caution and minimize wake. AAC will have support boats on station for this work and will monitor VHF-FM channel 16 during the working hours of 0600 – 1800, Monday - Friday. The floating equipment will remain on-station during non-working hours and will be illuminated at night by fixed white lights on all corners. For an overview of the work site, see Enclosure (4) of this LNM. For additional information, please contact Advanced American Construction, Kyle Izatt, at (503) 849-3336 or email kylei@callaac.com.

Chart 18525

LNM: 24/23

WASHINGTON – APPROACHES TO ADMIRALTY INLET – Sequim Bay research equipment deployment and retrieval

The Pacific Northwest National Laboratory (PNNL) will be deploying and retrieving submerged and drifting scientific equipment in Sequim Bay for approximately 2 weeks between 15 Jun to 13 Jul 2023. The submerged scientific equipment will be located at approximately 48-04-46.913 N, 123-01-49.649 W. Surface marker buoys will denote the submerged equipment positions. The R/V Strait Science may be on scene during the deployment, operation, and retrieval. The vessel may be hailed on VHF-FM channel 16. For additional information, contact PNNL Marine Sciences Laboratory, Ruth Branch, at (360) 681-3665 or email ruth.branch@pnnl.gov.

Chart 18471

LNM: 23/23

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	
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	
11305	Portland Airport Dike Light 16	LT IMCH	18531	0464-23	27/23	
11455	Camas Slough Range Front Light	LT EXT/STRUCT DMGD	18531	0769-22	42/22	
11465	Government Island Range Front Light	LT EXT/DAYMK MISSING/STRUCT DMGD	18531	0346-23	20/23	
11490	Lady Island Range Front Light	LT EXT/DAYMK MISSING/STRUCT DMGD	18531	0346-23	20/23	
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	
15635	Grays Harbor South Reach Light 16	LT EXT/DAYMK MISSING/STRUCT DMGD	18502	0330-23	19/23	
17360	Nisqually Flats Light 3	STRUCT DEST/TRLB	18448	0404-21	24/21	
17595	Kilisut Harbor Buoy 2	MISSING	18464	0126-23	05/23	
17770	Sisters Rock Light 4	DAYMK DMGD	18473	0388-23	23/23	
18710	Oak Harbor Light 11	STRUCT DEST/TRLB	18428	0652-21	39/21	
19325	Davidson Rock Light 1	DAYMK MISSING	18421	0277-23	16/23	
19480	Cypress Reef Junction Daybeacon C	DAYMK MISSING	18424	0512-22	29/22	

DISCREPANCIES (FEDERAL AIDS) CORRECTED

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

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	
10813	Lewis And Clark Bridge Approach Buoy 3	OFF STA	18524	0374-23	22/23	
11244	Hayden Island Anchorage Lighted Buoy B	LT EXT	18526	0467-23	27/23	
11247	Hayden Island Water Monitoring Lighted Buoy A	MISSING	18526	0413-21	25/21	
11912	White Salmon Shoal Lighted Buoy 33	OFF STA	18531	0454-23	27/23	
12860	McNary Research Lighted Float	OFF STA	18541	0428-23	25/23	
17121	Ruston Way Outfall Lighted Buoy	MISSING	18453	0415-23	24/23	
17126	Tacoma Harbor Regulatory Buoys (3)	MISSING	18453	0613-22	34/22	
18540	Navsta Pier Light A	LT EXT	18444	0382-23	22/23	
18549	Port Of Everett Jetty Island Light C	LT EXT	18444	0383-23	22/23	
19023	Padilla Bay Research Lighted Buoy	MISSING	18424	0824-22	44/22	
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
635	Heceta Head Lighthouse	RELIGHTED	18580	None	23/23	27/23

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
10210	Miller Sands Channel Lighted Buoy 3	DISCONTINUED FOR DREDGING	18523	0381-23	22/23	
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	
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
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					CGD01	
(Temp)	ADD	NATIONAL DOCK CHANNEL BUOY 3			at 40-41-09.001N	074-02-48.001W
	Green can					
Corrective Action	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.

18525	38th Ed.	01-JUL-16	Last LNM: 51/21	NAD 83	27/23
Chart Title: Columbia River Saint Helens to Vancouver					
Main Panel 1742 COLUMBIA RIVER SAINT HELENS TO VANCOUVER. Page/Side: A					
LAST EDITION					NOS
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 .					--

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)	Project Date	Ref. LNM
None		

Advance Notice(s)

COLUMBIA RIVER - WILLAPA BAY - PUGET SOUND – Replacement of incandescent Lights with LED lanterns (Revised from LNM 16/23)

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 has been removed and the intensity of the light has been increased.
- Eagle Harbor Light 4 (LLNR 18010) the high intensity beam 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: 27/23

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

WASHINGTON – STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA – Reduction to the nominal range of Point Roberts Light

The U.S. Coast Guard is reducing the intensity of Point Roberts Light (LLNR 19965) from 16 NM to 14 NM to facilitate the installation and operation of a LED lantern. The precise intensity change will be from 23,000 candelas to 9,180 candelas (from 16.0 NM to 14.1 NM). This change is expected to occur during the spring of 2023 and will be announced via a Broadcast Notice to Mariners. Mariners are welcome 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.

Chart 18421

LNM: 11/23

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)

COLUMBIA RIVER – LAKE CELILO – Disestablishment of Miller Island South Channel Range A and installation of Miller

Island South Channel Direction Light 1

Due to ongoing vandalism at Miller Island South Channel Range "A" Rear Light (LLNR 12240), the U.S. Coast Guard is proposing to discontinue Miller Island South Channel Range "A", secure the Rear Range Light (LLNR 12240) and change Miller Island South Channel Range "A" Front Light (LLNR 12235) to Miller Island South Channel Direction Light 1 (LLNR 12235). Light 1 will display an occulting green light flashing every 4 seconds (Oc G 4s) with a nominal range of 5 NM and an arc of 360° and a high intensity beam 1.5° each side of the channel centerline.

Mariners are encouraged to share comments on this change and the performance and operation of these 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.

Chart 18533

LNM: 23/23

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: 27/23

SUMMARY OF DREDGING OPERATIONS

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

LNM: 27/23

SUMMARY OF MARINE EVENTS

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

LNM: 27/23

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

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

SNAKE RIVER – LAKE BRYAN – Bridge notice

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

IDAHO – LOWER GRANITE LAKE – CLEARWATER RIVER – Bridge construction notice

Wadsworth Brothers Construction Company will conduct partial demolition and reconstruction of the US-12 Memorial Bridge, AKA the Clearwater Memorial Highway Bridge (LLNR 14072), from 10 Jul 2023 until 11 Sep 2024. The bridge is located at the City of Lewiston, Idaho at river mile 2.0 of the Clearwater River. Work will occur 7 days per week, up to 24 hours per day. Work includes partially demolishing and reconstruction of the existing bridge in two phases, with one half of the bridge affected in each phase. Temporary navigation channels will be marked with red and green buoys with red or green flashing lights, respectively. Depending on the phase of work, the temporary navigation channel will either be between piers 2 and 3 (span 3) or between piers 3 and 4 (span 4). At least one temporary navigation channel will be available at all times, with some short-term closures required for not longer than three hours per day. Any closures will be approved by the Coast Guard. Each temporary navigation channel will have minimum navigation clearances of 23.06' vertical and 107.79' horizontal. Directional signage and a "no wake" zone will also be placed on both the upstream and downstream locations to direct and advise mariners of the designated navigation channels. The work will be aided by one or more work skiffs and barges. Barges will be marked by white lights on all four corners. Mariners are advised to use caution while transiting the area. For additional information contact Linn Bogart, Project Manager, at (801) 509-8808 or lbogart@wadsbro.com.

Chart 18548

LNM: 17/23

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 LNM 24/22. For more information contact Kiewit Construction, Ritch Schubert, at (503) 710-2277 or email ritsch.schubert@kiewit.com.

LNM: 21/22

OREGON – WILLAMETTE RIVER – INDEPENDENCE – Bridge notice

Marion County will be conducting repairs on the bridge piers of the Independence Street Bridge which crosses the Willamette River at RM 97.1 near Independence, OR. Work below the ordinary high water mark of the river will start June 1, and will end by October 15. This includes work in a backwater channel, on a gravel bar, and in the main channel of the river. Work in the main channel of the river will occur during August and September. Work will occur Monday through Saturday between 0600 and 1700. Construction in the main channel of the Willamette River includes a temporary work bridge and cofferdam around the pier on the west side of the channel (Pier 3). Construction in the backwater channel of the river includes a temporary work bridge that will span the channel, and permanent steel piling around the piers on the edges of the channel. No vessels will be used for the project. Equipment will include typical construction equipment such as excavators. There will be an approximately 400-foot buoy line around the pier at the west edge of the main river channel to guide boaters around the work area. Temporary signage stating "Slow, No Wake" will be placed upstream and downstream of the buoy line. Temporary signage and lighting will be placed on the bridge per USCG specifications. Signs will say "Temporary Work Pier, Danger, Pass to the East". In the backwater channel, there will be little clearance between the temporary work bridge and the water surface. temporary signage and lighting will be placed on the bridge per USCG specifications. Signs will say "Danger. Restricted Clearance Work Area". Mariners are asked to minimize wake and stay east of the buoy line. For more information, contact Mark Foster at (503) 373-4307 or MAFoster@co.marion.or.us.

LNM: 21/23

OREGON – WILLAMETTE RIVER – Bridge construction

ODOT and the Hamilton Construction Company will conduct the complete demolition and reconstruction of the Van Buren Bridge (Oregon Highway 34), across the Willamette River at river mile 131.7 in Corvallis, OR between Jun 2023 and Dec 2026. Construction activity will take place across the entire river at the bridge location. Construction activities will take place primarily from the hours of 0700 to 1800, Monday through Saturday. Bridge construction work will include geotechnical drilling, removal and replacement of the existing bridge, the installation of a temporary work bridge spanning the river just upstream of the existing bridge, and the installation a temporary diversion bridge just downstream of the existing bridge spanning the river and carrying vehicular traffic.

A temporary navigable channel for mariners will be maintained with reduced horizontal and vertical clearances for the duration of the project. The temporary channel will provide an horizontal clearance of at least 40 feet and vertical clearance of at least 17.4 feet from the ordinary high-water elevation (OHW). A temporary river clearance gauge will be mounted to the bridge adjacent to the navigable channel at the upstream side of the temporary work bridge and at the downstream side of the diversion bridge. The river clearance gauge will be white with black letters and will show the actual vertical clearance between the water line and overhead obstructions above the navigable channel. Buoy lines, lighting, and signage will direct mariners through the temporary navigable channel and away from "no-entry" construction areas. The temporary navigable channel will be marked with a floating buoy line consisting of orange floating buoys fitted with white colored reflective tape and white flashing lights (FI W 4s) mounted at 100-foot intervals along the buoy line. Flashing yellow lights (FI Y 4s) will be installed on both the temporary diversion bridge and the temporary work bridge trestle at 100-foot intervals along the outside edge of each structure with one centered over the navigable channel at the upstream edge of the temporary work bridge and the downstream edge of the diversion bridge. Red (FI R 4s) and green (FI G 4s) lights will be mounted on the upstream edge of the temporary work bridge and the downstream edge of the diversion bridge, marking the reduced navigable channel limits. Informational signs (white with black lettering) will be mounted on the upstream side of the temporary work bridge and the downstream side of the temporary diversion bridge. Mariners are advised to use caution while transiting the area. A diagram of the placement of warning signs and buoys was included as enclosure (4) of LNM 22/23. For more information contact Markus Schaaf, at (541) 757-4280 or email markus.schaaf@odot.oregon.gov.

LNM: 19/23

WASHINGTON – SPOKANE RIVER – SPOKANE VALLEY – Bridge construction notice

BNSF Railway Company (BNSF) is starting construction on the new BNSF Railroad Bridge 62.6B located over the Spokane River at River Mile 85.5, in Spokane Valley, WA, at approximate location 47-41-24 N, 117-13-57 W. Contractors will be mobilizing in April 2023 and will be working below the Ordinary High-Water Mark (OHWM) of the river with various construction details for the new bridge through May 2024. A temporary work bridge will be constructed on the downstream (north) side of the existing BNSF bridge. Work will include the installation of an estimated 23 temporary piles. Cranes and other support equipment and materials will be staged on the work bridge throughout the duration of the project. Work will be within and along the BNSF right-of-way (ROW). Hours of construction activities will generally be during daylight hours, Monday thru Friday. The bridge contractor, Hamilton Construction, will have a work boat to provide safety and other on-water project support. The temporary work bridge will have temporary safety navigation lights and work zone buoys in accordance with the Navigation Rules (COLREGS-Inland). Enclosure (4) of LNM 18/23 displayed the project vicinity, locations of high and low-water work areas, the temporary work bridge and new bridge configurations, and the proposed navigation envelope. Applicable changes to the work locations and activities will be updated, if needed, by a subsequent LNM as construction progresses. At all times, navigational safety buoys and/or signage, along with safety lighting for the work areas will be in place. At least one of the four temporary work bridge spans which align with the navigational envelope of the existing bridge will remain unobstructed during the project for vessel traffic. Vertical clearance of the existing bridge will be unchanged. The mariners should be aware of the work zone when travelling beneath the work bridge and new bridge construction areas, and should be vigilant for cables, buoys, falling debris, tools, etc. The point of contact for the bridge contractor, Hamilton Construction, Chris VanderPloeg can be reached at (541) 954-8366; CVanderPloeg@hamil.com. For additional information contact the BNSF Project Engineer, Kyle Leatham (425) 210-8084; Kyle.Leatham@BNSF.com.

LNM: 16/23

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 – 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 22 – 24 Jul 2023. This deviation will facilitate removal and replacement of a defective hydraulic pump. The east span will be closed to mariners from 0100 on 22 Jul until 0500 on 24 Jul. 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 of vertical clearance 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: 23/23

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 – PUGET SOUND – EVERETT HARBOR – SNOHOMISH RIVER – Bridge maintenance

The Interstate 5 Highway Bridge (LLNR 18594.1) across the Snohomish River, mile 5.4, in Everett, WA, will be preserved and painted from 12 Jun 2023 to 31 Oct 2024. Containment up to 4 feet will be installed and reduce the vertical clearance of the subject bridge from 66 feet to 62 feet above high water. Containment will be marked with amber flashing lights on the bottom with flashing amber lights (FL Y 6s). The working hours will be Monday through Saturday 0800 – 1800 and some night work 2100 – 0800. No service barges will be on site. Mariners are free to transit under the subject bridge at any time. For more information contact Michael Xipolitis at (330) 550-7192 or at Mikex@vimaspainting.com

Chart 18444

LNM: 15/23

IDAHO – SPOKANE RIVER – Bridge notice

The Idaho Transportation Department and McMillen, Inc. will perform maintenance on the US-95 Spokane River Bridge located at 47-41-09.7 N, 116-47-57 W from 02 Jun to 11 Oct 2023. Work includes maintenance on concrete piers accessed by aerial lifts mounted on barges. Maintenance activities will take place primarily from the hours of 0700 to 1800, Monday through Friday. Bridge maintenance work will include repair to the concrete piers above the water and re-painting the steel bridge girders. The work barges will be located at one pier at a time, with regulatory buoys (white with Restricted Area symbols) placed in a 400' x 400' configuration upstream and downstream from the location of the barges. Only one opening between bridge piers will be obstructed at a given time. Mariners are advised to use caution while transiting the area. For immediate concerns, mariners can contact Garrett Giffin at (530) 307-9617. For additional project information, contact Erica Aamodt at (509) 956-9013 or email erica.aamodt@itd.idaho.gov.

LNM: 22/23

IDAHO – LAKE PEND OREILLE – BNSF Railroad Bridge Notice

BNSF Railway Company (BNSF) has completed construction on the new BNSF Railroad Bridge 3.9B and is continuing maintenance work to the existing BNSF Railroad Bridge 3.9A (LLNR 20087) located over Lake Pend Oreille (LPO) Mile 2.7, in Sandpoint, ID from the start LPO summer fill-up level, elevation 2062.5 expected by mid-June. This notice reflects updates to the continued work on the maintenance phase of the original bridge. There will be two crane-work barge set-ups east of the bridges with support from both the East Algoma or geographic south end of the two bridges, but also from the geographic north end of the bridges at the established Dog Beach Staging Area. Work activities will be focused on completing the replacement of pier caps and bridge spans/girders. Work will be within and along the BNSF right-of-way (ROW). Hours of

IDAHO – LAKE PEND OREILLE – BNSF Railroad Bridge Notice

construction activities will generally be 0700 to 1730, 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. Audrey B. will monitor VHF-FM channels 73, 13 and 16. At least one of the two lighted, published navigation channels for the original bridge spans 67 and 68 and spans 36 and 37 of the new bridge will be unobstructed during this work. Additionally, 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 LNM 26/23 displayed 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 Fall 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; MikePamperin@amesco.com. For additional information contact the BNSF Project Manager, Ryan Kopera at (913) 284-3467; Ryan.Kopera@BNSF.com.

Chart 18554

LNM: 23/23

COLUMBIA RIVER AND SNAKE RIVER – 2023 summer lockage schedule for recreational vessels (Revised from LNM 17/23)

As of 15 May 2023, the USACE Portland and Walla Walla Districts have implemented the 2023 summer lockage schedule for the passage of recreational vessels through the following navigation locks:

Lock Name	Location	Phone Number	Radio Call Sign
Portland District:			
Bonneville Lock	Columbia River Mile 145.5	(541) 374-8323	WUJ 33
The Dalles Lock	Columbia River Mile 191.5	(541) 506-8211	WUJ 34
John Day Lock	Columbia River Mile 215.6	(541) 739-1050	WUJ 35
Walla Walla District:			
McNary Lock	Columbia River Mile 292	(541) 922-2231	WUJ 41
Ice Harbor Lock	Snake River Mile 9.7	(509) 543-3253 x231	WUJ 42
Lower Monumental Lock	Snake River Mile 41.6	(509) 282-7231	WUJ 43
Little Goose Lock	Snake River Mile 70.3	(509) 399-2233 x231	WUJ 44
Lower Granite Lock	Snake River Mile 107.5	(509) 843-1493 x231	WUJ 45

The following annual recreational craft lockage schedules will be implemented for all the locks beginning 15 May through 15 Sep 2023:

Upstream Direction Times: 0900, 1200, 1500, 1800, 2100
 Downstream Direction Times: 0930, 1230, 1530, 1830, 2130

When a recreational vessel lockage schedule is in effect, recreational vessels will only be allowed to lock through at the times designated for such lockages and they will take precedence over commercial vessels. Commercial vessels will continue to be locked through upon arrival except during the times specified for recreational vessel lockages. At the discretion of the lock operator, recreational vessels may be allowed to lock through with commercial craft. USACE will consider special lockages, outside the above scheduled lockage times, for flotillas or other unique activities sponsored by yacht clubs, marinas, and other groups, provided advance (at least 24-hours) arrangements have been made with the appropriate control room operator. A personal flotation device is required for every member on board the recreational vessel and shall be worn throughout the duration of the lockage. All vessel owner/operators lock through at their own risk and must follow the directions of the lock operator when using the locks or operating in the vicinity of the locks. The lock operator has final authority on the suitability of a craft for lockage. Information on the locks, including how to safely lock a recreational vessel is available at <https://www.nww.usace.army.mil/Missions/Navigation/>, and Enclosure (5) to this LNM highlights the Safe Lockage Policy. For additional information on this matter please call the Walla Walla Operations Division, at telephone (509) 527-7364, or email Kenneth.E.Koebberling@usace.army.mil.

Charts: 18546 18547 18548

LNM: 20/23

SNAKE RIVER – USACE Walla Walla District 2023 Minimum Operating Pool (MOP) operations and spring spill operations

From April through August 2023, the lower Snake River reservoirs will operate within the Minimum Operating Pool (MOP) ranges. During this time, all lower Snake and lower Columbia River dams will spill for fish passage in accordance with the 2023 Fish Operations Plan. The Fish Operations Plan will be posted prior to 03 Apr on the following website: <http://pweb.crohms.org/tmt/documents/fpp/2023/>.

MOP ranges for each Snake River pool are listed below. (Elevations are in feet using NGVD 29 datum):

Ice Harbor, Lake Sacajawea – 437-438.5
 Lower Monumental, Lake Herbert G. West – 537-538.5
 Little Goose, Lake Bryan – 633-634.5
 Lower Granite, Lower Granite Lake – 733-734.5

Due to recent changes in fish passage spill requirements, USACE anticipates a higher rate of discharge through the spillways compared to previous years, and river navigators may experience strong currents and eddies in the dam tailraces and forebays. If navigators believe river conditions inhibit safe navigation to or from a lock, they may request a temporary adjustment to spill using the contact information below. Contact with lock and dam shift operators should be initiated no later than 30 minutes prior to arriving at the lock, as a requested redistribution or reduction of spill may take as long as 30 minutes to attenuate. Additionally, downstream departures may be delayed for the requested spill change to be implemented and take effect.

McNary Operator at (541) 922-2231. Call Sign WUJ41 McNary.
 Ice Harbor Operator at (509)-543-3231. Call Sign WUJ42 Ice Harbor.
 Lower Monumental Operator at (509) 282-7231. Call Sign WUJ43 Lower Monumental.
 Little Goose Operator at (509) 399-2233 x231. Call Sign WUJ44 Little Goose.
 Lower Granite Operator at (509) 843-2231. Call Sign WUJ45 Lower Granite.

Navigators are encouraged to contact dam operators and report any unsafe navigation conditions. District staff will evaluate the effects of this year's operations in conjunction with feedback from river users and coordinate adjustments to spillway gate positioning as appropriate. For additional information contact the NWW Operations Division at (509) 527-7364.

Charts: 18545 18546 18547 18548

LNM: 14/23

WASHINGTON – PUGET SOUND – LAKE WASHINGTON SHIP CANAL – Hiram M. Chittenden Locks Center Miter Gates replacement project

USACE is beginning a maintenance project to replace the center miter gates on the Large Lock chamber. This 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

WASHINGTON – PUGET SOUND – LAKE WASHINGTON SHIP CANAL – Hiram M. Chittenden Locks Center Miter Gates replacement project

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 <http://twitter.com/ChittendenLocks>. For specific questions, mariners may contact the lockmasters at (206) 297-9821.

Chart 18447

LNLM: 11/23

OREGON – WASHINGTON – Autonomous vessel ocean research

Liquid Robotics (www.liquid-robotics.com) will conduct autonomous, uncrewed, maritime vehicle operations off the Oregon and Washington coasts from 18 May – 07 Jul 2023 between, and around (within 5 NM) of the following coordinates:

42-49-14.9 N, 125-03-04.3 W

43-34-24.6 N, 125-06-12.6 W

43-55-06.9 N, 125-09-39.8 W

44-25-44.0 N, 125-11-37.3 W

44-32-30.0 N, 124-09 06.0 W

44-49-54.8 N, 125-07-13.4 W

45-16-59.9 N, 124-50-52.1 W

45-18-08.5 N, 124-57-56.3 W

Operations consist of scientific ocean data collection. Wave Glider carries no fuel, lubricants, or hydrocarbons, is wave powered, remotely attended from our Wave Glider Operations Center (WGOC), moving at speeds of typically 1 knot. Wave Glider is designed to give way when an AIS-equipped vessel is detected. It is surfboard size, copper in color, with a contact plaque and mast extending 1 meter above the surface supporting a flag. Mariners are urged to transit the area with caution. For up-to-date information, mariners can contact Liquid Robotics Operations Center at (703) 376-9300, or by email at support@liquid-robotics.com.

Chart 18007

LNLM: 21/23

OREGON – TILLAMOOK BAY – Waterway and Aids to Navigation Survey

The Coast Guard is conducting a user survey for Tillamook Bay Bar and Entrance in Oregon. The Coast Guard uses the Waterways Analysis and Management System (WAMS) to validate the adequacy of the existing aids to navigation (ATON) system, as well as to get a better understanding of the uses of each waterway and general safety issues. WAMS focuses on the waterway's present ATON system, marine casualty information, port and harbor resources, changes in recreational and commercial marine vessel usage and future development and dredging projects. The survey is available at the Thirteenth Coast Guard District WAMS website: <https://www.pacificarea.uscg.mil/Our-Organization/District-13/District-Divisions/-dpw/-wams/>. The deadline for survey entries is 31 Jul 2023. For additional information please contact John Moriarty at (206) 220-7274 or email D13-SMB-D13-DPW@uscg.mil.

Chart 18558

LNLM: 15/23

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 placed at the following locations for evaluation:

On the Columbia, Snake and Willamette Rivers:

Desdemona Sands Lighted Buoy 22 (LLNR 9990)

Hood River Lighted Buoy 36 (LLNR 11932)

Bonneville Pool Lighted Buoy 69 (LLNR 12130)

Lake Celilo Buoy 45 (LLNR 12360)

Lake Wallula Lighted Buoy 2 (LLNR 12815)

Snake River Buoy 14 (LLNR 13195)

Elk Rock Buoy 10 (LLNR 15005)

In Grays Harbor and Admiralty Inlet Washington:

Point Chehalis Lighted Buoy 4 (LLNR 15990)

Point Wilson Lighted Buoy 6 (LLNR 16470)

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

LNLM: 52/22

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

Scheduled repairs of the South Jetty have commenced and are planned to continue through 2024. The 2023 seasonal operations are underway, and the equipment is working on or atop the jetty in an area with water on both sides of the jetty structure working west. 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 on approximately 16 May 2023. 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) 741-0681 or email ademase@jemcamis.com, or the project superintendent, Aaron Anderson at (503) 791-2161 or email AAnderson@jemcamis.com.

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

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: 20/23

COLUMBIA RIVER – HARRINGTON POINT TO CRIMS ISLAND – WESTPORT – Current measuring buoy

NOAA will be deploying a yellow, oceanographic data collection buoy to measure currents in the Columbia River on 08 May 2023 near Pancake Point between RM 44 and 45, in approximate location 46-08-46.56 N, 123-21-55.50 W. The buoy has a yellow light with a group flashing (5) every 20 seconds characteristic. The buoy will be deployed from NOAA's R/V Bailey, which will monitor VHF-FM channel 16. The buoy will be in the water from approximately 08 May to 18 Jul 2023. For more information, contact Drew Maczko, at (361) 549-3178 or email at drew.maczko@noaa.gov.

Chart 18523

LNM: 18/23

COLUMBIA RIVER – ST HELENS TO VANCOUVER – HENRICI CHANNEL – Current measuring buoy

NOAA will be deploying a yellow, oceanographic data collection buoy to measure currents in the Columbia River on 08 May 2023 near Knapp Point Light 19 (LLNR 11135) at RM 95, in approximate location 45-44-43.86 N, 122-45-31.44 W. The buoy has a yellow light with a group flashing (5) every 20 seconds characteristic. The buoy will be deployed from NOAA's R/V Bailey, which will monitor VHF-FM channel 16. The buoy will be in the water from approximately 08 May to 18 Jul 2023. For more information, contact Drew Maczko, at (361) 549-3178 or email at drew.maczko@noaa.gov.

Chart 18525

LNM: 18/23

COLUMBIA RIVER – HANFORD REACH – HOMESTEAD ISLAND – Missing buoys (Revised from LNM 50/22)

Energy Northwest, located on the west side of the Columbia River at river mile 351, has reported that Hanford Reach Lighted Buoys 1, 3 and 5 are all missing. The buoys are intended to mark an intake pipe and the anchor blocks that support it near the Energy Northwest facility. Until the buoys can be reset, mariners are requested to reduce speed and use caution near the western side of the river when transiting in this area. For more information, contact Marshall Schmitt at (509) 372-5334 or email maschmitt@energy-northwest.com or Brad Barfuss at (509) 377-8639 or email bcbarfuss@energy-northwest.com.

LNM: 19/23

SNAKE RIVER – LAKE SACAJAWEA TO LOWER GRANITE LAKE – Scientific sensor deployments and recoveries

Pacific Northwest National Laboratory (PNNL) will be deploying, servicing, and recovering underwater scientific instruments in the Snake River from mid-March through November of 2023. Operations will occur approximately every three weeks through the seven-month time period at eight locations at approximate river miles 2, 10, 25, 40, 42, 71, 83, 107, and 108. Research operations will be conducted from the research vessel Raider, which can be reached by phone at (509) 521-5260. Mariners are asked to keep a safe distance from moored research equipment and the research vessel. For more information, contact Scott Titzler at (509) 521-5260.

Charts: 18545 18546 18547 18548

LNM: 12/23

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

WASHINGTON – COLUMBIA RIVER TO CAPE FLATTERY – Oceanographic research

Olympic Coast National Marine Sanctuary will be conducting oceanographic research between Makah Bay and Cape Elizabeth from 02 Jun until Oct 2023. The R/V Storm Petrel has deployed ten moorings at the locations listed below. On these mooring, surface gear consists of an 18-foot halibut pole (with flag and RADAR reflector), a 12-inch low-drag surface float (Polyform LD-2), and an 8-meter-long Amsteel line attached to sub-surface gear. Sub-surface gear consists of additional line segments, a 14-inch trawl float two meters below mean lower low water, oceanographic instruments, hardware, and an anchor weighing 264 pounds. The anchor consists of four 2.75-inch chain links, connected as two pairs. The moorings are located at the following sites/positions:

MB015	48-19-31.380N	124-40-36.600W
MB042	48-19-26.280N	124-44-07.380W
CA015	48-09-58.680N	124-45-24.600W
CA042	48-09-57.660N	124-49-24.120W
TH015	47-52-34.020N	124-37-10.080W
TH042	47-52-34.140N	124-44-00.300W
KL015	47-36-03.000N	124-25-42.240W
KL027	47-35-40.440N	124-29-49.440W
CE015	47-21-24.420N	124-20-53.280W
CE042	47-21-11.280N	124-29-19.440W

For additional information, please contact the Vessel Operations Coordinator at (360) 406-2085.

Charts: 18480 18500

LNM: 23/23

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

LNM: 47/22

WASHINGTON – STRAIT OF JUAN DE FUCA – ECHO Program 2023 Voluntary Tug Lateral Displacement

As of 01 Jun 2023, 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 2023. 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/lateraldisplacement/>

Chart 18460

LNM: 22/23

WASHINGTON – STRAIT OF JUAN DE FUCA – SWIFTSURE BANK – ECHO Program 2023 Voluntary Ship Slowdown at Swiftsure Bank

Effective 01 Jun 2023, the Enhancing Cetacean Habitat and Observation (ECHO) Program voluntary ship slowdown 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 – Bulklers, tankers, general cargo vessels, and government vessels; and,
- 14.5 knots – Vehicle carriers, cruise ships, and container vessels.

The voluntary ship slowdown 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 ship slowdown at 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 2023. The voluntary slowdowns at Swiftsure Bank and in Haro Strait and Boundary Pass are led by the Vancouver Fraser Port Authority's ECHO program, in cooperation with government agencies, Indigenous communities, industry partners and environmental groups. For more detailed information related to this slowdown 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: 22/23

WASHINGTON – GPS testing

US Strategic Command has proposed GPS testing encompassing the entirety of western Washington, including the waters of Puget Sound, the Salish Sea, the Strait of Juan de Fuca, and coastal waters including Grays Harbor and Willapa Bay. The center point of the test will be at position 47-43-17.1 N, 122-42-52.1 W with a radius of 104 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 Pacific Daylight Time as local time:

- 0500 – 0900 and 1200 – 1600 on 24 Jul 23;
- 0500 – 0900 and 1200 – 1600 on 25 Jul 23;
- 0500 – 0900 and 1200 – 1600 on 26 Jul 23;
- 0500 – 0900 and 1200 – 1600 on 27 Jul 23;

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>.

Charts: 18400 18440 18480 18500

LNM: 16/23

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

LNM: 49/22

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 jjgalligan@orionmarinegroup.com.

Chart 18450

LNM: 48/22

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 & 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 PNW Range Management and Ops Division, Range Control Branch, at (360) 396-2313.

Chart 18446

LNM: 49/22

WASHINGTON – STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA – HARO STRAIT AND BOUNDARY PASS – ECHO Program

**WASHINGTON – STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA – HARO STRAIT AND BOUNDARY PASS – ECHO Program
2023 Voluntary Ship Slowdown in Haro Strait and Boundary Pass**

Effective 01 Jun 2023, the Enhancing Cetacean Habitat and Observation (ECHO) Program voluntary ship slowdown through Haro Strait and Boundary Pass 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.

This voluntary slowdown takes place between the vessel traffic separation scheme at the south end of Haro Strait, and the vessel traffic separation scheme at the north end of Boundary Pass. Speed transition zones are in place within the established traffic system at both approaches to the slowdown area. The north transition zone are those waters between north of Boat Pass, Saturna Island and Rosenfeld Rock and the south transition zone are those waters between buoy VH at the Victoria pilot station, and Sea Bird Point at the southeast corner of Discovery Island. There are also two optional slow down areas, one rounding turn point and the other between Turn point, Saturna Island and Alden Point, Potos Island. The ECHO Program ship slowdown in Haro Strait and Boundary Pass 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 30 Nov 2023, unless southern resident killer whales are absent in the area for more than two weeks in November. 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 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/haro-slowdown/>

Chart 18421

LNM: 23/23

**WASHINGTON – STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA – CAP SANTE WATERWAY TO HAT ISLAND 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 01 Jun to 30 Sep 2023. Dive operations will take place from 0800-1600 daily from one of the following vessels; the F/V Cadence, F/V Mistress, or the F/V Nicole C, loaded with surface supplied air divers and full complement of surface supplied air diving equipment. The personnel involved are aware of, and will avoid working during active commercial, tribal and recreational fisheries. 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 area includes the northern region of Padilla Bay, from Saddlebag Island to William Point. All the vessels involved 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 POC Kyle Antonelis at (206) 355-9358 or kantonelis@nrccorp.com.

Charts: 18421 18424 18427

LNM: 22/23

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 – 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 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
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SECTION VIII - LIGHT LIST CORRECTIONS (Continued)

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
15410	SOUTH WILLAPA BAY LIGHT 7	46-36-32.976N 123-58-28.073W	Fl G 4s	22	5	SG on pile.	27/23
					*		*

ENCLOSURES

Enclosure 1

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

LNM: 27/23

Enclosure 2

OREGON - WASHINGTON - COLUMBIA RIVER - Summary of Dredging Operations

LNM: 27/23

Enclosure 3

OREGON - WASHINGTON - COLUMBIA RIVER - Summary of Marine Events

LNM: 27/23

Enclosure 4

COLUMBIA RIVER – ST HELENS TO VANCOUVER – LAKE RIVER – Waterway closure for outfall pipeline construction

LNM: 24/23

Enclosure 5

OREGON – WASHINGTON – SAN FRANCISCO TO CAPE FLATTERY – NOAA and Saildrone joint ocean survey operations

LNM: 24/23

If you have any questions, comments, or need additional information concerning this or other LNM's (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						
	13607	Joso Railroad Bridge	Joso, WA	Multiple lights extinguished	6/16/2023	0426-23
	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	LNM
5-Jul-23	12-Jul-23	24 Hrs / 7 Days	Chetco River (RM -00-05 to 00+18)	M/V Yaquina	None	VHF-FM 13 & 16	BERM (NS) ODMDS	27/23
5-Jul-23	12-Jul-23	24 Hrs / 7 Days	Rogue River (RM 00-20 to 00+10)	M/V Yaquina	None	VHF-FM 13 & 16	ODMDS	27/23
5-Jul-23	12-Jul-23	24 Hrs / 7 Days	Coquille River (RM -00-10 to 00+35)	M/V Yaquina	None	VHF-FM 13 & 16	ODMDS	27/23
5-Jul-23	12-Jul-23	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 (FWB)	27/23
5-Jul-23	12-Jul-23	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 (FWB)	27/23
5-Jul-23	12-Jul-23	24 Hrs / 7 Days	Coos Bay (Foul Wx Backup) (RM 09+05 to 11+40)	M/V Yaquina	None	VHF-FM 13 & 16	Site F Site G (FWB)	27/23
5-Jul-23	12-Jul-23	24 Hrs / 7 Days	Siuslaw River (RM -00+30 to 00+35)	M/V Yaquina	None	VHF-FM 13 & 16	ODMDS N/S	27/23
5-Jul-23	12-Jul-23	24 Hrs / 7 Days	Siuslaw River (RM 02+00 to 04+00)	M/V Yaquina	None	VHF-FM 13 & 16	ODMDS N/S	27/23
5-Jul-23	12-Jul-23	24 Hrs / 7 Days	Yaquina Bay (FWB) (RM 00-50 to 02+21)	M/V Yaquina	None	VHF-FM 13 & 16	ODMDS N/S	27/23
28-Jun-23	30-Nov-23	24 Hrs / 7 Days	Columbia River; various locations (RM 03+00 to 105+00)	M/V Bayport	M/V John M	VHF-FM 13, 16 & 66	TBD	27/23
5-Jul-23	11-Aug-23	24 Hrs / 7 Days	Columbia River; Miller Sands (RM 22+05 to 23+10)	M/V Oregon	Clackamas, Ivanhoff, Williams	VHF-FM 13 & 16	WA side	26/23
13-Jul-23	13-Jul-23	24 Hrs / 7 Days	Columbia River; Skamokawa (RM 33+50 to 34+05)	M/V Essayons	None	VHF-FM 13 & 16	RM 31 WA Side	27/23
12-Jul-23	12-Jul-23	24 Hrs / 7 Days	Columbia River; Puget Island (RM 37+40 to 39+05)	M/V Essayons	None	VHF-FM 13 & 16	RM 39 OR Side	27/23
11-Jul-23	12-Jul-23	24 Hrs / 7 Days	Columbia River; Eureka Bar (RM 48+10 to 39+05)	M/V Essayons	None	VHF-FM 13 & 16	RM 45 WA Side	27/23
10-Jul-23	11-Jul-23	24 Hrs / 7 Days	Columbia River; Stella Range (RM 56+40 to 57+30)	M/V Essayons	None	VHF-FM 13 & 16	RM 45 WA Side	27/23
28-Jun-23	5-Jul-23	24 Hrs / 7 Days	Columbia River; Stella and Walker Bars (RM 58+10 to 59+25)	M/V Bayport	M/V John M	VHF-FM 13, 16 & 66	O-59.8-IW W-53.1-IW O-52.7.	27/23
8-Jul-23	10-Jul-23	24 Hrs / 7 Days	Columbia River; Slaughters (RM 63+40 to 65+15)	M/V Essayons	None	VHF-FM 13 & 16	RM 62 OR Side RM 59 WA Side	27/23
5-Jul-23	9-Jul-23	24 Hrs / 7 Days	Columbia River; Slaughters Channel and Turn Basin (RM 66+10 to 67+35)	M/V Bayport	M/V John M	VHF-FM 13, 16 & 66	O-62.2-IW O-62.9-IW	27/23
7-Jul-23	8-Jul-23	24 Hrs / 7 Days	Columbia River; Lower Martin (RM 79+10 to 80+00)	M/V Essayons	None	VHF-FM 13 & 16	RM 78 OR Side	27/23
6-Jul-23	6-Jul-23	24 Hrs / 7 Days	Columbia River; Henrici (RM 90+20 to 90+35)	M/V Essayons	None	VHF-FM 13 & 16	RM 90 OR Side	27/23
5-Jul-23	6-Jul-23	24 Hrs / 7 Days	Columbia River; Willow Bar (RM 96+30 to 97+30)	M/V Essayons	None	VHF-FM 13 & 16	RM 95 OR Side	27/23

OREGON - COLUMBIA RIVER - WASHINGTON DREDGING OPERATIONS**Enclosure (2)**

3-Jul-23	5-Jul-23	24 Hrs / 7 Days	Columbia River; Vancouver Turning Basin (RM 104+30 to RM 105+30)	M/V Essayons	None	VHF-FM 13 & 16	RM 101 WA Side	27/23
10-Jul-23	14-Jul-23	0700-1500	Willamette River, east side (RM 24)	Dredge #6	RossIsle, Santiam	VHF-FM 13 & 80	Inwater flow disposal	26/23

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
6-Jul-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205
7-Jul-23	0800-1700	Kiteboard 4 Cancer	Columbia River, Hood River, OR
8-Jul-23	0800-1700	Kiteboard 4 Cancer	Columbia River, Hood River, OR
8-Jul-23	0800-1700	Gorge Outrigger Canoe Race	Columbia River, Stevenson, WA
8-Jul-23	2200-2230	Rainier Days in the Park	Columbia River, Rainier, OR
9-Jul-23	0800-1700	Kiteboard 4 Cancer	Columbia River, Hood River, OR
9-Jul-23	0600-1600	Portland Bridge Swim	Willamette River, from Sellwood Bridge to St. John's Bridge, Portland, OR
10-Jul-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205
10-Jul-23	1100-1600	Gorge Downwind Champs	Columbia River, Home Valley to Hood River
11-Jul-23	1100-1600	Gorge Downwind Champs	Columbia River, Home Valley to Hood River
11-Jul-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205
12-Jul-23	1100-1600	Gorge Downwind Champs	Columbia River, Home Valley to Hood River
13-Jul-23	1100-1600	Gorge Downwind Champs	Columbia River, Home Valley to Hood River
13-Jul-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205
14-Jul-23	1100-1600	Gorge Downwind Champs	Columbia River, Home Valley to Hood River
15-Jul-23	1100-1600	Gorge Downwind Champs	Columbia River, Home Valley to Hood River
15-Jul-23	1200-1700	SYSCO One Design Races	Columbia River, Between I-5 and I-205
15-Jul-23	2200-2300	Toledo Summer Festival	Toledo, OR
15-Jul-23	1100-1600	Smoke on the Water Hobie Cat Regatta	Columbia River, off Skamokawa Vista Park, Skamokawa, WA
16-Jul-23	1200-1700	PYC Family Night BC Race	Columbia River, Between I-5 and I-205
17-Jul-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205
18-Jul-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205
20-Jul-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205
23-Jul-23	1200-1700	RCYC Pirates Beer Can Race	Columbia River, Between I-5 and I-205
24-Jul-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205
25-Jul-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205
27-Jul-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205
28-Jul-23	0600-1800	Tri-Cities Columbia Cup	Columbia River, Kennewick, WA
29-Jul-23	0800-1900	HR1D Regatta	Hood River, OR
29-Jul-23	1200-1700	SYSCO St Helens Race & Cruise	Columbia River, Daymark 39 St Helens, OR
29-Jul-23	0600-1800	Tri-Cities Columbia Cup	Columbia River, Kennewick, WA
30-Jul-23	0800-1900	HR1D Regatta	Hood River, OR
30-Jul-23	0600-1800	Tri-Cities Columbia Cup	Columbia River, Kennewick, WA
31-Jul-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205

MARINE EVENTS

Enclosure (3)

1-Aug-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205
3-Aug-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205
5-Aug-23	0800-1600	Kalama Outrigger Canoe Race	Columbia River, Kalama, WA
5-Aug-23	0800-1600	Paddle for Life	Columbia River, Hood River, OR
5-Aug-23	0800-1900	HRYC Double Damned 2023	Columbia River, Cascade Locks to The Dalles
6-Aug-23	1200-1700	SYSCO Disco Party	Columbia River, Between I-5 and I-205
7-Aug-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205
8-Aug-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205
10-Aug-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205
12-Aug-23	1630-1800	Astoria Regatta Boat Parade	Columbia River, Astoria Waterfront, Astoria, OR
12-Aug-23	1200-1700	SYSCO Dual Bridge Duel	Columbia River, Between I-5 and I-205
12-Aug-23	1100-1300	Swim the Snake	Snake River, Perry, WA
14-Aug-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205
15-Aug-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205
17-Aug-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205
19-Aug-23	1200-1700	CYC Sport Your Colors BC Race	Columbia River, Between I-5 and I-205
21-Aug-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205
22-Aug-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205
24-Aug-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205
27-Aug-23	1200-1700	CAL 20 Mardi Gras BC Race	Columbia River, Between I-5 and I-205
28-Aug-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205
29-Aug-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205
31-Aug-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205
2-Sep-23	0900-1700	Thunder on the Snake	Snake River, Lewiston, ID to Bear Bar
3-Sep-23	0900-1700	Thunder on the Snake	Snake River, Lewiston, ID to Bear Bar
4-Sep-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205
5-Sep-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205
7-Sep-23	1730-2030	SYSCO Summer Evening Series	Columbia River, Between I-5 and I-205
9-Sep-23	0730-1030	Columbia River Swim	Columbia River, Kennewick WA
9-Sep-23	0800-1200	Wild Diversity's Pedal, Run, Paddle	Columbia River, off Broughton Beach, Portland, OR
9-Sep-23	1200-1700	RCYC Long Distance Race	Columbia River, Day Mark 39 St Helens, OR
10-Sep-23	1000-1700	RCYC Long Distance Race	Columbia River, Day Mark 39 St Helens, OR
11-Sep-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205
16-Sep-23	1200-1700	PYC Robert A Smith Regatta	Columbia River, Between I-5 and I-205
17-Sep-23	1200-1700	PYC Robert A Smith Regatta	Columbia River, Between I-5 and I-205
18-Sep-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205
23-Sep-23	1200-1700	SYSCO One Design Races	Columbia River, Between I-5 and I-205
24-Sep-23	1200-1700	CYC Sailing on Sunday Series	Columbia River, Between I-5 and I-205
25-Sep-23	1800-1930	ISC Island Sailing Mondays	Columbia River, Between I-5 and I-205
30-Sep-23	1200-1700	OWSA Out of this world BC Race	Columbia River, Between I-5 and I-205
1-Oct-23	1200-1700	CYC Sailing on Sunday Series	Columbia River, Between I-5 and I-205
8-Oct-23	1200-1700	CYC Sailing on Sunday Series	Columbia River, Between I-5 and I-205

MARINE EVENTS

Enclosure (3)

15-Oct-23	1200-1700	CYC Sailing on Sunday Series	Columbia River, Between I-5 and I-205
22-Oct-23	1200-1700	CYC Sailing on Sunday Series	Columbia River, Between I-5 and I-205
29-Oct-23	1200-1700	CYC Sailing on Sunday Series	Columbia River, Between I-5 and I-205
5-Nov-23	1200-1700	CYC Sailing on Sunday Series	Columbia River, Between I-5 and I-205
12-Nov-23	1200-1700	CYC Sailing on Sunday Series	Columbia River, Between I-5 and I-205
19-Nov-23	1200-1700	CYC Sailing on Sunday Series	Columbia River, Between I-5 and I-205
26-Nov-23	1200-1700	CYC Sailing on Sunday Series	Columbia River, Between I-5 and I-205
3-Dec-23	1200-1700	CYC Sailing on Sunday Series	Columbia River, Between I-5 and I-205
10-Dec-23	1200-1700	CYC Sailing on Sunday Series	Columbia River, Between I-5 and I-205

SECTOR PUGET SOUND MARINE EVENTS			
EVENT DATE	TIME	EVENT NAME	EVENT LOCATION
5-Jul-23	1800-2000	Wed Weekly Series	Port Townsend
6-Jul-23	1900-2030	Downtown Sailing Series - Elliott Bay Marina	Elliot Bay
6-Jul-23	1830-2130	TTPYC 2023 Summer Sailboat Racing Series	Adjacent to City of Des Moines Marina
6-Jul-23	1200-1500	SBYC Duck Dodge Races	Sequim Bay
7-Jul-23	1800-2100	MSA Log Dodge Series Sailboat Races	Port Gardner and Possession Sound
7-Jul-23	1800-2000	Weekly Friday Series	Port Townsend
7-Jul-23	1800-2000	Spring Friday Night Series	Sinclair Inlet
7-Jul-23	1900-2130	Take Your Time Friday's Race Series	Shilshole Bay
8-Jul-23	1000-1300	Budd Inlet Race	Budd Inlet
8-Jul-23	1030-2000	Three Buoy Fiasco	Shilshole Bay to Skiff Point to Point Jefferson to Meadow Point
8-Jul-23	0900-	Annual International Cruiser Navigation Rally	Padilla Bay, Bellingham Bay, and Rosario Strait
8-Jul-23	2145-2150	Simply Grand Events Bunker/Murphy Wedding	Hayden Lake Country Club, Hayden Lake
10-Jul-23	1730-2000	Ballard Cup Series 2	Shilshole Bay
12-Jul-23	1800-2000	Wed Weekly Series	Port Townsend
13-Jul-23	1900-2030	Downtown Sailing Series - Elliott Bay Marina	Elliot Bay
13-Jul-23	1830-2130	TTPYC 2023 Summer Sailboat Racing Series	Adjacent to City of Des Moines Marina
13-Jul-23	1200-1500	SBYC Duck Dodge Races	Sequim Bay
14-Jul-23	1800-2100	MSA Log Dodge Series Sailboat Races	Port Gardner and Possession Sound
14-Jul-23	1800-2000	Weekly Friday Series	Port Townsend
14-Jul-23	1800-2000	Spring Friday Night Series	Sinclair Inlet
14-Jul-23	1900-2130	Take Your Time Friday's Race Series	Shilshole Bay
15-Jul-23	1300-1630	Three Hour Tour Series 2	Commencement Bay, Dalco Passage, East Passage
15-Jul-23	2200-2230	Mercer Island Summer Celebration	Lake Washington
17-Jul-23	1730-2000	Ballard Cup Series 2	Shilshole Bay
19-Jul-23	1800-2000	Wed Weekly Series	Port Townsend
20-Jul-23	1900-2030	Downtown Sailing Series - Elliott Bay Marina	Elliot Bay
20-Jul-23	1830-2130	TTPYC 2023 Summer Sailboat Racing Series	Adjacent to City of Des Moines Marina

MARINE EVENTS

Enclosure (3)

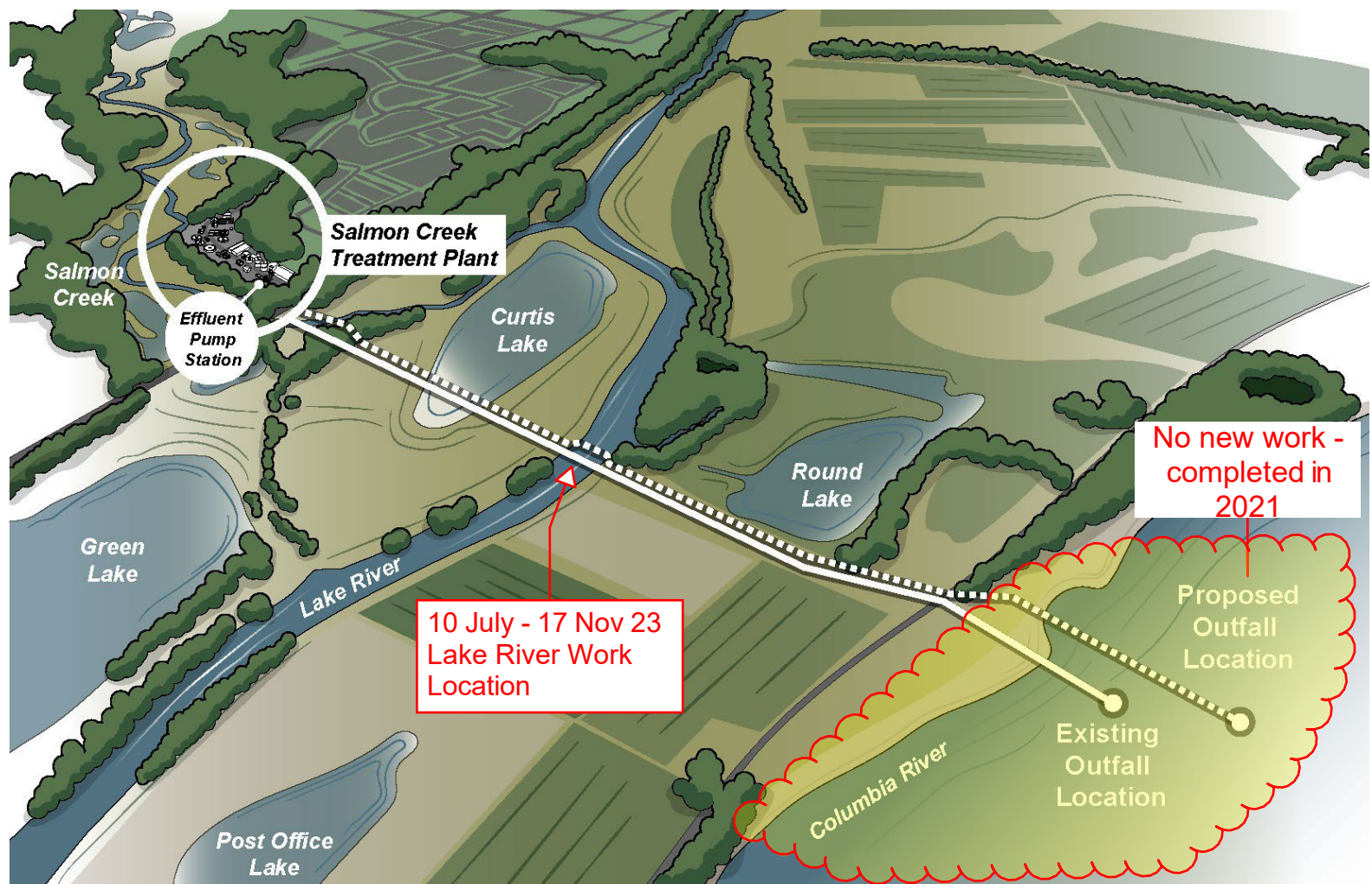
20-Jul-23	1200-1500	SBYC Duck Dodge Races	Sequim Bay
21-Jul-23	1800-2100	MSA Log Dodge Series Sailboat Races	Port Gardner and Possession Sound
21-Jul-23	0600-1400	Salish 100	Swantown Marina, Olympia to Henderson Cove
21-Jul-23	1900-2130	Take Your Time Friday's Race Series	Shilshole Bay
22-Jul-23	1000-1600	Watmough Bay Cruise	Port Townsend to SE Lopez Island
22-Jul-23	1030-2000	Women at the Helm I	IVO Shilshole Bay
22-Jul-23	0600-1400	Salish 100	Henderson Cove to Penrose State Park
23-Jul-23	1000-1600	Watmough Bay Cruise	SE Lopez Island to Port Townsend
23-Jul-23	0600-1400	Salish 100	Penrose State Park to Gig Harbor
24-Jul-23	1730-2000	Ballard Cup Series 3	Shilshole Bay
24-Jul-23	0600-1400	Salish 100	Gig Harbor to Blake Island
25-Jul-23	0600-1400	Salish 100	Blake Island to Kingston
26-Jul-23	1800-2000	Wed Weekly Series	Port Townsend
26-Jul-23	0600-1400	Salish 100	Kingston to Port Ludlow
27-Jul-23	1900-2030	Downtown Sailing Series - Elliott Bay Marina	Elliot Bay
27-Jul-23	1830-2130	TTPYC 2023 Summer Sailboat Racing Series	Adjacent to City of Des Moines Marina
27-Jul-23	1200-1500	SBYC Duck Dodge Races	Sequim Bay
27-Jul-23	0600-1400	Salish 100	Port Ludlow to Port Townsend (via Port Townsend Ship Canal)
28-Jul-23	1800-2100	MSA Log Dodge Series Sailboat Races	Port Gardner and Possession Sound
28-Jul-23	1800-2000	Weekly Friday Series	Port Townsend
28-Jul-23	1900-2130	Take Your Time Friday's Race Series	Shilshole Bay
28-Jul-23	2200-2230	Whaling Days Fireworks	Dyes Inlet
29-Jul-23	0900-1600	Da Grind	Alki Beach to Blake Island
29-Jul-23	1830-2130	TTPYC 2023 Summer Sailboat Racing Series	Adjacent to City of Des Moines Marina
29-Jul-23	2200-2210	Community Cancer Fund Showcase	Lake Coeur d'Alene
31-Jul-23	1730-2000	Ballard Cup Series 3	Shilshole Bay



The Salmon Creek Treatment Plant received and treats roughly 8-10 million gallons of wastewater per day from approximately 120,000 Clark County homes & businesses. The Phase 5 Expansion project will ensure that the treatment plant can continue to meet the region's long-term needs.

Construction impacts on the Lake River will commence summer of 2023

- Waterway Closure - Lake River closed to navigation at location on map below
July 10 - Aug 4 Mon 0600 - Fri 1800 weekly (channel open on weekends)
- Waterway Advisory - Lake River open to navigation at location on map below
Aug 7 - Nov 17 (Construction Hazards - Mariners advised to use caution)



Questions & Concerns
info@callaac.com
503-445-9000





RESEARCH EQUIPMENT IN WATER

West Coast of the United States
July 1st to Sept 30th , 2023

SAILDRONE, INC. will operate three Uncrewed Surface Vehicles (USVs) in collaboration with the National Marine Fisheries Service and the Southwest Fisheries Science Center to systematically survey coastal pelagic fish species off the coastal waters of California, Oregon and Washington.

For more context of past years studies visit

<https://www.fisheries.noaa.gov/feature-story/saildrones-join-noaas-west-coast-fleet-experimental-fisheries-surveys>

**VESSELS ARE REQUESTED TO TRANSIT THE AREA WITH CAUTION, AND REMAIN
GREATER THAN 500 METERS AWAY FROM THE RESEARCH EQUIPMENT.**

Saildrone→e USVs are wind powered Uncrewed Surface Vehicles that carry important oceanographic research instrumentation and are controlled from shore through satellite communications.

- **Color: Orange**
- **Light: white all-round light**
- **Radar Reflector: Yes**
- **Notation: "Saildrone"**
- **Length: 23 ft & Width: 2 ft**
- **Height: 16 ft above water line**
- **Draft: 6 ft, Avg. speed: 3 kts**
- **GPS / AIS**



SAILDRONE MISSION CONTROL
(510) 722-6070
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SCIENCE CONTACTS
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