



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

LOCAL NOTICE TO MARINERS

District: 13

Week: 08/16

ISSUED BY: COMMANDER, THIRTEENTH COAST GUARD DISTRICT (dpw)
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<http://www.navcen.uscg.gov/?pageName=lnmDistrict®ion=13>

COMDTPUB P16502.6, Light List Volume VI, 2016 Edition and Coast Pilot Volume 7, 2016.
Coast Pilots, along with corrections, are available at: <http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm>.

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). NANU notices can also be obtained via e-mail subscription through the USCG Navigation Center website:

<http://www.navcen.uscg.gov/?pageName=GPS>.

In addition, the NIS investigates all reports of degradation or loss of GPS or DGPS service. Mariners are encouraged to report all degradation of radio navigation services to the NIS via any of the following: Phone: 703-313-5900, Email: webmaster@navcen.uscg.mil, or on the World Wide Web: <http://www.navcen.uscg.gov>.

BROADCAST NOTICE TO MARINERS

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

Originating Unit	Beginning BNM	Ending BNM
CGD THIRTEEN	D13-0158-16	D13-0174-16

ABBREVIATIONS

A through H

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

I through O

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

P through Z

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

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

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

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:

AIS - Automatic Identification System
 LLNR - Light List Number
 NM - Nautical Miles
 CPA - Closest Point of Approach
 RM - River Mile Marker

V-AIS - Virtual AIS
 VTS - Vessel Traffic Service
 WSDOT - Washington State Department of Transportation
 NUWC - Naval Undersea Warfare Center
 RAC - Racon

AtoN - Aids to Navigation
 COTP - Captain of the Port
 ODOT - Oregon Department of Transportation

SECTION I - SPECIAL NOTICES

This section contains information of special concern to the Mariner.

COLUMBIA RIVER – SNAKE RIVER – 2016 Annual Lock Closures for Maintenance (Re-issue from LNM 02/16)

COLUMBIA RIVER – SNAKE RIVER – 2016 Annual Lock Closures for Maintenance (Re-issue from LNM 02/16)

The annual navigation lock maintenance closures are scheduled during March 2016. Columbia River navigation lock maintenance closures are: The Locks and Dams have scheduled routine inspections and maintenance, as well as some non-routine work. The non-routine work includes gate structural repairs and machinery replacement.

Columbia River navigation lock maintenance closures are:

Project	Closes	Reopens
Bonneville (RM 145)	0600, 05 Mar 16	2359, 19 Mar 16
The Dalles (RM 191)	0600, 05 Mar 16	2359, 19 Mar 16
John Day (RM 216)	0600, 05 Mar 16	2359, 19 Mar 16

Snake River navigation lock maintenance closures are:

Project	Closes	Reopens
McNary (RM 292)	0600, 05 Mar 16	2359, 26 Mar 16
Ice Harbor (RM 9.7)	0600, 05 Mar 16	2359, 26 Mar 16
Lower Monumental (RM 41.6)	0600, 05 Mar 16	2359, 26 Mar 16
Little Goose (RM 70.3)	0600, 05 Mar 16	2359, 26 Mar 16
Lower Granite (RM 107.3)	0600, 05 Mar 16	2359, 26 Mar 16

For additional scheduled outage information for the USACE Portland and Walla Walla Districts, visit: <http://www.usace.army.mil/Locations.aspx>.

LNM: 08/16

SNAKE RIVER – LOWER GRANITE NAVIGATION LOCK - LAKE BRYAN – Lockage delays

Locking through the Lower Granite Navigation Lock and Dam, located at Snake River Mile 107.5, may require additional time beginning 25 Feb 16 through 05 Mar 16 for inspections. Lower Granite staff will inspect and measure components of the equipment for future replacement. While the equipment is out of service, vessel lockage time may lengthen by approximately 15 to 20 minutes. For additional information, call USACE Walla Walla District Operations Division at (509) 527-7113 or (509) 527-7115.

Chart 18547

LNM: 08/16

WASHINGTON – PUGET SOUND – APPLE COVE POINT TO KEYPORT; AGATE PASSAGE – Temporary lighted buoy retrieved

NOAA has retrieved a temporary research lighted buoy southwest of Spring Beach at approximate position 47-43-54.828N, 122-23-45.486W. For more information contact Mr. Christian Meinig at (206) 526-6149 or email Christian.Meinig@noaa.gov.

Chart 18446

LNM: 08/16

WASHINGTON – PUGET SOUND - HOOD CANAL AND DABOB BAY - Test Barge removed, buoys still deployed (Revised from LNM 41/15)

Naval Surface Warfare Center Detachment Puget Sound has removed the test barge and unlighted yellow mooring buoys from the waters west of the Naval Base Kitsap Bangor waterfront but the anchor buoys remain on station. The anchor buoys are white with blue stripes. Their locations are as follows:

Anchor buoy #1 white with a blue stripe, at 47-44-16.40N, 122-45-42.558W
Anchor buoy #2 white with a blue stripe, at 47-44-07.302N, 122-45-54.852W
Anchor buoy #3 white with a blue stripe, at 47-44-00.984N, 122-45-44.424W
Mariners should use caution when transiting in the vicinity of these buoys. For additional information please contact Mr. Jason Brustad at (360) 396-2958 or (360) 731-2909, or email Jason.brustad@navy.mil.

Charts: 18476 18477

LNM: 08/16

WASHINGTON – LAKE WASHINGTON SHIP CANAL - HIRAM M. CHITTENDEN LOCKS – Small lock closure

The Hiram M. Chittenden small lock will be closed from 1200 14 Mar 16 to 1700 25 Mar 16 to conduct an inspection. The only exceptions will be for emergency vessels. The large lock will remain operational during this time. For additional information contact lockmasters Mr. Larry Meyer or Mrs. Vickie Shepard at 206-789-2622 ext. 230, or Public Affairs Officer Bill Dowel, at 206-764-3464.

Chart 18447

LNM: 08/16

WASHINGTON – LAKE WASHINGTON – Annual summer refill

The USACE will begin the annual summer refill of Lake Washington on 18 Feb 16. The final refill target is 22.0 feet by 01 May 16 measured at the locks. Owners of vessels, docks, slips and other structures are advised to monitor the rise in lake elevations. For more information, review the Corp's web site at: <http://www.nwd-wc.usace.army.mil/nws/hh/www/index.html#>, or call (206) 764-3750.

Chart 18447

LNM: 08/16

WASHINGTON – LAKE WASHINGTON SHIP CANAL – Montlake Bridge Special Bridge Notice

The U.S. Coast Guard has issued a temporary deviation from the normal operating schedule that governs the Montlake Bridge (LLNR 18240) over the Lake Washington Ship Canal, mile 5.2, in Seattle, WA. The deviation period is from 0700 to 1800 on 02 Apr 16, and from 0630 to 1230 on 03 Apr 16. The deviation is necessary to accommodate the grand opening of the new Evergreen Point Floating Bridge bike ride by the Cascade Bicycle Club. The Montlake Bridge in the closed position provides 30 feet of vertical clearance throughout the navigation channel, and 46 feet of vertical clearance throughout the center 60 feet of the bridge; vertical clearance references to the Mean Water Level of Lake Washington. Vessels that do not require a bridge opening may continue to transit beneath this bridge during the closure. The U.S. Coast Guard will inform the users of the waterway through our Local Broadcast Notices to Mariners of any change in this operating schedule. The bridge shall operate in accordance to 33 CFR § 117.897 at all other times. For additional information contact Ms. Barbara J. Rasaie at 425-739-3700 or email rasaieB@wsdot.wa.gov.

Chart 18447

LNM: 08/16

WASHINGTON – LAKE WASHINGTON SHIP CANAL – LAKE WASHINGTON – SR-520 Special Bridge Notice – Critical Navigation Notice – Part A (Revised from LNM 05/16)

The U.S. Coast Guard has established a temporary safety zone on Lake Washington around the east span of the SR-520 Bridge in Seattle, WA due to ongoing construction. The safety zone is necessary to ensure the safety of the maritime public and workers involved in the bridge construction when construction barges are located in the navigation channel under the east span of the bridge. The safety zone will prohibit any person or vessel from entering and remaining in the safety zone unless authorized by the Captain of the Port or his Designated Representative. The safety zone established in this rule encompasses all waters within 100 yards of the east span of the SR-520 Bridge. This rule is effective through 29 March 16.

From 0000 to 2400 on 01 Jan 16 through 31 Mar 16, with the exception of 12 Feb 16 through 28 Feb 16, the east navigation channel of the SR-520 Floating Bridge will be temporarily partially blocked by a flat deck spud barge. If additional clearance is required for safe passage of vessels with air draft of greater than 43 feet, mariners can contact tugboat Big Eagle on VHF-FM Ch. 16 and shifting the barge out of the east navigation channel can be arranged. Marine vessels shorter than 43 feet tall can continue to navigate through the west navigation channel. Boaters can contact tugboat Big Eagle on VHF-FM Ch. 16 for further information regarding the temporary blockage.

From 0000 on 12 Feb 16 through 2400 on 28 Feb 16, the West Navigation channel will be closed to all marine traffic. While the west navigation channel is blocked the east navigation channel will be open to mariners.

Casings are to be installed west of the west navigation channel. Up to six construction barges may be operating in the area installing casings.

Chart 18447

LNM: 08/16

WASHINGTON – LAKE WASHINGTON SHIP CANAL – LAKE WASHINGTON – SR-520 Special Bridge Notice – Critical Navigation Notice – Part B (Revised from LNM 05/16)

Center drawspan:

The center drawspan has been permanently blocked. The new floating bridge does not have a draw span.

East Span:

1. Navigation channel vertical clearance at the east span is restricted to 58 feet until approximately October 2016 when the full 70 foot vertical clearance will be established. The eastern navigation channel will be marked with red and green navigational buoys as shown in Enclosure (4) of LNM 10/15. The eastern navigation channel varies from 168 feet to 200 feet in width with the majority of it being over 180 feet wide.

West Span:

Exclusion area buoys and signage will mark the four Pontoon Alpha submerged anchor wires.

2. Eight temporary pilings (two groups of four pilings) marked with yellow lights flashing every 4 seconds (FI Y 4s) have been placed in the southeast part of Union Bay near the west end of the bridge for the temporary mooring of pontoons. Refer to LNM 05/13 chart 18447 for temporary chart corrections.

3. 12 temporary barge mooring pilings have been placed on the north side of the bridge just west of the west navigation channel and marked with quick flashing yellow lights (QY), which may be obscured at times when barges and other equipment are moored at the site.

4. The west navigation channel has been relocated to the west as depicted in enclosure (4) of LNM 28/15. The vertical clearance for the new channel has been reduced to 43 ft. Vessels with an air draft of greater than 43 feet but less than 58 feet may continue to use the east navigation channel.

Temporary Construction Buoys and Lighting: Eight temporary white mooring buoys (six on the north side and two on the south side) marked with white lights flashing every 4 seconds (FI W 4s) have been deployed near the bridge for the mooring of construction barges and shown as chart corrections in LNM 05/13 for chart 18447.

West Approach Project: Complete

For additional information, contact Mr. Ben Nelson at 925-864-4127 or email Ben.Nelson@Kiewit.com.

Chart 18447

LNM: 08/16

WASHINGTON – STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA – ORCAS ISLAND – East Sound seaplane dock anchorage construction (Revised from LNM 07/16)

Alpha Marine Installations and Strandberg Construction will be laying out anchor locations and installing Helix Anchors for a future seaplane dock/wave attenuator from 08 Feb 16 through approximately 15 Mar 16 at the northern entrance of Cascade Bay to the Rosario Marina. Operations will be during daylight hours seven days a week weather permitting. All work will be conducted from a 24' aluminum landing craft. The vessel will display alpha and dive flags and monitor VHF-FM Ch 13 and 16. Mariners are requested to transit slowly in the area, causing no wake, and leaving a distance of at least 200 ft from the dive vessel. For additional information contact Jim Arnold at 360-915-4777 or Mark Otto at 360-340-2685.

Chart 18421

LNM: 08/16

CANADA – STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA – BOUNDARY PASS – HARO STRAIT - Placement of underwater equipment

Subsurface research buoys have been placed in Boundary Pass and Haro Strait at approximate positions 48-41-07.32N 123-16-26.10W and 48-30-23.68N 123-12-37.92W. The buoys are set to float approximately eight meters above the seabed. Additional subsea research buoys are located in Canadian waters. For additional information contact Mr. Marc LeBlanc at 250-363-2034.

Chart 18421

LNM: 08/16

COLUMBIA RIVER – PORT OF PORTLAND – Terminal 6 crane in lowered position

A container crane at the Port of Portland, OR Terminal 6 at river mile 102.5 will remain in the lowered position until approximately 07 Apr 16 for maintenance and new equipment installation. The crane will extend approximately 104 feet out over the river at a height of approximately 115 feet above Columbia River Datum and will be lighted at night. Mariners are advised to transit the area with caution. For additional information, contact Mr. Fred Myer at 503-415-6542 or email Fred.Myer@portofportland.com.

Chart 18526

LNM: 07/16

OREGON – PORT OF PORTLAND, INCLUDING VANCOUVER; MULTNOMAH CHANNEL-SOUTHERN PART – Debris removal and sand capping

HME Construction, Inc. will conduct debris removal and sand placement at Willamette River Mile (RM) 13.1. Debris removal operations will begin approximately 27 Feb 16. Sand placement will begin approximately 29 Feb 16 and will continue until 18 Mar 16. These operations will be performed 10 hours per day 7 days per week. Debris removal and sand placement operations will be conducted with the derrick Sea Horse. Diving operations will also be conducted from the Sea Horse in support of the operation. All required visual dive signals and navigation lights will be displayed as appropriate. The Sea Horse will operate on VHF-FM Ch. 69 and will monitor channels 13 and 16. For additional information contact Mr. Alan Park at 360-518-1570 or Mr. Darrell Jamieson at 360-772-4072.

Chart 18526

LNM: 07/16

WASHINGTON – COLUMBIA RIVER TO DESTRUCTION ISLAND – Subsurface moorings

NOAA has deployed subsurface acoustic recorder moorings for research at the locations listed in Enclosure (4). The moorings are on station and will begin to be retrieved in July 2016. They are set at various depths up to 500 meters and as shallow as 40 meters. NOAA is requesting that mariners maintain a distance of 500 yards from the positions noted. For additional information contact Dr. M. Bradley Hanson at (206) 860-3220 or email brad.hanson@noaa.gov.

Charts: 18480 18500

LNM: 07/16

WASHINGTON – GRAYS HARBOR – Hazard to navigation (Revised from LNM 05/16)

A 20 foot by 20 foot section of dock has sunk in the Hoquiam River in approximate position 46-58.679N 123-52.950W causing a hazard to navigation. The hazard is marked by a white spherical buoy with a blue horizontal stripe that is lighted. Vessels are advised to use extreme caution while transiting the area, especially at low tide. For additional information mariners are advised to contact U. S. Coast Guard Sector Columbia River at 503-861-6211.

Chart 18502

LNM: 07/16

WASHINGTON – EVERETT – SNOHOMISH RIVER – SR 529 Bridge Special Notice

The U. S. Coast Guard has approved a temporary bridge deviation from the operating schedule that governs the SR-529 bridge from 0730 until 1100 on 10 Apr 16. This deviation allows the swing span of the SR 529 Bridge (north and south bound) across the Snohomish River, mile 3.6, near Everett, WA, and the SR 529 Bridge (north and south bound) across Steamboat Slough, mile 1.1, near Marysville, WA, to remain in the closed position. This request supports the Everett Half Marathon event. Vessels able to pass through the bridge in the closed position may do so at anytime. In accordance with 33 CFR 117.35(e), the drawbridges must return to its regular operating schedule immediately at the end of the effective period of this temporary deviation. For more info, contact Barbara J. Rasaie at rasaieb@wsdot.wa.gov.

Chart 18443

LNM: 07/16

WASHINGTON – STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA – SOUTHERN ROSARIO STRAIT – Subsurface buoy placement

The U.S. Navy will moor two 2' subsurface buoys 21 Mar 16 through 26 Mar 16. Operations will be conducted 0700 through 1800, and possibly 24 hrs a day, with the M/V Golden Dolphin, that will monitor VHF-FM Ch. 05A and 13. The buoys will be moored at approximate position 48-26.000N, 122-47-830W. The U.S. Navy requests that mariners maintain a 300 yard distance. For additional information contact Mr. Jim Kerins at 619-553-5834 or email jim.kerins@navy.mil.

Chart 18421

LNM: 07/16

MONTANA – BILLINGS DGPS SITE – Proposed DGPS Off-Air time

The U.S. Coast Guard Navigation Center is proposing off-air time for the Billings, MT, DGPS broadcast site to conduct maintenance from 0900 to 1100 Mountain Daylight Time (MDT) on 11 Apr 16, with an alternate time of 0900 to 1100 on 12 Apr 16. For additional information or objections, contact the USCG Navigation Center DGPS Operations at (703) 313-5902 or <http://www.navcen.uscg.gov/?pageName=dgpsSiteInfo¤tOutages>.

LNM: 07/16

COLUMBIA RIVER – BLALOCK ISLANDS TO MCNARY DAM- I-82 Highway Bridge Inspection

Washington State Department of Transportation will be inspecting the I-82 Highway Bridges (LLNR 12752 and LLNR 12753) that span the Columbia River located at river mile 292 in Umatilla, OR. The inspection will take place 0830 to 1500 14 through 16 Mar 16. The bridge will be inspected using an under-bridge inspection truck (UBIT) that occupies a portion of the roadway and extends a boom under the bridge. There is minimal impact to navigational clearance from this operation. Mariners are advised to use caution while transiting the area. For additional information, contact Mr. Colt Tatum, P.E. at 360-464-0949 or email tatumc@wsdot.wa.gov.

Chart 18539

LNM: 06/16

WASHINGTON – SPOKANE – Spokane DGPS site off air time

The U.S. Coast Guard Navigation Center has approved off air times for the DGPS site at Spokane, WA, for scheduled maintenance. The site will be unusable from 0900 to 1100 local on 17 Mar 16, with an alternate date from 0900 to 1100 local on 18 Mar 16. There will be no significant loss of coverage due to dual DGPS coverage in the area. For additional information or objections, contact the U.S. Coast Guard Navigation Center DGPS Operations at (703) 313-5816 or 5902.

LNM: 06/16

WASHINGTON – AREA TO BE AVOIDED - OLYMPIC COAST NATIONAL MARINE SANCTUARY - Temporary surface buoy deployment

NOAA has recovered most of its Olympic Coast National Marine Sanctuary scientific moorings and deployed one scientific mooring for the winter. The mooring is marked with a bright orange surface float. The mooring is located off Teahwhit Head at a depth of 42 meters at approximate

position 47-52.560N 124-44.000W and will be in place until approximately June 2016. Two of the moorings previously set during the summer were not present on their assigned stations and are consider missing or adrift. Mariners are advised to use caution while transiting the area. For additional information contact LTJG Justin Ellis at voc.ocnms@noaa.gov or (360) 457-6622 x 14.

Charts: 18480 18500

LNM: 06/16

WASHINGTON – PUGET SOUND – SEATTLE TO OLYMPIA – ROBINSON POINT DGPS SITE – DGPS off-air time

The U.S. Coast Guard Navigation Center has approved off-air time for the Robinson Point, WA DGPS site to conduct equipment maintenance from 1000 to 1400 on 25 Feb 16 with an alternate time of 1000 to 1400 on 26 Feb 16. There will be no significant loss of coverage due to dual coverage in the area. For additional information or objections, contact the Navigation Center DGPS Operations at (703) 313-5902 or at <http://www.navcen.uscg.gov/?pageName=dgpsSiteInfo¤tOutages>.

Chart 18448

LNM: 06/16

USE OF ELECTRONIC CHARTS AND PUBLICATIONS IN LIEU OF PAPER CHARTS, MAPS, AND PUBLICATIONS

The U.S. Coast Guard has issued Navigation and Vessel Inspection Circular (NVIC) No. 01-16 which contains guidance on the use of electronic charts and publications in lieu of paper charts, maps, and publications. This guidance applies to U.S. flagged vessels subject to U.S. domestic chart, map, and publication carriage requirements contained in Titles 33 and 46 of the Code of Federal Regulations. The NVIC can be viewed at <https://www.uscg.mil/hq/cg5/nvic/default.asp> or <https://cgportal2.uscg.mil/library/directives/SitePages/Home.aspx>.

LNM: 06/16

COLUMBIA RIVER – ASTORIA – Old Youngs Bay Construction

Bridge improvements on the Old Youngs Bay Bridge (LLNR 14582) in Astoria will be from 0700 on 15 Feb 16 through 2300 on 15 Jun 16. During construction, the double bascule span will operate in a single leaf mode only, and vessels need to contact the bridge operator at least three hours prior to an opening. Containment will be installed beneath the bridge that will reduce the vertical clearance from 19 feet to 14 feet at high tide. Vessels able to pass through the bridge in the closed positions may do so at anytime. The Old Youngs Bay Bridge can open for emergencies, however, the work crew will need at least a three hour notice from the bridge operator. In accordance with 33 CFR 117.35(e), the drawbridge must return to its regular operating schedule immediately at the end of the effective period of this temporary deviation.

Chart 18521

LNM: 05/16

COLUMBIA RIVER – VANCOUVER – BNSF RR Bridge Closure

The Burlington Northern Santa Fe Railroad Bridge (LLNR 11250) at Columbia River mile 105.6 at Vancouver, WA, need not open for vessels from 0700 on 8 Mar 16 to 1900 on 17 Mar 16, while rail joints are being installed. The bridge can open for emergencies, however the work crew will need to clear the bridge prior to opening. Vessels able to pass through the bridge in the closed positions may do so at anytime. In accordance with 33 CFR 117.35(e), the drawbridge must return to its regular operating schedule immediately at the end of the effective period of this temporary deviation.

Chart 18526

LNM: 05/16

WASHINGTON – LAKE WASHINGTON SHIP CANAL – LAKE WASHINGTON – SR-520 Special Bridge Notice – Critical Navigation Notice – Part B (Revised from LNM 03/16)

Center drawspan:

The center drawspan has been permanently blocked. The new floating bridge does not have a draw span.

East Span:

1. Navigation channel vertical clearance at the east span is restricted to 58 feet until approximately October 2016 when the full 70 foot vertical clearance will be established. The eastern navigation channel will be marked with red and green navigational buoys as shown in Enclosure (4) of LNM 10/15. The eastern navigation channel varies from 168 feet to 200 feet in width with the majority of it being over 180 feet wide.

West Span:

Exclusion area buoys and signage will mark the four Pontoon Alpha submerged anchor wires.

2. Eight temporary pilings (two groups of four pilings) marked with yellow lights flashing every 4 seconds (FI Y 4s) have been placed in the southeast part of Union Bay near the west end of the bridge for the temporary mooring of pontoons. Refer to LNM 05/13 chart 18447 for temporary chart corrections.

3. 12 temporary barge mooring pilings have been placed on the north side of the bridge just west of the west navigation channel and marked with quick flashing yellow lights (QY), which may be obscured at times when barges and other equipment are moored at the site.

4. The west navigation channel has been relocated to the west as depicted in enclosure (4) of LNM 28/15. The vertical clearance for the new channel has been reduced to 43 ft. Vessels with an air draft of greater than 43 feet but less than 58 feet may continue to use the east navigation channel.

Temporary Construction Buoys and Lighting; Eight temporary white mooring buoys (six on the north side and two on the south side) marked with white lights flashing every 4 seconds (FI W 4s) have been deployed near the bridge for the mooring of construction barges and shown as chart corrections in LNM 05/13 for chart 18447.

West Approach Project: Complete

For additional information, contact Mr. Ben Nelson at (425) 864-4127 or email Ben.Nelson@Kiewit.com.

Chart 18447

LNM: 05/16

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
630	Siuslaw River Approach Lighted Whistle Buoy S	LT EXT	18583	0172-16	08/16	
9435	Siuslaw River Approach Lighted Whistle Buoy S	LT EXT	18583	0172-16	08/16	
9605	Yaquina Bay South Jetty Light 4	STRUCT DEST	18581	1075-15	50/15	
10585	Eureka Dike Light 77	STRUCT DMGD	18523	0250-14	15/14	
10885	Cottonwood Island Light 39	LT EXT	18524	0173-16	08/16	
11150	Willow Dike Light 23	STRUCT DEST	18525	0174-14	10/14	
11770	Bonneville Pool Light 4	STRUCT DEST/LT EXT	18531	0905-10	37/10	
13735	Little Goose Reservoir Light 9	STRUCT DEST	18547	0056-16	03/16	
13750	Little Goose Reservoir Light 12	REDUCED INT	18547	0139-16	07/16	
14610	Sand Island Lower Dike Light 1	STRUCT DMGD	18521	1092-15	51/15	
14985	Stevens Point Buoy 4	OFF STA	18528	1071-15	50/15	
15010	Elk Rock Buoy 12	OFF STA	18528	0061-16	04/16	
15585	Point Chehalis Range Front Light	DAYMK MISSING/STRUCT DMGD	18502	1012-09	50/09	
15585	Point Chehalis Range Front Light	LT EXT	18502	0067-13	03/13	
15610	Grays Harbor South Reach Range A Front Light	LT EXT	18502	0746-15	35/15	
15700	Grays Harbor North Channel Lighted Bell Buoy 26	LT IMCH	18502	0133-16	06/16	
16223	Race Rocks East Cautionary Lighted Buoy VG	OFF STA	18465	0116-16	06/16	
17090	Browns Point Light	REDUCED INT	18453	0870-15	41/15	
17747	Port Gamble Lighted Buoy 4	OFF STA	18477	0146-16	07/16	
18115	Shilshole Bay Entrance Leading Light	LT EXT/DAYMK IMCH	18446	1152-15	01/16	
18790	Swinomish Channel South Entrance Lighted Buoy 2	OFF STA	18427	0145-16	07/16	
18820	Swinomish Channel South Entrance Range Front Light	DAYMK MISSING	18427	0144-16	07/16	
19395	Belle Rock Sector Light	LT IMCH	18429	1000-15	47/15	
19690	Haro Strait Lighted Buoy VD	BUOY DMGD/TMK MISSING	18421	0022-16	02/16	
19725	Mosquito Pass Daybeacon 2	STRUCT DEST	18433	0045-16	03/16	

DISCREPANCIES (FEDERAL AIDS) CORRECTED

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
11795	Cascade Rapids Lower Range Front Light 8	RELIGHTED	18532	None	08/16	08/16
15575	Grays Harbor Entrance Lighted Buoy 9	RESET ON STATION	18502	None	08/16	08/16
19510	Lummi Rocks Light 16A	RELIGHTED	18430	0169-16	07/16	08/16

DISCREPANCIES (PRIVATE AIDS)

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
718	Scripps Institute Wave Recorder Lighted Buoy 46211/036	MISSING	18502	0085-16	04/16	
727	OSU Grays Canyon Research Lighted Buoy	MISSING	18500	1039-15	50/15	
15533	Scripps Institute Wave Recorder Lighted Buoy 46211/036	MISSING	18502	0085-16	04/16	
16795	ACOE Shilshole Bay South Lighted Mooring Buoy	MISSING	18446	0267-14	16/14	
17347	Oro Bay Lighted Buoy 3	MISSING	18445	0163-16	08/16	

DISCREPANCIES (PRIVATE AIDS) CORRECTED

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

PLATFORM DISCREPANCIES

Name	Status	Position	BNM Ref.	LNM St	LNM End
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None

PLATFORM DISCREPANCIES CORRECTED

Name	Status	Position	BNM Ref.	LNM St	LNM End
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None

SECTION III - TEMPORARY CHANGES and TEMPORARY CHANGES CORRECTED

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

TEMPORARY CHANGES

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
10585	Eureka Dike Light 77	RELOCATED	18523	0250-14	15/14	
11150	Willow Dike Light 23	TRLB	18525	0177-14	10/14	
11770	Bonneville Pool Light 4	TRLB	18531	0909-10	38/10	
16375	Smith Island Light	DISCONTINUED	18429	1150-15	02/16	
19725	Mosquito Pass Daybeacon 2	TRUB	18433	0045-16	04/16	

TEMPORARY CHANGES CORRECTED

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
18750	Crescent Harbor Navy Pier Breakwater Light	Reestablished	18428	0089-16	25/15	

PLATFORM TEMPORARY CHANGES

Name	Status	Position	BNM Ref.	LNM St	LNM End
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None

PLATFORM TEMPORARY CHANGES CORRECTED

Name	Status	Position	BNM Ref.	LNM St	LNM End
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None

SECTION IV - CHART CORRECTIONS

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

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

Chart Number	Chart Edition	Edition Date	Last Local Notice to Mariners	Horizontal Datum Reference	Source of Correction	Current Local Notice to Mariners
12327	91st Ed.	19-APR-97	Last LNM: 26/97	NAD 83		27/97
Chart Title: NY-NJ-NEW YORK HARBOR - RARITAN RIVER						
Main Panel 2245 NEW YORK HARBOR					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.

18003	20th Ed.	01-NOV-06	Last LNM: 47/15	NAD 83		08/16
<i>Chart Title: Cape Blanco to Cape Flattery</i>						
Main Panel 1651 CAPE BLANCO TO CAPE FLATTERY. Page/Side: N/A						
	RELOCATE	Duntze Rock Lighted Whistle Buoy 2			CGD13 from 48-24-53.919N to 48-24-50.637N	124-45-06.575W 124-45-01.249W
18007	33rd Ed.	01-FEB-09	Last LNM: 47/15	NAD 83		08/16
<i>Chart Title: San Francisco to Cape Flattery</i>						
Main Panel 1652 SAN FRANCISCO TO CAPE FLATTERY. Page/Side: N/A						
	RELOCATE	Duntze Rock Lighted Whistle Buoy 2			CGD13 from 48-24-53.919N to 48-24-50.637N	124-45-06.575W 124-45-01.249W
18400	49th Ed.	01-APR-12	Last LNM: 47/15	NAD 83		08/16
<i>Chart Title: Strait of Georgia and Strait of Juan de Fuca</i>						
Main Panel 1656 STRAIT OF GEORGIA AND STRAIT OF JUAN DE FUCA. Page/Side: N/A						
	RELOCATE	Duntze Rock Lighted Whistle Buoy 2			CGD13 from 48-24-53.919N to 48-24-50.637N	124-45-06.575W 124-45-01.249W
18421	51st Ed.	01-MAY-13	Last LNM: 05/16	NAD 83		08/16
<i>Chart Title: Strait of Juan de Fuca to Strait of Georgia; Drayton Harbor</i>						
CHART WA - STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA. Page/Side: N/A						
	ADD	Bellingham Bay Research Lighted Buoy B Red and Yellow. Priv Fl (5)Y 20s			CGD13 at 48-43-25.291N	122-34-35.514W
18424	28th Ed.	01-FEB-11	Last LNM: 19/15	NAD 83		08/16
<i>Chart Title: Bellingham Bay; Bellingham Harbor</i>						
CHART WA - BELLINGHAM BAY. Page/Side: N/A						
	ADD	Bellingham Bay Research Lighted Buoy B Red and Yellow. Priv Fl (5)Y 20s			CGD13 at 48-43-25.291N	122-34-35.514W
18427	24th Ed.	01-MAY-13	Last LNM: 01/16	NAD 83		08/16
<i>Chart Title: Anacortes to Skagit Bay</i>						
Main Panel 1680 ANACORTES TO SKAGIT BAY. Page/Side: N/A						
	RELOCATE	Swinomish Channel North Entrance Light 13			CGD13 from 48-29-08.237N	122-32-07.395W

to 48-29-08.328N 122-32-07.325W

18440 30th Ed. 01-OCT-10 Last LNM: 04/16 NAD 83 08/16

ChartTitle: Puget Sound

Main Panel 1688 PUGET SOUND. Page/Side: N/A

RELOCATE	Colvos Passage Light 6	CGD13 from 47-22-36.828N to 47-22-36.659N	122-32-18.022W 122-32-17.955W
RELOCATE	Point Evans Light 4	CGD13 from 47-17-07.406N to 47-17-06.947N	122-32-51.450W 122-32-51.771W

18441 47th Ed. 01-JUN-11 Last LNM: 52/15 NAD 83 08/16

ChartTitle: Puget Sound-northern part

Main Panel 1689 PUGET SOUND - NORTHERN PART. Page/Side: N/A

ADD	Port of Indianola Pier Light A Priv FL Y 6s	CGD13 at 47-44-40.000N	122-31-32.000W
ADD	Port of Indianola Pier Light B Priv FL Y 6s	CGD13 at 47-44-40.000N	122-31-33.000W

18446 18th Ed. 01-MAR-11 Last LNM: 17/15 NAD 83 08/16

ChartTitle: Puget Sound-Apple Cove Point to Keyport;Agate Passage

CHART WA - PUGET SOUND - APPLE COVE POINT TO KEYPORT. Page/Side: N/A

ADD	Port of Indianola Pier Light A Priv FL Y 6s	CGD13 at 47-44-40.000N	122-31-32.000W
ADD	Port of Indianola Pier Light B Priv FL Y 6s	CGD13 at 47-44-40.000N	122-31-33.000W

18448 36th Ed. 01-DEC-15 Last LNM: 04/16 NAD 83 08/16

ChartTitle: Puget Sound-southern part

CHART WA - PUGET SOUND - SOUTHERN PART. Page/Side: N/A

RELOCATE	Colvos Passage Light 6	CGD13 from 47-22-36.828N to 47-22-36.659N	122-32-18.022W 122-32-17.955W
RELOCATE	Point Evans Light 4	CGD13 from 47-17-07.406N to 47-17-06.947N	122-32-51.450W 122-32-51.771W
ADD	Windy Point Shellfish Pen Light A Priv FL Y 4s	CGD13 at 47-10-20.130N	122-57-32.772W

18460 14th Ed. 01-JAN-13 Last LNM: 35/15 NAD 83 08/16

ChartTitle: Strait of Juan de Fuca Entrance

Main Panel 1720 STRAIT OF JUAN DE FUCA ENTRANCE. Page/Side: E

RELOCATE	Duntze Rock Lighted Whistle Buoy 2	CGD13 from 48-24-53.919N to 48-24-50.637N	124-45-06.575W 124-45-01.249W
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18471 11th Ed. 01-DEC-07 Last LNM: 50/15 NAD 83 08/16

ChartTitle: Approaches to Admiralty Inlet Dungeness to Oak Bay

Main Panel 1724 APPROACHES TO ADMIRALTY INLET - DUNGENESS TO OAK BAY. Page/Side: N/A

RELOCATE	Sequim Bay Daybeacon 7	CGD13 from 48-04-28.625N to 48-04-28.553N	123-02-34.883W 123-02-34.852W
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18473 8th Ed. 01-SEP-05 Last LNM: 52/15 NAD 83 08/16
 ChartTitle: Puget Sound-Oak Bay to Shilshole Bay
 Main Panel 1937 OAK BAY TO SHILSHOLE BAY PUGET SOUND. Page/Side: N/A

ADD	Port of Indianola Pier Light A Priv FLY 6s	CGD13 at 47-44-40.000N	122-31-32.000W
ADD	Port of Indianola Pier Light B Priv FLY 6s	CGD13 at 47-44-40.000N	122-31-33.000W

18474 11th Ed. 01-DEC-15 Last LNM: 07/16 NAD 83 08/16
 ChartTitle: Puget Sound-Shilshole Bay to Commencement Bay
 Main Panel 1679 PUGET SOUND SHILSHOLE BAY TO COMMENCEMENT BAY. Page/Side: A

RELOCATE	Colvos Passage Light 6	CGD13 from 47-22-36.828N to 47-22-36.659N	122-32-18.022W 122-32-17.955W
RELOCATE	Point Evans Light 4	CGD13 from 47-17-07.406N to 47-17-06.947N	122-32-51.450W 122-32-51.771W

18480 32nd Ed. 01-JAN-13 Last LNM: 35/15 NAD 83 08/16
 ChartTitle: Approaches to Strait of Juan de Fuca Destruction Island to Amphitrite Point
 CHART APPROACHES TO STRAIT OF JUAN DE FUCA - DESTRUCTION IS TO AMPHITRITE PT.. Page/Side: N/A

RELOCATE	Duntze Rock Lighted Whistle Buoy 2	CGD13 from 48-24-53.919N to 48-24-50.637N	124-45-06.575W 124-45-01.249W
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18485 17th Ed. 01-JAN-13 Last LNM: 47/13 NAD 83 08/16
 ChartTitle: Cape Flattery
 Main Panel 1729 CAPE FLATTERY. Page/Side: N/A

RELOCATE	Duntze Rock Lighted Whistle Buoy 2	CGD13 from 48-24-53.919N to 48-24-50.637N	124-45-06.575W 124-45-01.249W
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18524 37th Ed. 01-JUN-11 Last LNM: 03/16 NAD 83 08/16
 ChartTitle: Columbia River Crims Island to Saint Helens
 CHART OR-WA-COLUMBIA RIVER CRIMS ISLAND TO SAINT HELENS. Page/Side: N/A

CHANGE	Cottonwood Island Light 41 Nominal range to 4 M.	CGD13 at 46-03-20.387N	122-52-46.142W
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SECTION V - ADVANCE NOTICES

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

SUMMARY OF ADVANCED APPROVED PROJECTS

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

Advance Notice(s)

WASHINGTON – STRAIT OF JUAN DE FUCA – EASTERN PORTION – Disestablishment of Minor Island Light and movement of Smith Island Light (Revised from LNM 43/15)

The U.S. Coast Guard will be discontinuing Minor Island Light (LLNR16380) and is moving Smith Island Light (LLNR 16375) from land to a location between Smith and Minor Islands, at approximate position 48-19-13.631N 122-49-51.121W. This relocation is due to the collapse of the tower at Minor Island, the loss of land mass at that location due to erosion and the deterioration of the tower structure and foundation on Smith Island Light. This relocation should be accomplished during the month of January or February 2016. The light characteristic, intensity and range will remain the same as was previously displayed at Smith Island Light.

Chart	18465	LNM: 03/16
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SECTION VI - PROPOSED CHANGES

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

PROPOSED WATERWAY PROJECTS OPEN FOR PUBLIC COMMENT

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

Proposed Change Notice(s)

WASHINGTON – GRAYS HARBOR TO WESTPORT – WESTHAVEN - Removal of high intensity beam from Westhaven Outer Breakwater South Light 10

The U.S. Coast Guard is proposing to remove the high intensity beams from Westhaven Outer Breakwater South Light 10 (LLNR 16010), to facilitate the installation of a LED lantern and to increase the light signal reliability. The intensity for the 360° light will be increased.

Chart 18502

LNM: 07/16

OREGON – SIUSLAW RIVER – Siuslaw River Inner Range Front Light removal of high intensity beam

The U.S. Coast Guard is proposing to remove the high intensity beam from Siuslaw River Inner Range Front Light (LLNR 9470) to facilitate the installation of a LED lantern and to increase the light signal reliability. The intensity for the 360° light will be increased.

Chart 18583

LNM: 05/16

COLUMBIA RIVER – LAKE CELILO – Miller Island South Channel Range “A” Front Light removal of high intensity beam

The U.S. Coast Guard is proposing to remove the high intensity beam from Miller Island Channel Range “A” Front Light (LLNR 12235) to facilitate the installation of a LED lantern and to increase the light signal reliability. The intensity for the 360° light will be increased.

Chart 18533

LNM: 05/16

SNAKE RIVER – LAKE BRYAN – LITTLE GOOSE RESERVOIR – Schultz Bar Range Front and Rear Lights removal of high intensity beam

The U.S. Coast Guard is proposing to remove the high intensity beam from Schultz Bar Range Front Light (LLNR 13845) and Schultz Bar Range Rear Light (LLNR 13850) to facilitate the installation of a LED lantern and to increase the light signal reliability. The intensity for the 360° lights will be increased.

Chart 18547

LNM: 05/16

WASHINGTON – STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA – ROSARIO STRAIT – Fauntleroy Point Light reduction in nominal range

The U.S. Coast Guard is proposing to reduce the nominal range of Fauntleroy Point Light (LLNR 19405) from 7 NM to 6 NM. The change in nominal range will have a minimal effect upon the intensity of the lantern and will not be noticeable to majority of mariners. Although the nominal range will be reduced, the current light intensity will only be slightly decreased.

Charts: 18421 18430

LNM: 05/16

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 in Enclosure (1) of this Local Notice to Mariners.

LNM: 08/16

SUMMARY OF DREDGING OPERATIONS

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

LNM: 08/16

SUMMARY OF MARINE EVENTS

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

LNM: 08/16

OREGON – COOS BAY – McCullough (US101) Bridge repair

ODOT is conducting a repair project on the McCullough Bridge (LLNR 9009) at mile 9.5 over Coos Bay on Hwy. US 101. The project will be completed sometime in 2017. The repairs are on the north side of Jarvis Upper Range 'B' Front Light (LLNR 8960) outside the main navigation channel. Two 2000 foot temporary work bridges have been constructed for the project, but will not encroach into the navigation channel. The temporary bridges will be built on steel piles placed 45 feet apart. Enclosure (5) of LNM 44/13 shows the diagram and aerial view of the project.

Chart 18587

LNM: 44/13

COLUMBIA RIVER - BONNEVILLE TO THE DALLES - Hood River Highway Bridge notice

The Hood River Bridge (LLNR 11933), at Columbia River mile 169.8, continues to be unable to open for marine traffic. The bridge was struck by a vessel, causing the span to be inoperable. The bridge provides 68 feet of vertical clearance in the closed position. No projected repair date has been determined. The Port of Hood River is evaluating the damages and developing a repair plan. The LNM will be updated as more information is made available. For additional information, contact Mr. Michael S. McElwee at (541) 386-1138.

Chart 18532

LNM: 48/15

OREGON - WILLAMETTE RIVER - PORTLAND TO WALNUT EDDY - Sellwood Bridge construction (Revised from LNM 39/15)

The Sellwood Bridge (LLNR 14995) at RM 16.6 on the Willamette River is under construction until November 2016. A no wake zone is in effect within 500 feet of the bridge. The marked navigable channel at the bridge has been relocated as shown in Enclosure (4) of LNM 01/16. Two debris booms have been added to the construction site on the upstream side of the project, as shown in enclosure (5) of LNM 28/14. Each boom is held in place by multiple pilings, which are marked with flashing yellow lights and yellow reflective tape. Mariners are cautioned to observe the temporary navigation buoys and bridge navigation lighting and comply with the exclusion area established by both the buoys and signage. For additional information, contact Mr. Chad Yount at (520) 468-9550 or email cayount@sundt.com.

Chart 18528

LNM: 50/15

OREGON - WILLAMETTE SLOUGH - MINTO ISLAND PEDESTRIAN & BICYCLE BRIDGE - Special bridge notice

Legacy Contracting, Inc. is constructing the Minto Island Pedestrian/Bicycle Bridge in Salem, OR, in the vicinity of Riverfront Park Playground at 44-56-19.000N, 123-02-43.000W. The construction work will be Monday through Sunday 24 hours per day until 15 Oct 16. Mariners can expect overhead cranes and pile driving while constructing temporary trestles with overhead hazards of a vertical clearance of 10 feet. A temporary 40 foot wide channel will be marked with signs for passage under the bridge and through the construction zone. Regulatory orange and white buoys will also be placed marking the construction area requesting no wake and bridge construction. For additional information, contact Mr. Monte Nunnally at (503) 510-7624 or Mr. Todd Ross at (503) 749-1818, or email: ToddR@LegacyContractingInc.com.

LNM: 22/15

WASHINGTON – LAKE WASHINGTON SHIP CANAL – Montlake Bridge Special Bridge Notice

The U.S. Coast Guard has issued a temporary deviation from the normal operating schedule that governs the Montlake Bridge (LLNR 18240) over the Lake Washington Ship Canal, mile 5.2, in Seattle, WA. The Montlake Bridge will open to marine vessels, the north half of the bridge span, or single leaf, will open with at least a one hour advance notice provided to the bridge operator from 0600 to 1800 on 27 Feb 16. From 1800 on 27 Feb 16, to 0500 on 28 Feb 16, the Montlake Bridge span will remain in the closed-to-navigation position, or full closure. Then, from 0500 to 1800 28 Feb 16, the north half of the bridge span will open with at least a one hour advance notice to the bridge operator.

The deviation is necessary to accommodate bridge grate replacements. Single leaf (half) draw span opening provides 75 feet of horizontal clearance. In the closed position the Montlake Bridge provides 30 feet of vertical clearance throughout the navigation channel, 46 feet of vertical clearance throughout the center 60 feet, 30 feet vertical clearance for single leaf. All vertical clearance references are to the mean water level of Lake Washington. Vessels that do not require a bridge opening may continue to transit beneath this bridge during the closure. The U.S. Coast Guard will inform the users of the waterway through our Local Broadcast Notices to Mariners of any change in this operating schedule. The bridge shall operate in accordance to 33 CFR § 117.897 at all other times. For additional information contact Ms. Barbara J. Rasiaie at 425-739-3700 or email rasiaieB@wsdot.wa.gov.

Chart 18447

LNM: 02/16

COLUMBIA AND SNAKE RIVERS – Winter seasonal recreational vessel lockage

Winter recreational vessel lockage will be made during daylight hours only, on request at each of the USACE Walla Walla District locks through 14 May 16. Vessels can contact the lock operator via VHF-FM Ch. 14 or commercial telephone.

McNary Lock and Dam at Columbia River Mile 292, 541-922-2231
Ice Harbor Lock and Dam at Snake River Mile 9.7, 509-543-3253 x231
Lower Monumental Lock and Dam at Snake River Mile 41.6, 509-282-7231
Little Goose Lock and Dam at Snake River Mile 70.3, 509-399-2233 x231
Lower Granite Lock and Dam at Snake River Mile 107.5, 509-843-1493 x231

Commercial vessels continue to have lockage precedence over recreational vessels. At the discretion of the lock operator, recreational vessels may be allowed to lock through with commercial vessels. All vessel owner/operators lock through at their own risk. All persons in the vessel must be wearing a personal flotation device (PFD) during lockage. Follow the directions of the lock operator when using locks or operating in the vicinity of the locks. The lock operator has final authority on the suitability of a craft for lockage. Please refer to U.S. Army Corps of Engineers Safe Lockage Policy for Recreational Craft on the Columbia and Snake Rivers, published separately, for safety requirements. Public notices and other navigation lock information are available on the Internet at: <http://www.nww.usace.army.mil/Missions/Navigation.aspx>. For additional information on this matter or copies of our Safe Lockage policy, call USACE Walla Walla Operations Division at (509) 527-7113 or (509) 527-7115.

Charts: 18541 18545 18546 18547

LNM: 36/15

OREGON - CAPE BLANCO TO YAQUINA HEAD AND OFFSHORE – Cable Laying Operations off the Oregon Coast (Revised from 40/14)

The University of Washington, as part of the Ocean Observatories Initiative (OOI), has installed underwater equipment and high voltage cable in the Pacific Ocean offshore of Pacific City and Newport, OR. This equipment is locally exposed at the seabed and/or in the water column. It is not marked by surface buoys.

OREGON - CAPE BLANCO TO YAQUINA HEAD AND OFFSHORE – Cable Laying Operations off the Oregon Coast (Revised from 40/14)

Mariners are advised to avoid fishing, towing gear or anchoring in the safety areas centered on the coordinates provided in enclosure (5) of LNM 44/14. The avoidance radius is given in nautical miles and varies for each safety zone.

Positions for the OOI safety zones and submarine cable routes can be provided upon request in various formats including Nobeltec, Olex, Coastal Explorer, kml and GIS. The locations of the OOI underwater infrastructure will be charted in the near future.

For additional information or if you become entangled on the OOI infrastructure, please contact the RSN Hotline at (855) 665-1424 or OFCC cell (503) 440-3569 or email ooi-ofcc@uw.edu or 911@ofcc.com .

Charts: 18003 18580 18600

LNM: 41/14

OREGON - CAPE BLANCO TO YAQUINA HEAD - Temporary TRIAXYS Research Buoy Deployment (Revised from LNM 20/15)

Oregon State University recovered the subsurface AWAC buoy previously set at approximate position 44-34.15.9N, 124-14-00.4W, 7 NM southwest of Yaquina Bay, OR. The TRIAXYS Research Lighted buoy and Southwest Corner Lighted Buoy C have been recovered. The following buoys remain on station:

North Corner Lighted Buoy A, FI Y 2s at 44-34-17.950N, 124-14-00.490W
Southeast Corner Lighted Buoy B, FI Y 2s at 44-34-08.540N, 124-13-54.330W

Mariners are advised to not transit between buoys A and B, as shown in enclosure (4) of LNM 02/16. This equipment is scheduled to be removed when a recovery platform becomes available and weather conditions permit. For more information contact Mr. Dan Hellin at (541) 737-5452 (dan.hellin@oregonstate.edu), or OSU Public Safety at (541) 737-3010, available 24 hours a day for emergencies.

Chart 18580

LNM: 02/16

OREGON - CAPE BLANCO TO YAQUINA HEAD – Deployment of Subsurface to Surface Buoy on the Oregon Coast

Oregon State University deployed a subsurface to surface research buoy at position 44-39-30.540N 124-05-53.400W in 82 feet of water. The buoy is yellow and displays a yellow light flashing every 4 seconds (FI Y 4s) when on the surface. This buoy is designed to submerge for the collection of data and then surface to transmit its data. When the buoy is not on the surface it will be near the seafloor. Vessels are asked to not pass closer than 500 yards to the buoy's position. For additional information contact Oregon State University Assistant Professor Michael Vardaro at (541) 737-9350 or at mvardaro@coas.oregonstate.edu.

Charts: 18520 18580

LNM: 16/14

COLUMBIA RIVER – PACIFIC OCEAN TO HARRINGTON POINT – Deterioration of the North and South Jetties at the Columbia River Entrance

The North and South 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. The USACE has scheduled critical repairs of the North Jetty from June 2015 through October 2016, and rehabilitation of the South and North Jetties scheduled for the years 2016 through 2019. More information may be found at the USACE Portland District web site: <http://www.nwp.usace.army.mil/Locations/OregonCoast/MouthoftheColumbia.aspx>.

Charts: 18500 18520 18521

LNM: 04/15

COLUMBIA RIVER - HARRINGTON POINT TO CRIMS ISLAND - CATHLAMET CHANNEL - Shoaling

Extensive shoaling has been reported on the west side of the Elochoman Slough entrance near Cathlamet, WA. Mariners should exercise caution when transiting this waterway, and keep to the east side of the channel. Mariners unfamiliar with the area should transit with extreme caution and not rely solely on aids to navigation while in the channel.

Chart 18523

LNM: 19/15

COLUMBIA RIVER – HARRINGTON POINT TO CRIMS ISLAND – Port Westward construction

Advanced American Construction will be working at the Port Westward dock on the Columbia River RM 53.5. The derrick barge DB 4000 will be on station from 01 Jan 16 through 15 Mar 16 working 0700 to 1730, Monday through Saturday. The derrick barge may have anchors deployed near the Port Westward facility. Anchor locations will be marked by yellow crown buoys. The derrick barge and crown buoys will be illuminated by steady burning white lights at night. Mariners are requested to stay 250 feet away from the derrick barge and use extreme caution when transiting the area. Mariners are also requested to minimize their wake in the work zone. During operation hours, the derrick barge will be monitoring VHF-FM 13. For more information contact Mr. Scott Sells at (503) 484-0575.

Chart 18523

LNM: 01/16

COLUMBIA RIVER – CRIMS ISLAND TO SAINT HELENS – Port of Longview pile driving

Advanced American Construction will be performing pile driving work at the Port of Longview Berth 4, river mile 67. The spudded derrick barge DB 4100 and tugboat Dian Marie will be on station from 16 Nov 15 through 29 Feb 16 working 0700 to 1730 Monday through Saturday. Mariners are requested to stay 250 feet away from the derrick barge and use extreme caution when transiting the area. Mariners are also requested to minimize their wake in the work zone. During operating hours, the derrick barge will monitor VHF-FM Ch. 13. The derrick barge will be illuminated at the corners with steady burning white lights at night. For more information contact Mr. Lou Cornelison at (503) 969-0261 or email LouC@callaac.com.

Chart 18524

LNM: 45/15

COLUMBIA RIVER PACIFIC OCEAN TO HARRINGTON POINT; ILWACO HARBOR – Baker Bay West Channel shoaling

Extensive shoaling has been reported on the northern edge of Baker Bay West Channel, northwest of Baker Bay West Channel Light 11 (LLNR 14455). Mariners should exercise caution when transiting this waterway. Mariners unfamiliar with the area should transit with extreme caution and not rely solely on aids to navigation while in the channel. For additional information contact Mr. Jarod Norton at 503-808-4348.

Chart 18521

LNM: 02/16

WASHINGTON - APPROACHES TO ADMIRALTY INLET – SEQUIM BAY – Temporary Equipment Deployment (Revised from LNM 39/15)

The Pacific Northwest National Laboratory has temporarily deployed submerged scientific equipment in the entrance to Sequim Bay in approximate position 48-04-45.412N, 123-02-41.280W. The submerged equipment will be in place until approximately 30 Jun 16. Cables run from the equipment to the dock just west of its position on the seafloor and will be marked by two white warning buoys, one to the north and one to the south. Vessels are asked to not pass between the buoys and keep a minimum of 20 yards to from both buoys. For additional information contact Ms. Susan Southard, (360) 681-3615 or sue.southard@pnnl.gov.

Chart 18471

LNM: 47/15

WASHINGTON – TACOMA HARBOR – PUYALLUP RIVER - Tacoma/Fife- I-5 Bridge Construction

Hamilton Construction Company is constructing the new I-5 bridge north of the existing northbound bridge over the Puyallup River. Operating hours are from 0700 to 1800, Monday through Saturday, subject to change. Two work trestles have been constructed in the river. One work trestle has been constructed along and parallel to the north bank and one along and parallel to the south bank with an 80' wide navigable channel between the 12" yellow floating booms that are anchored around the trestles at approximate position 47-14-25.700N 122-23-58.000W. The work trestle structures will remain in place until November 2017. No barges will be used on the project. There will be three yellow floating water quality monitoring stations anchored in the river that are marked with amber flashing lights. The stations' positions will move as the work progresses. There will be one station secured upriver, one downriver and one adjacent to the work area as shown in enclosure (6) of LNM 25/15. The monitoring stations are tethered to mooring buoys. Mariners are requested to not transit between the mooring buoys and the monitoring stations, remain in the 80' navigation channel, and reduce wake when transiting the area. For additional information contact Mr. Jeff Phillips at (541) 953-9179.

Chart 18453

LNM: 45/15

WASHINGTON - STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA - Swinomish Channel South Entrance

Swinomish Channel South Channel Entrance Range Front Light (LLNR 18820) and Swinomish Channel South Entrance Channel Range Rear Light (LLNR 18825) have been rebuilt and relighted but their currently charted positions are incorrect and unreliable at this time. Mariners should not rely solely upon the Swinomish Channel South Entrance Range and use caution when transiting this waterway.

Chart 18427

LNM: 02/16

WASHINGTON – STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA – FRIDAY HARBOR – Scientific Seafloor Equipment Deployment

Cornell University has deployed scientific seafloor equipment near the University of Washington Friday Harbor Labs dock. The equipment consists of four hydrophone mounts that extend four feet above the seafloor with a series of cables connecting them to a shore side facility. All associated equipment is scheduled to be removed by 15 Feb 18. Details of locations for the equipment and cables are shown in enclosure (4) of LNM 45/14. Mariners are advised to avoid dragging or deploying gear near these locations. For additional information, contact Mr. Charles H. Greene at (607) 275-1662 or email chg2@cornell.edu.

Chart 18434

LNM: 38/14

WASHINGTON – STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA – HARO STRAIT – Acoustic Recorder Deployed

Acoustic recorders have been set at three locations in Haro Strait, and will be in place until further notice. Mariners are advised to avoid dragging or deploying gear near these locations. The recorders are at the following positions:

- 48-30-51.73N 123-09-00.36W, 6 feet above the bottom
- 48-30-27.63N 123-11-54.35W, 50 meters below the surface
- 48-30-26.72N 123-11-50.69W, 40 meters above the bottom

Chart 18433

LNM: 23/13

WASHINGTON – STRAIT OF JUAN DE FUCA AND BOUNDARY PASS – Temporary Subsurface Buoy Deployment

Subsurface oceanographic mooring buoys extending 10 meters above the ocean floor have been temporarily set at the following positions until further notice. Mariners are advised to avoid dragging or deploying gear near these locations:

- 48-21.639N, 124-13.813W
- 48-30.499N, 124-45.027W
- 48-45.978N, 123-02.413W

Charts: 18431 18432 18460 18480

LNM: 18/13

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
765 16150	<i>Duntze Rock Lighted Whistle Buoy 2</i>	48-24-50.637N 124-45-01.249W	FI R 4s		4	Red.	08/16
		*					
10890	COTTONWOOD ISLAND LIGHT 41	46-03-20.387N 122-52-46.142W	Q G	20	4	SG on multi-pile structure.	08/16
		*					
16150 765	<i>Duntze Rock Lighted Whistle Buoy 2</i>	48-24-50.637N 124-45-01.249W	FI R 4s		4	Red.	08/16
		*					
16426	Sequim Bay Daybeacon 7	48-04-28.553N 123-02-34.852W				SG on pile.	08/16
		*					
17120	COLVOS PASSAGE LIGHT 6	47-22-36.659N 122-32-17.955W	FI R 4s	15	4	TR on multi-pile structure.	Light obscured from 022° to 153°. 08/16
		*					
17225	POINT EVANS LIGHT 4	47-17-06.947N 122-32-51.771W	FI R 4s	18	4	TR on multi-pile structure.	08/16
		*					
17927	PORT OF INDIANOLA PIER LIGHT A	47-44-40.000N 122-31-32.000W	FI Y 6s			On end of pier.	Private Aid. 08/16
*	*	*	*	*	*	*	*
17928	PORT OF INDIANOLA PIER LIGHT B	47-44-40.000N 122-31-33.000W	FI Y 6s			On end of pier.	Private Aid. 08/16
*	*	*	*	*	*	*	*
18408	WINDY POINT SHELLFISH PEN LIGHT A	47-10-20.130N 122-57-32.772W	FI Y 4s			Wood shellfish float.	Maintaned from April 1 to November 1. Private Aid. 08/16
*	*	*	*	*	*	*	*
18412	<i>Kamilche Sea Farms Lighted Buoy A</i>	47-07-31.379N 123-01-05.124W	FI Y 5s			Yellow.	Private Aid. 08/16
		*					*
19105	SWINOMISH CHANNEL NORTH ENTRANCE LIGHT 13	48-29-08.328N 122-32-07.325W	FI G 4s	15	4	SG on pile.	08/16
		*					
19284	<i>Bellingham Bay Research Lighted Buoy B</i>	48-43-25.291N 122-34-35.514W	FI (5)Y 20s			Red buoy with yellow tower.	Private Aid. 08/16
*	*	*	*	*	*	*	*

ENCLOSURES

Enclosure 1

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

LNM: 08/16

Enclosure 2

OREGON - WASHINGTON - COLUMBIA RIVER - Summary of Dredging Operations

LNM: 08/16

Enclosure 3

OREGON - WASHINGTON - COLUMBIA RIVER - Summary of Marine Events

LNM: 08/16

Enclosure 4

NOAA subsurface mooring locations

LNM: 07/16

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

CDR Michele L. Schallip
Chief, Waterways Management Branch
Thirteenth Coast Guard District

BRIDGE LIGHTING DISCREPANCIES AND CORRECTIONS

BRIDGE LIGHTING DISCREPANCIES						
Waterway	Light List #	Bridge Name	Location	Status	Date Reported	BNM
OREGON COAST						
None						
COLUMBIA RIVER						
Columbia River	11933	Hood River Bridge	Hood River, OR	Draw span damaged, unable to open ETR unknown	10/21/2015	0909-15
SNAKE RIVER						
None						
WILLAMETTE RIVER						
None						
WASHINGTON COAST						
None						
PUGET SOUND						
Port Townsend Canal	17577	Port Townsend Canal Hwy Bridge	Port Townsend, WA	Northeast Piling light extinguished	12/22/2015	1124-15
IDAHO						
None						
<i>* Updated report</i>						
BRIDGE LIGHTING CORRECTIONS						
Waterway		Bridge Name	Location	Status	Date Reported	BNM
OREGON COAST						
Umpqua River	9369	CO&P RR Bridge	Reedsport, OR	Upriver red pier Lt extinguished	12/5/2015	No BNM
Siuslaw River	9573	CO&P RR Bridge	Acme, OR	Multiple lights extinguished	12/5/2015	No BNM
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	Channels Monitored	Disposal Area	LNM
21-Feb-16	24-Feb-16	24 Hrs, 7 Days	Columbia River; Bonneville Dam, Bradford Island Fish Ladder Exit RM 145+50	M/V Heidi Renee M/V Swan Island	M/V Norton Bay, M/V Mary B, M/V Lori B	VHF-FM 13 &16	Longview, WA	07/16
24-Feb-16	3-Mar-16	0600-1800 Mon-Fri	Columbia River; Cottonwood Island Lower Range, RM 67 (WA side)	M/V Heidi Renee M/V Sand	M/v Norton Bay, M/V Lowren M	VHF-FM 13,16 & 79A	Crims Island RM 57.5	08/16
8-Feb-16	29-Feb-16	0600-1800 Mon-Fri	Columbia River; Lady Island Range, RM 118+00 to 120+05 WA side	M/V Dredge 7	M/V Santiam	VHF-FM 13,16 & 79A	Shore Side	05/16
17-Jan-16	28-Feb-16	24 Hrs, 7 Days	Grays Harbor: Cow Point Reach and Turning Basin, Hoquiam Reach	M/V Patriot	M/V Liberty, M/V Freedom	VHF-FM 13 &16	S. Jetty & Pt. Chehalis	04/16
5-Feb-16	29-Feb-16	0600-1800 Mon-Fri	Elliot Bay; Terminal 91 and Terminal 18, Port of Seattle	M/V Guardian	Unnamed	VHF-FM 13 &16	Duwamish LaFarge site	06/16
1-Aug-15	8-Jun-16	24 Hrs, 7 Days	Whatcom Waterway, Bellingham; BST Dock, Log Pond, GP Dock & Inner Waterway	M/V Palouse M/V Mulketio	MV Skagit & M/V Dungeness	VHF-FM 13 &16	Upland	31/15

Dredging Sites are subject to change dependant upon weather conditions and Gill Net Fisheries. Any Location listed may be used during the time period of November, although operations at each site may be limited to only a few days.

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

The US Army Corps of Engineer dredges request mariners transit at their slowest safe speed to minimize wake when in the vicinity of a dredge and proceed after passing arrangements have been made. Vessel (s) and/or equipment may encroach into the channel.

SECTOR COLUMBIA RIVER MARINE EVENTS			
EVENT DATE	TIME	EVENT NAME	EVENT LOCATION
28-Feb-16	1300-1700	OCSA Sailboat Races	Columbia River between the I-5 and I-205 bridges
6-Mar-16	1300-1700	OCSA Sailboat Races	Columbia River (between I-5 and I-205 bridges)
26-Mar-16	1200-1330	Awakening of the Dragon Eye Dotting Ceremony	Willamette River (between Marquam and Hawthorne bridges)
EVENT DATE	TIME	EVENT NAME	EVENT LOCATION
27-Feb-16	1000-1605	Harbor Series 3 Zenith Harbor	Commencement Bay
27-Feb-16	0900-1600	Annual Jim Depue Sailboat Race	Port Madison Bay
5-Mar-16	0900-2000	Center Sound Series / Blakeley Rock	Shilsoe Bay
9-Mar-16	0900-2000	Puget Sound Spring Regatta Small Boat	Shilshole bay
10-Mar-16	0900-2000	Puget Sound Spring Regatta Small Boat	Shilshole bay
12-Mar-16	1015-1330	Bellingham Bay Rough Water Race	Bellingham
12-Mar-16	1015-1330	Bellingham Bay Rough Water Race	Bellingham Bay
12-Mar-16	0900-2100	Center Sound Series / Scatchet Head	Shilshoe Bay to Admiralty Inlet
16-Mar-16	0900-2000	Puget Sound Spring Regatta Big Boat	Shilshole bay
17-Mar-16	0900-2000	Puget Sound Spring Regatta Big Boat	Shilshole bay
19-Mar-16	1000-1600	SBYC Snowbird	Shilshole to blakely rock
26-Mar-16	0900-2100	Center Sound Series / Three Tree Point	Shilshoe Bay to East Passage
26-Mar-16	0800-2000	Tri Straits I - Smith Island Race	Guemes Channel to Smith Island
26-Mar-16	0800-2000	Tri Straits I - Smith Island Race	Guemes channel to Smith Island

NOAA SUBSURFACE BUOY MOORINGS

Location general area name	Latitude	Longitude
Cape Flattery Deep	48° 06' 16" N	125° 47' 01" W
Cape Flattery Offshore	48° 09' 59" N	125° 37' 09" W
Cape Flattery Mid Shelf	48° 12' 39" N	125° 20' 22" W
Western Strait of Juan de Fuca	48° 28' 35" N	124° 40' 29" W
Sandpoint/Ozette	48° 06' 05" N	124° 47' 39" W
LaPush	47° 52' 49" N	124° 40' 51" W
Quinault Deep	47° 29' 50" N	125° 11' 16" W
Quinault Mid Shelf	47° 17' 29" N	124° 44' 59" W
Quinault Inshore	47° 19' 02" N	124° 24' 57" W
Westport Deep	46° 51' 31" N	125° 09' 08" W
Westport Mid Shelf	46° 57' 41" N	124° 29' 16" W
Westport	46° 57' 51" N	124° 18' 07" W
Willapa Bay	46° 38' 06" N	124° 15' 39" W
Columbia River North	46° 20' 07" N	124° 11' 52" W
Columbia River South	46° 11' 35" N	124° 08' 06" W