Local Notice to Mariners for District 13 01/21/2025

Admiralty Inlet

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
Puget Sound Traffic Separation Lane Lighted Buoy SC	16510	REDUCED INT	FD

Baker Bay West Channel

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
Baker Bay West Channel Entrance Jetty Light 1	14415	STRUCT DMGD/REDUCED INT	FD

Bellingham Channel

Federal Discrepancies Corrected

NAME	LLNR	STATUS	AID TYPE	CORRECTION DATE
Eliza Rocks Junction Light	19215	RELIGHTED	FD	2025-01-08

Camas Slough

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
Camas Slough Range Front Light	11455	LT EXT/STRUCT DMGD	FD

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
Vancouver To Bonneville - Camas Slough/ATON/Advanced Notice of Change	Advanced Notice of Change	The U.S. Coast Guard is disestablishing Camas Slough Range Front Light (LLNR 11455) and Camas Slough Range Rear Light (LLNR 11460) as this navigational range no longer marks the approach into Camas Slough and does not facilitate the safe navigation of the channel. The entrance to the slough will continue to be marked by Camas Light 4 (LLNR 11450). Mariners are encouraged to share comments on this 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.	45° 34' 27"
Vancouver To Bonneville - Camas Slough/ATON/Advanced Notice of Change	Advanced Notice of Change	The U.S. Coast Guard is disestablishing Camas Slough Range Front Light (LLNR 11455) and Camas Slough Range Rear Light (LLNR 11460) as this navigational range no longer marks the approach into Camas Slough and does not facilitate the safe navigation of the channel. The entrance to the slough will continue to be marked by Camas Light 4 (LLNR 11450). Mariners are encouraged to share comments on this 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.	45° 34' 26"

Cap Sante Waterway

Federal Discrepancies

NAME	LLNR		STATUS	AID TYPE	
Cap Sante Waterway Daybeacon 4	19005	STRUCT DMGD/TRUB		FD	
Temporary Changes					
NAME		LLNR	STATUS	AID TYPE	
Cap Sante Waterway Daybeacon 4		19005	TRUB	FD	

Cape Horn

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
Cape Horn Range Front Light	11615	DBD DMGD	FD

Federal Discrepancies Corrected

NAME	LLNR	STATUS	AID TYPE	CORRECTION DATE
Cape Horn Range Rear Light	11620	REBUILT/RECOVERED	FD	2025-01-13

Chetco River

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION	

Marine Construction
(Excluding Bridges)

The Port of Brookings is dredging the Inner Boat Basin. Dredging operations can be expected 0800 – 1700, Monday – Saturday, until 15 Feb 2025.

<u>Columbia</u>

Additional MSI Categories

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
Sector Columbia River, Submerged Land Act (SLA) - Columbia/General/Bridges/Repairs, Painting, Or Fender Replacement	Bridges	WSDOT will be painting and making repairs on the I-82 Highway Bridge (LLNR 12752) across the Columbia River at river mile 290.5. Construction will occur from 25 Sep 23 to 31 Oct 25, with working hours 24 hours a day, 7 days a week, Monday through Sunday. A containment system will be attached to the bridge 24-hours a day, 7 days per week. The containment structure for painting the existing steel portion below the deck will be installed and will reduce the vertical clearance by 10 feet, however, only half the bridge span will have containment at any given time. The I-82 Highway Bridge provides 85.0 feet of clearance at midspan. The containment system will prevent any falling debris once it is constructed. The traveler support system repairs will be above the bridge deck and all paint work will be underneath the bridge deck. Mariners are advised to use caution while transiting the area. For additional information, please contact Alex Sanguino at (509) 222-2403, email sanguia@wsdot.wa.gov.	Lat: 45° 55' 54" Lon: -119° 19' 43"
Sector Columbia River, Submerged Land Act (SLA) - Columbia/General/Bridges/Rehabilitation	Bridges	A bridge rehabilitation project will be conducted from 19 Feb – 30 Nov 2024 on the US-395 12 Blue Highway Bridge (LLNR 13057) across the Columbia River at RM 330, between Pasco and Kennewick. There will be a temporary platform system installed under the bridge deck from pier 2 to pier 7 and then again from pier 10 to pier 13, which will reduce the vertical clearance by approximately 5 feet after the platform is installed. The 3 truss spans in the middle bridge (between piers 7 and 10) will not have a working platform beneath the bridge, and therefore will not be impacted. We advise mariners to use caution while in the area. For additional information please contact Tanya Pilarinos, Project Coordinator, at (727) 916-2708 or tpilarinos@southernrb.com.	Lat: 46° 13' 26" Lon: -119° 08' 10"
Sector Columbia River, Submerged Land Act (SLA) - Columbia/General/Marine Construction (Excluding Bridges)/Dredging	Marine Construction (Excluding Bridges)	Ross Island Sand & Gravel Co. is conducting a dredging project on the Columbia River in the anchorage area on Willow Upper Range between RM 97.5 to 99. The work is expected to run from 16 Dec through 31 Jan 2025. Hours of operation will be Monday through Friday 0600 – 1600 daily. Disposal is via submerged pipeline on the Washington shore. Dredge No. 7 will monitor VHF-FM channel 79, 13 and 16, and can be reached via phone at 503-349-7432. For more information contact the project manager, Rod Oliva, at 503-349-7436.	
Sector Columbia River, Submerged Land Act (SLA) - Columbia/General/Marine Construction (Excluding Bridges)/Facilities, Barriers, Manmade Reefs, Riprap, Jetties/Dikes	Marine Construction (Excluding Bridges)	Advanced American Construction will be performing rock placement by barge at the Port of Vancouver Terminal 1 at Columbia River RM 106.5 from 02 – 31 Jan 2025. Working hours are anticipated to be 0700 through 1730 daily. The spud barge and tug LINDY MARIE will monitor VHF-FM Channel 13 during working hours. Mariners are requested to avoid the work zone and reduce wake as much as possible when transiting through the area. The spud barge will have steady white lights on all four corners. For additional project information please contact John Winstead at (541) 350-2979	
Sector Columbia River, Submerged Land Act (SLA) - Columbia/General/Marine Construction (Excluding Bridges)/Facilities, Barriers, Manmade Reefs, Riprap, Jetties/Dikes	Marine Construction (Excluding Bridges)	Advanced American Construction will be performing dock & wharf repairs at Port of Vancouver Berth 1, 2, 3, and 8 & 9 from 06 Jan – 30 Apr 2025. AAC crane barge DB 4100 will be performing pile driving and crane support activities. AAC crew will be working for boom lifts mounted on barges. Mariners are requested to reduce their wake when transiting the work area. Construction operations will occur Monday through Friday, 0700 – 1730. Barges in the work area will have steady white lights on all corners for night identification. During working hours, the derrick barge will monitor VHF-FM channel 13. For more information, please contact John Winstead at (541) 350-2979.	
Sector Columbia River, Submerged Land Act (SLA) - Columbia/General/Marine Construction (Excluding Bridges)/Facilities, Barriers, Manmade Reefs, Riprap, Jetties/Dikes	Marine Construction (Excluding Bridges)	Bergerson Construction, Inc. will commence pier demolition operations inside of the East Astoria Mooring Basin on the Columbia River in the vicinity of River Mile 15.5 (46°11'42.90"N, 123°48'10.55"W) from 02 Jan – 28 Feb 2025, Monday through Friday, from 0700 to 1800 daily. A 60' x 120' crane barge "Betsy Ross", 45' x 112' barge "Koneta M", and assistant vessel 'Bubba B' will be monitoring VHF-FM channel 17. A Yellow floating turbidity boom/curtain will be used to surround and identify the work area and white flashing lights will be used to demarcate the barges. Mariners are requested to use caution when transiting the area. For additional information, contact Greg Morrill with Bergerson Construction at (503) 325-7130.	

Columbia River

Additional MSI Categories

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
Sector Columbia River, Submerged Land	Bridges	WSDOT and Garco Construction will be replacing the decking and repairing piers and crossbeams of the I-90 Highway Bridge across the	Lat:
Act (SLA) - Columbia		Columbia River at RM 420 at Vantage WA. Work will start on 4 Mar 2024 and is anticipated to be complete in Nov of 2027. Typical work	46° 56' 32"
River/General/Bridges/Repairs, Painting,		schedule will be Monday – Friday, 0700 – 1730 with occasional night work. A containment system will be installed on the east span	Lon:
Or Fender Replacement		reducing the vertical navigation clearance by 10ft. With all construction projects there is a hazard of falling debris, the containment	-119° 58'
		system is designed to prevent any debris from falling into the water. However, mariners are advised to use caution while transiting the	23"
		area. For the initial phase the main navigation channel will not have containment installed and provides 73.5 feet of vertical navigation	
		clearance at High Pool Elevation of 571.5 feet. Subsequent phases will have containment installed over the main navigation channel,	
		and updates will be posted in future editions of the LNM. For additional information, contact Justin Ludwig at (208) 704-0122 and email	
		JustinL@garco.com.	

Coos Bay

Federal Discrepancies Corrected

NAME	LLNR	STATUS	AID TYPE	CORRECTION DATE
Coos Bay Entrance Range Rear Light	8745	WATCHING PROPERLY	FD	2025-01-15

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
Sector Columbia River, Submerged Land Act (SLA) - Coos Bay/General/Bridges/Lighting	Bridges	COOS BAY RAILROAD BRIDGE (LLNR 8990) THE DRAWSPAN LIGHT ON THE WEST	Lat:
and Other Signals		END IS EXTINGUISHED.	43° 25' 40"
			Lon:
			-124° 14' 10"

Cottonwood Island

Federal Discrepancies Corrected

NAME	LLNR	STATUS	AID TYPE	CORRECTION DATE
Cottonwood Island Upper Range Rear Light	10880	WATCHING PROPERLY	FD	2025-01-08

Crims Island To St Helens

Private Discrepancies

NAME	LLNR	STATUS	AID TYPE
Kalama Shoal Isolated Danger Lighted Buoy K	10944	BUOY DMGD	PA

Additional MSI Categories			
TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
Columbia River - Crims Island To St	Marine Construction	The Dutra Group will be dredging at the Port of Longview, RM 65+53 to 67+01, beginning 10 Jan 2025. The tug Becky	
Helens/General/Marine Construction (Excluding	(Excluding Bridges)	T and scow KS-10 will transport dredge material downriver. For more information contact Amy Boyd, Port of	
Bridges)/Dredging		Longview, at 360-425-3305 or aboyd@portoflongview.com.	

DeceptionPass

Additional MSI Categories

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
DeceptionPass/General/Bridges/Inspection	Bridges	WSDOT will be performing a regular scheduled biannual inspection of Deception Pass Bridge between the hours of 0800 to 1400 on	Lat:
		10 to 13 February 25. Bridge will be inspected deploying two under-bridge inspection trucks (UBITs) from top of bridge deck closing	48° 24' 23"
		one lane at a time of two-lane highway on eastbound (south side) and westbound (north side). UTBITs reduce the vertical clearance	Lon:
		temporarily while conducting the inspection. UBITs have a flashing amber strobe light mounted to the bottom of each bucket. For	-122° 38'
		more information, contact Duncan Hartrey, P.E. at (564) 200-2849.	40"

Depoe Bay

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
Depoe Bay Entrance Range Front Light	9795	LT EXT	FD
Depoe Bay Entrance Range Rear Light	9800	LT EXT	FD

Desdemona Sands

Federal Discrepancies Corrected

NAME	LLNR	STATUS	AID TYPE	CORRECTION DATE
Desdemona Lower Sands Lighted Buoy 31	10020	RESET ON STATION	FD	2025-01-10

East Passage

Additional MSI Categories

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION	
Puget Sound - East Passage/General/Marine Events/Regatta (Race)	Marine Events	Around Vashon Island via Colvos Passage and East Passage.		

Elliott Bay

Private Discrepancies Corrected

NAME	LLNR	STATUS	AID TYPE	CORRECTION DATE
Elliott Bay Marina West Entrance Light 1	16837	WATCHING PROPERLY	PA	2025-01-09
Elliott Bay Marina West Entrance Light 2	16837.1	WATCHING PROPERLY	PA	2025-01-09
Elliott Bay Marina Breakwater Light A	16838	WATCHING PROPERLY	PA	2025-01-09
Elliott Bay Marina Breakwater Light D	16838.3	RELIGHTED	PA	2025-01-09
Elliott Bay Marina Breakwater Light D	16838.3	WATCHING PROPERLY	PA	2025-01-09
Elliott Bay Marina East Entrance Light 2	16839.1	WATCHING PROPERLY	PA	2025-01-09

	TITLE	SUBCATEGORY	DESCRIPTION	LOCATION	
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Puget Sound - Elliott Bay/General/Bridges/Temp Deviation	Bridges	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 08 – 11 Feb 2025. This deviation will facilitate the east span lift-turn cylinder replacement. This deviation authorizes the east span to be closed to mariners from 0700 on 08 Feb 2025 until 2200 on 11 Feb 2025. The west span will open to mariners on signal per 33 CFR 117.5. 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 provided horizontal clearance is 110 feet with the east span in the closed-to-navigation position. 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 Wes Ducey at wes.ducey@seattle.gov or (206) 684-7033.	Lat: 47° 34' 17" Lon: -122° 21' 13"
Puget Sound - Elliott Bay/General/Bridges/Temp Deviation	Bridges	The Coast Guard intends to approve a temporary deviation to the operating schedule that governs the Spokane Street Bridge (LLNR 16870.1) across the Duwamish Waterway, mile 0.3, in Seattle, WA, from 23 – 25 Mar 2025. This deviation will facilitate the span mechanical part replacement. This deviation allows the east span to open to mariners from 0700 on 23 Mar 2025 to 2200 on 25 Mar 2025. The west span will be authorized to remain in the closed-to-navigation position. 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. Vessels which do not require a bridge opening may continue to transit beneath the bridge during this closure period. No alternate route is available on the Duwamish Waterway. 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. Please submit comments or objections to d13-smb-d13-bridges@uscg.mil by 24 Jan 2025. For more information on this event contact Wes Ducey at Wes.Ducey@seattle.gov or (206) 684-7033.	Lat: 47° 34' 17" Lon: -122° 21' 13"
Puget Sound - Elliott Bay/General/Marine Construction (Excluding Bridges)/Facilities, Barriers, Manmade Reefs, Riprap, Jetties/Dikes	Marine Construction (Excluding Bridges)	Orion Marine Construction (Orion) will conduct marine construction activities around the Washington State Ferry Slip 3 at the Colman Dock in approximate location 47-36-11.5 N, 122-20-22.5 W, from 08 Jul 2024 – 15 Feb 2025. The work involves the removal of the existing vehicle transfer span (VTS) and associated structures and installation of a new hydraulic controlled VTS and apron. Work will normally be conducted Monday through Friday 0700 – 1730 utilizing the crane barge St Helens and Barges KP1 and 152. Ferry operations will continue at Ferry Slip 1 and 2. A floating debris boom will encircle the footprint of the project work area, although some underwater hazards may exist. Mariners should operate with caution and reduce wake while in transition around the project area. For more information contact the Project Manager, Bradley Morlock, at (206) 786-3483 or bmorlock@orionmarinegroup.com	
Puget Sound - Elliott Bay/General/Marine Construction (Excluding Bridges)/Facilities, Barriers, Manmade Reefs, Riprap, Jetties/Dikes	Marine Construction (Excluding Bridges)	Pacific Pile & Marine will conduct marine construction activities for King County on the Duwamish Waterway from 21 Oct 2024 to 20 Feb 2025. The project will include Dredging, Capping, Debris Removal, Pile Extractions, Steel Pipe & Sheet Piles Driving between Duwamish River mile 3.45 to 5.0. Vessels on scene will include the construction barges LASH 4, Flexi-float, Judge Dredge, Pamtay, and towing vessels Halle H, Gretchen H, Jennifer H. Work hours will be 0630 – 1700 on Monday – Friday. All vessels will monitor VHF-FM channel 16. There will be cautionary buoys and turbidity curtains around active work areas. Mariners are requested to reduce speed to 7 knots or less to minimize wake and keep at least 100 feet from all work areas. For more information, contact JC Clark or Ben Nguyen at (206) 331-3873 or email jc@pacificpile.com or benn@pacificpile.com.	
Puget Sound - Elliott Bay/General/Miscellaneous	Miscellaneous	King County will be deploying current meters in the East Waterway and Mouth of the Duwamish River starting in December, 2024 and ending in February 2025. Each site will consist of a bottom-mounted, trawl-resistant enclosure that measures six feet long, three feet wide, and three feet tall. These devices should not affect marine traffic, but mariners are requested to avoid anchoring on these locations during the deployment.	

Empire Range

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
Empire Range A Front Light	8855	DBD DEST	FD
Empire Range A Rear Light	8860	DBD DEST	FD

Garibaldi Channel

Additional MSI Categories

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
Channel/General/Marine Construction	(Excluding Bridges)	Trade West Construction is moving jetty material to a material offloading facility for use on the Tillamook Bay South Jetty repairs. Jetty stone will be transported from the Port of Garibaldi, approximate location 45-33-14 N, 123-54-54 W, to Kincheloe Point on the Bay Ocean Peninsula in approximate location 45-33-07 N, 123-56-09 W. The tugboat and support vessel involved in this operation will monitor VHF-FM channels 8 and 10. In addition, at various times stone material will be transported and placed on the jetty. Mariners are strongly advised to keep a safe distance from the tug and barge operations and the repair work on the jetty. This project is expected to continue into the Fall of 2025. For more information, contact Keyanee Faught at (435) 669-7976 or email keyaneef@gmail.com.	

Grays Harbor

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
Grays Harbor South Reach Light 16	15635	DAYMK MISSING/STRUCT DMGD	FD

Grays Harbor North Bay

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
Damon Point Light	15940	DAYMK MISSING/STRUCT DMGD	FD

Guemes Channel

NAME	LLNR	STATUS	AID TYPE	CORRECTION DATE
Guemes Channel Lighted Buoy 3	18965	RELIGHTED	FD	2025-01-09

Hale Passage

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
Inati Bay Reef Buoy	19290	MISSING	FD

HaroStrait

Federal Discrepancies Corrected

Kelp Reefs Light (C) 19710 RELIGHTED ED 2025-01-09	NAME	LLNR	STATUS	AID TYPE	CORRECTION DATE
	Kelp Reefs Light (C)	19710	RELIGHTED	FD	2025-01-09

Private Discrepancies

NAME	LLNR	STATUS	AID TYPE
Sherman Dock Light	19743	LT IMCH	PA

<u>Henrici</u>

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
Bachelor Point Light 13	11120	DBD DMGD	FD

Hood Canal

Federal Discrepancies Corrected

NAME	LLNR	STATUS	AID TYPE	CORRECTION DATE	
Port Ludlow Light 2	17705	WATCHING PROPERLY	FD	2025-01-14	

Additional MSI Categories

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
Admiralty Inlet - Hood Canal/General/Marine		Entact will be conducting dredging operations to deepen the entrance channel to the small Driftwood Key Club channel and several private docks in Coon Bay near Hansville, WA. The approximate location will be centered around Lat 47 54' 29.95" N, Lon 122 35' 24.80" W. Materials	
Construction (Excluding Bridges)/Dredging	(Excluding Bridges)	will be transported by barge to the beneficial reuse disposal location located approximately 5 NM south in Port Gamble Bay. The approximate disposal location will be centered around Lat 47 50' 38.41" N, Lon 122 35' 3.25" W. Operations will commence on or about 1/14/2025 and are expected to be completed by 2/15/2025 and will be conducted 7 days per week between 0700 – 1900. Dredge and tugs will monitor VHF-FM Channel 13 and 14. All vessels are advised to transit the area with extreme caution and reduce wake and maintain at least 100 yards from the operations. For further information, please contact Mike Russell at 231 638 6603 or mrussell@entact.com	

Kilisut Harbor

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
Kilisut Harbor Buoy 2	17595	MISSING	FD

Lady Island

Federal Discrepancies Corrected

NAME	LLNR	STATUS	AID TYPE	CORRECTION DATE
Lady Island Upper Range Rear Light	11515	WATCHING PROPERLY	FD	2025-01-21

Lake Celilo

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
Lake Celilo Light 9	12185	LT EXT	FD
Lake Celilo Daybeacon 27	12230	STRUCT DMGD	FD

Lake Sacajawea

Federal Discrepancies Corrected

NAME	LLNR	STATUS	AID TYPE	CORRECTION DATE
Lake Sacajawea Light 35	13385	RELIGHTED	FD	2025-01-08

<u>Lake Umatilla</u>

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
Lake Umatilla Light 35	12555	LT EXT	FD

Lake Wallula

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
Homly Center Channel Light 1	12985	STRUCT DEST/TRUB	FD

Lake Washington

Private Discrepancies Corrected

NAME	LLNR	STATUS	AID TYPE	CORRECTION DATE
South Leschi Breakwater Lights (5)	18385	REBUILT/RECOVERED	PA	2025-01-21
North Leschi Breakwater Lights (5)	18387	REBUILT/RECOVERED	PA	2025-01-21

Additional MSI Categories

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
Union Bay Reach - Lake Washington/General/Bridges/Construction	Bridges	Orion Marine will commence trestle installation on the southern portion of Portage Bay near the western section of the SR 520 Evergreen Point Highway Bridge (LLNR 18430) from 28 Oct 2024 to 01 Jul 2025. Work will be conducted Monday through Saturday, in approximate location 47-38-35.6 N, 122-18-44.8 W, and will include Pile Driving, Steel Trestle Framing and Timber Decking. Pile Driving will be conducted from 0700 to 2200 daily, other trestle installation activities are scheduled 24 hours a day for the duration of the work. Vessels onsite include the DB ST Helens, a Crane Barge, GC 28 Material Barge, GC 40 Material Barge, GC 41 Material Barge, Tug Carolyn H, and 6 work skiffs. Crews will be monitoring VHF-FM channels 13 and 14. Three anchor cables will be deployed on the south side of the bridge. Mariners are requested to use caution and reduce wake when transiting the area, and remain at least 200 feet from any work zone. For more information, contact Orion Marine at (206) 818-5387.	Lat: 47° 38' 35" Lon: -122° 18' 41"
Union Bay Reach - Lake Washington/General/Bridges/Maintenance	Bridges	WSDOT is beginning a multi-year project of maintenance on the Interstate 5 Highway Bridge (LLNR 18230) across the Lake Washington Ship Canal in Seattle, WA, at mile 4.2. The project will start with the Contractor installing suspended scaffolding below the upper deck of the I-5 Highway Bridge. This scaffolding may reduce the overhead clearance by ~3 feet. The installation will take place between 1900 – 0430 starting 14 Oct 2024, using Under Bridge Inspection Trucks (UBIT) and work crews overhead. Mariners are advised to use caution while transiting the area. For additional information, or to discuss the reduction of clearance, contact Kevin Murray at (206) 316-7237 or kevin.murray@atkn.com.	Lat: 47° 39' 11" Lon: -122° 19' 21"
Union Bay Reach - Lake Washington/General/Miscellaneous	Miscellaneous	Orion Marine will commence material loadout from Kenmore Channel to material barges for transit to the Portage Bay trestle bridge construction project. The loadout will commence 28 Oct and continue to approximately 01 Jul 2025, Monday through Saturday, in location 47-45-24.49 N, 122-15-21.66 W. Work is scheduled 24 hours a day and vessels onsite include Tug Carolyn H, GC 28 Material Barge, GC 40 Material Barge, GC 41 Material Barge. Crews will be monitoring VHF-FM channels 13 and 14. Barges will be moored along the existing pier. Mariners are requested to use caution and reduce wake when transiting near barges. For more information, contact Orion Marine at (206) 818-5387.	
Union Bay Reach - Lake Washington/General/Miscellaneous	Miscellaneous	Orion Marine will be mooring a derrick barge in northern Lake Washington near Kenmore channel, within 400 ft of approximate location 47-44-57.2N, 122-16-17.1W. The barge will be moored in this location for up to a year, as Orion is supporting the upcoming construction on the westernmost portion of the SR 520 Bridge over Portage Bay. For more information, contact Orion Marine, Joel Garcia, at (509) 240-2400 or email joelgarcia@orionmarinegroup.com.	Lat: 47° 44' 57" Lon: -122° 16' 16"

Little Goose Reservoir

Federal Discrepancies Corrected

NAME	LLNR	STATUS	AID TYPE	CORRECTION DATE
Little Goose Reservoir Light 16	13770	RELIGHTED	FD	2025-01-08
Schultz Bar Range Rear Light	13850	WATCHING PROPERLY	FD	2025-01-08
Boyer Range Rear Light	13915	WATCHING PROPERLY	FD	2025-01-16

Longview

Federal Discrepancies Corrected

NAME	LLNR	STATUS	AID TYPE	CORRECTION DATE
Cottonwood Island Lower Range Rear Light	10825	RELIGHTED	FD	2025-01-21

Lopez Sound

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
Cypress Reef Junction Daybeacon C	19480	DAYMK MISSING	FD

Federal Discrepancies Corrected

NAME	LLNR	STATUS	AID TYPE	CORRECTION DATE
Reef Point Junction Lighted Buoy	19400	RELIGHTED	FD	2025-01-10
Black Rock Light 9	19455	RELIGHTED	FD	2025-01-09
Sinclair Island Lighted Buoy 4	19505	RELIGHTED	FD	2025-01-09

Lower Granite Reservoir

Additional MSI Categories

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
Snake - Lower Granite Reservoir/General/Bridges/Lighting and Other Signals		All south side pier lights, and one north side pier light, have been reported extinguished on the Camas Prairie Railroad Bridge (LLNR 14070) on the Clearwater River.	Lat: 46° 25' 32" Lon:
			-117° 01' 34"

North Channel

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
Sand Island Lower Dike Light 1	14610	DAYMK MISSING/STRUCT DMGD	FD

<u>Olympia Harbor</u>

Private Discrepancies

NAME	LLNR	STATUS	AID TYPE
Olympia Harbor East Bay Light 5	17477	LT IMCH	PA

Additional MSI Categories							
TITLE	SUBCATEGORY	DESCRIPTION	LOCATION				
Dana Passage - Olympia Harbor/ATON/Advanced	Advanced Notice of Change	The US Coast Guard is changing the lighting equipment for Olympia Inner Range Front Light (LLNR 17480). The current lighting is becoming obsolete and subject to failure. To facilitate the replacement of this light, the replacement equipment will reduce the arc of visibility from 14°	Lat: 47° 04' 04"				
Notice of Change	5	each side of the range line to 9°. The overall intensity of the light will increase to match the characteristic of Olympia Inner 4 Range Rear Light (LLNR 17485). This reduction in the spread of the light will prevent it from being seen when transiting towards the shoal water to the west of the	Lon: -122° 54'				
		channel. When implemented, this change will be announced via a Broadcast 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-	31"				
		LNM@uscg.mil. Any discrepancy for Aids to Navigation should continue to be reported to US Coast Guard Sector Puget Sound.					

Port Angeles

Private Discrepancies

NAME	LLNR	STATUS	AID TYPE
Port Angeles Terminal 2 Light 2	16309	LT IMCH	PA
Port Angeles Boat Haven Mast Light	16330	LT EXT	PA
Port Angeles Terminal 7 Light A	16333	LT EXT	PA

Port Madison And Port Orchard

Additional MSI Categories

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
Puget Sound - Port Madison And Port Orchard/General/Naval	Naval Activity	The Naval Undersea Warfare Center (NUWC) at Keyport, WA is continuing operations in vicinity of NUWC between University Point, the Brownsville Marina and Keyport through 23 Dec 2025. Operations will normally be conducted Monday through Friday during daylight hours.	
Activity/Naval Testing (Surface/Underwater)		Operations will involve semisubmersible and submersible vehicles escorted by a small naval craft with a flashing red light. The small craft will monitor VHF-FM channels 12 and 16. The call sign for the small craft will be "Keyport Range Control". All craft transiting the area are	
		requested to exercise caution and maintain a sharp lookout for possible semi-submerged vehicles while the range is in operation. Questions can be directed to Keyport Range Control on VHF-FM channels 12 and 16 or by contacting the Pacific Northwest Range Management and	
		Ops Division, Range Control Branch, at (360) 396-2313.	

Possession Sound

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
Gedney Island Light 1	18480	LT EXT	FD

Federal Discrepancies Corrected

NAME	LLNR	STATUS	AID TYPE	CORRECTION DATE
Gedney Island Light 1	18480	RELIGHTED	FD	2025-01-14

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
Puget Sound - Possession Sound/General/Marine	Marine Events	Recurring Dates: Jan 5, Jan 19, Feb 2, Feb 16, Mar 2. Possession Sound and Port Gardner Recreation Sailboat Racing using	
Events/Regatta (Race)		both fixed navigation and temporary inflatable marks.	

Puget Sound

Private Discrepancies

NAME	LLNR	STATUS	AID TYPE
Edmonds Fishing Reef Buoys (2)	16720	MISSING	PA
Golden Gardens Boat Ramp Pier Light	16775	LT EXT	PA
Temporary Changes			

NAME	LLNR	STATUS	AID TYPE
Tacoma Narrows West Highway Bridge SW Fog Horn	17228.4	DISCONTINUED	PA

Additional MSI Categories					
	TITLE	SUBCATEGORY	DESCRIPTION	LOCATION	
	Admiralty Inlet - Puget Sound/General/Marine Events/Regatta (Race)	Marine Events	09 FEB - 27 APR 2025, 1200-1500. Sunday biweekly. Sailing race between Shilshole Bay and Scatchet Head		

Quillayute River

Additional MSI Categories

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
Sector Pudget Sound, Submerged Land Act (SLA) -	Marine Construction	Quigg Bros. will conduct repairs to the timber wall adjacent to the marina in La Push during the afternoon hours	
Quillayute River/General/Marine Construction	(Excluding Bridges)	from 1/13/2025-1/28/2025. A derrick and skiff (Named the Sea Wolf) will be used. Quigg Bros. will then conduct	
(Excluding Bridges)/Facilities, Barriers, Manmade Reefs,		Piledriving and Fixed Dock Installations at the marina in La Push during daylight hours, Monday - Friday, 1/27/2025-	
Riprap, Jetties/Dikes		2/28/2025. For more information, contact Eric Seely, at erics@quiggbros.com or 360-591-4818.	

San Juan Channel

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
Richardson Daybeacon	19545	DAYMK DMGD	FD
Twin Rocks Daybeacon	19550	STRUCT MISSING	FD

Additional MSI Categories

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
San Juan Channel/General/Miscellaneous		privately maintained, yellow, can buoy with a light characteristic Fl (5) Y 20s.	Lat: 48° 33' 49" Lon:
			-123° 01' 32"

Sector Columbia River, Exclusive Economic Zone (EEZ)

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
NOAA Environmental Lighted Buoy 46002	765.1	Status Unreported	FD
DART Tsunami Warning Lighted Buoy 46407	765.2	MISSING	FD

Private Discrepancies Corrected

NAME	LLNR	STATUS	AID TYPE	CORRECTION DATE
Scripps Institute Wave Recorder Lighted Buoy 46248/179	710	RESET ON STATION	PA	2025-01-10

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
District 13, Oceanic boundary to EEZ - Sector Columbia River, Exclusive Economic Zone (EEZ)/ATON/Advanced Notice of Change		The U.S. Coast Guard will be permanently reducing the intensity of North Head Light (LLNR 700) from 19 NM to 14 NM. The light characteristic will change from two white flashes every 30 seconds (FI (2) W 30s) to two white flashes every 15 seconds (FI W (2) 15s. This will facilitate the installation of a LED Lantern and increase reliability as the original lighting equipment is becoming obsolete. Mariners are encouraged to share comments on this 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.	Lat: 46° 17' 56" Lon: -124° 04' 41"
District 13, Oceanic boundary to EEZ - Sector Columbia River, Exclusive Economic Zone (EEZ)/General/Naval Activity/Naval Testing (Surface/Underwater)	Naval Activity	The M/V Independence is conducting operations off the coast of Washington within a 15 nautical mile radius of position 47.42 N, 125.50 W during the period of 20 - 25 Jan 2025. Mariners are advised to use caution when transiting the area due to submerged gear from surface to seafloor. The M/V Independence will be monitoring VHF FM channels 16 and 13 during these operations and have requested that mariners maintain and avoid transiting within 2 nautical miles. For more information contact Steve Canale at (360) 434-8624.	

Sector Columbia River, Submerged Land Act (SLA)

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
Cape Blanco Light	595	LT IMCH/REDUCED INT	FD

Federal Discrepancies Corrected

NAME	LLNR	STATUS	AID TYPE	CORRECTION DATE
Yaquina Bay Approach Lighted Whistle Buoy Y	645	RELIGHTED	FD	2025-01-14

Additional MSI Categories

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
Sector Columbia River, Territorial Sea - Sector Columbia River, Submerged Land Act (SLA)/ATON/Advanced Notice of Change	Notice of Change	system are uncertain at this time. Mariners are encouraged to share comments on this and the performance and operation of these aids to	Lat: 42° 50' 13" Lon: -124° 33' 49"
Sector Columbia River, Territorial Sea - Sector Columbia River, Submerged Land Act (SLA)/General/Miscellaneous		approximate 2.5 nautical miles WNW of Yaquina Head in approximate position 44.68975 N, 124.13535 W. The buoy is moored with a multi-point anchor spread, with anchors located to the North, East, Southeast, Southwest and West of the Ocean Sentinel surface buoy. The anchor spread occupies approximately 400 yard diameter from the centrally located Ocean Sentinel. The Ocean Sentinel buoy is	Lat: 44° 41' 23" Lon: -124° 08' 07"

Sector Columbia River, Territorial Sea

Additional MSI Categories

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
Sector Columbia River, Exclusive	Miscellaneous	Oregon State University - PacWave has deployed a network of site monitoring equipment throughout the PacWave South wave energy	
Economic Zone (EEZ) - Sector Columbia		test site, approximate 7 NM WSW of Yaquina Bay Entrance. The equipment will be in place from Dec 2024 through Jun 2025. The study	
River, Territorial		consists of up to 12 surface buoys and 2 seafloor mounted instruments. Some of the buoys are low profile and may be difficult to see in	
Sea/General/Miscellaneous		elevated sea states. All buoys have a yellow hull and are lighted with flashing amber lights. Mariners are requested to avoid the test site	
		if possible and/or use caution when navigating or operating in the vicinity. For additional information contact	
		brett.hembrough@oregonstate.edu or (541) 737-9023	

Sector Pudget Sound, Submerged Land Act (SLA)

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
Carmanah Point Light (C)	770	LT EXT	FD

Additional MSI Categories

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
Sector Pudget Sound, Submerged Land Act (SLA)/General/Miscellaneous	Miscellaneous	Olympic Coast National Marine Sanctuary will be conducting oceanographic research in Makah Bay and Teawhit Head from Oct 2024 until May 2025. The R/V Storm Petrel has deployed two moorings at the locations listed below, one near Cape Flattery and another near La Push: MB042 48-19-26.280N 124-44-7.380W TH042 47-52-34.140N 124-44-0.300W The surface gear on these moorings consists of a 12-inch low- drag surface float (Polyform LD-2) 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 approximately 300 pounds. The anchor consists of five 2.75-inch chain links. For additional information, please contact the Vessel Operations Coordinator at (360) 406-2085.	Lat: 48° 19' 26" Lon: -124° 44' 07"
Sector Pudget Sound, Submerged Land Act (SLA)/General/Miscellaneous	Miscellaneous	Olympic Coast National Marine Sanctuary will be conducting oceanographic research in Makah Bay and Teawhit Head from Oct 2024 until May 2025. The R/V Storm Petrel has deployed two moorings at the locations listed below, one near Cape Flattery and another near La Push: MB042 48-19-26.280N 124-44-7.380W TH042 47-52-34.140N 124-44-0.300W The surface gear on these moorings consists of a 12-inch low- drag surface float (Polyform LD-2) 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 approximately 300 pounds. The anchor consists of five 2.75-inch chain links. For additional information, please contact the Vessel Operations Coordinator at (360) 406-2085.	Lat: 47° 52' 35" Lon: -124° 44' 01"

Siuslaw River

Federal Discrepancies

NAME		LLNR	STATUS	AID TYPE	E
Siuslaw River Channel Buoy 7		9485	OFF STATION	FD	
Additional MSI Categories					
TITLE	SUBCATEGORY		DESCRIPTION		LOCATION

Bridges

<u>Snake</u>

Additional MSI Categories

Additional more categories					
TITLE	SUBCATEGORY	DESCRIPTION	LOCATION		
Snake - Snake/General/Marine Construction (Excluding Bridges)/Dredging	Marine Construction (Excluding Bridges)	J.E. McAmis Construction is performing routine maintenance dredging at Lower Granite Dam in the spill bay (tailrace) from 16 Jan – 03 Feb 2025. Barge traffic is anticipated at night to take dredge material to the dredge disposal location at Swift Bar (6-mile down river from Almota Grain Elevator). Two yellow data buoys will be placed in the navigation channel at Swift Bar disposal location. For more information contact Brian Perleberg, Northern Resource Consulting, at (360) 721-5446 or Darrell Jameson, J.E. McAmis Dredge Manager, at (360) 984-9178.			
Snake - Snake/General/Miscellaneous	Miscellaneous	The Lower Granite navigation lock at Snake River mile 107.5, will be removed from service from 16 Jan – 07 Feb 2025 in order to remove sediment from the dam tailrace stilling basin, and for divers to inspect the concrete structure. For additional information contact the Lower Granite Operator at (509) 843-2231.			

Snohomish River

Additional MSI Categories

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
Possession Sound - Snohomish River/General/Bridges/Temp Deviation	Bridges	The Coast Guard has approved a temporary deviation for the SR-529 Bridge Southbound (LLNR 18594.9) and SR-529 Bridge Northbound (LLNR 18594.11) crossing Steamboat Slough at mile 1.1, near Marysville, WA. The deviation will allow personnel to safely conduct maintenance and repair to the subject bridges. The draws will be authorized to not open to marine vessels during the following dates/times: SR-529 Bridge south bound: from 2300 on 01 Nov to 2300 on 04 Nov 2024 from 2300 on 15 Nov to 2300 on 18 Nov 2024 SR-529 Bridge north bound: from 2300 on 22 Nov to 2300 on 26 Nov 2024 from 2300 on 06 Dec to 2300 on 10 Dec 2024 Vessels which do not require a bridge opening may continue to transit beneath these bridges during the closure dates. The bridges will not be able to open for emergencies, and an alternate route for vessels to pass is via Ebey Slough or Union Slough. In accordance with 33 CFR 117.35(e), the drawbridges must return to their regular operating schedule immediately at the end of the effective period of this temporary deviation. For additional information contact Garry Manous at gmanous@libertymaintenanceinc.com.	Lat: 48° 02' 11" Lon: -122° 10' 57"
Possession Sound - Snohomish River/General/Marine Construction (Excluding Bridges)/Dredging	Marine Construction (Excluding Bridges)	HME Construction will be dredging the Snohomish River Channel in Everett from STA 50+00 to STA 120+50, utilizing the clamshell dredges Sea Horse and Sea Hawk and 2 dump scows. Dredge spoils will be transported to the in-water disposal site, Port Gardner, via split-hull dump scow. The tug Island Chief and assist vessel Douglas will also be on scene. Operations will run 24/7 from approximately 01 Jan – 28 Feb 2025. The crew will monitor VHF-FM channels 16 and 67. For more information, contact HME PM Evan Gross at (503) 250-1827 or Kyle Barber at (360) 593-8354.	

<u>South Slough</u>

Additional MSI Categories

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
Coos Bay - South Slough/General/Marine Construction	Marine Construction	The Port of Coos Bay will conduct piling replacement at the Charleston Shipyard's Floating Work Dock.	Lat:
(Excluding Bridges)/Facilities, Barriers, Manmade Reefs,	(Excluding Bridges)	Work is expected to occur between 20 – 31 Jan 2025. For more information, contact Ray Dwire at	43° 20' 10"
Riprap, Jetties/Dikes		rdwire@portofcossbay.com or (541) 266-3710.	Lon:
			-124° 19'
			14"

Strait Of Georgia

Additional MSI Categories

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
Strait Of Georgia/General/Marine Construction (Excluding Bridges)/Survey		Gravity Marine will deploy a research cable in the Strait of Georgia, between 20 – 31 Jan 2025. Surface marker buoy(s) will denote diver operations. A research vessel and divers will be on scene during the in-water deployment. Mariners are requested	
Operations		to use caution and reduce wake when transiting near operations during this time. The preferred safety distance from the vessel and dive operations is 300 meters. The vessel may be hailed on VHF-FM channel 16 or 13. For additional information, contact Corey Lindsay at (360) 599-0560.	
Strait Of Georgia/General/Miscellaneous	Miscellaneous		Lat: 48° 51' 17" Lon: -122° 43' 52"

StraitofJuanDeFuca

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION

Naval Activity The NAS Whidbey Island Small Arms Safety Range located off the western shore of Whidbey Island will be active on the following schedule: On 13JAN25 from 0800U to 1500U. On 14JAN25 from 0800U to 2100U. On 15JAN25 from 0800U to 2200U. On 16JAN25 from 0800U to 2100U. On 21JAN25 from 0800U to 2100U. On 22JAN25 from 0800U to 2100U. On 23JAN25 from 0800U to 2100U. On 24JAN25 from 0800U to 2100U. On 23JAN25 from 0800U to 2100U. On 24JAN25 from 0800U to 1500U. Red flashing lights (at nighttime) mark the onshore Northern and southern firing boundaries out to 2000 yards from the shoreline during live fire operations. For more information contact the Safety Officer at 360-257-3825 or VHF-FM channel 82A (1082).

Swinomish Channel North Entrance

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
Swinomish Channel North Entrance Light 2	19075	LT EXT	FD

Swinomish Channel South Entrance

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
Swinomish Channel South Entrance Buoy 5	18802	MISSING	FD

Tansy Point

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
Tansy Point Range Buoy 35A	10045	OFF STATION	FD

Federal Discrepancies Corrected

NAME	LLNR	STATUS	AID TYPE	CORRECTION DATE
Tansy Point Range Buoy 35A	10045	RESET ON STATION	FD	2025-01-13

Tillamook Bay

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
Tillamook Bay Entrance Lighted Buoy TS	9815	MISSING	FD

Additional MSI Categories

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
Sector Columbia River, Submerged Land Act (SLA) - Tillamook Bay/ATON/Advanced Notice of Change	Advanced Notice of Change	The U.S. Coast Guard is changing the aids to navigation that mark the entrance into Tillamook Bay: Tillamook Bay Approach Lighted Whistle Buoy T (LLNR 680-9810) will be disestablished, and a virtual AIS signal will be broadcast in approximate position 45-34-08.600N 123-59-16.900W. Tillamook Bay Entrance Lighted Buoy TN (LLNR 9813) a synthetic AIS signal will broadcast at this position in the future. Tillamook Bay Entrance Lighted Buoy TS (LLNR 9815) a synthetic AIS signal will broadcast at this position in the future. Tillamook Bay Entrance Lighted Buoy TS (LLNR 9815) a synthetic AIS signal will broadcast at this position in the future. Mariners are encouraged to share comments on this proposed 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.	Lat: 45° 34' 16" Lon: -123° 58' 23"
ATON/Advanced Notice of Change	Advanced Notice of Change	The U.S. Coast Guard is changing the aids to navigation that mark the entrance into Tillamook Bay: Tillamook Bay Approach Lighted Whistle Buoy T (LLNR 680-9810) will be disestablished, and a virtual AIS signal will be broadcast in approximate position 45-34-08.600N 123-59-16.900W. Mariners are encouraged to share comments on this proposed 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.	Lat: 45° 35' 35" Lon: -123° 58' 52"
Sector Columbia River, Submerged Land Act (SLA) - Tillamook Bay/General/Marine Construction (Excluding Bridges)/Facilities, Barriers, Manmade Reefs, Riprap, Jetties/Dikes	Construction (Excluding Bridges)	Trade West Construction is moving jetty material to a material offloading facility for use on the Tillamook Bay South Jetty repairs. Jetty stone will be transported from the Port of Garibaldi, approximate location 45-33-14 N, 123-54-54 W, to Kincheloe Point on the Bay Ocean Peninsula in approximate location 45-33-07 N, 123-56-09 W. The tugboat and support vessel involved in this operation will monitor VHF-FM channels 8 and 10. In addition, at various times stone material will be transported and placed on the jetty. Mariners are strongly advised to keep a safe distance from the tug and barge operations and the repair work on the jetty. This project is expected to continue into the Fall of 2025. For more information, contact Keyanee Faught at (435) 669-7976 or email keyaneef@gmail.com.	

Umpqua River

Federal Discrepancies

NAME		LLNR	STATUS	AID TYPE
Leeds Island Range Front Light	9346		LT EXT	FD
Federal Discrepancies Corrected				
NAME	LLNR	STATU	S AID TY	PE CORRECTION DATE
Umpqua River Regulated Navigation Area Warning Sign	9250	RELIGHTED	FD	2025-01-09

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION	

Land Act (SLA) - Umpgua of Change River/ATON/Advanced Notice of Change

Sector Columbia River, Submerged Advanced Notice The U.S. Coast Guard will not be commissioning the seasonal Sound Signal at Umpqua River South Jetty Sound Signal (LLNR 9247) in May Lat: of 2025 and will be permanently disestablishing it. This signal is no longer considered necessary for safe navigation of the waterway and 43° 39' 59" the US Coast Guard is discontinuing its use commencing with the 2025 spring installation. Mariners are encouraged to share comments Lon: on this proposed change and the performance and operation of this aids to navigation. All comments should be sent to the email address -124° 13' D13-SMB-D13-LNM@uscg.mil. Any discrepancy for these or other Aids to Navigation should continue to be reported to US Coast Guard 10" Sector Columbia River.

Union Bay Reach

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
Lake Union - Union Bay Reach/General/Bridges/Temp Deviation	Bridges	The U.S. Coast Guard intends to approve a temporary deviation for the operating schedule that governs the Fremont Bridge (LLNR 18182), mile 2.6, and the University Bridge (LLNR 18235), mile 4.3, both crossing the Lake Washington Ship Canal in Seattle, WA. The deviation will accommodate the Tenacious Ten running event. The Fremont Bridge provides 29 feet (center 100 feet of draw, sides14 feet) of vertical clearance in the closed-to-navigation position above high water. The University Bridge provides 45 feet (center of draw, sides 30 feet) of vertical clearance in the closed-to-navigation position above high water. To facilitate this event, the draws of the subject bridges will be maintained in the closed-to-navigation position above high water. To facilitate this event, the draws of the subject bridges will be maintained in the closed-to-navigation positions as follows: the University Bridge need not open for vessel traffic from 0730 to 0930 on 5 Apr 2025, and the Fremont Bridge need not open for vessel traffic from 0830 to 1030 on 5 Apr 2025. Vessels that do not require bridge openings may continue to transit beneath these bridges during the closure periods. The draws will be required to open, if needed, for vessels engaged in emergency response operations during this closure period. Please submit comments or objections before 24 Jan 2025 at d13-smb-d13-bridges@uscg.mil.	-122° 20'
Lake Union - Union Bay Reach/General/Bridges/Temp Deviation	Bridges	The U.S. Coast Guard intends to approve a temporary deviation for the operating schedule that governs the Fremont Bridge (LLNR 18182), mile 2.6, and the University Bridge (LLNR 18235), mile 4.3, both crossing the Lake Washington Ship Canal in Seattle, WA. The deviation will accommodate the Tenacious Ten running event. The Fremont Bridge provides 29 feet (center 100 feet of draw, sides 14 feet) of vertical clearance in the closed-to-navigation position above high water. The University Bridge provides 45 feet (center of draw, sides 30 feet) of vertical clearance in the closed-to-navigation position above high water. To facilitate this event, the draws of the subject bridges will be maintained in the closed-to-navigation positions as follows: the University Bridge need not open for vessel traffic from 0730 to 0930 on 5 Apr 2025, and the Fremont Bridge need not open for vessel traffic from 0830 to 1030 on 5 Apr 2025. Vessels that do not require bridge solving mergency response operations during this closure period. Please submit comments or objections before 24 Jan 2025 at d13-smb-d13-bridges@uscg.mil.	47° 39' 11" Lon: -122° 19'

Unknown

Private Discrepancies Corrected

NAME	LLNR	STATUS	AID TYPE	CORRECTION DATE
Blair Waterway Light 5	17168	RELIGHTED	PA	2025-01-21

Welch Island

Additional MSI Categories

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
Miller Sands - Welch	Advanced Notice	The US Coast Guard is changing the lighting equipment for Skamokawa Range Rear Light (LLNR 10360). The current lighting is becoming obsolete	Lat:
Island/ATON/Advanced	of Change	and subject to failure. To facilitate the replacement of this light, the replacement equipment will reduce the arc of visibility from 14° each side of	46° 13' 55"
Notice of Change		the range line to 9°. The overall intensity of the light will increase to match the characteristic of Skamokawa Range Front Light (LLNR 10355). This	Lon:
		reduction in the spread of the light will prevent it from being seen when transiting towards the shoal water to the south of the channel. When	-123° 25'
		implemented, this change will be announced via a Broadcast Notice to Mariners. Mariners are encouraged to share comments on the	15"
		performance and operation of these lights as aids to navigation. All comments should be sent to the email address D13-SMB-D13-LNM@uscg.mil.	
		Any discrepancy for Aids to Navigation should continue to be reported to US Coast Guard Sector Columbia River.	

Westhaven

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
Westhaven Light 7	16001	LT EXT	FD

Westport

Federal Discrepancies

NAME	LLNR	STATUS	AID TYPE
Westport Dike Light 58	10475	LT EXT/STRUCT DMGD	FD

Willamette River

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
Columbia River - Willamette River/General/Bridges/Repairs, Painting, Or Fender Replacement	5	57-51 W, from 09 Sep 2024 to 26 Mar 2025. Temporary work platforms will be located at each pier on either side of the river in order to conduct seismic retrofit strengthening. The platforms will extend approximately 4 feet toward the channel from each pier. The platforms will reduce the vertical clearance at the west (river left) pier by approximately 6 feet, from 15 feet above ordinary high water to 9 feet above	Lat: 44° 04' 18" Lon: -122° 57' 51"

Columbia River - Willamette River/General/Bridges/Temp Deviation	Bridges	The Coast Guard intends to approve a temporary deviation to the operating schedule that governs the Hawthorne Bridge (LLNR 14955.6), mile 13.1, crossing the Willamette River at Portland, OR. This deviation accommodates upgrading the control system and power distribution panel. This deviation will allow the subject bridge to remain in the closed-to-navigation position from 0700 on 31 Mar 2025 to 2359 on 13 Apr 2025. The Hawthorne Bridge provides 49 feet of vertical clearance while in the closed-to-navigation position above high water. The vertical clearance is referenced to the vertical clearance above Columbia River Datum 0.0. Vessels which do not require a bridge opening may continue to transit beneath the bridge during this closure period. The bridge will not be able to open for emergencies, and there is no immediate alternate route for vessels to pass. In accordance with 33 CFR 117.35(e), the drawbridge must return to its regular operating schedule immediately at the end of the effective period of this temporary deviation. Please submit comments or objections by 24 Jan 2025 at d13-smb-d13-bridges@uscg.mil. For more information contact Jacqueline Henry at (503) 312-4934 or Jacqueline.henry@multco.us.	
Columbia River - Willamette River/General/Bridges/Temp Deviation	Bridges	The Coast Guard intends to approve a temporary deviation to the operating schedule that governs the Broadway Bridge (LLNR 14955.2), mile 11.7, Morrison Bridge (LLNR 14955.4), mile 12.8, and Hawthorne Bridge (LLNR 14955.6), mile 13.1, crossing the Willamette River at Portland, OR. This deviation accommodates the Bridge-to-Brews event. This deviation allows the subject bridges to remain in the closed-to-navigation position to allow safe and timely movement of event participants from 0830 until 1130 on 13 Apr 2025. The subject bridges provide the following vertical clearances: Broadway Bridge 69 feet, Morrison Bridge 69 feet, and the Hawthorne Bridge provides 49 feet while in the closed-to-navigation position. All vertical clearances are referenced to the vertical clearance above Columbia River Datum 0.0. Vessels which do not require a bridge opening may continue to transit beneath the bridge during this closure period. These bridges will be able to open for emergencies, and there is no immediate laternate route for vessels to pass. In accordance with 33 CFR 117.35(e), the drawbridges must return to their regular operating schedule immediately at the end of the effective period of this temporary deviation. Submit comments to d13-smb-d13-bridges@uscg.mil before 31 Jan 2025 if these bridge closures cannot be supported. For more information contact Matt Studer at (503) 988-3757 or matt.d.studer@multco.us.	45° 31' 55" Lon: -122° 40' 27"
Columbia River - Willamette River/General/Bridges/Temp Deviation	Bridges	The Coast Guard intends to approve a temporary deviation to the operating schedule that governs the Broadway Bridge (LLNR 14955.2), mile 11.7, Morrison Bridge (LLNR 14955.4), mile 12.8, and Hawthorne Bridge (LLNR 14955.6), mile 13.1, crossing the Willamette River at Portland, OR. This deviation accommodates the Bridge-to-Brews event. This deviation allows the subject bridges to remain in the closed-to-navigation position to allow safe and timely movement of event participants from 0830 until 1130 on 13 Apr 2025. The subject bridges provide the following vertical clearances: Broadway Bridge 69 feet, Morrison Bridge 69 feet, and the Hawthorne Bridge provides 49 feet while in the closed-to-navigation position. All vertical clearances are referenced to the vertical clearance above Columbia River Datum 0.0. Vessels which do not require a bridge opening may continue to transit beneath the bridge during this closure period. These bridges will be able to open for emergencies, and there is no immediate latenate route for vessels to pass. In accordance with 33 CFR 117.35(e), the drawbridges must return to their regular operating schedule immediately at the end of the effective period of this temporary deviation. Submit comments to d13-smb-d13-bridges@uscg.mil before 31 Jan 2025 if these bridge closures cannot be supported. For more information contact Matt Studer at (503) 988-3757 or mat.d.studer@multco.us.	45° 31' 04" Lon: -122° 40' 11"
Columbia River - Willamette River/General/Bridges/Temp Deviation	Bridges	The Coast Guard intends to approve a temporary deviation to the operating schedule that governs the Broadway Bridge (LLNR 14955.2), mile 11.7, Morrison Bridge (LLNR 14955.4), mile 12.8, and Hawthorne Bridge (LLNR 14955.6), mile 13.1, crossing the Willamette River at Portland, OR. This deviation accommodates the Bridge-to-Brews event. This deviation allows the subject bridges to remain in the closed-to-navigation position to allow safe and timely movement of event participants from 0830 until 1130 on 13 Apr 2025. The subject bridges provide the following vertical clearances: Broadway Bridge 69 feet, Morrison Bridge 69 feet, and the Hawthorne Bridge provides 49 feet while in the closed-to-navigation position. All vertical clearances are referenced to the vertical clearance above Columbia River Datum 0.0. Vessels which do not require a bridge opening may continue to transit beneath the bridge during this closure period. These bridges must return to their regular operating schedule immediately at the end of the effective period of this temporary deviation. Submit comments to d13-smb-d13-bridge@uscg.mil before 31 Jan 2025 if these bridge closures cannot be supported. For more information contact Matt Studer at (503) 988-3757 or matt.d.studer@multco.us.	45° 30' 47" Lon: -122° 40' 15"

<u>Williamette</u>

Additional MSI Categories

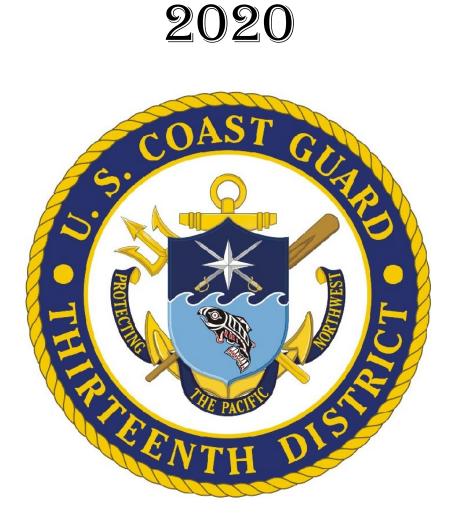
TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
Columbia - Williamette/General/Bridges/Construction	Bridges Kiewit Construction will begin a seismic upgrade construction project on the I-205 Highway Bridge (LLNR 15078) AKA, Abernethy Bridge across the Willamette River at RM 25.6, from 20 Jun 22 to 01 Oct 25. The construction activity will take place across the en river at the bridge. Construction personnel will be working 24 hours a day Monday through Saturday. Bridge construction work w 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 hig water (OHW), or 76.0 feet high at Columbia River Datum (CRD). The temporary navigation channel will be marked with floating b 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 throughou 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 (5) of this LNM. For more information contact Kiewit Construction, Ritch Schubert, at (503) 710-2277 or er ritch.schubert@kiewit.com.		
Columbia - Williamette/General/Bridges/Lighting and Other Signals	Bridges		Lat: 45° 17' 35" Lon: -122° 46' 35"
Columbia - Williamette/General/Bridges/Temp Deviation	Bridges	The Coast Guard intends to approve a request for a temporary deviation from the operating schedule that governs the St. Johns Railroad Bridge (LLNR 14927.5) across the Willamette River at mile 6.9 at Portland, OR, on 17 Feb 2025. The bridge need not open for maritime traffic from 0800 to1500 on 17 Feb 2025. This bridge closure is necessary for immediate rail maintenance. The draw will not be able to open for emergencies during this closure. The subject bridge provides 54 feet of vertical clearance in the closed-to-navigation position above Columbia River Datum 0.0. Vessels that do not require bridge openings may continue to transit beneath this bridge during the closure time. Please submit comments or objections before 27 Jan 2025 at d13-smb-d13-bridges@uscg.mil.	

<u>Yaquina Bay</u>

Federal Discrepancies

STATUS

/aquina Bay Entrance Range Rear Light			9585	LT EXT	FD	
Additional MSI Categories	5					
TITLE	SUBCATEGORY	DE	SCRIPTION			LOCATION
Sector Columbia River, Submerged Land Act (SLA) - Yaquina Bay/ATON/Advanced Notice of Change	Advanced Notice of Change	The U.S. Coast Guard will not be commissioning the seasonal May of 2025 and will be permanently disestablishing it. This si waterway and the US Coast Guard is discontinuing it commen share comments on this proposed change and the performan sent to the email address D13-SMB-D13-LNM@uscg.mil. Any be reported to US Coast Guard Sector Columbia River.	gnal is no longer con cing with the 2025 s ce and operation of	nsidered necessary for safe r pring installation. Mariners a this aids to navigation. All co	navigation of the are encouraged to comments should be	44° 36' 36" Lon: -124° 04'
Sector Columbia River, Submerged Land Act (SLA) - Yaquina Bay/General/Bridges/Lighting and Other Signals	Bridges	The US Highway 101 Bridge (LLNR 9627) over the Yaquina Bay	/ has significant dam	age to some of the protection	on piers.	Lat: 44° 37' 19" Lon: -124° 03' 22"



SPECIAL LOCAL NOTICE TO MARINERS

U.S. Department of Homeland Security

United States Coast Guard



Commander United States Coast Guard Thirteenth District 915 Second Ave. Seattle, WA 98174-1067 Staff Symbol: (dpw) Phone: (206)220-7280

MAY 2 7 2020

To: All Mariners in the 13th Coast Guard District

This Special Local Notice to Mariners is an annual publication containing important information for the mariners. Thirteenth District waterways include the seacoast from the California/Oregon border to the United States/Canadian border, and all waters subject to the jurisdiction of the United States in Idaho, Montana, Oregon and Washington.

This publication includes web links, points of contact, phone numbers and email addresses for various agencies and subject matter experts, to assist you in locating further information or answer any questions. Included are valuable safety guidelines, tips for trip planning, guidance for maritime communications, information on local hazards and more. I hope you find this publication helpful and useful as a guide to safe operations in our area.

As the Thirteenth District Commander, it is a great pleasure working with the maritime community to keep our waterways safe and secure. The men and women of the United States Coast Guard remain dedicated to ensuring the safety, security, and environmental stewardship of our waterways and the maritime environment. We work diligently each day to prevent bad things from happening and remain ready to respond when mariners need our services.

If you wish to make comments or suggestions to this Special LNM, please feel free to contact the Marine Information Specialist at the address above or fill out the suggestion form located in enclosure (1).

Sincerely,

Anthony J. Nogt

Anthony J. Vogt Rear Admiral, U.S. Coast Guard Commander, Thirteenth Coast Guard District

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CHAPTER I

EMERGENCY PROCEDURES

INTERNATIONAL DISTRESS SIGNALS

All mariners should be familiar with the International Distress Signals and procedures, for recognition, self-reliance or in the event of distress where the captain and officers may have been incapacitated. Short-range distress signals, limited in range of visibility or audibility, are:

- 1. "SOS" (··· --- ···) signal made by audio or visual means.
- 2. International Flag Code "NC" (November Charlie flag hoist).
- 3. Hoisting any square flag with a ball, or anything resembling a ball, above or below it.
- 4. Flames made visible (as burning oil in a barrel).
- 5. A meteor, parachute or hand held flare showing a red light.
- 6. Rockets or shells, throwing red stars, fired one at a time in short intervals.
- 7. Orange smoke as emitted from a distress flare.
- 8. A gun or other explosive device fired at about one minute intervals.
- 9. Continuous sounding of any fog signal device.
- 10. Slowly and repeatedly raising and lowering arms outstretched to each side.
- 11. (EPIRB) signals transmitted by emergency position indicating radio beacons.
- 12. A signal sent by radiotelephone consisting of the spoken word "MAYDAY".
- 13. Radiotelegraphalarmsignal.
- 14. Radiotelephone alarm signal.
- 15. A high intensity white light flashing at regular intervals from 50 to 70 times per minute (Inland Waters only).

The preceding distress signals are contained in the Navigation Rules Rule 37 and described in Annex IV of the Navigation Rules and Regulations Handbook. Available online at the United States Coast Guard Navigation Center website: https://www.navcen.uscg.gov/index.php?pageName=NavRulesAmalgamated

RENDERING OF ASSISTANCE

The master or person in charge of a vessel is obligated by law to provide whatever assistance can be safely provided to any individual at sea in danger of being lost, and is subject to a fine and/or imprisonment for failure to do so (Title 46 USC 2304).

RADIOTELEPHONE (VOICE) DISTRESS MESSAGE

Periodically, mariners in distress or having knowledge of another vessel in distress do not give all the information required by the International Radio Regulations and by the Federal Communications Commission. This often makes it impractical to start a search and could very well lead to loss of life. Use of proper format is vital in the transmission of marine distress messages. The urgency of the situation places a premium on brevity and clarity. The Coast Guard strongly recommends that all mariners learn the distress message format and transmission procedures.

1. SPEAK SLOWLY AND CLEARLY

If you are in DISTRESS (i.e.: when threatened by grave and imminent danger) transmit the International Distress Call on VHF-FM Channel 16 (156.8 MHz) - MAYDAY MAYDAY MAYDAY THIS IS (your vessel's call sign and name repeated not more than THREE times). If you need information or assistance from the Coast Guard (other than in a distress) call COAST GUARD on VHF-FM Channel 16 (156.8 MHz) (the DISTRESS and CALLING FREQUENCIES). In this situation, you will normally be shifted to a common working frequency allowing the DISTRESS frequencies to remain open.

2. IF ABOARD A VESSEL IN DISTRESS OR DIFFICULTY – PROVIDE:

If you are the master, crew, or passenger on a vessel in immediate danger, contact assistance by the most rapid means available (radio, cell phone, signal device, etc.). Be prepared to provide:

a. LOCATION:

Provide the GPS coordinates of your location. If these are not available, provide the most recently logged GPS position or the ship's position relative to a geographic point with as much detail as possible. For example, saying "80 nautical miles at 250 degrees true from the mouth of the Columbia River" is better than "due west of the Columbia River."

- b. NUMBER OF PERSONS ON BOARD: You will be instructed to get them into personal flotation devices (lifejackets).
- c. VESSEL DESCRIPTION & NAME:

Provide your vessel's physical description (length, type, cabin, masts, power, hull color, superstructure and trim) and name.

d. NATURE OF DISTRESS:

Provide the reason assistance is needed. This is critical in assisting responders with determining whether or not they need to bring specialized equipment such as pumps, firefighting foam, medical personnel, etc. Once this information has been passed to the Coast Guard, be prepared for the following:

a. If you are calling in from a cell-phone you will be asked for that phone number and how much time you have left on yourbattery.

b. If you are calling on VHF-FM Channel 16, you may be switched to a separate Coast Guard working frequency. You will likely be placed on a communications schedule while waiting for assistance to arrive.

c. You will be asked to confirm that all persons on board have donned personal flotation devices (life jackets).

d. You will likely be asked to report the seaworthiness of your vessel (leaking, compartments flooded, source of flooding, etc.).

3. <u>IF OBSERVING ANOTHER VESSEL IN DISTRESS OR SHOWING SIGNS OF HAVING DIFFICULTY –</u> <u>PROVIDE:</u>

- a. Your position, and (if possible) the bearing and distance from a point of land, or GPS readings of the vessel in distress or difficulty.
- b. Nature of distress or difficulty.
- c. Description of the vessel in distress or difficulty.
- d. Your intentions, course, and speed, etc.
- e. Your radio call sign, name of your vessel, listening frequency and schedule.
- f. Cell phone number.

The Distress Call has absolute priority over all other transmissions and shall not be addressed to any particular station. Any mariner hearing a Distress Call shall immediately cease all transmissions which may interfere with the distress message and shall continue to listen on the frequency on which the call was heard. If your vessel is in distress and abandonment is necessary, the radio transmitter should be set for continuous emission if possible, to provide rescue vessels and aircraft with a homing signal.

DO NOT USE MAYDAY TO REPORT THAT YOUR VESSEL IS OUT OF GAS, DISORIENTED, OR HAVING ENGINE TROUBLE UNLESS YOU ARE IN <u>IMMEDIATE DANGER</u>.

4. IF YOU HAVE A MEDICAL INCIDENT – PROVIDE TO THE BEST OF YOUR ABILITY:

- a. Name of vessel and/or call sign.
- b. Position.
- c. Patient's name and age.
- d. Nature of problem (symptoms, locations of pain or injury).
- e. Is patient conscious?
- f. Is patient ambulatory (able to walk)?
- g. What is the patient's temperature and pulse?
- h. Is the patient having difficulty breathing?
- i. Is patient bleeding? Is the bleeding controlled?
- j. How long has the patient been in pain?
- k. Previous similar episode (if yes, treatment and diagnosis).
- 1. Medicine taken and medicine available.
- m. Private physician's name and phone number.

5. <u>ROUTINE COMMUNICATIONS WITH THE U.S. COAST GUARD</u>

VHF-FM equipped vessels are encouraged use VHF-FM Channel 22A (157.1 MHz) for non-emergency communications with Coast Guard units. First call the desired Coast Guard unit on Channel 16 then shift to Channel 22A for routine communications.

NOTE: Modern VHF-FM radios now have VHF-FM Channel 22A; however, older models might not.

6. VISUAL DISTRESS SIGNALS (VDS)

Below is a pictorial plate showing the different types of VDS to use or respond to in case of emergency. Remember, no person in a boat shall display a VDS under any circumstances except a situation where assistance is needed because of immediate or potential danger to a person onboard.



7. EMERGENCY POSITION INDICATING RADIOBEACON (EPIRB)/PERSONAL LOCATER BEACON (PLB)

An EPIRB or PLB is a very useful piece of survival gear that has saved many lives in the Pacific. These beacons emits a radio signal used to locate mariners in distress. Satellites locate the position of the beacon which greatly increases a mariner's chances of survival. While orbiting the earth, the satellites continuously monitor for EPIRBs and PLBs. When the satellites receive an emergency signal, it determines the beacon's position that is ultimately relayed to the nearest Coast Guard Rescue Coordination Center where rescue units are dispatched to the scene.

NOTE: Mariners should ensure that their EPIRB/PLB is in working condition and stowed properly at all times to avoid non-distress emissions. **Mariners are required to register their 406 MHz EPIRBs and PLBs.Mariners shall ensure that EPIRB registration is current at all times.** Registration can be accomplished online at: https://www.406registration.com/ In case of accidental activation, contact Joint Rescue Coordination Center (JRCC) Seattle at (206) 220-7001, confirm that your vessel is not in distress and be ready to provide the beacon identification code (a series of letters and number that starts with ADCD or something similar).

8. JOINT RESCUE COORDINATION CENTERS (JRCC) IN THE NORTHWEST

<u>Locatio</u> n	Telephone No.	Manned By
Seattle, WA	(206) 220-7001	Coast Guard (US)
Victoria, B.C.	(250) 413-8933	Coast Guard (CAN)
Juneau, AK	(907) 463-2000	Coast Guard (US)

9. THIRTEENTH COAST GUARD DISTRICT SEARCH AND RESCUE STATIONS

A. THIRTEENTH COAST GUARD DISTRICT1. District Command Center - Seattle	(206) 220-7004
B. SECTOR PUGET SOUND	(206) 217-6002
 Station Seattle Station Bellingham (northern Puget Sound) Station Port Angeles (Strait of Juan de Fuca) Station Neah Bay (northern WA coast) Station Quillayute River (central WA coast) 	(206) 217-6750 (360) 734-1692 (360) 417-5990 (360) 645-2237 (360) 374-6469
C. SECTOR FIELD OFFICE PORT ANGELES	(360) 417-5840
 D. SECTOR COLUMBIA RIVER 1. Station Grays Harbor (southern WA coast) 2. Station Cape Disappointment (Columbia River) 3. Station Tillamook (northern OR coast) 4. Station Portland (inland Columbia River) 	(503) 861-6211 (360) 268-0121 (360) 642-2382 (503) 322-3531 (503) 240-9365
 E. SECTOR NORTH BEND 1. Station Depoe Bay (northern OR coast) 2. Station Yaquina Bay (central OR coast) 3. Station Siuslaw River (central OR coast) 4. Station Umpqua River (central OR coast) 5. Station Coos Bay (central OR coast) 6. Station Chetco River (southern OR coast) 	(541) 756-9220 (541) 765-2124 (541) 265-5381 (541) 997-3631 (541) 271-2138 (541) 888-3267 (541) 469-3885

<u>PROCEDURES AND SIGNALS BETWEEN AIRCRAFT AND SURFACE CRAFT FOR DIRECTING</u> <u>SURFACE CRAFT TO SCENE OF DISTRESS INCIDENT</u>

The following procedures performed in sequence by an aircraft mean that the aircraft is directing a surface craft toward the scene of a distress incident:

- 1. Circling the surface craft at least once.
- 2. Crossing the bow or projected course of the surface craft close ahead at low altitude, opening and closing the throttle, or changing the propeller pitch.
- 3. Heading in the direction in which the surface craft is to be directed. The surface craft should acknowledge the signal by changing course and following the aircraft. If it is impossible for the surface craft to follow, hoist the international code flag NOVEMBER, or use any other signaling means available to indicate so.

4. If you are radio equipped, you should attempt to communicate with the aircraft on VHF-FM Channel 16 (156.8 MHz) when the aircraft makes the above signals or makes any obvious attempt to attract your attention. In the event that you cannot communicate by radio, be alert for a message block dropped from the aircraft.

The following procedure performed by an aircraft means that the assistance of the surface craft is no longer required: Crossing the wake of the surface craft close astern at a low altitude opening and closing the throttle or changing the propeller pitch.

SEARCH AND RESCUE OPERATIONS

1. VESSELIDENTIFICATION

Coast Guard search-and-rescue aircraft and surface craft use radar to assist in locating disabled vessels. Wooden and fiberglass vessels are often poor radar targets. Operators of disabled craft that are the object of a search are requested to hoist, as high above the waterline as possible, a radar-reflecting device. If no special radar-reflecting device is aboard, an improvised device can be used. This should consist of metallic objects of irregular shape. The more irregular the shape, the better will be the radar-reflective quality. For quick identification at night, shine spotlights straight up. If aircraft are involved, once you are identified, turn lights away so as not to blind aircraft crew. <u>Never use a laser pointer.</u>

2. PREPARATIONS FOR TOWING

- a. All personnel put on personal flotation devices.
- b. Have bow cleared.
- c. If line-throwing gun is used, keep all personnel out of the way, until projectile clears boat.
- d. Have material (rags) handy for use as chafing gear on towline/bridle.
- e. Secure towline to a secure bitt or crucifix. Verify whether or not the fittings have backing plates.
- f. Remove heaving line.
- g. Make a drogue ready for use from your stern if your rudder cannot be controlled. Especially important when being towed in a followingsea.
- h. All persons remain topside, low and aft while under tow.
- i. If in doubt, request additional briefing by Coast Guard boat operator.

3. <u>HELICOPTER EVACUATION PROCEDURES</u>

The following procedures are prescribed by the Coast Guard during helicopter evacuation from a vessel. If you have a radio aboard, further instructions may be given by the helicopter on the voice distress frequency. As Captain or Boat Operator, each person on board is under your care and although the Coast Guard, doctors, and other agencies may assist you, each person is your responsibility. Helicopter evacuation is a hazardous operation to the patient and the helo crew, and should only be attempted in event of very serious illness or injury. Provide the doctor with all the information you can concerning the patient so an intelligent evaluation can be made concerning the need for evacuation. Today's helicopters CAN ONLY PROCEED UP TO 120 TO 200 MILES off-shore for a pickup, and then only if weather conditions permit. Moreover, they have limited time to conduct the evacuation before fuel constraints require the helicopter to return to base. Therefore, if you have a victim on board and believe that an evacuation may be necessary, find a safe course and make best speed towards the closest Coast Guard air station. Coast Guard air stations in the Pacific Northwest are at the following locations:

- Port Angeles, Washington
- Warrenton, Oregon
- Newport, Oregon
- North Bend, Oregon

a. <u>WHEN REQUESTING HELICOPTER ASSISTANCE</u>

- (1) Give accurate position, time, speed, course, weather conditions, sea conditions, wind direction and velocity, type of vessel, and radio frequencies.
- (2) If not already provided, give COMPLETE medical information including whether or not patient is ambulatory (able to walk).
- (3) If you are beyond helicopter range, advise your intentions so that a rendezvous point may be selected.
- (4) If there are any changes in any plans or information, advise immediately. Should the patient expire prior to arrival of the helicopter, let the Coast Guard know.

b. PREPARATIONS PRIOR TO ARRIVAL OF HELICOPTER

- (1) Provide continuous radio guard on VHF-FM channel 16 or specified voice frequency if possible.
- (2) Select and clear most suitable hoist area. This must include securing of loose gear, awnings and antenna wires. Lash up or stow running rigging and booms. The stern is highly preferred for the hoist area. The foredeck should be prepared only when the stern or amidships cannot possibly be used.
- (3) If the hoist is at night, light the pickup areas as well as possible. Be sure you DO NOT SHINE ANY LIGHTS on the helicopter that might blind the pilot and crew. If there are obstructions in the vicinity, put a light on them so the pilot will be aware of their positions.
- (4) Identify the location of pickup area BEFORE the helicopter arrives so the pilot may adjust for and make the approach aft, amidships, or forward as required.
- (5) Remember, there will be a high noise level under the helicopter, so voice communication is almost impossible. Arrange a set of hand signals among the crew who will assist.

c. <u>HOIST OPERATIONS</u>

- (1) If possible, have patient moved to, or as close to, the hoist area as his condition permits THIS IS IMPORTANT.
- (2) Normally, if a litter is required, it will be necessary to move the patient to the special litter that will be lowered by the helicopter. Be prepared to do this as quickly as possible. Ensure the patient is strapped in, face up. If patient's condition permits, ensure that s/he is wearing a lifejacket. Be sure patient is tagged to indicate what and when medication, if any, was given.
- (3) Change course to permit the ship to ride as easily as possible with the wind on the bow, preferably on the port bow. Try to choose a course to keep engine exhausts clear of hoist area.
- (4) Reduce speed to ease ship's motion but maintain steerageway.
- (5) If you do not have radio contact with helicopter, when you are in all respects ready for the hoist, signal the helicopter in with a "COME ON" by hand, or use flashlight at night.
- (6) ALLOW BASKET OR STRETCHER TO TOUCH DECK PRIOR TO HANDLING TO AVOID STATIC SHOCK.
- (7) If a trail line is dropped by the helicopter, guide basket or stretcher to the deck; keep line clear at all times. The line will not cause a shock.
- (8) Place patient in basket sitting with hands clear of sides, or in the litter, as described above. Signal helicopter hoist operator when ready for hoist. Patient nods head if he is able. DECK PERSONNEL GIVE THUMBS UP.
- (9) If necessary to take litter away from hoist point unhook hoist cable and keep free for helicopter to haul in. DO NOT SECURE CABLE TO VESSEL OR ATTEMPT TO MOVE STRETCHER WITHOUT UNHOOKING.
- (10) When patient is strapped in stretcher, signal helicopter to lower cable, and signal hoist operator when ready to hoist. Steady stretcher to prevent swinging or turning.
- (11) If trail line is attached to basket or stretcher use to steady (keep feet clear of line).

4. UNMANNED/ADRIFT PADDLECRAFT, STANDUP PADDLEBOARDs and SAILING VESSELS

Unmanned and Adrift Paddlecraft, Standup Paddleboard and Sailing vessels, which were not properly stowed are a large nuisance to the Search and Rescue System. Coast Guard crews treat every unmanned-adrift vessel as a search and rescue case and immediately launch a search for potential mariners in distress.

Every unmanned-adrift vessel is treated as a potential distress situation, which takes up valuable time, resources and manpower. When the craft is properly labeled, the situation can often be quickly resolved with a phone call to the vessel owner, which minimizes personnel fatigue and negative impacts on crew readiness.

Helicopter and boat crews individually search an average of two hours per response and a similar amount of time is spent by other government agency personnel. Additionally, Coast Guard command center and 911 center personnel spend an additional four hours investigating the incident.

Coast Guard officials encourage all paddle craft owners to label their vessels using a permanent or waterproof marker covered with clear, waterproof tape for increased durability. You can also check with a local outdoor recreation retailer or <u>Coast Guard Auxiliary Flotilla</u> to obtain a <u>Paddle Smart Identification Sticker</u>. At the very least, the label should include the name of the vessel's owner, a number to reach them and a secondary point of contact.

In the event that the vessel is adrift, crews can use that information to contact the owner and avoid launching an unnecessary search. If the owner of a vessel is unable to be located after a reasonable amount of time, Coast Guard crews are forced to destroy the vessel or turn it over to the state for disposal.

Mariners who encounter unmanned-adrift vessels or other hazards to navigation are encouraged to contact the Coast Guard 13th District Command Center at 206-220-7001 or via VHF-FM Channel 16.

THIRTEENTH COAST GUARD DISTRICT - NON-EMERGENCY ASSISTANCE POLICY

Boaters who find themselves in need of assistance in non-emergency situations will receive help from the Coast Guard by either obtaining commercial assistance or directing other resources (including Coast Guard and Coast Guard Auxiliary resources) to the scene. This policy addresses the needs of boaters in non-life-threatening situations and is designed not to interfere with the rights of the commercial towing/assistance industry. The policy provides that:

- 1. In any situation in which the mariner is in immediate distress, <u>an immediate response will be initiated</u>. The Coast Guard, the Coast Guard Auxiliary, or state, local, commercial, or private resources may provide this response.
- 2. If neither the mariner nor the vessel is in immediate distress and no commercial companies are known to be available in the area, a Coast Guard resource will be dispatched.
- 3. If commercial towing companies operate in the area, the Coast Guard will assist the mariner in contacting any specifically requested alternate assistance. If none is requested, an offer to issue a Marine Assistance Request Broadcast (MARB) will be made. This broadcast will help to determine if someone in the area can come to the assistance of the mariner.
- 4. If an acceptable response (capable of safely accomplishing the mission in a reasonable time) is received to the MARB, the Search and Rescue Mission Coordinator (SMC) shall ascertain the expected time of arrival (ETA) on scene and advise the mariner. The SMC shall continue to monitor the situation until it reaches a successful conclusion. A reasonable response time, from initial notification to time on scene, is considered one hour or less. In situations where the response time will exceed one hour, a Coast Guard Auxiliary resource will be dispatched if it can provide a more timely response.
- 5. If no response to the MARB is received within 10 minutes, the SMC will select and proceed with the course of action (listed below) that will result in the most effective and timely response to the mariner.
 - a. Dispatch an Auxiliary resource.
 - b. Issue another MARB.
 - c. Make a telephone call to any resource (including commercial providers) that may be able to provide a timely response.
 - d. Dispatch a Coast Guardresource.
- 6. The mariner may decline the assistance offered, and the Coast Guard may make additional MARBs, but if the first assisting resource on scene is a commercial provider, only one additional MARB will be made. A list of telephone numbers for commercial providers in the area will be given to the mariner, upon request, so that they may contact alternate responders through the marine operator. A Coast Guard resource will not be dispatched unless the situation deteriorates into an emergency.
- 7. Once a vessel is taken in tow by a Coast Guard or Coast Guard Auxiliary vessel, it will not be turned over to another resource unless all parties agree that the transfer can be accomplished safely or, a more urgent situation requires the use of the Coast Guard vessel. A tow will normally be conducted to the nearest safe-haven. The Coast Guard reminds boaters that under the non-emergency policy, the operator of a vessel needing assistance will have to pay for commercial services. To help reduce the need for assistance, mariners are advised to ensure that all safety equipment is on board, the vessel is in good operating condition, sufficient fuel and necessary charts are onboard, the radio is operating properly, and someone knows the sailing plan of the operator and will notify the Coast Guard if the vessel fails to return when expected. Questions concerning this notice should be directed to the Thirteenth Coast Guard District, Response Branch at (206) 220-7002.

SHIP ABANDONMENT AND HYPOTHERMIA

If you are forced to abandon ship, your chances of rescue are increased if you have a pre-planned survival procedure and follow it. Records reveal that even the quickest ship sinking usually require 15 to 30 minutes for the vessel to fully submerge. This affords valuable time for preparation. Here are some pointers for you to remember in a situation of this type:

- 1. Don as much warm, preferably non-cotton based, clothing as possible, covering head, neck, hands, and feet.
- 2. If an immersion (exposure) suit is available put it on over warm clothing.
- 3. If the immersion suit does not have inherent flotation, put on a lifejacket.
- 4. All persons who know that they are likely to be affected by seasickness should, before or immediately after boarding the survival craft, take the recommended dose of some recommended preventative tablets or medicine. The incapacitation caused by seasickness interferes with your survival chances; the vomiting removes precious body fluid while seasickness in general makes you more prone to hypothermia.
- 5. Avoid entering the water if possible. Board davit-launched survival craft on the embarkation deck. If davitlaunched survival craft are not available, use ladders, or, if necessary, lower yourself by means of a rope or fire hose.
- 6. Unless it is unavoidable, do not jump from higher than 5 meters (16.4 feet) into the water. Try to minimize the shock of sudden cold immersion. Rather than jumping into the cold water, try to lower yourself gradually. A sudden plunge into the cold water can cause death or an uncontrollable rise in breathing rate may result in an intake of water into the lungs. On occasions it may be necessary to jump into the water, you should keep your elbows at your sides, cover your nose and mouth with one hand holding the wrist or elbow firmly with the other hand. One should not jump into the water astern of a life raft because the ship might be moving through the water.
- 7. Once in the water, orient yourself and try to locate the ship, lifeboats, life rafts, other survivors or other floating objects. If you were unable to prepare yourself before entering the water, button up clothing now. In cold water you may experience violent shivering and great pain. These are natural body reflexes that are not dangerous. Take action as quickly as possible before you lose full use of your hands: button up clothing, turn on signal lights, locate whistle, etc.
- 8. While afloat in the water, do not attempt to swim unless it is to reach a nearby craft, a fellow survivor, or a floating object on which you can lean or climb on to. Unnecessary swimming will "pump" out any warm water between your body and the layers of clothing, thereby increasing the rate of the body-heat loss. In addition, unnecessary movements of your arms and legs send warm blood from the inner core to the outer layer of the body. This results in a very rapid heat loss. Hence, it is most important to remain as still as possible in the water, no matter how painful it may be. Remember, pain will not kill you, but heat loss will.

Water Temperature	Exhaustion or	Expected Time of	
(° F)	Unconsciousness	Survival	
32.5	Under 15 min.	Under 15 to 45 min	
32.5 to 40	15 to 30 min.	30 to 90 min.	
40 to 50	30 to 60 min.	1 to 3 hrs.	
50 to 60	1 to 2 hrs.	1 to 6 hrs.	
60 to 70	2 to 7 hrs.	2 to 40 hrs.	
70 to 80	2 to 12 hrs.	3 hrs. to indefinite	
Over 80	Indefinite	Indefinite	

HOW HYPOTHERMIA AFFECTS MOST ADULTS

- 9. Try to conserve body heat. Float as still as possible with your legs together, elbows close to your side and arms folded across the front of your lifejacket, minimizing the exposure of the body surface to the cold water. Try to keep your head and neck out of the water. Another technique is to huddle closely to one or more persons afloat, making as much body contact as possible. You must be wearing a life vest to be able to hold these positions in the water.
- 10. Try to board a lifeboat, raft, or other floating platform or object as soon as possible in order to shorten your immersion time. Remember, you lose body heat many times faster in water than in air. Since the effectiveness of your insulation is seriously reduced by water soaking, you must now try to shield yourself from wind to avoid a wind-chill effect (convective cooling).
- 11. Do not use "drown proofing" in cold water. "Drown proofing" is a technique whereby you relax in the water and allow your head to submerge between breaths. It is an energy saving procedure to use in warm water when you are not wearing a life vest. However, the head and neck are high heat loss areas and must be kept above water. That is why it is more important to wear a life vest in cold water. If you are not wearing a vest, tread water only as much as necessary to keep your head out of the water.

Keep a positive attitude about your survival and rescue. This will improve your chances of extending your survival time until rescue comes.

CHAPTER II

GUIDE TO HAZARDOUS BARS



REGULATED NAVIGATION AREAS (RNA); BARS ALONG THE COASTS OF OREGON AND WASHINGTON

Each of the following areas is a regulated navigation area in accordance with 33 USC 165.1325: Quillayute River Entrance, Wash, Grays Harbor Entrance, Wash, Willapa Bay, Wash, Columbia River Bar, Wash.-Oregon, Nehalem River Bar, Oregon, Tillamook Bay Bar, Oregon, Netarts Bay Bar, Oregon, Siletz Bay Bar, Oregon, Depoe Bay Bar, Oregon, Yaquina Bay Bar, Oregon, Siuslaw River Bar, Oregon, Umpqua River Bar, Oregon, Coos Bay Bar, Oregon, Coquille River Bar, Oregon, Rogue River Bar, Oregon, Chetco River Bar, Oregon.

Passage across the bars located in regulated navigation areas will be restricted for recreational and uninspected passenger vessels as determined by the Captain of the Port (COTP) or their designated representative. In making this determination, the COTP or their designated representative will determine whether an unsafe condition exists. Additionally, the COTP or their designated representative will use their professional maritime experience and knowledge of local environmental conditions in making their determination. Factors that will be considered include, but are not limited to: size and type of vessel, sea state, winds, wave period, and tidal currents. When a bar is restricted, the operation of recreational and uninspected passenger vessels in the regulated navigation area is prohibited unless specifically authorized by the COTP or his designated representative.

The bars located in the regulated navigation areas will be closed to all vessels whenever environmental conditions exceed the operational limitations of the relevant Coast Guard search and rescue resources as determined by the COTP. When a bar is closed, the operation of any vessel in the regulated navigation area is prohibited unless specifically authorized by the COTP or his designated representative. The Coast Guard will notify the public of bar restrictions and bar closures via a Broadcast Notice to Mariners on VHF–FM Channel 16 and 22A. Additionally, Coast Guard personnel may be on-scene to advise the public of any bar restrictions and/or closures. Regulated

Navigation Area Warning Signs are diamond-shaped white warning day markers with orange reflective border and the words "ROUGH BAR" in black letters. Generally, two alternating quick flashing yellow lights are energized when there is a restriction for recreational and/or uninspected commercial passenger vessels. Lights are usually extinguished during lesser sea conditions, but this is no guarantee that the bar is safe. Regulated Navigation Area Warning Signs are located at: CHETCO RIVER, ROGUE RIVER (when staffed), COQUILLE RIVER (when staffed), COOS BAY, UMPQUA RIVER, SIUSLAW RIVER, YAQUINA BAY, DEPOE BAY, TILLAMOOK BAY, GRAYS HARBOR, and QUILLAYUTE RIVER.

The operator of any recreational vessel operating in a regulated navigation area shall ensure that whenever their vessel is being towed or escorted across a bar by the Coast Guard all persons located in any unenclosed areas of their vessel are wearing lifejackets and that lifejackets are readily accessible for/to all persons located in any enclosed areas of their vessel.

Operators of commercial fishing vessels should be aware that this regulation imposes reporting requirements on commercial vessels even if a bar restriction does not prohibit the operator to cross the bar. All mariners operating in a Regulated Navigation Area should be familiar with the requirements of 33 CFR 165.1325.

COASTAL BAR CONDITIONS AND RESTRICTION REPORTING

A system of notification to mariners has been developed to provide tools to assist boaters in making risk based decisions when evaluating their ability to cross the bar. Boaters should seek out several forms of information to make these decisions to safely evaluate weather and sea conditions for their specific size and type of vessel as well as their individual abilities as an operator. Things such as knowing the state of the tide and its effect, knowing the current forecasted weather and sea conditions as well as knowing how all those forces affect the local conditions.

The U.S. Coast Guard and the National Weather service have teamed up to provide the most up to date forecasts information and sea condition observations for coastal bar conditions along the Oregon and Washington coast. Each port provides a local area radio broadcast on 1610AM that gives the current observed bar conditions and any restrictions that may be in place. This information can also be obtained by phone, dialing the port specific number found further in this section. Internet viewing of conditions and restrictions, including bar camera images, can be found at: https://www.weather.gov/pqr/barcams. For current bar conditions go to: https://www.wrh.noaa.gov/pqr/barcams. For current bar conditions are updated every four hours or when conditions change.

The Coast Guard and NOAA provide this information to assist mariners in making sound decisions for navigating safely but the safe navigation is the responsibility of the vessel operator. The bar restrictions and conditions information provided will be updated every four hours or when local conditions change. The information provided only reflects conditions at the time the bar was observed and may not reflect current conditions and bar conditions are subject to change without notice. These reports should NOT be used as the sole source of information when making a decision to cross the bar. Mariners are advised to use all means available to safely evaluate bar conditions and risk before crossing the bar.

COASTAL SEA SURFACE CONDITIONS

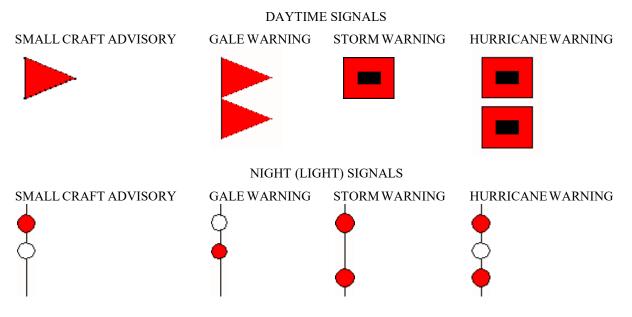
Tides (changes in water level) are caused mainly by the gravitational pull of the sun and moon. There are roughly two tides daily in the Pacific Northwest. A flood tide is the tidal movement of water towards shore, and an ebb tide is the movement away from shore or downstream. Slack water is when there is no tidal movement. Tidal Current is the flow of water. In Washington and Oregon saltwater tidal currents can obtain considerable velocities, especially when the ebbing tide is reinforced by river runoff.

COASTAL BARS

The most dangerous condition occurs when swift ebb current meets heavy seas rolling in from the Pacific Ocean at a shallow river entrance (called a bar). At these coastal bars the water "piles up" and then "breaks". Even on calm days a swift ebb tide may create a bar condition that is too rough for small craft (any vessel under 65 feet). It is safest to transit from harbor to ocean only on slack water, flood tides, or when the sea state is calm. If you are inside the bar when rough conditions exist, remain inside! If you are trapped outside a rough bar on an ebb current, wait a few hours until the tide floods. In addition, waves build up at shallow areas such as sand spits and shoals. These areas are dangerous and should be avoided at all times. In a bar area, sea conditions can change rapidly and

without warning. Always cross with caution! Bar guides for the various rivers and bays of the Pacific Northwest are contained in this chapter. The charts of the Oregon coastal bars are provided courtesy of the Oregon Marine Board. They have many useful publications that can be downloaded from <u>https://www.pacificarea.uscg.mil/Our-Organization/District-13/District-Staff/-dpw/</u>.

COAST WEATHER WARNING DISPLAYS



EXPLANATION OF WARNING DISPLAYS

- 1. Small Craft Advisory: To alert mariners to sustained (more than two hours) weather or sea conditions, either present or forecast, that might be hazardous to small boats. Mariners learning of a Small Craft Advisory are urged to determine immediately the reason by tuning their radios to the latest marine broadcasts. The decision as to the degree of hazard is left up to the mariner, based on his/her experience, and size and type of boat. The threshold conditions for the Small Craft Advisory are usually 18 knots of wind (less than 18 knots in some dangerous waters) or hazardous wave conditions.
- 2. Gale Warning: To indicate winds within the range of 34 to 47 knots are forecast for the area.
- 3. Storm Warning: To indicate winds 48 knots and above are forecast for the area. However, if the winds are associated with a tropical cyclone (hurricane) the Storm warning display indicates that winds 64 knots and above are forecast for the area.
- 4. Hurricane Warning: Issued only in connection with a tropical cyclone (hurricane) to indicate that winds 64 knots and above are forecast for the area.

NOTE: A "HURRICANE WATCH" is an announcement issued by the NWS via press, and radio and television broadcasts whenever a tropical storm or hurricane becomes a threat to a coastal area. The "Hurricane Watch" announcement is not a warning, rather it indicates that the hurricane is near enough that everyone in the area covered by the "Watch" should listen to their radios for subsequent advisories and be ready to take precautionary action in case "Hurricane Warnings" are issued. A SPECIAL MARINE WARNING BULLETIN is issued whenever a severe local storm or strong wind of brief duration is imminent and is not covered by existing warnings or advisories. Boaters will be able to receive these special warnings by keeping tuned to a NOAA or Coast Guard VHF-FM radio frequency and commercial radio stations that transmit marine weather information.

OREGON AND WASHINGTON - COASTAL WARNING DISPLAYS

The 0.5. Coast Guard continues to maintain Coastar warning Displays at the following locations.				
Station	Latitude	Longitude	Type of Display	
Chetco River Station, OR	42°02.7'N	124°16.1'W	Daytime only	
*Rogue River Patrol, OR	42°25.6'N	124°25.3'W	Daytime only	
*Coquille River Patrol, OR	43°07.2'N	124°25.0'W	Daytime only	
Coos Bay Station, OR	43°20.4'N	124°19.4'W	Daytime only	
Coos Head Lookout, OR	43°21.1'N	124°20.1'W	Daytime only	
Umpqua River Lookout, OR	43°40.0'N	124°12.2'W	Daytime only	
Umpqua River-Winchester Bay, OR	43°40.8'N	124°10.6'W	Daytime only	
Siuslaw River Station, OR	44°00.1'N	124°07.3'W	Daytime only	
Yaquina Bay Station, OR	44°37.6'N	124°03.3'W	Daytime only	
Depoe Bay Station, OR	44°48.6'N	124°03.5'W	Daytime only	
Tillamook Bay Station, OR	45°33.2'N	123°54.8'W	Daytime only	
Cape Disappointment, WA	46°16.7'N	124°02.8'W	Daytime only	
Westport, WA	46°54.3'N	124°07.2'W	Daytime only	
Quillayute River, WA	47°54.4'N	124°38.0'W	Daytime only	
Neah Bay Station, WA	48°22.3'N	124°35.8'W	Day & Night	
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The U.S. Coast Guard continues to maintain Coastal Warning Displays at the following locations:

* Operational from approximately Memorial Day through Labor Day only

JETTIES

In general, jetties continue seaward for several yards past the visible end. At all times AVOID CROSSING OVER A SUBMERGED JETTY. Navigate with extreme caution near jetties particularly when wind and sea are setting you toward the jetty.

RANGE MARKERS (See Chartlets for location)

Front and rear range markers are rectangular-shaped dayboards are either red, green, black, or white, with a contrasting colored center strip. (Most range markers are KRB, red with a black center stripe). For nighttime use most range markers are lighted. By steering a course which keeps the two range markers or their lights in line with one another, the mariner will remain within the approximate channel. Because entrance channels are constantly shifting, the range markers do not always mark best water. The mariner, however, will remain in the approximate channel by steering a course that keeps these range markers in line. For the most up to date information on the location, characteristics and operating condition of range markers and all federal aids to navigation, the prudent mariner should always consult the most recent edition of the Coast Guard Light List, Volume VI, as well as the Local Notice to Mariners and listen to Broadcast Notice to Mariners.

SEASONAL AIDS TO NAVIGATION

Due to severe weather conditions and reduced vessel traffic during the winter, numerous aids to navigation (i.e. lights, buoys, fog signals) are seasonally discontinued, withdrawn, or replaced by smaller aids. These changes occur at regular intervals each year. The approximate dates are contained in the most recent edition of the Light List, Volume VI, Pacific Coast and Pacific Islands, and on nautical charts produced by National Ocean Service. The actual dates may be changed due to adverse weather or other conditions. Mariners should consult the Coast Guard's Local Notice to Mariners and listen to Broadcast Notice to Mariners for the dates that seasonal changes take place.

CHETCO RIVER BAR INFORMATION

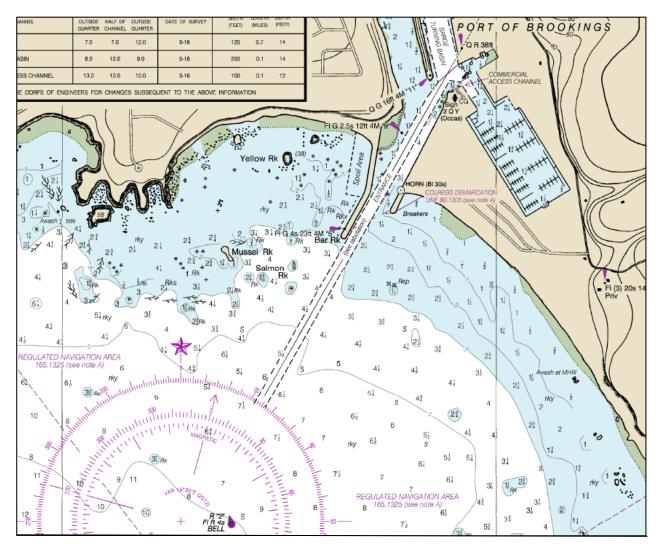
DANGER AREAS

A. <u>WEST JETTY ROCKY AREA</u>: This is dangerous because of many rocks and shoaling. At high tide the rocks are covered by water and the area appears to be navigable, but is extremely dangerous. Avoid this area at all times.

B. <u>EAST AND WEST JETTY SHOAL AREAS</u>: These areas are extremely dangerous at all times because of submerged rocks and breakers. Rocks in these areas may be seen at low tide. Avoid these areas at all times.

<u>REGULATED NAVIGATION AREA WARNING (ROUGH BAR) SIGN</u>: At Chetco River the sign is located on the north corner of the Coast Guard station property. If the yellow lights on this sign are flashing, a restriction has been placed on recreational and uninspected passenger vessels crossing the bar.

<u>BAR CONDITION REPORTS</u>: For recorded bar condition and weather reports call Chetco River Coast Guard Station at (541) 469-4571. Additionally, within a three mile radius from the Coast Guard station a continual broadcast is on radio station 1610 AM containing bar conditions, bar restrictions, and local weather. Additional warning signs are located at the entrance to the boat ramp that when the amber lights are flashing you are directed to listen to 1610 AM for more information on the restriction. Bar conditions are also broadcast by radio station KURY (910 kHz) every hour during the summer daylight hours.



ROGUE RIVER INFORMATION

DANGER AREAS

A. <u>SHOAL WATER, SOUTH SIDE</u>: Alongside the south side of the Rogue River Channel are shoal water and gravel bars. This shoal often creates breaking waves when a swell is running. Many boats fishing inside the river, trolling between the jetties, find themselves set into this dangerous area by northwest winds. If a vessel breaks down in the channel and is not anchored, the northwest wind and ebb tide will set it into this dangerous area in a matter of minutes.

B. <u>OUTER END, NORTH JETTY</u>: Breakers are almost always present here because of shoal water. When the sea is running from the west or southwest, it is particularly dangerous.

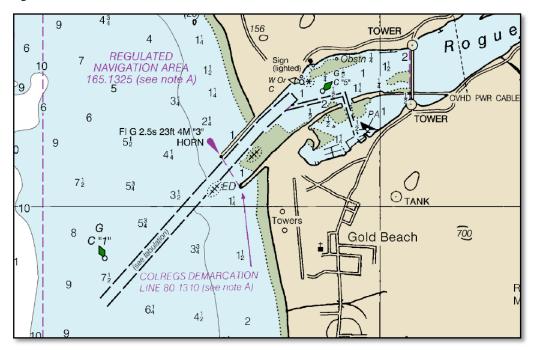
C. <u>OUTER END, SOUTH JETTY</u>: Breakers are almost always present. Even when it appears calm, there may be occasional breakers 1,000 feet outside the south jetty. When the sea is running from the west or southwest, this area is very dangerous.

<u>FISHING INSIDE THE CHANNEL</u>: During recent years, small boats, which do not usually go out into the ocean, fish just inside the bar and troll in an area between the north and south jetties. Frequently there are a great number of boats in this small area and they tend to crowd each other. Because trolling is the most common method of fishing, lines can get accidentally caught in boat propellers. Should this happen, the disabled boat should immediately anchor and/or call for aid. A northwest wind or ebb tide can set a boat into a dangerous area within a matter of minutes.

<u>ROGUE RIVER CHANNEL</u>: The Rogue River channel lies between the jetty tips towards the north jetty. As of February 2003, the entrance channel depths were 6, 12, and 2 feet for the left outside quarter, mid-channel, and right outside quarter respectively. The entrance channel extends from the ocean to the inner end of the north jetty. Boaters are urged to use and stay within this channel. The river entrance is subject to frequent shoaling and depth changes. Consult the Army Corps of Engineers channel reports for the latest depths.

<u>REGULATED NAVIGATION AREA WARNING (ROUGH BAR) SIGN</u>: There is a Regulated Navigation Area Warning Sign when the seasonal Coast Guard Station is manned. It is located on Doyle Point at the Rogue River Station Patrol on the north jetty. If the yellow lights on this sign are flashing, a restriction has been placed on recreational and uninspected passenger vessels crossing the bar.

<u>BAR CONDITION REPORTS</u>: The Rogue River Coast Guard Station is activated and operational only when the boating activity is significant enough to warrant the patrol. For bar conditions call Chetco River Coast Guard Station at (541) 469-3885, or Rogue River Station at (541) 247-7219 (when seasonally open). Additionally, within a three mile radius from the Coast Guard station a continual broadcast is on radio station 1610 AM containing bar conditions, bar restrictions and local weather.



COOUILLE RIVER BAR INFORMATION

DANGER AREAS

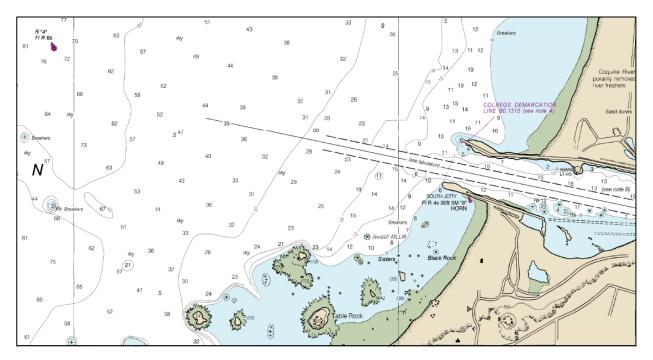
A. <u>SOUTH JETTY</u>: It is always dangerous to get too close to the end of a jetty. An unexpected breaker could carry a small boat onto the end of the jetty with great force. The inside of the south jetty is dangerous, and boaters should remain clear. The prevailing northwest wind could set a powerless boat onto the jetty.

B. <u>NORTH JETTY</u>: Stay clear of the end of this jetty, because the sea breaks almost continuously in this area. A shallow area with partially submerged rocks extends from the abandoned lighthouse to the end of the jetty. Large swells that occur in this area could put a boat onto these rocks.

C. <u>SOUTH SIDE OF COQUILLE RIVER ENTRANCE</u>: The area to the south of the entrance can be very dangerous. There are several rocks just below the surface that cannot be seen except during heavy seas. There is a prevailing northwest wind during the summer months, and the sea currents run to the south. These two conditions could combine to send a powerless boat into this area and onto the rocks.

<u>REGULATED NAVIGATION AREA WARNING (ROUGH BAR) SIGN</u>: There is a Regulated Navigation Area Warning Sign when the seasonal Coast Guard Station is manned. If the yellow lights on this sign are flashing, a restriction has been placed on recreational and uninspected passenger vessels crossing the bar.

<u>BAR CONDITION REPORTS</u>: Call the Coos Bay Coast Guard Station at (541) 888-3266, additionally, within a three mile radius from the Coast Guard station a continual broadcast is on radio station 1610 AM containing bar conditions, bar restrictions, and local weather. The Coast Guard Station on the Coquille River is activated and operational when the boating activity is significant enough to warrant the patrol, usually Memorial Day through Labor Day, and can be contacted at (541) 347-2038.



COOS BAY BAR INFORMATION

DANGER AREAS

A. <u>SAND SPIT, SOUTH SLOUGH</u>: As you leave the Charleston Boat Basin, the South Slough Sand Spit is on your left. It extends north and parallel to the channel from South Slough Buoy 6 approximately 450 yards towards South Slough Light 4. South Slough Lighted Buoy 2 marks the north end of the sand spit. DO NOT CROSS THIS AREA.

B. <u>SUBMERGED JETTY</u>: When you proceed out from the Charleston Boat Basin in the South Slough channel, and are directly between South Slough Light 4 and South Slough Buoy 5, directly ahead will be South Slough Light 1, which marks the end of the submerged jetty. This jetty is visible only at low water. When departing the Charleston Boat Basin, stay to the left of Light 1 at all times.

C. <u>SAND SPIT, NORTH BEACH</u>: This area is dangerous because of shoal waters and submerged jetties. Occasionally, on strong ebb, there will be breakers in this area. Avoid this area because of the possibility of going aground or striking submerged jetties and pilings. Note, too, that inbound and outbound tugs with tows, freighters, and so forth, pass close aboard the area and cannot stop for obstructions in the channel – including small vessels.

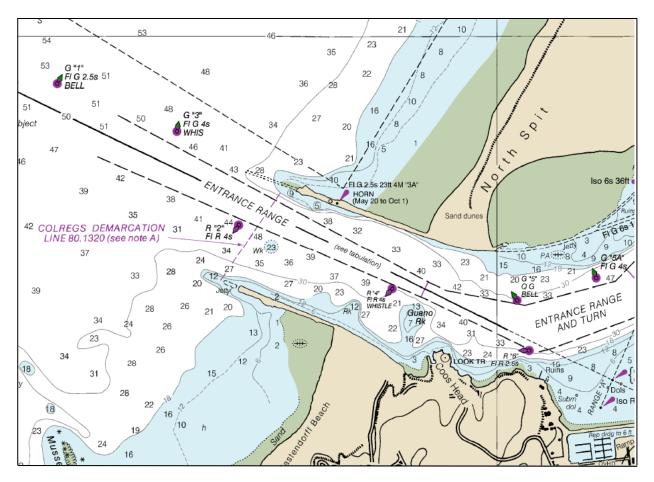
D. <u>SOUTH JETTY, GUANO ROCK AREA</u>: This is a very dangerous area because of shoals extending out from the south jetty to the entrance channel. Breakers are frequently experienced from Guano Rock Lighted Whistle Buoy 4 extending out to just past the end of the South Jetty. Exercise extreme care in this area at all times, especially on ebb tides.

E. <u>NORTH JETTY, SUBMERGED</u>: The North Jetty extends approximately 200 yards to the West. The outward end of the jetty is submerged from the visible end of the jetty out towards Coos Bay North Jetty Lighted Gong Buoy
3. NEVER CROSS THIS AREA. There are breakers in this area most of the time. When departing the bar northbound, be sure to pass Coos Bay North Jetty Lighted Gong Buoy 3 before turning to the north.

F. <u>AREA NORTH OF COOS BAY CHANNEL LIGHTED BUOY 5</u>: This area can be very dangerous when there are any large swells on the bar or during ebb tide. Freak breakers are common in this area. While vessels transit this area on occasion, it is strongly recommended that you never cross here.

<u>REGULATED NAVIGATION AREA WARNING (ROUGH BAR) SIGN</u>: The Coast Guard has established a Regulated Navigation Area Warning Sign 8 feet above the water on the jetty just north of the Charleston Boat Basin. This is a two-part sign, facing toward the Charleston Boat Basin and toward South Slough Light 2. If the yellow lights on this sign are flashing, a restriction has been placed on recreational and uninspected passenger vessels crossing the bar.

<u>BAR CONDITION REPORTS</u>: Weather and bar conditions are updated every three hours or more frequently if there is a significant change in weather at the Coast Guard Station in Coos Bay. This recording can be obtained by calling (541) 888-3102. Additionally, within a three mile radius from the Coast Guard station a continual broadcast is on radio station 1610 AM containing bar conditions, bar restrictions, and local weather. Additional warning signs are located at the entrance to the Charleston and Empire boat ramps that when the amber lights are flashing you are directed to listen to 1610 AM for more information on the restriction. Radio Station KBBR (1330 kHz) broadcasts bar conditions once each hour during the summer months. Current weather advisories are also posted at the Coast Guard Station in Charleston.



UMPOUA RIVER BAR INFORMATION

DANGER AREAS

A. <u>MIDDLE GROUND AND NORTH SPIT</u>: The North Spit is to your right as you proceed down the Umpqua River, starting from the first rock spar jetty and long pier on the east side of the channel. The North Spit area has small breakers when a swell is running, and gets rougher toward the north jetty. The north spit is very dangerous because large breakers may come into this area from the middle ground. The north spit meets the middle ground at the outer end of the training jetty. The middle ground area extends from the north jetty to the north edge of the main channel and is dangerous because a little swell can create large breakers which can capsize a vessel. Boaters should not linger near the mouth of the river during ebb tide, because if their power fails, their boats could be carried out to sea before an anchor would be effective or oars could be put to work.

B. <u>NORTH AND SOUTH JETTY</u>: The areas north of the north jetty and south of the south jetty can be very dangerous. Whenever breakers are observed, boaters should avoid this area.

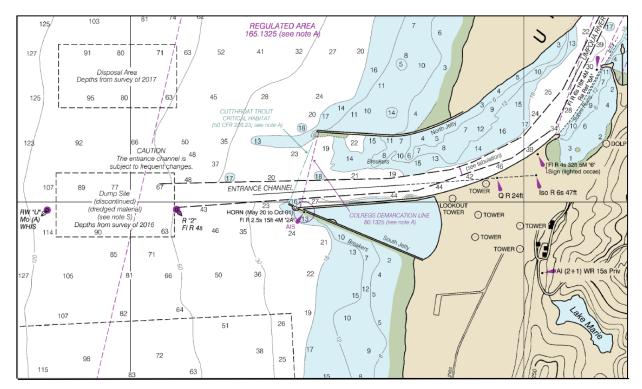
C. <u>TRAINING JETTY</u>: On the ebb tide, the current will pull boats into the jetty. Refraction waves are often encountered in this area, creating extremely choppy conditions.

D. <u>UMPQUA RIVER LIGHT 6A, OLD COAST GUARD DOCKS</u>: Current on either the ebb or flood will often set boats into this area.

<u>REGULATED NAVIGATION AREA WARNING (ROUGH BAR) SIGN</u>: The Coast Guard has established a Regulated Navigation Area Warning Sign out towards light #6 and has two rough bar warning signs located at both boat ramps in Winchester bay. If the yellow lights on this sign are flashing, a restriction has been placed on recreational and uninspected passenger vessels crossing the bar.

<u>BAR CONDITION REPORTS</u>: Bar condition reports for Umpqua River are given hourly (daylight hours only) or as conditions change, during summer months by station personnel and recordings are available by calling (541) 271-4244. Bar information can also be obtained by contacting Coast Guard Station Umpqua River via radio, VHF-FM Channel 16/22A. Additionally, within a three mile radius from the Coast Guard station a continual broadcast is on radio station 1610 AM containing bar conditions, bar restrictions, and local weather. Additional warning signs are located at the entrance to the boat ramps that when the amber lights are flashing you are directed to listen to 1610 AM for more information on therestriction.

NOTE: Breaking waves can be encountered on the Umpqua River bar at any time. **NOTE**: Entrance range may not mark best water.



SIUSLAW RIVER BAR INFORMATION

DANGER AREAS

A. <u>SHOAL WATER, NORTHEAST SIDE OF CHANNEL</u>: Has a depth of 2 to 3 feet at high tide and extends from Siuslaw River Channel Buoy 7 to Siuslaw River Channel Light 9 and on to Siuslaw River Channel Buoy 11.

B. <u>SHOAL WATER, SOUTH SIDE OF CHANNEL</u>: Extends from Siuslaw River Channel Buoy 6 to Siuslaw River Channel Buoy 4 and approximately 50 yards out toward the south jetty tips.

C. <u>OUTER END OF SOUTH JETTY</u>: Breakers are almost always present in this area. When the seas are from the southwest or west, breakers may extend to the entrance buoy, Siuslaw River Approach Lighted Whistle Buoy S.

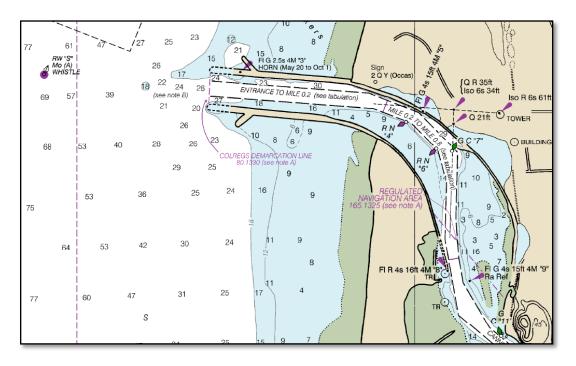
D. <u>OUTER END OF NORTH JETTY</u>: Breakers are almost always present in this area. When the seas are from the west, the breakers may extend to the entrance buoy (Lighted Whistle Buoy "S").

<u>SIUSLAW RIVER BAR</u>: Siuslaw River Bar has a very narrow channel extending out past the jetties. Unlike the larger bars on the Oregon Coast, the Siuslaw River Bar may be rendered impassable for small boats by a moderate swell, particularly at ebb tide. Boaters should use extreme caution when operating near this bar. Due to shoaling and jetty extensions, bar conditions are unpredictable. When the bar is rough, expect continuous breakers just inside the jetty tips out to 250 yards.

NOTE: The entrance range may not mark best water due to the changing conditions of the bar.

<u>REGULATED NAVIGATION AREA WARNING (ROUGH BAR) SIGN</u>: At Siuslaw River the sign is mounted on the Coast Guard lookout tower and faces 150° True. If the yellow lights on this sign are flashing, a restriction has been placed on recreational and uninspected passenger vessels crossing the bar.

BAR CONDITION REPORTS: Recorded bar and weather conditions can be obtained by calling Coast Guard Station Siuslaw River at (541) 997-8303. Additionally, within a three mile radius from the Coast Guard station a continual broadcast is on radio station 1610 AM containing bar conditions, bar restrictions, and local weather. An additional warning sign is located at the entrance to the boat ramp in Florence that when the amber lights are flashing you are directed to listen to 1610 AM for more information on the restriction.



YAOUINA BAY BAR INFORMATION

DANGER AREAS

A. <u>SOUTH JETTY AND GROINS IN RUINS</u>: The groins, or short jetties, along the south side of the entrance are completely submerged at high tide, but are bare at other stages. In addition, there are submerged rocks along the entire length of the jetty, which are close to the surface at all times. Never cross over the submerged end and do not hug the jetty on either side. Remain in the channel entering and leaving the river, so that if your engine should fail, you will have time to anchor before the current or wind sweeps you onto the rocks.

B. <u>NORTH JETTY</u>: This jetty affords excellent protection from northerly winds. However, the same caution should be exercised in running close to it as with the south jetty. Stay well clear of the end of the north jetty, since there is danger of shoal water breakers at the extreme end. Remain in the channel outbound until you have passed Yaquina Bay Entrance Approach Lighted Whistle Buoy, Y Buoy. This applies to entering the river as well. Mariners should anticipate a north to south beach current during the summer months and a south to north current during the winter months. The beach current may be intensified close to the tips of the jetties. Note: The current can be affected by severe weather and extreme tidal changes.

C. <u>SOUTH REEF</u>: This reef can be considered an extension of Yaquina Reef and is equally dangerous due to the same surf conditions that are encountered on Yaquina Reef. When going south, continue out of the channel to Yaquina Bay Approach Lighted Whistle Buoy Y before turning south.

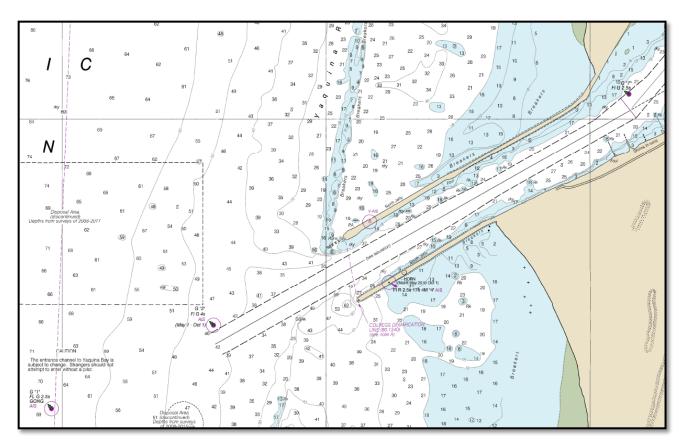
D. <u>YAQUINA REEF</u>: This reef is always extremely dangerous, even when the winds are light and few breakers are seen. A large swell coming from seaward can cause a tremendous breaker on this reef with little or no warning, even when the sea is otherwise calm. Never fish close to the reef and do not turn north until you have passed Yaquina Bay Approach Lighted Whistle Buoy, Y Buoy.

<u>GENERAL</u>: The Army Corps of Engineers has a disposal site for dredge spoils approximately 600 yards north of Yaquina Bay Entrance Lighted Gong Buoy 1 and 1000 yards west of Yaquina Bay Entrance Lighted Buoy 3 (seasonal May 1 to October 1). Mariners are encouraged to proceed to the Yaquina Bay Approach Lighted Whistle Buoy Y before turning north when departing for sea.

<u>REGULATED NAVIGATION AREA WARNING (ROUGH BAR) SIGN</u>: At Yaquina Bay, the sign is on the northeast end of the Coast Guard pier and faces and faces 280° True. There are two new signs in Yaquina Bay, the first is located by the Embarcadero Marina on the break wall facing Northeast at position 44 37' 43"N 124 02' 28"W, the second sign is located at the new boat ramp at South Beach Marina facing East at position 44 37' 25"N 124 03' 04"W. If the yellow lights on this signs are flashing, a restriction has been placed on recreational and uninspected passenger vessels crossing the bar.

<u>BAR CONDITION REPORTS</u>: Bar condition reports are given every three hours and as conditions change Recorded weather and bar condition reports are available by calling (541) 265-5511. Additionally, within a three mile radius from the Coast Guard station a continual broadcast is on radio station 1610 AM containing bar conditions, bar restrictions, and local weather. An additional warning sign is located at the entrance to the boat ramp at the South Beach Marina that when the amber lights are flashing you are directed to listen to 1610 AM for more information on the estriction.

NOTE: The Coast Guard is available to escort or stand by the bar when the bar is rough for both recreational and commercial boaters. Mariners in doubt about conditions, unfamiliar with the bar, experiencing a mechanical problem, or considering requesting an escort should wait outside of the Yaquina Bay Entrance buoy and contact the Coast Guard station before attempting to cross the bar. The presence of a Coast Guard vessel in the vicinity does not mean that the bar is safe to cross.



DEPOE BAY BAR INFORMATION

DANGER AREAS

A. <u>NORTH REEF</u>: Once a boat has cleared the entrance, any waters to the north are hazardous until Depoe Bay Entrance Lighted Bell Buoy 2 is reached. The sea breaks from the northwest and southwest at the same time, so this area must be avoided at all times.

B. <u>SOUTH REEF</u>: Better known as "Flat Rock", this area lies just south of the channel. Breakers are almost always present. Boats coming from the south should never use this area as a short cut to the channel. This area should be avoided at all times.

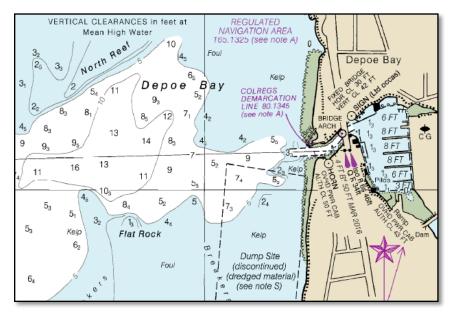
C. <u>CHANNEL FROM DEPOE BAY ENTRANCE LIGHTED BELL BUOY 2 INBOUND</u>

(<u>APPROXIMATELY 1000 YARDS</u>): The passage into and out of Depoe Bay is unusually short and difficult. The Coast Guard recommends studying it before attempting to operate a boat in it. Because the north and south reefs are so close to the channel, this area sometimes becomes very hazardous. During adverse conditions, breakers from the north reef will cross the channel and run into the entrance. When this condition exists, it is better to stand by at the entrance buoy until the Coast Guard advises it is safe to enter or is there to escort boats in. An important rule at Depoe Bay: **Never fish between the entrance and Depoe Bay Entrance Lighted Bell Buoy 2.**

DEPOE BAY CHANNEL: Depoe Bay Channel has been widened from 35 feet to 50 feet to make passing less dangerous. The channel has a depth of 7 feet at mean low water. Under normal conditions, small craft can enter and leave the harbor with little difficulty. Even under good conditions, however, the area between the breakwater and the bridge should be navigated with extreme caution. The channel has a "dog leg" under the bridge that obstructs a mariner's view of other inbound or outbound vessels. The local charter fleet monitors VHF-FM Channel 80 and it is standard practice for vessels to make a broadcast on this channel when inbound or outbound. Under adverse conditions, only mariners thoroughly familiar with the channel should attempt to enter this harbor. Depoe Bay has a flood lighted entrance. It should not be entered at night, unless the boat operator is well acquainted with the channel entrance and range lights.

<u>REGULATED NAVIGATION AREA WARNING (ROUGH BAR) SIGN</u>: The Coast Guard has established a Regulated Navigation Area Warning Sign with two flashing yellow lights 25 feet above the water, visible by outbound vessels, on a building on the north side of the entrance channel. There is also a new warning sign with two yellow flashing lights located at the south end of the harbor at the public boat ramp. If the yellow lights on this sign are flashing, a restriction has been placed on recreational and uninspected passenger vessels crossing the bar.

<u>BAR CONDITION REPORTS</u>: Recorded weather and bar conditions reports are available by calling (541) 765-2122 or contact Coast Guard Station Depoe Bay on VHF-FM Channel 16. Additionally, within a three-mile radius from the Coast Guard station a continual broadcast is on radio station 1610 AM containing bar conditions, bar restrictions, and local weather. An additional warning sign is located at the entrance to the boatramp that when the amber lights are flashing you are directed to listen to 1610 AM for more information on the restriction.



TILLAMOOK BAY BAR INFORMATION

DANGER AREAS

A. <u>BAR AREA</u>: The area within 1 NM radius of the Tillamook Bay jetty tips is considered the bar area. This area is considered hazardous, and mariners should exercise extreme caution when transiting in or near the bar area. The water runs out from four to six knots on average, and is very strong. Boats proceeding out should stop in the channel east of the seaward end of the breakwater and carefully evaluate the bar. The bar area is constantly changing.

B. <u>NORTH JETTY</u>: Approximately 100 yards of the north jetty tip is submerged. This area and all areas immediately adjacent to the jetty are extremely dangerous and should be avoided. About the last 150 yards of the outer tip of the North Jetty is curving towards the Tillamook Bay Channel. Do not proceed north or south until you are well clear of the submerged jetties (at least 100 yards seaward of the jetty tip going north, and 320 yards if going south).

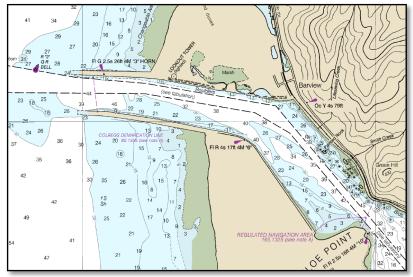
C. MIDDLE GROUNDS: Shoaling makes this area unpredictable and hazardous and should be avoided.

D. <u>SOUTH JETTY</u>: Approximately 320 yards of the south jetty tip is submerged (not visible). Extreme caution must be exercised when transiting this area.

<u>TILLAMOOK BAY CHANNEL</u>: Tillamook Bay Channel lies just south of the North Jetty. Boaters are urged to navigate with extreme caution as this channel changes constantly. The Tillamook Bay Entrance Leading Light marks the correct location of the navigable channel only when you are between the jetties. The preferred route of transit is through the "North Hole" which is the deep water area that runs north to south, between the submerged rocks on the end of the North Jetty and the red Tillamook Bay Entrance Lighted Bell Buoy 2.

<u>REGULATED NAVIGATION AREA WARNING (ROUGH BAR) SIGN</u>: One Regulated Navigation Area Warning Sign is located on the south side of the Coast Guard boathouse. A second sign is mounted on the Coast Guard Tower, which is located on the North Jetty. If the yellow lights on these signs are flashing, a restriction has been placed on recreational and uninspected passenger vessels crossing the bar. To see if this restriction affects your vessel, please contact Coast Guard Station Tillamook Bay on VHF-FM Channel 16 or call (503) 322-3531.

<u>BAR CONDITION REPORTS</u>: Bar condition and weather reports for Tillamook Bay can be obtained by contacting Coast Guard Station Tillamook Bay on VHF-FM Channel 16 or call (503) 322-3531. Additionally, within a three mile radius from the Coast Guard station a continual broadcast is on radio station 1610 AM containing bar conditions, bar restrictions, and local weather. An additional warning sign is located near the boat ramp that is energized when a restriction is in place; when the amber lights are flashing you are directed to listen to 1610 AM for more information on the restriction. Radio station KTIL (1590 kHz) gives bar conditions once a day, in the morning, during the summer time. With conditions changing frequently on the bar this morning radio report is only pertinent for the period that the report is given.



NEHALEM RIVER INFORMATION

DANGER AREAS

The Nehalem River entrance lies between two rebuilt jetties. The best water is close to the South Jetty. The channel seaward of the jetties is continually shifting and local knowledge is needed to cross it safely. The privately maintained range markers do not necessarily show the exact channel and are often not visible.

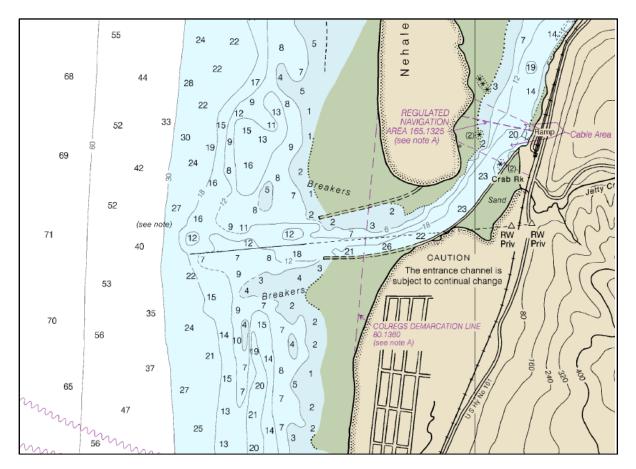
NOTE: Nehalem River Entrance Range Daybeacons are privately maintained and should only be used if one has local knowledge of the area.

A. <u>CRAB ROCK</u>: Located about 150 yards southwest of Jetty Fisheries Resort docks, it is a hazard to small boats when it is covered bywater.

B. <u>BAR AREA</u>: The entire area between the beach and the 30 foot curve is BAR AREA and breaks on the ebbing current. The channel across the bar is subject to frequent change. Boats proceeding out should stop just inside the entrance and carefully evaluate the bar. If a decision is made to cross, pick the calmest area and proceed. Once you have begun to cross the bar, do not attempt to turn around if the bar is breaking.

THERE IS NO REGULATED NAVIGATION AREA WARNING (ROUGH BAR) SIGN ESTABLISHED

Note: This is an unmonitored bar. For assistance contact the Coast Guard on VHF-FM Channel 16.



COLUMBIA RIVER BAR INFORMATION

DANGER AREAS

A. <u>CHINOOK SPUR, UPPER, LOWER AND MIDDLE SAND ISLAND SPURS</u>: Built on two rows of staggered pilings. Currents flowing through these pilings attain a velocity of up to 5 knots. A boat which becomes disabled or is maneuvered in such a way as to come in contact with any of these spurs is almost sure to suffer damage or become trapped against them and turn over. Even large boats have been capsized in these areas. Give these spurs a wide berth and never get close to them on the up-current side.

B. <u>CLATSOP SPIT</u>: The most unpredictable area on the river entrance. During flood currents and slack water it may be calm with only a gentle swell breaking far in on the spit. Yet 5 or 10 minutes later, when the current has started to ebb, it can become extremely hazardous with breakers extending far out toward the channel. You should remain north of the red buoys (Clatsop Spit Lighted Buoys 4, 6, 8, 10, 12, and 14) in this area, particularly just before or during the ebb. The South Jetty has a section broken away on the outer end. The broken section is under water close to the surface. Boats should use extra caution in the area from the visible tip of the Jetty out to Columbia River South Jetty Bell Buoy 2SJ. Peacock and Clatsop Spits are called the graveyard of the Pacific for good reason.

C. <u>JETTY A</u>: Southeast of Cape Disappointment, it presents a particular danger when the current is ebbing. Water flowing out of the river, is deflected by the jetty and frequently the currents reach 8 knots, often causing waves of 8 feet or more. Boats proceeding into Baker Bay West Channel make very little speed against the swift current and are exposed to the rough water or surf for long periods of time. The shallow sandy area should be avoided by small craft when heavy seas are present because of the surf that breaks on the beach.

D. <u>MIDDLE GROUND</u>: This is a shallow area between the North Jetty and main Ship Channel that is subject to breaking seas when swells as small as 4 feet are present. Conditions here can change in minutes with tidal current changes.

E. <u>PEACOCK SPIT</u>: Breakers are heavy in all types of current. Sport craft leaving the river should never be on the north side of the green buoys (Columbia River Entrance Lighted Buoys 1, 3, and 9 and Peacock Spit Lighted Buoy 7) and should not transit near the north jetty. Be aware there is a submerged section of the north jetty. When rounding Peacock Spit, give the breakers at least a half-mile clearance. Many times unusually large swells coming in from the sea suddenly commence breaking 1/4 to 1/2 mile outside the usual break on the end of the north jetty.

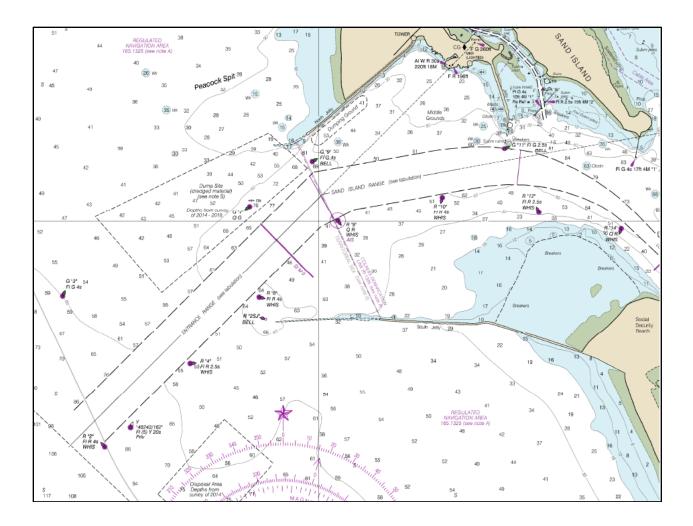
F. <u>SOUTH JETTY (SUBMERGED)</u>: There is a submerged jetty that extends approximately 1 nautical mile westward to Columbia River South Jetty Bell Buoy 2SJ. There have been many deep draft vessels that have struck the rock bottom causing flooding or other damage. Sailing vessels have had the extended skeg become fouled in the crevices between the stacked rocks that comprise the submerged jetty.

G. <u>CURRENTS</u>: Change shape and size of swells during the periods off the outgoing (ebb) tide and the incoming (flood) tide. The ebb tide can have a two-fold effect on the incoming swell. The ebb current pushes against the swells and can hold the pattern outside of the bar. This can cause waves to double stack and create shorter distances between the waves. The ebb current can create the effect of a false bottom on swells. The current meeting the wave can cause them to build in size and even break. This type of wave develops very quickly and can cause broaching or capsizing. The flood current will allow the wave patterns that were held by the ebb current to start flowing across the bar. Though the flood current can create favorable conditions for bar crossings, the flood can allow these waves to come in unrestricted and increase in speed and power. These types of conditions regarding the ebb and flood can be seen as the off shore swells approaching land and are ten foot in height.

BAR CONDITION PUBLIC INFORMATION SIGNS: There are five Public Information Signs for the Columbia River, three in Washington; Chinook Boat ramp, Ilwaco Boat ramp and one at Cape Disappointment State Park Boat ramp, and two in Astoria; Hammond Boat ramp and Warrenton Boat ramp. The signs are black and orange with two amber flashing lights when activated. Below the black and orange sign there is a public information sign "Bar Restrictions in Effect Tune AM Radio to 1610" When activated the amber lights flash and the Bar restriction information is broadcast on 1610 kHz AM.

THERE IS NO REGULATED NAVIGATION AREA WARNING (ROUGH BAR) SIGN ESTABLISHED.

<u>BAR CONDITION REPORTS</u>: Radio stations KVAS (1230 kHz) and KAST (1370 kHz) gives bar condition reports 15 minutes before and after the hour and safety information continuously (in a loop). Additionally, within a three mile radius from the Coast Guard station, and at the Hammond boat basin, a continual broadcast is on radio station 1610 AM containing bar conditions, bar restrictions, and local weather. Other warning sign are located at the entrance to the boat ramps at Fort Canby, Ilwaco, Chinook, Warrenton, and Hammond. When the amber lights are flashing, listen to 1610 AM for more information on the restriction. Coast Guard Station Cape Disappointment can be contacted via VHF-FM Channel 16 for bar conditions. The Coast Guard also maintains a recorded bar and weather forecast report at (360) 642-3565. The recording is updated every 3 hours or when weather conditions change.



WILLAPA BAY BAR INFORMATION

DANGER AREAS

Most of the waters in the Willapa Bay entrance are "**DANGEROUS AREAS**". This is due to extensive shoal water, effects of ocean wind and swells, and the fact that bars and shoals are constantly changing. The sea can break into dangerous surf at any time in this area. If your boat should swamp, help may not be able to reach you because the sea breaks into shoal water. The channel into Willapa Bay is subject to frequent changes. Crossing Willapa Bay entrance should only be attempted if intimately familiar with the entrance. Even the most recent chart of Willapa Bay will most likely not show the current shoals and channels. Shoaling at the entrance to Willapa Bay is constantly shifting. The nearest Coast Guard Station that can respond to distress calls is over one hour away to the north in Grays Harbor.

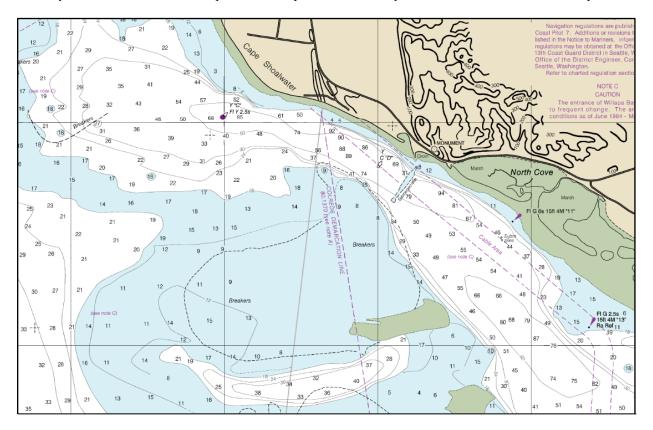
A. <u>SOUTH SPIT</u>: Located on the right as entering Willapa Bay. During ebb currents it generally breaks with swells 4 to 6 feet high. In addition to the danger of capsizing in this area, there is the added hazard of fouling the propeller on one of the many crab pot floats set by fishermen.

B. <u>NORTH SPIT</u>: Lies to the left as entering Willapa Bay. This area is dangerous due to shallow water and there is generally an 8 to 10 foot swell running. During ebb currents, it is usually breaking. Great caution should be used while fishing near this area as the drift rate is very fast and the turbulence may cause capsizing.

NOTE: The two buoys that serve the entrance to Willapa Bay are meant only to serve as a general guide. The buoys are yellow in color, not red and green because they are special purpose buoys. Because of the quickly shifting shoals, the buoys may or may not mark the best channel. With the frequent and severe storms that occur, it is normal for one or more of the buoys to break lose. Upriver from the North Cove area, the traditional red and green buoy system comes into effect.

THERE IS NO REGULATED NAVIGATION AREA WARNING (ROUGH BAR) SIGN ESTABLISHED.

BAR CONDITION REPORTS: Radio Station KAPA (1340 kHz) gives bar condition reports Monday through Saturday at 6:30 a.m., 9:00 a.m., 3:00 p.m., and 6:00 p.m., and on Sundays at 8:00 a.m., 12:00 noon and 4:00 p.m.



GRAYS HARBOR BAR INFORMATION

DANGER AREAS

A. <u>OUTER WHITCOMB FLATS</u>: Is to the right leaving Westport. This is a shoal area, and breakers sometimes exist, causing a dangerous situation.

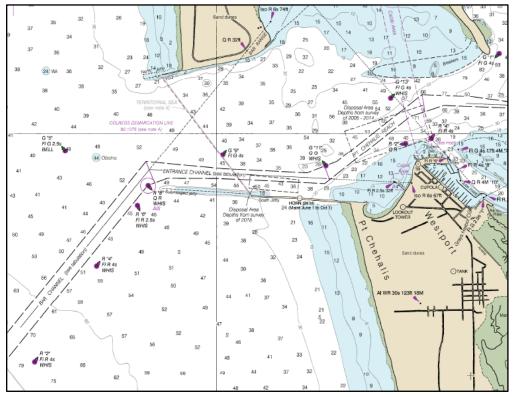
B. <u>THE MIDDLE GROUND</u>: This area encompasses from buoy 11 west towards buoy 9 and extending north to the base of the North Jetty. In moderate weather, large ground swells and breakers may be present. All attempts should be made to stay within the federally marked channel located south of the middle grounds when transiting the bar.

C. <u>THE SOUTH JETTY</u>: The South Jetty is submerged from the exposed end to about 4,500 feet seaward. Usually the sunken rocks are not visible and the danger of grounding is always present. In other than very calm weather conditions breakers exist on the Sunken Jetty, creating the possibility of capsizing or grounding. Grays Harbor Entrance Lighted Buoy 8 marks the sunken or seaward end of the jetty. Always avoid the area between Grays Harbor Entrance Lighted Buoy 8 and the raised or exposed end of the South Jetty. This area has caused most of the boating mishaps on the bar in recent years.

D. <u>THE NORTH JETTY</u>: The North Jetty and the area north of it are dangerous because of shallow water and breaking surf.

<u>REGULATED NAVIGATION AREA WARNING (ROUGH BAR) SIGN</u>: A Regulated Navigation Area Warning Sign is located on the point of land northwest of the Islander Motel and Restaurant. This sign is oriented 070° True. If the yellow lights on this sign are flashing, a restriction has been placed on recreational and uninspected passenger vessels crossing the bar.

BAR CONDITION REPORTS: For current bar conditions vessels are encouraged to call Coast Guard Station Grays Harbor weather line at (360) 268-0622. Additionally, within a three mile radius from the Coast Guard station a continual broadcast is on radio station 1610 AM containing bar conditions, bar restrictions, and local weather. An additional warning sign is located at the entrance to the Westport boat ramp that when the amber lights are flashing you are directed to listen to 1610 AM for more information on the restriction. Bar information is updated periodically throughout the day and as conditions change. The station will also broadcast any bar restrictions on VHF-FM Channel 16 and 22. The station can also be reached at (360) 268-0121 for the most up to date bar report.



OUILLAYUTE RIVER BAR INFORMATION

DANGER AREAS

A. <u>ROCK DIKE AND NORTH SIDE OF JAMES ISLAND</u>: A rock dike, exposed at low water, runs from the northeastern side of James Island northeastward to the beach. It should be given a wide berth because of the danger of being swept upon it by river currents. The area northward of James Island is fouled with many submerged rocks and should be avoided.

B. <u>OUTER END OF THE BREAKWATER</u>: The end of the breakwater is slowly settling and the area around it is shoaling which causes breakers and should be avoided.

C. <u>WASH ROCK</u>: Wash Rock, 4 feet above water at mean low tide, lies about 55 feet off the southeast corner of James Island. In calm weather it can be passed fairly close, but care must be taken not to hit it. In rough weather there is considerable turbulence around it, which will affect a boat's ability to maneuver.

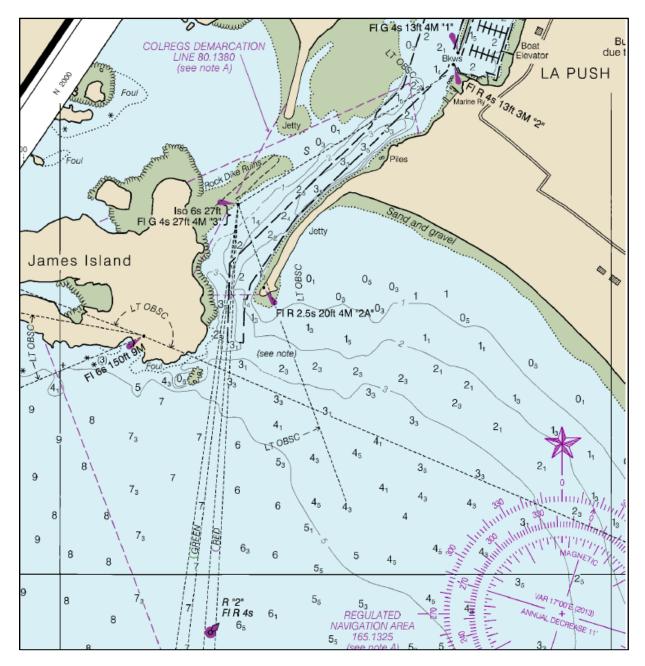
D. <u>AREA EAST OF BREAKWATER</u>: This area is very shallow and breaks in almost all weather. It should be avoided.

<u>QUILLAYUTE RIVER ENTRANCE</u>: Quillayute River Entrance lies between James Island and a rock breakwater. The depth is about 10 feet but is subject to extreme variations. The usual width at the entrance is about 70 feet. While inside the entrance (north of the breakwater) stay on the jetty side of mid-channel and keep a sharp eye out for fish nets especially between mid-August and early June. From May 1 to October 15, seasonal buoys mark the channel from the entrance of the river to the boat basin. Also during the summer months there is very little danger of breakers on the bar except when a storm is passing through. The entrance to the river is hazardous after dark and entering should not be attempted unless one is familiar with the area. The entrance is marked by Quillayute River Direction Light which shows white, red, and green lights. The white light marks the centerline of the channel. If a mariner moves to the port or starboard side of the channel the white light will change to either red or green depending on which side of the channel the boat is tending toward (see the Coast Guard Light List, Volume VI for more details).

Note: As of December 2019, the Quillayute River Direction Light has been temporarily replaced with a yellow leading light due a failure of the original equipment. See D13 LNM Advance Notice for details.

<u>REGULATED NAVIGATION AREA WARNING (ROUGH BAR) SIGN</u>: At Quillayute River the Regulated Navigation Area Warning Sign is mounted on the northwest corner of the Coast Guard boathouse facing 016° True. If the yellow lights on this sign are flashing, a restriction has been placed on recreational and uninspected passenger vessels crossing the bar.

<u>BAR CONDITION REPORTS</u>: Bar conditions are also available by calling (360) 374-6993. This information is updated every three hours from sunrise to sunset. Bar information is updated periodically throughout the day and as conditions change. The station will also broadcast any bar restrictions on VHF-FM Channel 16 and 22. Additionally, within a three mile radius from the Coast Guard station a continual broadcast is on radio station 1610 AM containing bar conditions, bar restrictions, and local weather. An additional warning sign is located at the entrance to the LaPush boat ramp that when the amber lights are flashing you are directed to listen to 1610 AM for more information on therestriction.



CHAPTER III

COMMUNICATIONS

COMMUNICATIONS ON 156.8 MHz

The authorized use of VHF-FM Channel 16 (156.8 MHz) is limited to distress, safety, and hailing communications. The Coast Guard and the Federal Communications Commission (FCC) are renewing efforts to reduce the congestion and misuse of these frequencies. Mariners are reminded that the following operating procedures are in effect:

- 1. VHF-FM 156.8 MHz must be continuously monitored unless you are participating in the Vessel Traffic System or exchanging communications on another frequency.
- 2. Do not attempt to make routine radio calls on 156.8 MHz while distress communications are in progress.
- 3. Switching to an appropriate working frequency is required once communications are established on 156.8 MHz.
- 4. Radio checks are not authorized on either frequency.

For further information write to:	Federal Communications Commission
	Field Operations Bureau, Seattle Field Office
	11410 NE 122nd Way, Suite 312
	Kirkland, WA 98034
Or call:	(888) 225-5322

COMMUNICATIONS ON 2670 KHz AND 157.1 MHz

The voice frequency VHF-FM Channel 22A (157.1 MHz) is the frequency reserved for Coast Guard Marine Information Broadcasts and for use as Coast Guard/non-government vessel liaison frequencies. The use of 157.1 MHz by non-government licensees is restricted exclusively to communications with the Coast Guard. Coast Guard stations do not guard these frequencies; however, they can be shifted to these frequencies after an initial call on VHF-FM Channel 16 (156.8 MHz) as appropriate.

BROADCAST NOTICES TO MARINERS (BNM)

The United States Coast Guard broadcasts marine safety information on VHF-FM Channel 22A (157.1 MHz) and on 2670 KHz single sideband (SSB). These safety broadcasts contain information such as notices to mariners, storm warnings, distress warnings, and other pertinent information that is vital for safe navigation.

Following a preliminary call on VHF-FM Channel 16 (156.8 MHz), mariners are instructed to shift to VHF-FM Channel 22A simplex (157.1 MHz). Operators of vessels who plan to transit U.S. waters and who do not have VHF radios tunable to the United States Channel 22A are urged to obtain the necessary equipment. The stations broadcast Notice to Mariners information upon receipt and on the following scheduled times and frequencies:

STATION	BROADCAST TIME	FREQUENCY USED
Sector North Bend, OR	1003 PST & 2203 PST	157.10 MHz
Sector Columbia River -	1033 PST & 2233 PST	157.10 MHz
Coastal		
Sector Columbia River	1045 PST	157.10 MHz
Sector Puget Sound - North	1115 PST & 2315 PST	157.10 MHz
Sector Puget Sound - South	1130 PST & 2330 PST	157.10 MHz

VHF MARINE RADIO INFORMATION

You do not need a license to operate a marine VHF radio, radar, or EPIRBs aboard voluntary ships operating domestically. The term "voluntary ships" refers to ships that are not required by law to carry a radio. Generally, this term applies to recreation or pleasure craft. The term "voluntary ships" does not apply to the following:

- 1. Cargo ships over 300 gross tons navigating in the open sea;
- 2. Ships certified by the U.S. Coast Guard to carry more than 6 passengers for hire in the open sea or tidewaters of the U.S.;
- 3. Power driven ships over 20 meters in length on navigable waterways;

Communications

- 4. Ships of more than 100 gross tons certified by the U.S. Coast Guard to carry at least one passenger on navigable waterways;
- 5. Tow boats of more than 7.8 meters in length on navigable waterways; and,
- 6. Uninspected commercial fishing industry vessels required to carry a VHF radio.
- 7. Ships required to carry an Automatic Identification System (AIS) transceiver by the U.S. Coast Guard regulations enacted pursuant to the Maritime Transportation Security Act of 2000.

Ships are considered as operating domestically when they do not travel to foreign ports or do not transmit radio communications to foreign stations. Sailing in international waters is permitted, so long as the previous conditions are met. If you travel to a foreign port (e.g., Canada, Mexico, Bahamas, British Virgin Islands), a license is required. Additionally, if you travel to a foreign port, you are required to have an operator permit. For more information on using and licensing, visit the FCC Maritime Mobile Services website, https://www.fcc.gov/wireless/bureau-divisions/mobility-division/ship-radio-stations. For more information contact the FCC at (888)225-5322.

Type of Message	VHF Channel
DISTRESS SAFETY AND CALLING - Use this channel to get the attention of another station (calling) or in emergencies (distress and safety).	16
INTERSHIP SAFETY – Required for all VHF-FM equipped vessels. Use this channel for ship-to-ship safety messages and for search and rescue messages and ships and aircraft of the Coast Guard.	6
COAST GUARD LIAISON - Use this channel to talk to the Coast Guard (but first make contact on Channel 16)	22A
VTS PORT OPERATIONS - These channels are used in directing the movement of ships in or near	5A, 6, 11, 12, 14,
ports, locks or waterways. Messages must be about the operational handling movement and safety of ships. In certain major ports, Channels 11, 12 and are not available for general port operations messages.	73
NAVIGATIONAL - (Also known as the bridge-to-bridge channel.) This channel is available to all ships. Messages must be about ship navigation, for example, passing or meeting other ships. You must keep your messages short. Your power output must not be more than one watt. This is also the main working channel at most locks and drawbridges.	13, 67
MARITIME CONTROL - This channel may be used to talk to ships and coast stations operated by state or local governments. Messages must pertain to regulation and control, boating activities, or assistance to ships.	17
DIGITAL SELECTIVE CALLING - Use this channel for distress and safety calling and for general purpose calling using only digital selective calling techniques. The United States will declare Sea Area A1 (see DSC on page 5) when the Rescue 21 system is fully employed.	70

VESSEL BRIDGE-TO-BRIDGE RADIOTELEPHONE REGULATION

Bridge-to-bridge radiotelephone regulations are contained in 33 Code of Federal Regulations Part 26 and are included in the Coast Guard publication Navigation Rules and Regulations Handbook, International-Inland, available from the U.S. Government Printing Office or from the website:

<u>http://www.navcen.uscg.gov/?pageName=navRulesContent</u>. Briefly, the regulations provide that all of the following vessels must maintain a continuous listening watch on VHF-FM Channel 13 (156.65 MHz) for the exchange of navigational safety information when underway:

- 1. 300 gross tons and over
- 2. 100 gross tons and over carrying passengers for hire
- 3. 26 feet in length or more while engaged in towing
- 4. All dredges and floating plants engaged in or near a channel or fairway in operations likely to restrict or affect navigation of other vessels

NOAA WEATHER RADIO BROADCASTS

<u>Citv</u>	Station	Frequency	Broadcast Times
Astoria, OR	KEC-91	162.40 MHz	continuous
Brookings, OR	KIH-37	162.55 MHz	continuous
Coos Bay, OR	KIH-32	162.40 MHz	continuous
Neahkahnie, OR	WWF-94	162.425 MHz	continuous
Tillamook, OR	WWF-95	162.475 MHz	continuous
Neah Bay, WA	KIH-36	162.55 MHz	continuous
Newport, OR	KIH-33	162.55 MHz	continuous
Olympia, WA	WXM-62	162.475 MHz	continuous
Port Orford, OR	WNG-596	162.425MHz	continuous
Portland, OR	KIG-98	162.55 MHz	continuous
Roseburg, OR	WXL-98	162.55 MHz	continuous
Salem, OR	WXL-96	162.475 MHz	continuous
Seattle, WA	KHB-60	162.55 MHz	continuous
Puget Sound Marine	WWG-24	162.425 MHz	continuous

The National Weather Service manages the VHF-FM radio stations listed above. Broadcast tapes are updated at a minimum of every 6 hours but are usually updated every 3 hours during the day. Contents vary, but generally contain the following information:

- 1. Marine forecasts and warnings for coastal waters (out 60 miles), including the Strait of Juan de Fuca and the Inland Waters of Western Washington.
- 2. Offshore waters forecast (60-250 miles offshore) from Cape Flattery to Point Conception.
- 3. State forecasts and local forecasts.
- 4. Selected weather observations from Coast Guard, buoys, and other stations in Western Oregon, Western Washington, Northern California, and Southwestern British Columbia.

Whenever severe weather warnings are necessary, the tape will be updated and the transmission devoted to "up-to-the-minute" information on storm dangers. For more information concerning weather broadcasts contact the National Weather Service (NOAA), 7600 Sand Point Way NE, BIN C15700, Seattle, WA 98115 or call (206) 526-6095 or on the internet at: http://www.wrh.noaa.gov/.

NAVTEX

NAVTEX is a standard international method of broadcasting notices to mariners and marine weather forecasts using small, low cost receivers designed to be installed in the pilothouse of a vessel. NAVTEX receivers screen incoming messages, inhibiting those, which had been previously received or are of a category not of interest to the user, and print the rest on adding machine size paper. NAVTEX not only provides marine information previously available only to those knowledgeable in Morse code, but also allows any mariner who cannot man a radio full time to receive safety information at any hour. All NAVTEX transmissions are made on 518 kHz. Mariners who do not have NAVTEX receivers but have SITOR radio equipment can also receive these broadcasts by operating it in the FEC mode and tuning to 518kHz.

Information broadcast over NAVTEX include offshore weather forecasts, offshore marine advisory warnings, search and rescue information, and navigational information that applies to waters from the line of demarcation (separating Inland Rules from COLREG Rule waters) to 200 miles offshore. Navigational information that affects the safety of navigation of deep draft (15 feet or more) vessels within the U.S. Inland Rules waters will also be included. Gulf Stream location is also included from Miami and Portsmouth. Coastal and high seas weather forecasts are not being broadcast over NAVTEX. The Safety of Life at Sea Convention, as amended in 1988, requires vessels regulated by that convention to carry NAVTEX receivers.

DIGITAL SELECT CALLING (DSC)

DSC is a primary component of GMDSS in MF, HF, and VHF maritime frequency bands. Each ship or shore station equipped with a DSC terminal has a unique Maritime Mobile Station Identity (MMSI). This is a nine-digit number that specifically identifies a ship, coast station, or group of stations. The DSC system alerts an operator when a distress call is received. It will provide the operator with a pre-formatted message that can include the distressed vessel's 9 digit MMSI, location, nature of distress, desired mode of communication and preferred working frequency. Safety of Life at Sea (SOLAS) convention-regulated ships have already begun using this system. DSC alerts will be received at Coast Guard units and provide the capability to communicate with SOLAS and other DSC capable vessels.

GMDSS coverage areas have been designated as follows:

Sea Area A1: VHF-FM range, coastal area out 20 miles offshore. DSC signal sent on VHF-FM Channel 70 (156.525 MHz) with voice transmission on Channel 16 (156.8Mhz). The United States Coast Guard has declared Sea Area A1 as those areas within 20 nautical miles seaward of the territorial baseline along the East, West, and Gulf coasts of the United States, excluding Alaska, and including Hawaii, Puerto Rico, Guam, the Virgin Islands of the United States, and the Northern Mariana Islands of Saipan, Tinian, and Rota.

Sea Area A2: MF range, area beyond VHF-FM coverage to approximately 100 miles offshore. A DSC alert is sent on 2187.5 KHz with a voice transmission followed on 2182 KHz. The United States presently has no declared A2 Sea Areas.

RADIO CHECKS

Radio checks via DSC are encouraged and accepted whenever possible. When conducting radio checks via DSC, the alert signal shall not be used. Over-the-air testing shall be conducted on the associated voice frequency. Testing shall not be conducted on DSC guard frequencies.

HOAX CALLS

Federal law prohibits a person from knowingly and willfully communicating a false distress message with the intent of causing the Coast Guard to attempt to save lives and property when it is known that no assistance is needed. Firing off flares in a non-distress situation is the same as pulling a fire alarm or making a false call to 911. The Coast Guard treats all emergency calls as real until the rescue is completed, or it can be confirmed that there is no distress. Do not fire flares in order to dispose of them, these devices are meant to signal for assistance and are not to be used as fireworks. Contact the Coast Guard or Coast Guard Auxiliary for guidance on disposing of outdated flares.

Hoaxes are malicious acts that are punishable as a felony. Direction-finding equipment, voice recorders, and voice analysis equipment are utilized by the Coast Guard and the Department of Justice to aggressively prosecute, and convict, and imprison hoax callers.

Hoaxes put the lives of rescuers and other boaters at risk. Coast Guard personnel know, train for, and accept the risks associated with rescue operations and will launch within minutes of receiving a call. Hoax callers needlessly expose rescuers to these risks and endanger their lives. When Coast Guard units are pursuing Hoax calls, rescue units are not available to respond to calls for help from other boaters who may be in real danger.

Hoaxes cost the taxpayer's money. Millions of dollars are spent not only by the Coast Guard but also by local harbor and marine patrols who respond to Hoax calls. It costs approximately \$3500 per hour to operate a standard utility boat, while a helicopter or cutter may cost from \$10,000 to \$30,000 per hour. If convicted, the person responsible for committing a Hoax can be sentenced to jail time in excess of one year, and made to repay the government's costs to respond to the hoax. These costs can quickly total in the hundreds of thousands of dollars.

Hoax calls divert resources away from people who are truly in distress, unnecessarily risk the lives of the responders, and waste taxpayer money that could be used for more productive operations. Report Hoax callers to the nearest Coast Guard facility or your local law enforcement agency.

CHAPTER IV

BOATING SAFETY

INTRODUCTION

Many topics in this chapter have corresponding rules and regulations. Summaries of these rules and regulations are contained in Chapter VIII, Law Enforcement, of this Special LNM. More information about recreational boating safety can be obtained by visiting the Coast Guard Boating Safety web site at http://www.uscgboating.org/. Most of the material in this section is taken from, "Federal Requirements and Safety Tips for Recreational Boats," which is produced by the United States Coast Guard Office of Boating Safety.

As the operator and/or owner of a vessel you are responsible not only for the prudent and safe operation of your boat, but also for the lives and safety of your passengers and others around you. Become familiar with Federal, State, and local rules and regulations regarding safe boat operation and try to learn all aspects of good seamanship such as boat handling, navigation and piloting, weather, communications, etc. If you don't feel comfortable with your knowledge in some of these areas, or if you want to brush up on your skills, you may wish to take a safe boating course offered by either the Coast Guard Auxiliary or the United States Power Squadrons. These organizations are comprised of volunteers dedicated to boating safety. Both organizations offer a variety of outstanding safe boating courses at minimal cost. Information on some of the courses offered by the Coast Guard Auxiliary is included in Chapter V of this publication. For more information on classes available in your area: http://wow.uscgaux.info/content.php?unit=130 or http://www.usps.org/

COAST GUARD BOATING SAFETY APP

The Boating Safety Mobile App will be available on the Apple and Google Play online stores. The new app was not designed to replace a boater's marine VHF radio, which the Coast Guard strongly recommends all boaters have aboard their vessels. The app was designed to provide additional boating safety resources for mobile device users. Features of the app include: state boating information; a safety equipment checklist; free boating safety check requests; navigation rules; float plans; and calling features to report pollution or suspicious activity. When location services are enabled, users can receive the latest weather reports from the closest National Oceanic and Atmospheric Administration weather buoys as well as report the location of a hazard on the water. The app also features an Emergency Assistance button which, with location services enabled, will call the closest Coast Guard command center. National Safe Boating Week, held during the third week in May, is an annual event that encourages all boaters to practice safe boating. The Coast Guard Mobile App is self-contained, so personal information is stored on the phone and is not sent to the Coast Guard unless the user chooses to send it. The app does not track a user's location unless the app is being used. The Coast Guard does not track a user's location. For more information on the app please visit http://www.uscg.mil/mobile/

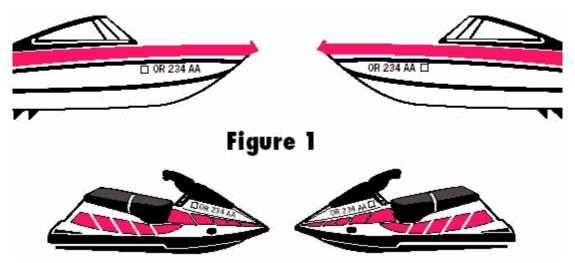
REGISTRATION, NUMBERING AND DOCUMENTATION

All undocumented vessels equipped with propulsion machinery operating on navigable waters of the U.S., must be registered in the state of principal use. A certificate of number will be issued upon registering the vessel. These numbers must be displayed on your vessel. The owner/operator of a vessel **MUST** carry a valid certificate of number whenever the vessel is in use. When moved to a new state of principal use, the certificate is valid for 60 days. Check with your state boating authority for numbering requirements. Some states require all vessels to be numbered.

Some larger recreational vessels may be documented. The certificate of documentation **MUST** be on board a documented vessel at all times. A document serves as a certificate of nationality and an authorization for a specific trade. A documented vessel is not exempt from applicable state or federal taxes, nor is its operator exempt from compliance with federal or state equipment carriage requirements.

DISPLAY OF NUMBERS

Numbers must be painted or permanently attached to each side of the forward half of the vessel. The validation stickers must be affixed within six inches of the registration number. With the exception of the vessel fee decal, no other letters or numbers may be displayed nearby. Lettering must be in plain, vertical block characters of not less than 3 inches in height. Spaces or hyphens between letter and number groupings must be equal to the width of a letter other than "I" or a number other than "1". See Figure 1 on the following page.



NOTIFICATION OF CHANGES TO A NUMBERED VESSEL

The owner of a vessel must notify the agency which issued the certificate of number within 15 days if:

- 1. The vessel is transferred, destroyed, abandoned, lost, stolen or recovered.
- 2. The certificate of number is lost, destroyed or the owner's address changes.

If the certificate of number becomes invalid for any reason, it must be surrendered in the manner prescribed to the issuing authority within 15 days.

The following are the state offices within the Thirteenth District that regulate boating laws and registration.

Idaho Department of Parks and Recreation Boating Program P.O. Box 83720 Boise, ID 83720-0065 (208) 334-4199 http://parksandrecreation.idaho.gov/activities/boating

Oregon Oregon State Marine Board P.O. Box 14145 Salem, OR 97310 (503) 378-8587 http://www.oregon.gov/OSMB/Pages/index.aspx Montana Montana Fish, Wildlife, and Parks 1420 East 6th Avenue P.O. Box 200701 Helena, MT 59620 (406) 444-2452 http://fwp.mt.gov/recreation/regulations/boating/

Washington WA State Parks & Recreation Boating Programs PO Box 2650 Olympia, WA 98504-2650 (360) 902-8555 http://parks.state.wa.us/435/Boating

A documented vessel must have the name of the vessel and hailing port plainly marked on the exterior part of the hull in clearly legible letters not less than 4 inches in height. In addition, the documented vessel must have the "Official Number" permanently affixed in block type, Arabic numerals, not less than 3 inches in height on some clearly visible structural part of the boat.

VESSEL DOCUMENTATION WITH THE COAST GUARD

With a few exceptions, all commercial vessels of 5 or more net tons, which are used on the navigable waters of the U.S., must be documented. A commercial vessel of 5 or more net tons engaged in foreign trade is eligible, but not required, to be documented. A recreational boat may (at the option of the owner) also be documented if it is 5 or more net tons. The Certificate of Documentation is issued by the Coast Guard. There are advantages and disadvantages to documenting your vessel. The main benefit of documentation versus numbering is that a documented vessel may be the subject of a Preferred Ship Mortgage under the Ship Mortgage Act of 1920. In practical terms, this means that lending institutions regard a documented vessel as a more secure form of collateral. For larger and more expensive boats, it may be easier to obtain bank financing if the boat is documented rather than numbered. Another benefit is that the certificate of documentation may make customs entry and clearance easier in

foreign ports. The document is treated as a form of national registration that clearly identifies the nationality of the vessel. The main disadvantage of documenting rather than numbering is the higher cost. The numbering fee varies from State to State. In addition, documented vessels are not exempt from State or local taxes, or other boating fees. For complete information on documenting a vessel contact the U. S. Coast Guard Vessel Documentation Center at (800) 799-8362 or at https://www.docuscg.mil/Our-Organization/Deputy-for-Operations-Policy-and-Capabilities-DCO-D/National-Vessel-Documentation-Center/

Tenders for documented vessels are seen differently from tenders on state numbered vessels. State numbered vessels with tenders under 10 feet in length and under 10 horsepower are exempt from numbering "only" if they are strictly used as a means to transports passengers and equipment from the vessel to shore.. These tenders must display the mother vessels state registration number followed by a "-1". Any use outside those parameters the vessel will have to be numbered separately. If equipped with mechanical propulsion, tenders for documented vessels are not exempt from state numbering. These vessels must be separately number by the state and display the state registration numbers issued on its certificate of numbers.

OPERATOR'S RESPONSIBILITIES

Your water fun depends on you, your equipment and other people who, like yourself, enjoy spending leisure time on, in or near the water. Here are your responsibilities:

- 1. File a float plan with a relative or friend.
- 2. Make sure the boat is in top operating condition and that there are no tripping hazards. The boat should be free of fire hazards and have clean bilges.
- 3. Safety equipment, required by law, is on board, maintained in good condition, and you know how to properly use these devices.
- 4. Have a complete knowledge of the operation and handling characteristics of your boat.
- 5. Know your position and know where you are going.
- 6. Maintain a safe speed and proper lookout at all times to avoid collision.
- 7. Keep an eye out for changing weather conditions, and act accordingly.
- 8. Know and practice the Rules of the Road (Navigational Rules).
- 9. Know and obey Federal and state regulations and waterway markers.
- 10. Maintain a clear, unobstructed view forward at all times. "Scan" the water back and forth; avoid "tunnel" vision. Most boating collisions are caused by inattention. *You are the key to water safety!*

NAVIGATION RULES / RULES OF THE ROAD

Virtually everything in life has an overreaching set of rules that we all consciously or subconsciously abide by. Just like driving your car down the road operating a boat has similar rules that apply to all boaters, power, sail and paddle. Although the Navigation Rules may appear complex there are four basic rules that all vessel must follow to avoid the risk of collision.

Maintaining a proper lookout, which promotes awareness of other vessels and hazards, is critical in boating. Because there are no traffic lanes as you have on a highway, vessels can approach you from all angles. Being vigilant and focusing on actions of other vessels is crucial to safety. Maintaining a proper look out is also not just visual, but includes all means of obtaining information. For example, Listening for other vessels horns or whistles can attract your attention to possible danger, especially in restricted or limited visibility.

Maintaining a proper lookout and operating at a safe speed are the foundation for good situational awareness. Having good situational awareness allows you to quickly determine when a risk of collision exist and what actions to take to avoid any risk that arises. Recognizing when the risk of collision exists is simply when there is no appreciable change in compass bearing of an approaching vessel and its range decreases; constant bearing decreasing range. Sometimes risk of collision can exist even when an appreciable bearing change is evident, particularly when approaching a very large vessel or a tow or when approaching a vessel at close range. Caution should always be taken when approaching other vessels and every vessel shall use all available means appropriate to the prevailing circumstances and conditions to determine if risk of collision exists. If there is any doubt such risk shall be deemed to exist.

When taking action to avoid a collision those actions must be positive and made in ample time. Waiting to the last minute to maneuver places you further at risk. If you alter your course or speed early enough that may be the only

action that is necessary but realize you should make any alteration significant enough to be apparent to another vessel that may be observing your actions. If you have to you can even stop until you are certain the risk of collision no longer exists. A succession of small alterations of course should also be avoided as small course changes are hard for other vessels to notice from a distance. So, act early enough to pass at a safe distance and always, if there is any doubt that risk of collision exists you should proceed by taking action.

Navigation lights are required between times of sunset and sunrise or any other time where visibility is restricted. Your navigation lights should be fully operational and not obstructed by any structure or appliance mounted on the vessel. Navigation lights are critical in determining if the risk of collision exists during operation No other lights may be used that can be mistaken for navigational lights that impair their visibility or distinctive nature. They should also not interfere with keeping of a proper lookout.

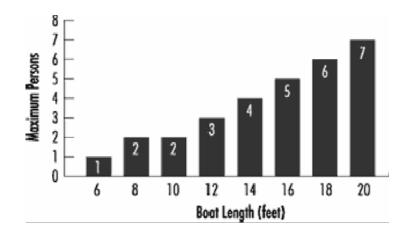
CHOOSING THE RIGHT BOAT

In the U.S. there are more than 2,500 boat manufacturers that produce more than 4,000 different boat models which are powered by a variety of outboard, stern drive, and inboard engines. Because of the great variety, choosing the right boat can be confusing, but the right choice is an important step in enjoying the nation's waterways. In selecting the right boat for your needs, consider the type of activity for which you plan to use it, such as water skiing, fishing, cruising, or weekend outings. You need to consider the type of water on which it will be used, such as lakes, rivers, open ocean, or the Great Lakes. The boat should be large enough to handle the number of people on a normal outing.

LOADING YOUR BOAT

Never overload your boat with passengers and cargo beyond its safe carrying capacity. Too many people and/or gear will cause the boat to become unstable. Always balance the load so that the boat maintains proper trim. Here are some things to remember when loading your boat:

- 1. Distribute the load evenly fore and aft and from side to side.
- 2. Keep the load low.
- 3. Keep passengers seated (Do not stand up in a small boat!).
- 4. Fasten gear to prevent shifting.
- 5. Do not exceed the "U.S. Coast Guard Maximum Capacities" information label (commonly called the Capacity Plate).
- 6. If there is no Capacity Plate, use the following chart as a guide to determine the maximum number of persons you can safely carry in calm weather. The chart is applicable only to mono-hull boats less than 20ft in length. A mono-hull is a boat, which makes a single "footprint" in the water when loaded to its rated capacity. For example, a catamaran, trimaran, or a pontoon boat is not a mono-hull boat.



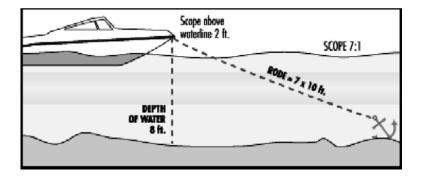
Many hunters and anglers do not think of themselves as boaters, but use small semi-v hull vessels, flat bottom jonboats or canoes to pursue their sports. These boats tend to be unstable and easily capsize. Capsizing, sinking, and falling overboard from small boats account for 70% of boating fatalities. These statistics emphasize the importance of having an awareness of your boat's limitations and the skills and knowledge to overcome them.

Standing in a small boat raises the center of gravity, often to the point of capsizing. Standing for any reason or even changing position in a small boat can be dangerous, as is sitting on the gunwales or seat backs or on a pedestal seat while underway. A wave or sudden turn may cause a fall overboard or capsizing because of the raised center of gravity.

ANCHORING

Anchoring is done for two principal reasons: first, to stop for fishing, swimming, lunch, or an overnight stay and secondly, to keep you from running aground in bad weather or as a result of engine failure. Anchoring can be a simple task if you follow these guidelines:

- 1. Make sure you have the proper type of anchor (danforth/plow/mushroom).
- 2. A three to six foot length of galvanized chain should be attached to the anchor. The chain will stand up to the abrasion of sand, rock or mud on the bottom much better than a fiber line.
- 3. A suitable length of nylon anchor line should be attached to the end of the chain (this combination is called the "Rode"). The nylon will stretch under heavy strain cushioning the impact of the waves or wind on the boat and the anchor.
- 4. Select an area that offers maximum shelter from wind, current and boat traffic.
- 5. Determine depth of water and type of bottom (preferably sand or mud).
- 6. Calculate the amount of anchor line you will need. General rule: 5 to 7 times as much anchor line as the depth of water plus the distance from the water to where the anchor will attach to the bow. For example, if the water depth is 8 feet and it is 2 feet from the top of water to your bow cleat, you would multiply 10 feet by 5 to 7 to get the amount of anchor line to put out (See diagram below).



- 7. Secure the anchor line to the bow cleat at the point you want it to stop.
- 8. Bring the bow of the vessel into the wind or current.
- 9. When you get to the spot you want to anchor, place the engine in neutral.
- 10. When the boat comes to a stop, slowly lower the anchor. Do not throw the anchor over as it tends to entangle the anchor line.
- 11. When all anchor line has been let out, back down on the anchor with engine in idle reverse to help set the anchor.
- 12. When anchor is firmly set, use reference points (landmarks) in relation to the boat to make sure you are not drifting. Check these points frequently.

Do not anchor by the Stern! Anchoring a small boat by the stern has caused many to quickly capsize and sink. The transom is usually squared off and has less freeboard than the bow. In a current, the force of the water can pull the stern under. The boat is also vulnerable to swamping by wave action. The weight of a motor, fuel tank, or other gear in the stern increases the risk.

FUELING

Most fires and explosions happen during or after fueling. To prevent an accident, follow these rules:

- 1. Portable tanks should be refueled ashore.
- 2. Close all hatches and other openings before fueling.
- 3. Extinguish all smoking materials.
- 4. Turn off engines, all electrical equipment, radios, stoves and other appliances.
- 5. Remove all passengers.
- 6. Keep the fill nozzle in contact with the tank and wipe up any spilled fuel.
- 7. Open all ports, hatches and doors to ventilate.
- 8. Run the blower for at least four minutes.
- 9. Check the bilges for fuel vapors before starting the engine.
- 10. Do the "sniff test". Sniff around to make sure there is no odor of gasoline anywhere in the boat. *Do not start the engine until all traces of fuel vapors are eliminated*!

FUEL MANAGEMENT

Practice the "One-Third Rule" for proper fuel management by using:

- 1. One-third of the fuel goingout
- 2. One-third to get back and
- 3. One-third in reserve.

WEATHER

You should never leave the dock without first checking the local weather forecast. You can get the weather information from the TV, radio, local newspaper, on-line, or from one of the weather channels on your VHF radio.

At certain times of the year weather can change rapidly and you should continually keep a "weather eye" out. While you are out in a boat here are a few signs you can look for that indicate an approaching weather change:

- 1. Weather changes generally come from the west. Scan the sky with your weather eye, especially to the west.
- 2. Watch for cloud to build up, especially rapid vertically rising clouds.
- 3. Sudden drop intemperature.
- 4. Sudden change in wind direction and/or speed.
- 5. If you have a barometer on your boat, check it every 2 to 3 hours. A rising barometer indicates fair weather and rise in wind velocity; a falling barometer indicates stormy or rainy weather.

What to Do in Severe Weather

- 1. Reduce speed, but keep just enough power to maintain headway.
- 2. Put on your PFDs.
- 3. Turn on running lights.
- 4. Head for nearest shore that is safe to approach, if possible.
- 5. Head bow of boat into the waves at about a 45-degree angle.
- 6. Keep bilges free of water.
- 7. Seat passengers on bottom of boat near centerline.
- 8. If your engine fails, trail a sea anchor on a line from the bow to keep the boat headed into the waves. A bucket will work as a sea anchor in an emergency.
- 9. Anchor the boat if necessary.

FLOAT PLAN

Play it safe, keep a stack a float plan forms on hand. Leave a copy with a friend, relative or local marina before heading out on the water. In case of an emergency, pertinent information will be right at their fingertips to enable them to contact the local marine police or Coast Guard with necessary details. A word of caution-in case you're delayed, and it's not an emergency, inform those with your float plan, and be sure to notify them when you return so the float plan can be "closed out" and an unnecessary and costly search avoided.

Operator:	
2. Boat description:	
Type:Color:Trim:	
Registration Number: Name:	
Length:Other pertinent information:	
3. Persons aboard:	
Name: Age: Address and Telephone No.	
a	
b	
C	
d	
e	
f	
f4. Do any of the persons aboard have a medical problem? YES /NO	
If so, what	
5. Propulsion:	
Type: Fuel Capacity:	
6. Survival Equipment: (check as appropriate)	
PFDsFlaresMirrorSmoke signalsFlashlightFood	
Water	
PaddlesAnchorRaft or dinghyEPIRB	
Other	
7. Radio: yes/no	
Туре:	
Frequencies:	
8. Cellular Phone: yes/no Cell PhoneNumber	
9. Trip Plan:	
Depart From:	
Departure Date:	
Departure Time:	
Destination:	
Arrival Date: Arrival 1 ime:	
If vessels has not arrived /returned by: Date:	
Call the Coast Guard or local authority at the following number(s):	

10. Remarks:

PROPELLER BLADES WARNING

Never forget the danger that boat propellers can inflict to persons in the water. Statistics indicate the most propeller injuries and fatalities involve open motorboats 16 to less than 26 feet in length, and are due to operator inattention, inexperience, and carelessness. Remember to shut off your engines when approaching swimmers. When engines are running, alert swimmers to stay clear of the stern. Propeller guards are not suitable for all types of boats. Therefore, the best and safest course of action to take when people are in water near your boat—Shut off your engines.



People in the water can be severely injured!

CARBON MONOXIDE POISONING

Carbon monoxide (CO) can harm and even kill you inside or outside your boat!

Are you aware of these facts related to CO?

- CO symptoms are similar to seasickness or alcohol intoxication?
- CO can affect you whether you're underway, moored, or anchored?
- You cannot see, smell, or tasteCO?
- CO can make you sick in seconds. In high enough concentrations, even a few breaths can be fatal?

Most important of all, did you know carbon monoxide poisonings are **preventable**? Every boater should be aware of the risks associated with carbon monoxide - what it is; where it may accumulate; and the symptoms of CO poisoning. To protect yourself, your passengers, and those around you, learn all you can about CO.

What is Carbon Monoxide?

Carbon monoxide (CO) is a colorless, odorless, and tasteless gas. It is produced when a carbon-based fuel-such as gasoline, propane, charcoal, or oil-burns. Sources on your boat may include engines, gas generators, cooking ranges, and space and waterheaters.

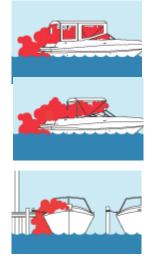
Why is it so dangerous?

Carbon monoxide (CO) enters your bloodstream through the lungs, blocking the oxygen your body needs. Prolonged exposure to low concentrations or very quick exposure to high concentrations can kill you.

Early symptoms of CO poisoning include irritated eyes, headache, nausea, weakness, and dizziness. They are often confused with seasickness or intoxication, so those affected may not receive the medical attention they need.

Altitude, certain health-related problems, and age will increase the effects of CO. Persons who smoke or are exposed to high concentrations of cigarette smoke, consume alcohol, or have lung disorders or heart problems are particularly susceptible to an increase in the effects from CO. However, anyone can be affected. Another factor to consider is that physical exertion accelerates the rate at which the blood absorbs CO.

Carbon monoxide can accumulate anywhere in or around your boat. How can it accumulate?



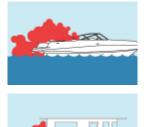
Inadequately ventilated canvas enclosures.

Exhaust gas trapped in enclosed places.

Blocked exhaust outlets.



Another vessel's exhaust. CO from the boat docked next to you can be just as deadly.



"Station wagon effect" or back drafting.

At slow speeds, while idling, or stopped. Be aware that CO can remain in or around your boat at dangerous levels even if your engine or the other boat's engine is no longerrunning!

Emergency Treatment for CO Poisoning

CO poisoning or toxicity is a life-threatening emergency that requires immediate action. The following is a list of things that should be done if CO poisoning is suspected. Proceed with caution. The victim may be in an area of high CO concentration, which means you or others could in danger from exposure to CO.

- Evaluate the situation and ventilate the area if possible.
- Evacuate the area and move affected person(s) to a fresh air environment.
- Observe the victim(s).
- Administer oxygen, if available.
- Contact medical help. If the victim is not breathing, perform rescue breathing or approved cardiopulmonary resuscitation (CPR), as appropriate, until medical help arrives. Prompt action can mean the difference between life and death.
- Shut off potential sources of CO, if possible. Correct ventilation problems and/or repair exhaust
 problems as appropriate. Investigate the source of CO and take corrective action, such as evacuating and
 ventilating the area or shutting off the source of the CO, while at the same time evacuating and
 ventilating the area.
- SEEK MEDICAL ATTENTION AS SOON AS POSSIBLE!

ALCOHOL AND BOATING

Boating While Intoxicated (BWI) is just as deadly as drinking and driving!

Did you know:

- A boat operator is likely to become impaired more quickly than a driver, drink for drink?
- The penalties for Boating Under the Influence (BUI) can include large fines, revocation of operator privileges and serious jail terms?
- The use of alcohol is involved in about a third of all recreational boating fatalities?

Every boater needs to understand the risks of boating under the influence of alcohol or drugs (BUI). It is illegal to operate a boat while under the influence of alcohol or drugs in every state. The Coast Guard also enforces a federal law that prohibits BUI. This law pertains to ALL boats (from canoes and rowboats to the largest ships) and includes foreign vessels that operate in U.S. waters, as well as U.S. vessels on the high seas.

Tips for AvoidingBUI

Boating, fishing and other water sports are fun in their own right. Alcohol can turn a great day on the water into the tragedy of a lifetime.

Consider these alternatives to using alcohol while afloat:

- Take along a variety of cool drinks, such as sodas, water, iced tea, lemonade or non-alcoholic beer.
- Bring plenty of food and snacks.
- Wear clothes that will help keep you and your passengers cool.
- Plan to limit your trip to a reasonable time to avoid fatigue. Remember that it's common to become tired more quickly on the water.
- Having no alcohol while aboard is the safest way to enjoy the water intoxicated passengers are also at
 risk of injury and falls overboard.
- Spread the word on the dangers of BUI. Many recreational boaters forget that a boat is a vehicle and that safe operation is a legal and personal responsibility.

STAYING AFLOAT

It is common belief that someone dressed in heavy clothing or waders will sink immediately if they fall overboard. This is not true. Air trapped in clothing provides considerable flotation, and bending the knees will trap air in waders, providing additional flotation. To stay afloat follow these rules:

- 1. Remain calm, do not thrash about or try to remove clothing or footwear. This leads to exhaustion and increases the loss of air that keeps you afloat.
- 2. Keep your PFD on.
- 3. Keep your knees bent.
- 4. Float on your back and paddle slowly to safety.

HYPOTHERMIA AND COLD WATER IMMERSION

Think you're a good swimmer? It may not matter if you suddenly and unexpectedly end up in the frigid waters. Every year, dozens of swimmers and boaters drown in lakes, rivers and coastal waters but it may surprise you that many victims don't die as a result of poor swimming skills or the effects of hypothermia, but from the immediate effects of cold water immersion, or cold water shock. Unlike hypothermia, the effects of cold water immersion can lead to death in just a few minutes and in some cases, instantly.

Sudden entry into the water can cause a combination of physiological responses on the human body. The shock of the cold water can produce an involuntary gasp reflex that can cause victims to inhale water and drown. After just a few minutes, the ability to swim or tread water is impaired as the victim loses muscular coordination from the cold. All of this can occur in water as warm as 69 degrees. This sudden cold-water immersion is a phenomenon that is becoming more recognized as a cause of death as compared to hypothermia. True hypothermia usually does not set in until at least 30 minutes or longer after being in the water. Variables depend on body size and type, insulation of clothing, sea conditions and other factors. Even then, victims can survive for hours before losing consciousness and drowning. The key to survival in this situation is to be prepared. So what can be done to protect you from the effects of cold water shock? Wear a personal floatation device.

Wearing a Coast Guard approved PFD is important because it keeps a person's head above the water giving them the time and ability to control their respiratory rate to avoid the potentially deadly effects of the gasp reflex. A PFD also provides some protection from the cold water and makes the wearer more visible. But PFD's are virtually useless unless they are worn at the time someone becomes immersed in cold water. Amazingly, many people are not prepared for accidental immersion in cold water by already wearing a PFD. They think that, if worst comes to worst, I'll just put it on in the water. That's a difficult enough task in warm water and calm conditions. In cold water, it's nearly impossible.

Experts say that there are other things you can do to increase your chances of survival if you do end up in the water. First, don't panic. Keep your head above the water and concentrate on breathing. If you can find a way to get out of the water, do it quickly. Be prepared; Think about what you can do to increase your chances of survival if you somehow ended up in the water. Does your vessel have a means to facilitate self-rescue? Do you have a boarding ladder or other device that can assist in your reentering the boat? How can you signal for help if you can't self-rescue? Do you have whistles on your PFD, and a personal EPIRB? Have you trained your passengers on how to respond during a man overboard or capsizing situation? The four stages of sudden coldwater immersion are:

Stage 1 -Cold Water Shock

When someone falls into cold water their first unconscious response is to take a large breath of air, called the "involuntary gasp reflex." If their face is in the water when that gasp occurs, then their chances of survival immediately diminish.

Stage 2 -Swim Failure

After one has been in cold water for 3-30 minutes, there's a continued inability to hold one's breath, loss of coordination in the arms and legs results in cramping and inability to grab onto anything. Swimming becomes increasingly difficult, and painful.

Stage 3 - Hypothermia

It usually takes between 15-30 minutes to reach this stage. The first signs are uncontrolled shivering and the person starts to become disoriented. As the body pulls blood away from the extremities toward the organs, the person usually cannot use their arms and legs for self-rescue. When severe hypothermia sets in, will eventually become unconscious. A person's normal body temperature is around 98.6 degrees F. Most people cannot survive a core body temperature below 85 degrees F.

Stage 4 -Post-Rescue Collapse

The hypothermic boater is not out of the woods after rescue. Blood pressure can drop to a dangerously low level, inhaled water can damage tissues in the lungs (dry drowning), and heart problems may develop as colder blood from the extremities is released back from the core of the body.

If your boat capsizes, it will likely float on or just below the surface. Recreational vessels built after 1978 are designed to support you even if full of water or capsized. Try to get as much of your body out of the water as possible. This will significantly reduce the effects of cold water immersion and slow the onset of hypothermia. If you can't get in the boat a PFD will enable you to keep your head out of the water. This is very important because about 50% of body heat loss is from the head.

Wear a PFD

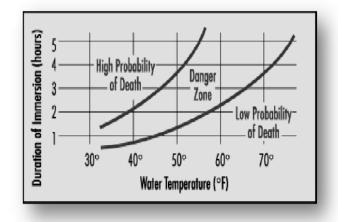
- Button up your clothing
- Cover your head if possible and enter the water slowly
- Keep your head out of the water if at all possible
- Assume the *H.E.L.P.* position

HEAT ESCAPE LESSENING POSTURE (H.E.L.P.)

Assuming the *H.E.L.P* position is only possible when wearing a flotation device. To assume the *H.E.L.P.* position: hold the inner side of your arms tightly against the sides of your chest and press your thighs together, cross your feet, and raise your knees to your chest. This technique can reduce your heat loss and increase your survival time by approximately 50 percent.



The Danger Zone indicates where safety precautions and appropriate behavior (adopting H.E.L.P) can increase your chances of survival when immersed in cold water.



EQUIPMENT REQUIREMENTS

"Coast Guard Approved Equipment" has been approved by the Commandant of the U.S. Coast Guard and has been determined to be in compliance with U.S. Coast Guard specifications and regulations relating to materials, construction, and performance. The "Equipment List" is published by the Coast Guard and contains a long listing of items approved, certified, or accepted under Marine Inspection and Navigation Laws. The latest printing was May 15, 1994. However, a current electronic edition is available for searches at http://cgmix.uscg.mil/equipment. Individuals may download specific sections from that site.

PERSONAL FLOTATION DEVICES (PFDs)

Personal flotation devices are the most important pieces of safety equipment that all boaters must have on board their vessels. All recreational boats must carry one wearable PFD (Type I, II, III or V PFD) for each person aboard. A Type V PFD provides performance of a Type I, II, or III PFD (as marked on its label) and must be used according to the label requirements. Any boat 16 feet and longer (except canoes and kayaks) must also carry one throwable PFD (Type IV PFD).

PFDs must be:

- 1. Coast Guard approved,
- 2. In good and serviceable condition, and
- 3. The appropriate size for the intended user.

Accessibility:

- 1. Wearable PFDs must be readily accessible.
- 2. You must be able to put them on in a reasonable amount of time in an emergency (vessel sinking, on fire, etc.).
- 3. They should not be stowed in plastic bags, in locked or closed compartments or have other gear stowed on top of them.
- 4. The best PFD is the one you will wear.
- 5. Though not required, a PFD should be worn at all times when the vessel is underway. A wearable PFD may save your life, but only if you wear it.
- 6. Throwable devices must be immediately available for use.

Many states *require* the wearing of life jackets for certain age groups (e.g. children), or when engaged in certain types of activities such as water skiing, operating personal watercraft, white water boating activities, or sail boarding. Check with your state boating safety officials. As of January 2003, federal law requires that children under 13 years old aboard recreational vessels to wear Coast Guard approved personal flotation devices while the vessel is underway, unless the children are below decks or in an enclosed cabin. In states that already have an existing law that requires children to wear PFDs on board recreational boats; the Coast Guard will enforce the provisions of the state law within the waters of that particular state.

PFD Flotation

There are three basic kinds of PFD flotation in the five types of PFDs with the following characteristics:

- 1. <u>Inherently Buoyant (primarily foam)</u>:
 - a. The most reliable.
 - b. Adult, Youth, Child, and Infant sizes.
 - c. For swimmers and non-swimmers.
 - d. Wearable and throwable styles.

Minimum Buoyancy - Inherently Buoyant			
Wearable Size	Туре	Inherent Buoyancy (Foam)	
Adult	Ι	22 lb	
	II & III	15.5 lb	
	V	15.5 to 22 lb	
Youth	II & III	11 lb	
	V	11 to 15.5 lb	
Child and Infant	II	7 lb	
Throwable			
Cushion	IV	20 lb	
Ring Buoy	IV	16.5 to 32 lb	

2. Inflatable

- a. The most compact and may be more comfortable to wear.
- b. Some with the best in-water performance (see next page for more details).
- c. Inflatable PFDs require the user to pay careful attention to the condition of the device.
- d. Inflatable PFDs must have a full cylinder and all status indicators on the inflator must be green, or the device is NOT serviceable, and does NOT satisfy the requirement to carry PFDs.
- e. Coast Guard Approved Inflatable PFDs are authorized only on recreational boats by a person at least 16 years of age.
- f. Sizes only for adults 16 years of age and older.
- g. Not recommended for white water or high speed sports.
- h. Wearable styles only.

Minimum Buoyancy - Inflatable Buoyant

	innun Buoyancy innau	ibie Duoyani
Wearable Size	Туре	Inflatable Buoyancy
Adult	I & II	34 lb
	III	22.5 lb
	V	22.5to 34 lb

3. <u>Hybrid (Foam and Inflation)</u>

- a. Reliable.
- b. Adult, Youth, and Childsizes.
- c. For swimmers & non-swimmers.
- d. Wearable styles only.
- e. Some designed for water sports.

Hybrid Buoyancy				
Wearable SizeTypeInherent BuoyancyInflated Total				
Buoyancy				
Adult	II & III	10 lb	22 lb	
	V	7.5 lb	22 lb	
Youth	II & III	9 lb	15 lb	
	V	7.5 lb	15 lb	
Child	II	7 lb	12 lb	

Types of PFDs

A TYPE I PFD, or OFF-SHORE LIFE JACKET provides the most buoyancy. It is effective for all waters, especially open, rough or remote waters where rescue may be delayed. It is designed to turn most unconscious wearers in the water to a face-up position.

A TYPE II PFD, or NEAR-SHORE BUOYANCY VEST is intended for calm, inland water or where there is a good chance of quick rescue. Type II, inherently buoyant PFDs will turn *some* unconscious wearers to a face-up position in the water, but the turning is not as pronounced as a Type I. Type II Inflatable PFDs will turn an unconscious person to the face-up position as well as a Type I foam PFD.

A TYPE III PFD, or FLOTATION AID is good for conscious users in calm, inland water, or where there is a good chance of quick rescue. It is designed so wearers can place themselves in a face-up position in the water. The wearer may have to tilt their head back to avoid turning face down in the water. The Type III Inherently buoyant foam vest has the same minimum buoyancy as a Type II Inherently buoyant PFD. Type III PFDs come in many styles, colors, and sizes and are generally the most comfortable type for continuous wear. Float coats, fishing vests, and vests designed with features suitable for various sports activities are examples of Type III PFDs. Type III PFDs turn as well as a Type II Inherently buoyant (foam) PFDs.

A TYPE IV PFD, or THROWABLE DEVICE is intended for calm, inland water with heavy boat traffic, where help is always present. It is designed to be thrown to a person in the water and grasped and held by the user until rescued -- It is *not* designed to be worn. Type IV devices include buoyant cushions, ring buoys, and horseshoe buoys. There are no inflatable Type IV devices.

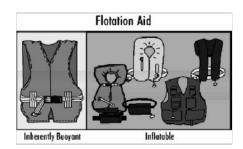
Special Use Device



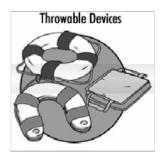
A TYPE V PFD, or SPECIAL USE DEVICE is intended for specific activities and may be carried instead of another PFD only if used according to the approval condition(s) on its label. A Type V PFD provides performance of either a Type I, II, or III PFD (as marked on its label). If the label says the PFD is "approved only when worn" the PFD must be worn, except for persons in enclosed spaces and used in accordance with the approval label, to meet carriage requirements. Some Type V devices provide significant hypothermia protection. Varieties include deck suits, work vests, and board sailing vests.



Inherently Buoyant

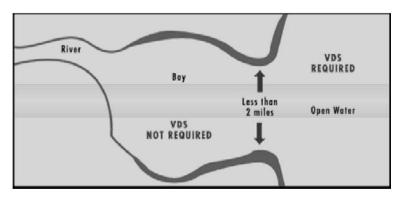


Inflatable



VISUAL DISTRESS SIGNALS (VDS)

All recreational boats, when used on coastal waters, the Great Lakes, territorial seas, and those waters connected directly to the Great Lakes and the territorial seas, up to a point where a body of water is less than two miles wide, must be equipped with Coast Guard Approved Visual Distress Signals (see Chapter I for more information). Recreational boats under 16 feet in length, open sailboats not equipped with propulsion machinery and less than 26 feet in length, and manually propelled boats are exempt from daytime signals. However, the vessels listed above must carry night signals if operating at night. All other recreational boats must carry both night and day signaling devices. If you choose to use pyrotechnic devices, a minimum of three day and three night signals are required. If you choose to use non-pyrotechnic devices as your VDS, only one day signal and one night signal is required.



Pyrotechnic Devices

- 1. Pyrotechnic Visual Distress Signals must be Coast Guard Approved, in serviceable condition, and readily accessible.
 - a. They are marked with an expiration date. Expired signals may be carried as extra equipment, but can not be counted toward meeting the visual distress signal requirement, since they may be unreliable.
 - b. Launchers manufactured before January 1, 1981, intended for use with approved signals, are not required to be Coast Guard Approved.
 - c. If pyrotechnic devices are used, a minimum of three are required. That is, three signals for day use and three signals for night. Some pyrotechnic signals meet both day and night use requirements.
 - d. Pyrotechnic devices should be stored in a cool, dry location, if possible.
 - e. A watertight container painted red or orange and prominently marked "DISTRESS SIGNALS" or "FLARES" is recommended.
- 2. U. S. Coast Guard Approved Pyrotechnic Visual Distress Signals and associated devices include:
 - a. Pyrotechnic red flares, hand-held or aerial.
 - b. Pyrotechnic orange smoke, hand-held or floating.
 - c. Launchers for aerial red meteors or parachute flares.

NOTE: Each of these devices has a different operating (burning) time. Check the label to see how long each pyrotechnic device will actually be illuminated. This will allow you to select a warning device better suited to the conditions where your boat will operate.

Non-Pyrotechnic Devices

Non-Pyrotechnic Visual Distress Signals must be in serviceable condition, readily accessible, and certified by the manufacturer as complying with Coast Guard requirements. They include:

- 1. Orange distress flag
 - a. Day signal only.
 - b. Must be at least 3 x 3 feet with a black square and ball on an orange background.
 - c. Must be marked with an indication that it meets Coast Guard requirements in 46 CFR 160.072.
 - d. Most distinctive when attached and waved on a paddle, boathook, or flown from a mast.
 - e. May also be incorporated as part of devices designed to attract attention in an emergency, such as balloons, kites, or floating streamers.
- 2. Electric distress light
 - a. Accepted for night use only
 - b. Automatically flashes the international SOS distress signal (... --- ...).
 - c. Must be marked with an indication that it meets Coast Guard requirements in 46 CFR 161.013.

Regulations prohibit display of VDS on the water under any circumstances except when assistance is required to prevent immediate or potential danger to persons on board a vessel.

All distress signals have distinct advantages and disadvantages. No single device is ideal under all conditions or suitable for all purposes. Pyrotechnics are universally recognized as excellent distress signals. However, there is potential for injury and property damage if not properly handled. These devices produce a very hot flame and the residue can cause burns and ignite flammable materials.

Pistol launched and hand-held parachute flares and meteors have many characteristics of a firearm and must be handled with caution. In some states they are considered a firearm and prohibited from use.

The following are just a few of the variety and combination of devices which can be carried in order to meet the requirements:

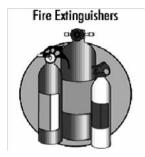
- 1. Three hand-held red flares (dayand night).
- 2. One hand-held red flare (day and night) and two parachute flares (day and night).
- 3. One hand-held orange smoke signal (day), two floating orange smoke signals (day) and one electric distress light (night).

All boaters should be able to signal for help. Boaters must have current dated USCG approved day and night signals for all boats operating on coastal and open bodies of water.

FIRE EXTINGUISHERS

Fire on a boat is one of a skipper's greatest fears and one of the major causes of damage to boats. For protection, all boats *should* carry readily accessible approved fire extinguishers. Coast Guard Approved fire extinguishers are *required* on boats where a fire hazard could be expected from the motors or the fuel system. Extinguishers are classified by a letter and number symbol. The letter indicates the type of fire the unit is designed to extinguish (Type B, for example, are designed to extinguish flammable liquids such as gasoline, oil and grease fires). The number indicates the relative size of the extinguisher. The higher the number, the larger the extinguisher.

Coast Guard approved extinguishers required for boats are hand portable, either B-I or B-II classification and have a specific marine type mounting bracket. The special bracket is required to securely hold the extinguisher in a moving boat. It is recommended the extinguishers be mounted in a readily accessible position, away from the areas where a fire could likely start such as the galley or the engine compartment.



Extinguisher markings can be confusing because extinguishers can be approved for several different types of hazards. For instance, an extinguisher marked "Type A, Size II, Type B: C, Size I" is a B-I extinguisher.

Look for the part of the label that says "Marine Type USCG". Make sure Type B is indicated

Portable extinguishers will be either size I or II. Size III and larger are too big for use on most recreational boats.

	Foam	CO ₂	Dry Chemical	Halon
Class	(Gals)	(lbs)	(lbs)	(lbs)
B-I (Type B, Size I)	1.25	4	2	2.5
B-II (Type B, Size II)	2.5	15	10	10

Fire extinguishers are required on boats if any of the following conditions exist:

- 1. Inboard engines are installed.
- 2. There are closed compartments and compartments under seats where portable fuel tanks may be stored.
- 3. There are double bottoms not sealed to the hull or which are not completely filled with flotation materials.
- 4. There are closed living spaces.
- 5. There are closed stowage compartments in which combustible or flammable materials are stored.

6. There are permanently installed fuel tanks. (Fuel tanks secured so they cannot be moved in case of fire or other emergencies are considered permanently installed. There are no gallon capacity limits to determine if a fuel tank is portable. If the weight of a fuel tank is such that persons on board cannot move it, the Coast Guard considers it permanently installed.)

Fire Extinguisher Maintenance

Inspect extinguishers monthly to make sure that:

- 1. Seals and tamper indicators are not broken or missing.
- 2. Pressure gauges or indicators read in the operable range. (NOTE: CO₂ extinguishers do not have gauges.)
- 3. There is no obvious physical damage, corrosion, leakage or clogged nozzles.
- 4. Weigh extinguishers annually to assure that the minimum weight is as stated on the extinguisher label.

Fire extinguishers that do not satisfy the above requirements or that have been partially emptied must be replaced or taken to a qualified fire extinguisher servicing company for recharge.

Required Number of Fire Extinguishers

The number of fire extinguishers required on a recreational boat is based on the overall length of the boat. The following chart lists the number of extinguishers that are required. In the case where a Coast Guard approved preengineered fire extinguishing system is installed for the protection of the engine compartment, the required number of units may be reduced in accordance with the chart.

Minimum number of hand portable fire extinguishers required:		
Vessel Length	No Fixed System	With Approved Fixed Systems
Less than 26'	1 B-1	0
26' to less than 40'	2 B-1 or 1 B-II	1 B-I
40' to 65'	3 B-I or 1 B-II and 1 B-I	2 B-1 or 1 B-II

Approved extinguishers must be inspected and tagged by a recognized fire extinguisher servicing company within one (1) year of the examination, to be credited as one of the required fire extinguishers. The pressure gauge alone is not an accurate indicator that Halon extinguishers are full. The weight of the units should be checked regularly. It is recommended that portable extinguishers be mounted in a readily accessible position.

BACKFIRE FLAME ARRESTORS (BFA)

Gasoline engines installed in a vessel after April 25, 1940, except outboard motors, must be equipped with an acceptable means of backfire flame control. The device must be suitably attached to the air intake with a flame tight connection and is required to be Coast Guard approved or comply with SAE J-1928 or UL 1111 standards and marked accordingly.

SOUND PRODUCING DEVICES

The navigation rules require sound signals to be made under certain circumstances. Meeting, crossing and overtaking situations described in the Navigation Rules section are examples of when sound signals are required. Recreational vessels are also required to sound signals during periods of reduced visibility.

Vessels 39.4 feet/12 meters or more in length are required to carry on board a whistle or horn, and a bell. Any vessel less than 39.4 feet/12 meters in length may carry a whistle or horn, or some other means to make an efficient sound signal to signal your intentions and to signal your position in periods of reduced visibility.

Therefore, any vessel less than 39.4 feet/12 meters in length is required to make an efficient sound signal to signal intention and to signal your position in periods of reduced visibility.

Vessel Operators are required to carry some type of horn or whistle capable of a 4 second blast audible for 1/2 mile for all boats. (Athletic whistles are not acceptable on boats over 39.4 feet/12 meters.)

MARINE SANITATION DEVICES (MSD)

All recreational boats with installed toilet facilities must have an operable marine sanitation device (MSD) on board. Vessels 65 feet and under must use either a Type I, II or III MSD. Vessels over 65 feet must install a Type II or III MSD. All installed MSDs must be Coast Guard certified. Coast Guard certified devices are so labeled, except for some holding tanks, which are certified by definition under the regulations.

When operating a vessel on a body of water where the discharge of treated or untreated sewage is prohibited the operator must secure the device in a manner that prevents any discharge. Some acceptable methods are: padlocking overboard discharge valves in the closed position, using non-releasable wire tie to hold overboard discharge valves in the closed position, closing overboard discharge values and removing the handle, locking the door, with padlock or key lock, to the space enclosing the toilets (for Type I and Type II only).

Two types of MSDs treat the sewage, those being Type I and Type II chemical flow-through devices. Type III MSDs are holding tanks which are designed to prevent the overboard discharge of treated or untreated sewage.

The Coast Guard does not have specific capacity standards for all vessels. When you are selecting equipment, be sure to choose a system with adequate capacity for your needs. Look at the maximum number of persons that will be on board, including guests, and select accordingly. When choosing retention or recirculating devices, be sure to provide sufficient capacity between pump outs for your cruising needs. Remember, a little planning before you invest in a MSD can result in years of trouble-free, safe operation, and you can take pride in your contribution to protecting the quality of the Nation's waters for future generations.

EMERGENCY POSITION INDICATING RADIOBEACON (EPIRB)

For vessels that operate offshore an EPIRB is a very useful piece of survival gear that has saved many lives in the Pacific in recent years. An EPIRB emits a radio signal at 406 MHz. that can be used by aircraft and vessels to locate mariners in distress.

Satellite EPIRBs, operate as part of a worldwide distress system. An international satellite constellation maintains a vigilant, global "listening" watch for satellite EPIRB distress signals. The National Oceanic and Atmospheric Administration (NOAA) operates satellites, ground stations, and an alert distribution system serving the U.S. and a wide segment of the international community.

When activated, the satellite EPIRB transmits a distress signal with a beacon-unique identifying code. The system detects the signal, calculates an accurate distress position, checks the unique identifying code against the EPIRB registration database (vessel and point of contact information supplied by the owner) and routes the distress alert with registration information to the responsible Coast Guard (or international) Rescue Coordination Center (RCC). 406 MHz EPIRBs with GPS (internal or attached) also provide an immediate GPS position in the information passed to the RCC.

Geo-stationary satellites make detection almost immediate. If the EPIRB does not have the ability to provide a GPS position, the process to determine a position takes about an hour on average and almost always less than two hours.

Satellite EPIRBs also include a homing beacon and strobe to help rescue forces and quickly locate the distress scene.

Satellite beacons have significant coverage, alerting timeliness, position accuracy, and signaling advantages. Before purchasing or using other-than-406MHz EPIRB, be sure you understand its capabilities and limitations.

Mount either EPIRB to float free according to the manufacturer's instructions, if possible. Otherwise, make sure it is readily accessible. Register the EPIRB with NOAA, according to the instructions provided with the beacon. **Registration is mandatory** (see Chapter IX), because it improves SAR response, and reduces false alarms. For more information on how to register your EPIRB, call 1 (301) 457-5678 or go to the following website: http://www.sarsat.noaa.gov/beacon.html.

Mariners are advised that as of January 1, 2007 the operation of Class A, B, and S EPIRBs (Emergency Position Indicating Radio Beacons) is PROHIBITED. Refer to 47 CFR Parts 80.1051 through 80.1059. These FCC regulations apply to EPIRBs that transmit a distress signal to satellites on the 121.5 / 243 MHz frequencies. EPIRB owners must check the class or type of their beacons carefully, since both the illegal 121.5 MHz EPIRBs and the authorized 406 MHz EPIRBs contain a 121.5 MHz homing signal which is used for direction finding purposes. Also, 121.5 MHz Man Overboard Devices are not affected by these FCC regulations and are still legal for use.

ADDITIONAL RECOMMENDED EQUIPMENT

Besides meeting the legal requirements, prudent boaters should carry additional safety equipment. The following additional items of equipment are suggested depending on the size, location, and use of your boat. Some of these items may be required aboard certain vessels.

VHF Radio	First Aid Kit	Bailer	Cell Phone
GPS	Fenders	Binoculars	Food & Water
Charts & Compass	Flashlight	Sun Screen & Sunglasses	Spare Parts
Visual Distress Signals	Tool Kit	Boat Hook	Paddles
Anchor and line	Flashlight	Ring Buoy	AM/FM Radio
Spare Anchor	Mirror	Extra Fuel	Extra Line

REGATTAS AND MARINE EVENTS

Whenever an organized marine event or regatta is anticipated, a Marine Event Permit Application must be submitted to the appropriate State Office or Coast Guard Sector at least 135 days in advance of the requested event day. This online form is automatically forwarded to the Coast Guard Sector having authority in the area your event is being held. <u>https://homeport.uscg.mil/Pages/MarineEventFormSubmission.aspx</u>. You will be notified if your event does not meet federal permitting requirements and it will be up to you to contact the local state authority to comply with local and or state regulations. Many types of events now require that documentation of the environmental impact of the event be completed before a permit can be issued. Contact the nearest Coast Guard Sector if you have any questions. A chart or scale drawing indicating the course that participants will navigate, markers, turning buoys, and any other factors that may affect the passage of any nonparticipating vessels and/or spectators, must accompany the application. Applications will be reviewed and a Marine Event Permit will be issued provided that the required information was included for evaluation and no undue safety hazard would be imposed on any other vessel and/or spectators, or impede the safe passage of non- participants. For further information please call the following State Agencies or the Coast Guard Sector nearest you listed below:

<u>Oregon</u>	<u>Idaho</u>	<u>Montana</u>
Oregon State Marine Board	Department of Parks & Recreation	Montana Fish & Wildlife & Parks
P.O. Box 14145	Boating Program	Law Enforcement Division
Salem, OR 97310	PO Box 83720	PO Box 200701
(503) 378-8587	Boise, ID 83720	Helena, MT 59620
	(208) 334-4199	(406) 444-2452
U.S. Coast Guard Sectors		
Puget Sound	<u>Columbia River</u>	
Seattle (206) 217-6051	Portland (503) 240-9319	

AQUATIC INVASIVE SPECIES

Aquatic invasive species both plant and animal pose a serious threat to the biological diversity of coastal waters the world over. With improvements in travel technology, the rate of introductions of nonnative species has increased dramatically.

It is important to remember that humans have carried plants, animals, and disease with them since they first began to travel. Most of the plants and animals were considered necessary or beneficial. This includes everything from food crops like soybeans and wheat, cattle, horses, pigs, fish and shellfish, to pets and decorative garden plants.

Many other organisms have been spread to various parts of the world unintentionally. They arrive in the ballast water of ships, packing materials, wood used for pallets, soil, or as hitchhikers on other plants and animals.

Once nonnative species become established in a new environment where natural enemies, pests, or disease that kept them in check in their native environment are missing, they may spread rapidly and cause unanticipated negative biological and economic impacts. There are numerous examples of the impacts of aquatic invasive species in both marine and freshwater environments. One of the most well-known species is the zebra mussel (*Dreissena polymorpha*). The zebra mussel has caused extensive economic and ecological damage since arriving in the Great Lakes, and is rapidly spreading throughout North America

Aquatic nuisance species reach the Pacific Northwest through various routes or pathways. Some of these are natural, as when species from southern waters travel north with the warmer ocean waters during *el Nino* years. Other routes are man-assisted, such as the release of east coast lobsters into Puget Sound. Successful introductions of species, where the new plants or animals thrive and reproduce, are not always predictable and, depending on many variables, may result from the release of small as well as large numbers of a particular non-native species.

Each of us has the most control over the pathways of ANS which introduce small numbers of animals or plants. Examples of these pathways include: the release of aquarium or terrarium pets (including plants), the release or escape of organisms being used in research or education, the release or improper disposal of live seafood and it's packing materials, the spread of aquatic plants or animals from one water body to another on a boat or boat trailer, and the release of unused bait into the water. Even these small numbers of non-native species released into a hospitable environment may thrive and spread. The dense beds of Eurasian milfoil plants in many lakes in the region provide an example of the potential for explosive spread of ANS which were introduced in very small numbers.

You may have wondered how best to deal with a pet fish, turtle or aquarium plant which you no longer could or wanted to keep. Although releasing the plant or animal to the wild may seem to be the most humane thing you could do, it often is not. Species released to new environments may face harsh environmental conditions, may be exposed to diseases or parasites for which they have no natural defenses and may face intense predation. On the other hand, these species, as all non-native species, may bring new diseases and parasites into the area where they are released. Furthermore, released species may thrive, and drastically change the natural ecology of the area where they are released - preying upon or out-competing native species.

Identification

There are dozens of aquatic nuisance species that can harm waterways. But there are three that are considered among the most threatening. Learn to recognize these organisms. If you find one or suspect there may be a new infestation, report it. Call the Aquatic Nuisance Species Hotline at 1-877-STOP-ANS (1-877-786-7267).



Hydrilla

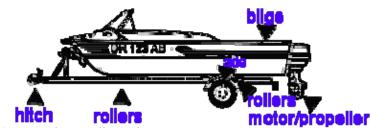
Prevention

Finished boating and ready to head out? Here's what you can do to prevent spreading aquatic nuisance species.

Inspect your boat and trailer, especially at these points. Remove any plants and animals you see before leaving the waterbody.

Drain your motor, wet well, and bilge on land before leaving the waterbody.

Empty your bait bucket on land before leaving the waterbody. Never equipment. It is best to use highrelease live bait into a waterbody, or release aquatic animals from one waterbody into another.



Rinse your boat, trailer, and pressure, hot water. A garden hose will work if no other option is available.

Air dry your boat and equipment for as long as possible. Five days is optimal.

As a general practice, following this checklist after each time you use your boat will prevent the spread of most aquatic nuisance species. Check out our identification page to learn what some aquatic nuisance species look like.

Seafood users: Don't release live seafood or haphazardly discard its packing material. These packing materials, which may include non-native seaweed, may harbor numerous small non-native animals.

Fishers: If you use bait that is not native to Washington, put the bait and its packaging into the trash when you are done fishing instead of releasing it into the water.

Educators and researchers: Take precautions to keep non-indigenous species contained or quarantined and dispose of them properly. A permit should be requested from the Washington Department of Fish and Wildlife before any non-native animal is brought into the state.

In addition to the small releases described above, ballast water and aquaculture are potential sources of ANS. Ballast waters are large volumes of water pumped into and out of ships to maintain their stability as their cargo or sea conditions change. Vast numbers of ANS may be released to our waters at one time through the discharge of ballast water.

CHAPTER V

U.S. COAST GUARD AUXILIARY

BOATING EDUCATION

The Coast Guard Auxiliary offers courses in boating safety and seamanship to the public. The courses are taught by experienced Coast Guard Auxiliarists. The cost of materials and textbooks is usually the only cost involved. The courses offered include:

- 1. BOATING FUN: 1-hour course, for kindergarten to third grade.
- 2. WAYPOINTS: 1 to 3-hour course, for 4th through 6th graders.
- 3. BOATING SKILLS AND SEAMANSHIP: 8 session course.
- 4. SAILING SKILLS & SEAMANSHIP: 8 to 13 session course.
- 5. HOW TO READ A NAUTICAL CHART: 3-hour course.
- 6. WEEKEND NAVIGATOR: Basic navigation using GPS; navigation using charts, plotting tools and dead reckoning. Five 2-hour classes.
- 7. SUDDENLY IN COMMAND: 4-hour course.
- 8. ABOUT BOATING SAFELY (ABS): Computer aided course purchased on the internet. <u>www.cgaux.org</u> as well as the 8-hour classroom course which is widely available.
- 9. GPS FOR MARINERS: 4-6 hour course, basic introduction to the GPS.
- 10. PERSONAL WATERCRAFT SAFETY (PWC): 1 to 2 hour session course.
- 11. PADDLESPORTS AMERICA: 4-hourcourse.
- 12. SEAMANSHIP SEMINARY SERIES (SSS): e-Book seminars based on BS&S course.

Local Flotillas of the Coast Guard Auxiliary schedule a variety of boating safety courses throughout the year. For information on classes in your area, please contact your local Auxiliary Flotilla, or visit the Auxiliary's Boating Safety Education webpage at http://cgaux.org. Additional information is also available from Boat U.S. at https://www.boatus.org/.

VESSEL SAFETY CHECKS (VSC)

To determine if your recreational motorboat or sailboat meets Federal and State requirements, as well as recommended safety standards, contact a member of the Coast Guard Auxiliary for a free Vessel Safety Check (VSC). A decal is awarded to boats that pass the examination. If your boat does not have the proper equipment, no report is made to a law enforcement agency. The Auxiliary examiner will advise you of the deficiencies so that you can correct them.

A vessel must meet the following Coast Guard Auxiliary standards for award of the VSC decal:

- 1. **Numbering:** The boat's registration number must be permanently attached to each side of the forward half of the boat. They must be plain, vertical, block style characters, not less than three (3) inches high, and in a color contrasting with the background. A space or hyphen must separate the letters from the numbers. Place state validation stickers according to state policy. (e.g. WA 1234 AB or WA-1234-AB)
- 2. **Registration/Documentation:** Registration or documentation papers must be on board and available. Documentation numbers must be permanently marked on a visible part of the interior structure. The documented boat's name and hailing port must be displayed on the exterior hull in letters not less than 4 inches in height.
- 3. **Personal Flotation Devices (PFDs):** Acceptable PFDs (also known as Life Jackets) must be U.S. Coast Guard approved and in good, serviceable condition. A wearable PFD of suitable size is required for each person on the boat. Children must have properly fitted PFDs designed for children. Wearable PFDs shall be "readily accessible." Boats 16 feet or longer, must also have one Type IV (throwable) device, which shall be "immediately available". PFDs shall not be stored in an unopened plastic packaging. For Personal Watercraft riders, the PFD must be worn. An impact rating is recommended, but not required.

- 4. Visual Distress Signals (VDS): Recreational boats 16 feet and over used on coastal waters or the Great Lakes are required to carry a minimum of either 1) three day and three night pyrotechnic devices; 2) one day non-pyrotechnic device (flag) and one night non-pyrotechnic device (auto SOS light); or 3) a combination of 1) and 2). Recreational boats less than 16 feet on coastal waters or the Great Lakes need only carry night visual distress signals when operating from sunset to sunrise. It is recommended, but not required, that boats operating on inland waters should have some means of making a suitable day and night distress signal. The number and type of signals is best judged by considering conditions under which the boat will be operating.
- 5. Fire Extinguishers: Fire extinguishers are required if one of the following conditions exists:
 - a. Inboard engines(s);
 - b. Double bottom hulls not completely sealed or not completely filled with flotation materials;
 - c. Closed living space;
 - d. Closed stowage compartments that contain flammable materials or
 - e. Permanently installed fuel tanks.
 - NOTE: Fire extinguishers must be readily accessible and verified as serviceable.

Boats less than 26' need one B-1 with no fixed system, 0 with fixed system.

26' to less than 40' need two B-1s or one B-2 with no fixed system and one B-1 with a fixed system. 40' to 65' need three B-1s or one B-1 and one B-2 with no fixed system and two B-1s or one B-2 with a fixed system. Recreational boats less than 26 feet and propelled by outboard motors are not required to have fire extinguishers unless one or more the conditions (b-e) listed above applies

- 6. Ventilation: Boats with gasoline engines in closed compartments, built after 1 August 1980 must have a powered ventilation system. Those built prior to that date must have natural or powered ventilation. Boats with closed fuel tank compartments built after 1 August 1978 must meet requirements by displaying a "certificate of compliance." Boats built before that date must have either natural or powered ventilation in the fuel tank compartment.
- 7. **Backfire Flame Arrester:** All gasoline powered inboard/outboard or inboard motor boats must be equipped with an approved backfire flame control device.
- 8. **Sound Producing Devices:** To comply with Navigation Rules and for distress signaling purposes, all sounds signals must be audible for ½ mile. Boats larger than 39.4 feet are also required to have a bell (see Navigation Rules).
- 9. **Navigation Lights:** All boats must be able to display navigation lights between sunset and sunrise and in conditions of reduced visibility. Boats 16 feet or more in length must have properly installed, working navigation lights and an all-around anchor light capable of being lit independently from the red/green/white "running" lights.
- 10. **Pollution Placards (Oily Waste Discharge):** Boats 26 feet and over, with a machinery compartment, must display an oily waste "pollution" placard.
- 11. MARPOL Trash Placard (Garbage Dumping Restrictions): Boats 26 feet and over in length, operating in U.S. navigable waters, must display a "MARPOL" trash placard. Oceangoing boats 40 feet and over must also have a written trash disposal plan available onboard.
- 12. **Marine Sanitation Devises (MSDs):** Any installed toilet must be a Coast Guard approved device. Overboard discharge outlets must be capable of being sealed. Vessels 65 feet and under must have either a type I, II, or III MSD. Vessels over 65 feet must have either a type II or III MSD.
- 13. Navigation Rules: A current copy of the Navigation Rules and Regulations Handbook must be carried onboard any vessel 39.4 feet and over while operating on inland waters.
- 14. **State Requirements:** State equipment requirements that pertain to basic safety and exceed standard VSC requirements will be also be checked by the Auxiliary vessel examiner and must be met before a VSC decal can be awarded.
- 15. **General Condition:** Also known as "seaworthiness". The boat must be free from fire hazards, in good overall condition with the bilges reasonably clean and the visible hull and structure generally sound. The maximum passenger capacity and horsepower must not be exceeded.
 - a. **Galley Equipment:** Appliances and their fuel tanks must be properly secured, and the system must not leak. There must be no flammable material in the vicinity of stoves or heaters. Adequate ventilation must be provided for appliances and their fuel supply. Appliance fuel shut off valves must be readily accessible. Only common appliance fuel may be used on vessels. Gasoline, naphtha, and benzene are not allowed due to their highly volatile nature.

b. Electrical: Wiring must be in good condition and properly installed. No exposed areas or deteriorated insulation is permitted. The electrical system must be protected by fuses or manual resetting circuit breakers. Switches and fuse panels must be protected from rain or spray. Batteries must be secured to prevent movement and the terminals covered to prevent accidental arcing. If installed, self-circling or kill switch mechanisms must be in proper workingorder. All PWCs require an operating self-circling or kill switch mechanism.

In addition to the preceding requirements, the Auxiliary also recommends the following to receive a VSC Decal:

- 1. **Fuel Systems:** Portable fuel tanks (7 gallon capacity or less) must be constructed of sturdy non-breakable material and in good condition. Tanks shall be free of excessive corrosion and must not leak. Vents must be capable of being closed and the tank must have a vapor-tight, leak-proof cap. All tanks must be properly secured in the boat to prevent excessive movement. Permanent fuel tanks (over 7 gallon capacity) and fuel lines must be free of excessive corrosion and not leak. Fuel tanks must be secured and grounded. The fuel fill pipe must be tightly fitted to the fill plate and located outside the hull, where any spilled fuel will be directed overboard. A vent terminating outboard of the hull and compartments must lead to each permanent fuel tank.
- 2. Anchor and Anchor Line: The boat should be equipped with an adequate anchor and a line of suitable size and length for locality.
- 3. Alternate Propulsion: All boats less than 16 feet in length should carry a second method of propulsion (i.e.: paddle, oar, etc.). If an alternate means of mechanical propulsion is carried, it must use separate fuel and starting source from the main propulsion motor.
- 4. **Dewatering Device**: All boats should carry at least one effective manual dewatering device. This requirement is in addition to any installed electrical bilge pump that the vessel may have on board.

To request a Vessel Safety Check, contact your local Coast Guard Auxiliary Flotilla. Go to the website: <u>http://cgaux.org/vsc/</u> and identify the location of your vessel.

RECREATIONAL BOATING SAFETY VISITATION PROGRAM

The Coast Guard and Coast Guard Auxiliary have a community outreach effort called the Recreational Boating Safety Visitation Program. Its purpose is to promote recreational boating safety with the assistance of marinas, marine dealers, sporting goods stores, vessel rentals or rental facilities and other businesses who desire to promote boating safety. A qualified Auxiliarist, termed a "Program Visitor", establishes a relationship with a partner through regular visits to distribute free recreational boating safety and environmental protection information, provide updates on boating regulations, and promote vessel safety checks, paddle craft safety and boating safety public education courses and schedules. The Program Visitor also provides the participating partner with a literature rack to display the boating-related brochures and pamphlets for customers. Advantages of partners are as follows:

- 1. A direct link to the Coast Guard through the Coast Guard Auxiliary Program Visitor.
- 2. Assistance with special events and promotions, e.g. National Safe Boating Week, opening days, seminars and life jacket exchanges.
- 3. A public service image enhanced by being able to advise customers on such subjects as required equipment and safe boating techniques.
- 4. An attractive display of Recreational Boating Safety and environmental protection literature to offer customers.
- 5. The opportunity to attract customers by providing space for Auxiliary and U.S. Power Squadron recreational boating safety classes and vessel safety checks on the premises.
- 6. The stimulation of safety equipment sales by promoting Auxiliary and U.S. Power Squadron vessel safety checks.
- 7. The satisfaction of cooperating in a promotion aimed at saving lives. The partner establishes a "Public Service/ Boating Safety" image.

COAST GUARD AUXILIARY MEMBERSHIP INFORMATION

The Auxiliary is the all-volunteer arm of the United States Coast Guard. USCG Auxiliary members demonstrate their interests in safety on and near America's waterways by teaching safe boating courses, conducting free vessel safety checks, performing a wide array of marine safety-related services, and providing operational patrols underway for the Coast Guard. Auxiliarists further demonstrate their dedication to homeland security by volunteering support to Coast Guard Units and Commands of the Thirteenth Coast Guard District. For further information on the Auxiliary and its programs, contact your local flotilla using the District 13 USCGAUX web site: http://a130.wow.uscgaux.info/ or contact the Coast Guard District, Jackson Federal Bldg., 915 Second Avenue, Ste. 3498, Seattle, WA 98174-1067.

CHAPTER VI

AIDS TO NAVIGATION

CAUTION TO BE USED IN RELIANCE UPON AIDS TO NAVIGATION

The aids to navigation depicted on charts comprise a system of fixed and floating aids that have varying degrees of reliability. Therefore, prudent mariners will not rely solely on any single aid to navigation, particularly a floating aid. With respect to buoys, the buoy symbol is used to indicate the approximate position of the buoy body and sinker, which secures the buoy to the seabed. The approximate position is used because of practical limitations in positioning and maintaining buoys and their sinkers in precise geographical locations. These limitations include, but are not limited to, inherent imprecision in position fixing methods, prevailing atmospheric and sea conditions, the slope and the material making up the seabed, the fact that the buoys are moored to sinkers by varying lengths of chain, and the fact that buoy body and/or sinker positions are not under continuous surveillance but are normally checked only during periodic maintenance visits which occur more than a year apart. Due to the forces of nature, the position of the buoy body can be expected to shift inside and outside the charting symbol. The mariner is also cautioned that buoys are liable to be carried away, shifted, capsized, sunk, etc. Lighted buoys may be extinguished or sound signals may not function as the result of ice, running ice or other natural causes, collisions, or other accidents. For the preceding reasons, a prudent mariner must not rely solely upon the position or operation of floating aids to navigation, but must also utilize bearings from fixed objects and aids to navigation on shore. Further, a vessel attempting to pass close aboard always risks collision with a yawing buoy or with the obstruction the buoy may be marking.

SEASONAL AIDS TO NAVIGATION

Due to severe weather conditions and reduced vessel traffic during the winter, numerous aids to navigation (i.e.: lights, buoys, fog signals) are seasonally discontinued, withdrawn, or replaced by smaller aids. These changes occur at regular intervals each year. The approximate dates are specified in the Light List, Volume VI, Pacific Coast and Pacific Islands (COMDTPUB P16502.6) in column 8 or below the heading. The date seasonal aids are deployed may also be printed on nautical charts produced by the National Ocean Service. The actual dates the aids are deployed may be changed due to adverse weather or other conditions. Mariners should consult the Coast Guard's Local Notices to Mariners and listen to Broadcast Notices to Mariners for the latest information. The Local Notice to Mariners may be obtained from the following web site: http://www.navcen.uscg.gov/?pageName=lnmMain

OFFSHORE AIDS TO NAVIGATION - CAUTION

Courses should regularly be set to pass offshore aids to navigation with enough clearance to avoid the possibility of collision or grounding. Errors of observation, current and wind effects, other vessels in the vicinity, and defects in steering gear may be, and have been, the cause of actual collisions, or damage to these important aids to navigation. Experience shows that buoys cannot be safely used as leading marks to be passed close aboard and should always be left well off the course whenever sea room permits. It should be kept in mind that most large buoys are anchored by a very long scope of chain and, as a result, the radius of their watch circle is considerable. The charted position is the approximate location. Furthermore, under certain conditions of wind and current, they are subject to sudden and unexpected sheers, which are certain to hazard a vessel attempting to pass close aboard.

VANDALISM OF AIDS TO NAVIGATION

Frequently Coast Guard operated aids to navigation are damaged, defaced, or destroyed by vandals. This type of irresponsible activity not only creates a serious condition for the mariner, but also increases the cost to the taxpayer. The primary targets for vandals are usually buoys and lights on structures located on the ends of jetties and breakwaters. Federal laws provide that those apprehended defacing or destroying a Federal aid to navigation shall be guilty of a misdemeanor and are subject to a fine of up to \$25,000 per day, imprisonment or both plus repair cost. Those providing information leading to a conviction may be paid one half of such a fine. All citizens are requested to report sightings of any vandalism to the nearest Coast Guard unit; local law enforcement authority or by calling Commander, Thirteenth Coast Guard District (dpw) at (206) 220-7285. More information and links may be found at the following web address: https://www.pacificarea.uscg.mil/Our-Organization/District-13/District-Staff/-dpw/-aton/.

INTERFERENCE WITH AIDS TO NAVIGATION

In accordance with Title 33, Code of Federal Regulations, Subpart 70.01; "No person, excluding the Armed Forces, shall obstruct or interfere with any aid to navigation established and maintained by the Coast Guard, or any private aid to navigation established and maintained in accordance with Title 33, Code of Federal Regulations, Parts 64, 66, or 67. Any person violating the provisions of this section shall be deemed guilty of a misdemeanor and be subject to a fine for each offense, and each day during such violation shall continue shall be considered a new offense."

REQUIRED REPORTING OF DISCREPANT OR DAMAGED AIDS TO NAVIGATION

Vessel operators are required to notify the Coast Guard of any marine casualty or accident, including damage or destruction of aids to navigation, by the Marine Investigation Regulations, Title 46 Code of Federal Regulations, Section 4.05-20, with penalty for noncompliance. Frequently, aids to navigation are collided with, causing damage and displacement or complete loss, without the knowledge of the Coast Guard. The result is diminished protection for marine traffic and is attributable in large part to the failure of vessel operators to furnish notice of these collisions to the nearest local Coast Guard unit as required by law and regulation. All vessel operators who witness another vessel or individual damage or destroy an aid to navigation, or if an aid is not watching properly in accordance with the Coast Guard Light List, should report the incident to the nearest Coast Guard unit. The Code of Federal Regulations excerpt below provides more details on reporting discrepancies.

TITLE 33--NAVIGATION AND NAVIGABLE WATERS CHAPTER I--COAST GUARD, DEPARTMENT OF HOMELAND SECURITY PART 62--UNITED STATES AIDS TO NAVIGATION SYSTEM--Table of Contents Subpart D--Public Participation in the Aids to Navigation System

Sec. 62.65 Procedure for reporting defects and discrepancies.

(a) Mariners should notify the nearest Coast Guard facility immediately of any observed aids to navigation defects or discrepancies.

(b) The Coast Guard cannot monitor the many thousands of aids in the U.S. Aids to Navigation System simultaneously and continuously. As a result, it is not possible to maintain every aid operating properly and on its charted position at all times. Marine safety will be enhanced if persons finding aids missing, sunk, capsized, damaged, off station, or showing characteristics other than those advertised in the Light List, or other publication, promptly inform the Coast Guard. When making the report to the Coast Guard the mariner should consult the Light List to ensure the correct geographical information is used due to the similarity of names and geographical areas.

(c) Procedures for reporting defects and discrepancies:

(1) Radio messages should be prefixed "Coast Guard" and transmitted directly to a Government shore radio station listed in Chapter three of Radio Navigation Aids Publication, 117, for relay to the relevant District Commander.

(2) Telephone, e-mail, or facsimile messages may also be used to advise the nearest Coast Guard unit of defects or discrepancies in aidsto navigation.

NOTE: The Coast Guard Sectors phone numbers listed in Chapter I of this Special Notice to Mariners are 24-hour numbers that can be called to report any discrepancy in aids to navigation. The Thirteenth District 24-hour number is (206) 220-7001. Discrepancies may also be reported to the Coast Guard Navigation Center (NAVCEN) at the following web address: <u>http://www.navcen.uscg.gov/?pageName=atonOutageReport</u>. More information and links may be found at: <u>https://www.pacificarea.uscg.mil/Our-Organization/District-13/District-Staff/-dpw/-aton/.</u>

PROPOSED CHANGES IN AIDS TO NAVIGATION

Periodically the Coast Guard evaluates its system of aids to navigation to determine whether the conditions for which the aids were established have changed. Some of the conditions that are considered include environmental changes i.e. (shoaling), type and amount of vessel traffic, and increases in aid and equipment technology. When changes occur, the feasibility of improving, relocating, or discontinuing aids is considered. Comments on proposed changes should be addressed to Commander (dpw), Thirteenth Coast Guard District, 915 Second Avenue, Room 3510, Seattle, WA, 98174-1067. The Code of Federal Regulations excerpt below provides more details on the specific information that should be provided.

TITLE 33--NAVIGATION AND NAVIGABLE WATERS CHAPTER I--COAST GUARD, DEPARTMENT OF TRANSPORTATION PART 62--UNITED STATES AIDS TO NAVIGATION SYSTEM--Table of Contents Subpart D--Public Participation in the Aids to Navigation System

Sec. 62.63 Recommendations.

(a) The public may recommend changes to existing aids to navigation, request new aids or the discontinuation of existing aids, and report aids no longer necessary for maritime safety. These recommendations should be sent to the appropriate DistrictCommander.

(b) Recommendations, requests and reports should be documented with as much information as possible to justify the proposed action. Desirable information includes:

(1) Nature of the vessels which transit the area(s) in the question, including type, displacement, draft, and number of passengers and crew.

(2) Where practicable, the kinds of navigating devices used aboard such vessels (e.g., magnetic or gyro compasses, radio direction finders, radar, loran, and searchlights).

(3) A chartlet or sketch describing the actual or proposed location of the aid(s), and a description of the action requested orrecommended.

PRIVATE AIDS TO NAVIGATION

Private aids to navigation include all marine aids to navigation operated in the navigable waters of the United States other than those operated by the Federal Government or those operated in State waters for private use. No person, public body or other instrumentality not under the control of the Commandant, exclusive of the Armed Forces, shall establish and maintain, discontinue, or change or transfer ownership of any aid to maritime navigation, without first obtaining permission to do so from the Commandant, for more information consult title 33 Code of Federal Regulations, Part 66. In order to make application to establish and maintain, discontinue, change, or transfer ownership of a private aid to navigation, a person or an individual shall submit a "Private Aids to Navigation Application" (CG-2554) to the Commander of the nearest Coast Guard District. To learn more and obtain a CG-2554 write Commander (dpw), Thirteenth Coast Guard District, 915 Second Avenue, Room 3510, Seattle, WA 98174-1067, or call (206) 220-7285 or go to the following website: https://www.pacificarea.uscg.mil/Our-Organization/District-13/District-Staff/-dpw/-paton/.

AUTOMATIC IDENTIFICATION SYSTEM (AIS) AIDS TO NAVIGATION

The U.S. Coast Guard has begun transmitting AIS ATON messages and marine safety information via AIS for testing and evaluation. AIS is an internationally adopted radio communication protocol that enables the autonomous and continuous exchange of navigation safety related messages amongst vessels, lifeboats, aircraft, shore stations, and aids to navigation. AIS ATON stations broadcast their presence, identity (9-digit Marine Mobile Service Identity (MMSI) number), position, and status at least every three minutes or as needed. These broadcasts may originate from an AIS station located on an existing physical aid to navigation (Real AIS ATON) or from another location (i.e., AIS Base Station). An AIS Base Station signal broadcasted to coincide with an existing physical aid to navigation is known as a Synthetic AIS ATON. An aid to navigation that is electronically charted only, is identified as a Virtual AIS ATON. The latter two can be used to depict an existing aid to navigation that is off station or not watching properly or to convey an aid to navigation that has yet to be charted. All three variants can be received by any existing AIS mobile device, but they would require an external system for their portrayal (i.e., AIS message 21 capable ECDIS, ECS, radar, PC). How they are portrayed currently varies by manufacturer, but the future intention is for the portrayal to be in accordance with forthcoming International Standards.

Mariners capable of receiving and displaying these test AIS messages are encouraged to provide feedback and report any anomalies to the USCG NAVCEN Website <u>https://www.navcen.uscg.gov/?pageName=AISProblem</u>

GLOBAL POSITIONING SYSTEM - SYSTEM SPECIFICATIONS

The Global Positioning System (GPS) is a highly precise, satellite-based radio navigation system providing threedimensional positioning, velocity and time information. GPS is an all-weather system whose coverage is continuous and worldwide. GPS receivers collect signals from satellites in view. They display the user's position, velocity, and time, as needed for their marine, terrestrial, or aeronautical applications. GPS is used to support land, sea and airborne navigation, surveying, geophysical exploration, mapping and geodesy, vehicle location systems, and a wide variety of additional applications.

DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS)

On May 1st, 2000 the Selective Availability (SA) signal was discontinued, which in turn meant Differential GPS (DGPS) was no longer needed. Starting in 2018 the U.S. Coast Guard commenced a three-year plan to discontinue all 38 Differential Global Positioning System (DGPS) throughout the United States. For more information regarding the shutdown of the DGPS system, visit the U.S. Coast Guard Navigation Center at https://www.navcen.uscg.gov/index.php?pageName=dgpsMain.

The four specific DGPS sites for the Thirteenth Coast Guard District have all been decommissioned and all signals from these sites were terminated as of September 30, 2019. The locations of these DGPS sites were at Whidbey Island, Washington; Robinson Point, Washington; Fort Stevens, Oregon; and Appleton, Washington.

MARINER RADIO ACTIVATED SOUND SIGNALS (MRASS)

Sound signal is a generic term used to describe aids to navigation that produce an audible signal designed to assist the mariner in periods of reduced visibility. While many buoys are equipped with mechanical sound-producing devices such as bells, gongs or whistles, sound signals on fixed structures are electronic and commonly referred to as "fog signals." In the past, sound signals would either operate continuously, or be turned on manually when visibility was reduced. For many years, the Coast Guard equipped sound signals with fog detectors which would automatically start the sound signal. Currently, the Coast Guard has equipped most electronic sound signals with a system called mariner radio activated sound signal (MRASS), which allows mariners to activate the system when they need the sound signal to navigate safely, while eliminating the needless operation of the signal in good visibility. Once activated, the signal will continue to sound for time period noted in the Light List before shutting down and going into standby mode again. The signal is activated by keying the microphone five (5) consecutive times on a VHF-FM channel, either 81A (157.075Mhz) or 83A (157.175Mhz). Refer to Light List Volume VI for details on each specific sound signal.

The table below shows all the MRASS locations in District 13 and their assigned VHF channel

Aid Name	<u>LLNR</u>	Waterway	VHF Channel
Chetco River Sound Signal	8627	Brookings/Chetco River	83A
Coquille River South Jetty LT 8	8700	Bandon/Coquille River	83A
Depoe Bay Sound Signal	9790	Depoe Bay	83A
Ediz Hook Light	16280	Port Angeles/Strait of Juan de F	uca 81A
West Point Light	16800	Seattle/Puget Sound	81A
Three Tree Point Light	16980	Burien/Puget Sound	83A
Robinson Point Light	17090	Vashon Island/Puget Sound	81A
Orchard Point Light	18035	Rich Passage/Puget Sound	81A
Point Glover Light 9	18070	Rich Passage/Puget Sound	83A
Waterman Point Light 11	18080	Rich Passage/Puget Sound	81A
Mukilteo Light	18460	Mukilteo/Possession Sound	83A
Shannon Point Light	18960	Anacortes/Guemes Channel	81A
Burrows Island Light	19350	Burrows Island/Rosario Strait	83A

COAST GUARD NAVIGATION CENTER - SERVICES

The Coast Guard Navigation Center (NAVCEN) provides civil users with information about GPS system and satellite status, almanac data, and precise ephemeris data. The NAVCEN also provides information about Differential GPS, radio beacons, and Local Notice to Mariners. Information can be obtained from their website, by phone, email or radio broadcast.

NAVCEN personnel are prepared to respond to individual users' inquiries, comments, or concerns regarding civil access to and the use of the GPS system. The NAVCEN information service is used worldwide to support land, sea and airborne navigation, mapping and geodesy, vehicle location systems, and more. The Bulletin Board System and Voice Status Recording are available 24 hours a day. Watchstanders answer questions by telephone and mail 24 hours a day. For additional information, contact: Commanding Officer, Navigation Center, 7323 Telegraph Road, Alexandria, VA 22310-3998 or go to: <u>http://www.navcen.uscg.gov</u>.

COAST GUARD LIGHT LISTS

For more information concerning aids to navigation, both Federal and private, a mariner should obtain a copy of the Coast Guard Light List for their area. The Light Lists are available to download at the following website: http://www.navcen.uscg.gov/index.php?pageName=lightListCorrections. The Light Lists posted on this website must be corrected with changes printed in the Local Notice to Mariners. The following is a list of the Light List volumes maintained by the Coast Guard:

- 1. VOLUME I, ATLANTIC COAST describes aids to navigation from St. Croix River, Maine to Toms River, New Jersey.
- 2. VOLUME II, ATLANTIC COAST describes aids to navigation from Toms River, New Jersey to Little River, South Carolina.
- 3. VOLUME III, ATLANTIC AND GULF COASTS describes aids to navigation from Little River, South Carolina to Econfina River, Florida.
- 4. VOLUME IV, GULF OF MEXICO describes aids to navigation from Econfina River, Florida to Rio Grande, Texas.
- 5. VOLUME V, MISSISSIPPI RIVER SYSTEM describes aids to navigation on the Mississippi River and its navigable tributaries.
- 6. VOLUME VI, PACIFIC COAST AND PACIFIC ISLANDS describes aids to navigation on the Pacific Coast and outlying Pacific Islands.
- 7. VOLUME VII, GREAT LAKES describes aids to navigation on the Great Lakes and the St. Lawrence River above St. Regis River.

NOTE: For the U.S. West Coast and Pacific Islands, a mariner is only required to have LIGHT LIST VOLUME VI as listed above.

CHAPTER VII

VESSEL TRAFFIC SERVICE

GENERAL INFORMATION

The purpose of Puget Sound Vessel Traffic Service (PSVTS) is to facilitate the safe and efficient transit of vessel traffic and to assist in the prevention of collisions or groundings that could cost lives, property damage, or subject the waters of this beautiful area to environmental harm. Additionally, by facilitating the safe and efficient flow of commerce, PSVTS serves as an inter-modal partner in supporting the National Transportation System. Many regulations are applicable to all vessels, no matter the size, operating in the Puget Sound VTS Area, while certain regulations are applicable only to vessels of certain length, tonnage, and/or engaged in certain specific activities. It is incumbent upon the operator of any vessel in this area to be familiar with the regulations for the particular type vessel being operated. The Ports and Waterways Safety Act, as amended, prescribes civil and criminal penalties for violation of the regulations. Regulations governing the operations of PSVTS are found in Title 33 Code of Federal Regulations Part 161 and are reprinted in the VTS User's Manual.

USER'S MANUAL

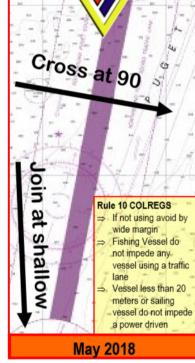
The Coast Guard publishes a User's Manual for PSVTS, which contains a more in-depth discussion of VTS operating procedures as well as further details on anchorages, certain dangerous cargo and Special Rules during certain fishing seasons in the Puget Sound area. All mariners transiting VTS waters are encouraged to obtain a copy of the User's Manual by accessing the document via the PSVTS web site at https://www.pacificarea.uscg.mil/VTSPugetSound/. Mariners will also find additional links on that webpage with useful maritime information, such as the graphic below which provides TSS guidelines for vessels not required to check in with the VTS.

Voluntary Monitoring Vessels less than 20 meters or sailing vessels

Your participation as a recreational boater, if mindful of the COLREGS (especially the TSS), satisfies your requirement with "Seattle Traffic." Any further participation is strictly voluntary, unless directed by the VTS. If you use a VHF-FM radio please follow these guidelines:

- ⇒ You are encouraged to monitor Seattle Traffic, but we ask that you limit your communications to essential navigational safety information, and emergencies.
- ⇒ Know the proper VTS (Seattle Traffic) frequency for the area you are navigating.
- ⇒ Listen before keying, do not "walk on" other communications. Always use low power to reduce interference.
- ⇒ Monitor VTS designated frequencies, 13, and 16. Channel 13 is designated for bridge to bridge communications and is a requirement for vessels 20 meters and larger. It is also used by Seattle Traffic as a secondary frequency. Bridges, and Ballard Locks use channel 13 for emergencies and communications at night. Channel 16 is the designated international distress and calling frequency. You are encouraged to use channel 16, *in an emergency*, to contact Coast Guard search and rescue units.
- ⇒ .If you only have a cell phone the 24 Hour emergency response number is 206 217 6001





Less than 20 Meters or S/V

PUGET SOUND

United States Coast Guard

U.S. Department of Homeland Security

of the VTS User's Manual or 33 CFR § 161.

CHAPTER VIII

LAW ENFORCEMENT

NAVIGATION RULES

The Navigation Rules establish actions to be taken by vessels to avoid collision. The vessel operator is responsible for knowing and following applicable navigation rules. Annex V (Inland) of the Navigation Rules and Regulations Handbook requires operators of each self-propelled vessel 12 meters (39.4 feet) or more in length to carry on board and maintain for ready reference a copy of the Navigation Rules and Regulations Handbook. Commercially produced navigation rules publications or copies of Title 33 Code of Federal Regulations, Parts 80 through 90, are acceptable. The vessel operator is responsible for knowing and following the applicable navigational rules. Copies may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402 or call (202)512-1800.

International Rules apply outside established lines of demarcation and Inland Rules apply inside the lines. Demarcation lines are printed on most navigational charts and are published in the Navigation Rules and Regulations Handbook.

COAST GUARD LAW ENFORCEMENT

One of the Coast Guard's primary missions is maritime law enforcement on the high seas and waters subject to Federal statute. These statutes cover drug smuggling, illegal immigration, safety, water pollution and fisheries. To enforce these laws, the Coast Guard is empowered to board and inspect any and all vessels within U.S. waters. These boardings usually are conducted while vessels are underway, which has proven to be the most effective method to insure compliance with Federal regulations.

BOARDINGS BY THE COAST GUARD

Boardings are not necessarily based on suspicion that a violation has occurred or exists on board. Their purpose is to prevent, detect, and suppress violations of federal law on vessels subject to the jurisdiction of the United States. All Coast Guard officers and petty officers that are graduates of the Maritime Law Enforcement Academy, are Federal law enforcement officers and may board any U.S. vessel anywhere and at any time; so do not be alarmed if boarded at night or unexpectedly. The boarding team will be armed.

WHAT TO EXPECT DURING A BOARDING

There are standard procedures the Coast Guard follows before boarding. Remember, Coast Guard personnel will always properly identify themselves, will always be in uniform, coveralls, or survival suit displaying Coast Guard insignia, and will always be in a marked Coast Guard or Navy vessel flying the Coast Guard Ensign. Once aboard the vessel, the examination is usually limited to determining the vessel's status and checking for compliance with Federal laws and regulations. If during an inspection, a reasonable suspicion develops that the vessel has been engaged in criminal activity, the boarding officer may investigate further. If the vessel is subject to a customs inspection, the boarding officer may conduct a thorough search of the entire vessel. Cooperation will make the entire process move smoothly and quickly.

COMPLAINTS CONCERNING BOARDINGS OR BOARDING OFFICERS

When conducting boardings or other law enforcement activities, the Coast Guard strives to maintain a proper balance between the apparent intrusion into the normal activities of law-abiding individuals and their mission of Federal law enforcement. Occasionally, the Coast Guard will receive complaints that a boarding was conducted improperly. These complaints usually involve a very small percentage of the total number of boardings conducted each year. Nevertheless, any complaint concerning boardings or boarding officers will be investigated. Complaints should normally be directed to the Thirteenth Coast Guard District, Chief, Response Division (r), 915 Second Ave, Seattle, WA 98174-1067 or call (206) 220-7206.

OPERATING A VESSEL WHILE INTOXICATED

Federal regulations provide for civil and/or criminal penalty for operating a vessel while intoxicated. These regulations pertain to both recreational and commercial vessels; however, the provisions are slightly different for the two categories.

- 1. Recreational vessels: As applied to recreational vessels "operator" is defined as the individual who has an essential role in the operation of a vessel underway, including but not limited to navigation of the vessel or control of the vessel's propulsion system. An individual is considered intoxicated when:
 - a. The individual has an alcohol concentration of .08% by weight or more in their blood.
 - b. The effect of the intoxicant consumed by the individual on the person's manner, disposition, speech, muscular movement, general appearance or behavior is apparent by observation.
 - c. If the operator is intoxicated, the voyage may be terminated for unsafe condition and the operator is subject to civil penalties or criminal penalties and/or one year in prison.
- 2. Commercial vessels: The principle difference in the enforcement of these regulations for operators of commercial vessels are:
 - a. An individual is considered intoxicated if the blood alcohol concentration is .04% or more by weight.
 - b. All crewmembers, including a watchstander that is not a regular member of the crew, are considered to be operating a vessel. This does not apply to commercial fishing vessels.
 - c. If the operator is intoxicated, the voyage may be terminated for unsafe condition and the operator is subject to civil penalties or criminal penalties and/or one year in prison.

LAW ENFORCEMENT FOR RECREATIONAL BOATS

Coast Guard vessels are identified by a distinctive stripe, the words U.S. COAST GUARD on the side of the vessel, the Coast Guard ensign, and uniformed personnel. Coast Guard law enforcement personnel may also be found aboard other vessels displaying the Coast Guard ensign and will be carrying firearms in the performance of their duties. A vessel underway, upon being hailed by a Coast Guard vessel, is required to stop immediately and lay-to or maneuver in such a way as to permit the boarding officer and team to come aboard. A civil penalty may be imposed by the Coast Guard for failure to:

- 1. Comply with numbering requirements.
- 2. Comply with equipment requirements.
- 3. Report a boating accident.
- 4. Comply with other Federal regulations.

A civil penalty; imprisonment of not more than one year; or both; can result for the criminal offense of negligent or grossly negligent operation of a vessel. The following are some examples of actions that may constitute negligent or grossly negligent operation under certain circumstances:

- 1. Operating in swimming areas.
- 2. Operating while under the influence of alcohol or drugs.
- 3. Excessive speed in the vicinity of other vessels or a designated channel.
- 4. Hazardous water skiingpractices.
- 5. Operating in a clearly dangerous area.
- 6. Bow, seatback, gunwale, or transom riding.

A civil penalty can result for failure to comply with the Inland Rules of the Road (Inland Navigation Rules Act of 1980).

TERMINATION OF USE

A Coast Guard boarding officer who observes a recreational boat operating in an UNSAFE CONDITION, specifically defined by law or regulation, and determines that an ESPECIALLY HAZARDOUS CONDITION exists, may direct the operator to take immediate steps to correct the condition, including returning to mooring. The specific unsafe conditions for which termination may be imposed are:

- 1. Insufficient number of personal flotation devices (PFDs).
- 2. Insufficient firefighting devices.
- 3. Overloaded conditions.
- 4. Improper navigational light display.
- 5. Fuel leakage.

Law Enforcement

- 6. Fuel in bilges.
- 7. Improper ventilation.
- 8. Improper flame arrester (backfire flame control).
- 9. Manifestly unsafe voyage.
- 10. Operating a vessel while intoxicated.
- 11. Operating in Regulated Navigation Areas during predetermined adverse conditions (13th District only)

An operator who refuses to comply with the order to terminate unsafe use of the boat may be cited for failure to comply with the directions of a Coast Guard boarding officer, as well as for the specific statutory or regulatory violation or provisions which were the basis for the termination order.

OCEAN DUMPING

The Marine Protection, Research, and Sanctuaries Act of 1972 (40 CFR Subchapter H) regulate the dumping of all material into ocean waters. The Army Corps of Engineers issues permits for the disposal of dredged spoils; the Environmental Protection Agency is authorized to issue permits for all other dumping activities. The Act provides civil and criminal penalties for persons violating the provisions of the Act.

WATER POLLUTION PREVENTION

The Refuse Act of 1899 and the Act to Prevent Pollution from Ships (33 USC: 1901-1911) prohibit the throwing, discharge, or depositing of any refuse matter of any kind (including trash, garbage, oil, and other liquid pollutants) into the waters of the U.S. (from the shoreline to a distance of three miles). The Federal Water Pollution Control Act prohibits the discharge of oil or hazardous substances in quantities that may be harmful into U.S. navigable waters, the contiguous zone, and waters within 200 miles.

1. REPORTING REQUIREMENTS

A person in charge of a vessel or an onshore or offshore facility is required to immediately report by telephone, radio telecommunication, or other similar means, any discharge of oil or other hazardous substance into the water. Reports should be made by calling toll-free to the National Pollution Response Center at (800) 424-8802. Discharging harmful oil is subject to a civil penalty assessed against the person- in-charge of the source. Failure to notify the Coast Guard is subject to a criminal penalty with the potential for one-year imprisonment. The owner/operator of the vessel or shore facility is liable for removal costs. Limits of liability are determined by vessel tonnage.

2. MARINE SANITATION DEVICE REGULATIONS

Certified marine sanitation devices (MSDs) are required on all vessels with installed toilet facilities. Direct discharge toilets are illegal unless the vessel is operating under a waiver granted by the Commandant (CG- 3PVC), U.S. Coast Guard, Washington, DC 20593-0001. This includes any equipment for installation on board a vessel that is designed to receive, retain, treat, or discharge sewage and any process that treats such sewage. It does not include portable toilets which can be carried on and off the vessel. The discharge of untreated or inadequately treated sewage inside 3NM into U.S. waters is prohibited for all vessels, including foreign, federal, and state-owned vessels operating in U.S. waters. Noncompliance will result in civil penalties. Manufacturers who sell MSDs or manufacturers of vessels with MSDs aboard that do not comply with these regulations are subject to fines. More specific information concerning water pollution is contained in Title 33 Code of Federal Regulations, Parts 153, 155, and 159. All boaters must help to ensure that others obey the law and are encouraged to report polluting discharges to the nearest Coast Guard Office or call toll-free 1-800-424-8802. Please report the following information: 1) location 2) source 3) size 4) color 5) substance and 6) time observed. **DO NOT** attempt to take samples of any chemical discharge. If uncertain as to the identity of any discharge, avoid flame, physical contact, or inhalation of fumes.

3. OIL POLLUTION REGULATIONS

A vessel, except a vessel of less than 26 feet in length, must have a placard of at least 5 by 8 inches, made of durable material, fixed in a conspicuous place in each machinery space, or at the bilge and ballast pump control station, stating the following:

DISCHARGE OF OIL PROHIBITED

THE FEDERAL WATER POLLUTION CONTROL ACT PROHIBITS THE DISCHARGE OF OIL OR OILY WASTE INTO OR UPON THE NAVIGABLE WATERS OF THE UNITED STATES OR THE WATERS OF THE CONTIGUOUS ZONE IF SUCH DISCHARGE CAUSES A FILM OR SHEEN UPON OR DISCOLORATION OF THE SURFACE OF THE WATER OR CAUSES A SLUDGE OR EMULSION BENEATH THE SURFACE OF THE WATER. VIOLATORS ARE SUBJECT TO A CIVIL PENALTY.

- a. FACILITIES (33 CFR §154): Any facility that transfers oil in bulk to or from a vessel with a capacity of 250 or more barrels of oil must comply with these regulations. Operators of these facilities must submit letters of intent and operations manuals. Equipment requirements and transfer procedures are set forth in 33 CFR §154.
- b. VESSELS (33 CFR §155): This section deals with vessel design, operations, and equipment requirements. No person may drain oil sumps, filters, strainers, or purifiers into a vessel's bilge. Personnel qualifications and oil transfers procedures are also specified. Another part of this section requires all U.S. vessels of 26 ft or greater to display a placard.
- c. TRANSFER OPERATIONS (33 CFR §156): This part deals with oil transfer operations, setting forth requirements for oil transfer, inspection procedures, equipment tests, and supervisory responsibilities.
- d. TANK VESSELS (33 CFR §157): These regulations govern the design and operation of seagoing U.S. tank ships and barges of 150 gross tons and over that carry oil in the U.S. domestic trade. These regulations should reduce pollution from tank cleaning and deballasting operations. Copies of these regulations may be obtained from the nearest Government Printing Office or marine supply store. For any questions concerning these regulations contact your nearest Coast Guard Captain of the Port.

4. GARBAGE DISCHARGE REGULATIONS

As of July 31, 1990, certain U.S. vessels are required to post garbage discharge placards for their crews and passengers. Certain other U.S. vessels are required to develop waste management plans and post garbage discharge placards for their crew and passengers. Placards are required for all manned U.S. vessels 26 feet or more in length. One or more placards must be placed in prominent locations and in sufficient numbers so they can be read by the crew and passengers. The placard locations must be readily accessible to the intended reader. Locations may include embarkation points, food service facilities, garbage handling spaces, and common spaces on deck. Coast Guard boarding officers must be satisfied that placards are located in such a manner, and in sufficient quantity, that every crew member and passenger aboard the vessel would have access to a placard. Boarding officers will have an ample supply of placards for public distribution during boardings. Individual mariners and small groups requesting placards may contact the Center for Marine Conservation, 312 Sutter Street, Suite 606, San Francisco, CA 94108, or call (415) 956-7441.

A waste management plan and placard are required for all manned, ocean-going U.S. vessels greater than 40 feet in length that are engaged in commerce, or equipped with a galley and berthing. The waste management plan must be in writing and meet the garbage discharge requirements of Title 33 Code of Federal Regulations subparts 151.51 through 151.77. Any person handling garbage on board the vessel must follow the provisions of the plan. The plan must describe procedures for collecting, processing, storing, and discharging garbage. The plan must designate the person who is in charge of carrying out the plan. The following is an example of a waste management plan for a vessel operating inside three nautical miles from shore:

"Solid waste management procedures. All garbage generated on the vessel is put in a garbage bag and disposed of in a trash container located at the port of call (or given to a tender vessel to take a shore for disposal). All crewmembers are to be oriented to the requirements of MARPOL Annex V by the captain. All new crewmembers will be specifically shown the garbage discharge placard and told to keep all refuse stowed on board. Passenger orientation to the vessel should include being shown the location of the trash receptacle, mention of refuse discharge regulations, and the name of the person charged with the responsibility for carrying out the plan." Vessels operating beyond three nautical miles from shore must develop a plan that meets the requirements of MARPOL 73/78 Annex V, Garbage Discharge Restrictions.

5. DISPOSAL OF PLASTICS AND OTHER GARBAGE IN U.S. WATERS

New Federal regulations controlling disposal of garbage from vessels prohibit the discharge of plastic garbage anywhere in the marine environment. Plastic includes, but is not limited to: Plastic bags, Styrofoam, cups and lids, six pack holders, bottles, caps, buckets, shoes, milk jugs, egg cartons, stirrers, straws, synthetic fishing nets, ropes, lines, and "bio- or photo-degradable" plastics. These regulations also restrict the disposal of other types of garbage within specified distances from shore.

6. DEFINITIONS OF ADDITIONAL TYPES OF WASTE

- a. GARBAGE all kinds of food, cargo, and maintenance waste, ashes or clinkers, and domestic waste (generated in living spaces aboard the vessel -- what we normally call trash). "Garbage" does not include fresh fish or fish parts, dishwater, and gray-water.
- b. DISHWATER the liquid residue from the manual or automatic washing of dishes and cooking utensils which have been pre-cleaned to the extent that any food particles adhering to them would not normally interfere with the operation of automatic dishwashers.
- c. DUNNAGE cargo associated waste.
- d. GRAYWATER drainage from a dishwasher, shower, laundry, bath, or washbowl and does not include drainage from toilets, urinals, hospitals, and cargo spaces. All U.S. vessels, wherever they operate, and foreign vessels operating in U.S. waters out to and including the Exclusive Economic Zone (200 miles) must comply with Annex V of MARPOL 73/78.

NAVIGATION LIGHTS AND DAYSHAPES ON FISHING VESSELS

Vessels engaged in gillnetting are frequently observed not displaying day-shapes and proper navigation lights. This constitutes a violation of U.S. Navigation Regulations and can lead to vessel accidents. In addition to the suffering of injuries or loss of life and property that may be a result of this problem, vessels not showing day-shapes or proper navigation lights increase their liability for payment of damages which result from collisions with other vessels and decrease their chances of recovering damages to nets and other equipment.

On December 24, 1981 the International Rules for Preventing Collisions at Sea, 1972 (72 COREGS) replaced the old Inland Rules as the applicable "Rules of the Road" on Lake Washington, Puget Sound, Georgia Strait, Strait of Juan de Fuca and all adjacent waters. In the 72 COLREGS, Rule 26 requires the following navigation lights and day-shapes for "vessels engaged in fishing, other than trawling":

- 1. Two all-around lights in a vertical line, the upper being red and the lower white, or a shape consisting of two cones with apexes together in a vertical line one above the other; a vessel of less than 20 meters in length may instead of this shape exhibit a basket.
- 2. When there is outlying gear extending more than 150 meters horizontally from the vessel, an allaround white light or cone apex upwards in the direction of the gear.
- 3. When making way through the water, in addition to the lights prescribed above, sidelights and a stern light.

The lighting and day-shape requirements described above apply only to vessels engaged in fishing other than trawling. The 72 COLREGS define a vessel engaged in fishing as "any vessel fishing with nets, line trawls or other fishing apparatus which restricts maneuverability". This term does not include fishing vessels, which do not have gear over the side. It does not include fishing vessels which do have gear over the side but whose maneuverability is not restricted by that fishing gear. In these latter two situations, the fishing vessels should display the lights prescribed for a power driven vessel underway. In addition, problems have been noted with the coloration of certain navigation lights. The red lenses used in lights on certain vessels have turned amber through age. These lenses should be checked. If they have turned amber, they should be replaced with a red lens to be in compliance with the 72 COLREGS.

In the Puget Sound area, refer questions on navigation light requirements to Coast Guard Sector Puget Sound, 1519 Alaskan Way South, Seattle, WA 98134, or call (206) 217-6200. In the Columbia River and the Washington and Oregon coast area, refer these questions to Coast Guard Sector Columbia River, 2185 SE 12th Place, Warrenton, OR 97146, or call (503) 861-6213.

13TH COAST GUARD DISTRICT CAPTAIN OF THE PORT AND MARINE INSPECTION OFFICE ZONES

The Thirteenth Coast Guard District is divided into two Captain of the Port and two Marine Inspection Office zones for the purpose of assigning geographic areas of responsibility. The exact coordinates delineating the geographical boundaries of the zones are contained in 33 Code of Federal Regulations part 3.65-10 for the Captain of the Port, Puget Sound and Marine Inspection Office Puget Sound Zones and in 33 Code of Federal Regulations part 3.65-15 for the Captain of the Port, Columbia River and Marine Inspection Office Columbia River Zones. For more information concerning the Captains of the Port or the Marine Inspection Offices call or write:

Captain of the Port, Columbia River 2185 SE 12th Place Warrenton, OR 97146 (503) 861-6213 **Captain of the Port, Puget Sound** 1519 Alaskan Way South Seattle, WA 98134 (206) 217-6232

CHAPTER IX

CAUTIONARY SITUATIONS

FIRING DANGER AREAS

Firing and bombing practice exercises take place in numerous areas established for those purposes along the coast and in some areas of the Strait of Juan de Fuca and Puget Sound. Responsibility to avoid accidents rests with the authorities using the areas. National Ocean Service charts show firing and bombing practice areas in United States waters. Similarly, as National Oceanic and Atmospheric Administration (NOAA) charts are updated for downloading and printing, firing and bombing practice area limits will be shown when they are extending from or adjacent to the coastline. Firing Danger Areas in the open sea normally will not be shown. Any aid to navigation that may be established to mark a danger area; and/or any target, fixed or floating, that may constitute a danger to navigation, will be shown on the appropriate charts. Warning signals, usually consisting of red flags or red lights, are customarily displayed before and during the practice, but the absence of such warnings cannot be accepted as evidence that a practice area does not exist or is not in use. Vessels should be on the lookout for local warnings and signals, and should whenever possible, avoid passing through an area in which practice is in progress, but if compelled to do so should endeavor to clear it at the earliest possible moment.

U.S. ARMY OPERATING AREAS

The U. S. Army Corps of Engineers has established a danger zone in the waters of the Pacific Ocean adjacent to Camp Rilea in Clatsop County, Oregon. The regulation in 33 CFR 334.1175 prohibits any activity by the public within the danger zone during use of weapons training ranges. No person or vessel shall enter or remain in the danger zone when restrictions are in force during weapons range training activities. At all other times, nothing in this regulation prohibits any lawful use of this area. When restrictions are in place, red flags will be flown next to the beach at the north and south boundaries of Camp Rilea. Red lights will replace the red flags at night. Closure announcements will be broadcast over marine VHF channel 16/21A.

U.S. NAVY OPERATING AREAS

The U.S. Navy advises the following Navy Operating Areas are in use on a continuing basis by Navy ships and aircraft. Area designations, charts showing them, type of exercises authorized, and times of use are indicated as follows:

- 1. R-6701 (Navy 7). Charts 18400, 18440, 18464, 18423, and 18471. Ship tactical exercises, inert ordnance, small arms fire, aerial training rockets, miniature bombs, practice mines; sunrise to sunset for aircraft, continuously for surface exercises.
- 2. R-6707 (Navy 5). Chart 18500. Aerial rockets, bombs, strafing (live ordnance); sunrise to sunset.
- 3. R-6713 (Navy 3). Charts 18400, 18421, 18465, 18440, 18441, 18423, and 18471. Ship tactical exercises, inert ordnance, small arms fire, air to surface gunnery, night illumination, practice bombs, mines, torpedoes, and rockets.
- 4. W-237 (Navy 6 and Navy 8). Charts 18003, 18007, 18500, 18480, 18485, and 18400. Surface tactical exercises and gunnery, antiaircraft and missile firing, undersea warfare and combined exercises, air to air gunnery, rockets, and missiles; aerial bombing, air to surface firing; live ordnance authorized; continuous.

Because of the frequency and variety of exercises conducted in the above areas and the difficulty in scheduling them far in advance due to the uncertainties of weather, it is not possible to issue individual Notice to Mariners each time an exercise is scheduled. Mariners are therefore warned of the possible danger when in the above areas. For regulations governing Restricted Areas, consult U.S. Coast Pilot 7, Pacific Coast.

There is a naval restricted area established on the western shore of Whidbey Island near U.S. Naval Air Station, Whidbey Island, Washington. The restricted area is comprised of two zones and is depicted on nautical charts 18427 and 18429. All vessels entering these areas do so at their own risk due to weapons range training activities. The regulation is listed in 33 CFR 334.1200.

SUBMARINE OPERATIONS

Boundary limits and designations of submarine operating areas are shown on nautical charts in magenta lines (for details see Chart No. 1, Section N - see chapter 12 for information on obtaining Chart No.1). As submarines may be operating in these areas, vessels should proceed with caution. During torpedo practice firing, all vessels are cautioned to keep well clear of naval target vessels flying a large red flag. In the past a number of potentially dangerous situations have occurred when ships have entered fleet operating areas in which underwater (and air) operations were being conducted. Mariners are urged to navigate with caution when transiting an operating area and to listen to Broadcast Notices to Mariners.

Additionally, in accordance with 33 CFR 165.1328, the following area is a regulated navigation area (RNA): All waters of the Hood Canal in the State of Washington whenever any U.S. Navy submarine is operating in the Hood Canal and is being escorted by the Coast Guard. For purposes of this section, "Hood Canal" means all waters of Hood Canal, including Dabob Bay, located between two lines with the first line connecting positions 47°37.9' N, 122°57.1' W and 47°37.9' N, 122°52.9' W and the second line connecting positions 48°00.7' N, 122°41.0' W and 47°56.4' N, 122°36.9' W. Regulations. All persons and vessels located within the RNA created by this section shall follow all lawful orders and/or directions given to them by Coast Guard security escort personnel. 33 CFR Section 165, Subpart B, contains additional provisions applicable to the RNA created in this section. The Coast Guard security escort will attempt, when necessary and practicable, to notify any persons or vessels in the RNA created in this section of its existence via VHF Channel 16 and/or any other means reasonably available.

SUBMARINE EMERGENCY IDENTIFICATION SIGNALS

U.S. submarines are equipped with signal ejectors which may be used to launch identification signals, including emergency signals. Two general types of signals may be used: smoke floats and flares or stars. The smoke floats, which burn on the surface, produce a dense, colored smoke for a period of fifteen to forty-five seconds. The flares or stars are propelled to a height of three hundred to four hundred feet from which they descend by small parachute. The flares or stars burn for about twenty-five seconds. The color of the smoke or flare/star has the following meanings:

- 1. GREEN OR BLACK: Used under training exercise conditions only to indicate that a torpedo has been fired or that the firing of a torpedo has been simulated.
- 2. YELLOW: Indicates that submarine is about to come to periscope depth from below periscope depth. Vessels should not stop propellers. This is important to ensure that the submarine knows where you are located.
- 3. RED: Indicates an emergency condition within the submarine and that it will surface immediately, if possible.

Look for submarine marker buoys consisting of 2 spheres 3 feet in diameter painted international orange with connecting structure. The buoy is a messenger buoy with a wire cable to the submarine. A submarine on the bottom in distress and unable to surface will, if possible, release this buoy. The submarine may employ any or all of the following additional means to attract attention and indicate their position while submerged:

- 1. Release of dye marker.
- 2. Release of air bubble.
- 3. Ejection of oil.
- 4. Pounding of the hull.

If any of these attempts to attract attention are noted, immediately advise Navy Region NW at (360) 315-5127 and/or contact the U.S. Coast Guard on Channel 16 VHF-FM.

SIGNALS FOR COAST GUARD VESSELS WHILE HANDLING OR SERVICING AIDS TO NAVIGATION

- 1. Day: Three dayshapes not less than 6 feet apart and each not less than 2 feet in diameter, of which the highest and lowest shall be ball-shaped and black in color, and the middle one diamond shaped and black.
- 2. Night: Three lights in a vertical line not less than 6 feet apart, the highest and lowest being red and the middle one being white in color.

Vessels, with or without tows, passing Coast Guard vessels displaying this signal, shall reduce their speed

sufficiently to insure the safety of both vessels, and when passing within 200 feet of the Coast Guard vessel displaying this signal, their speed shall not exceed 5 miles per hour.

GEOPHYSICAL SURVEYING VESSELS

In the last few years operations conducted by geophysical survey vessels have increased off the Oregon and Washington seacoasts. Survey vessels can pose a hazard to navigation when towing a submerged seismic cable. The cable is generally towed at a depth of 15 to 40 feet below the surface, with a length up to two miles. The end of the cable, if depth and length warrant, is marked by a "tail buoy" displaying either a fixed or flashing white light and is often equipped with a radar reflector. Survey vessels towing a submerged cable are required to exhibit lights and day shapes as prescribed in Rules 24 (Towing and Pushing) and 27 (Restricted Maneuverability) of the Inland and International Navigation Rules as appropriate. Seismic cables can be slacked to allow increased clearance to another vessel crossing over the cable. However, proposal and agreement for such a maneuver should be first made between the two vessels via radiotelephone.

REGULATED NAVIGATION AREAS AND LIMITED ACCESS AREAS

Coast Guard District Commanders and Captains of the Port (COTP) must be immediately responsive to the safety and security needs of the waters within their jurisdiction; therefore, District Commanders and COTPs have been delegated the authority to issue certain local regulations. Every District Commander may control vessel traffic in an area with hazardous conditions by issuing regulations that specify times of vessel entry, movement, or departure to, from, within, or through ports, harbors, or other waters; establish vessel size, speed, draft limitations, and operating conditions; and restrict vessel operation, in a hazardous area or under hazardous conditions to vessels which have particular operating characteristics or capabilities which are considered necessary for safe operation under the circumstances. Safety zones (stationary zones described by fixed points or a moving zone around a vessel in motion) may be established for safety or environmental purposes. Security zones limit access to safeguard vessels, harbors, ports and waterfront facilities from destruction, loss, or injury from sabotage or other subversive acts, accidents, or other causes of a similar nature in the United States. No person may enter a safety or security zone, bring or cause to be brought any vehicle, vessel, or object, remain or allow any vehicle, vessel, or object to remain there, unless authorized by the COTP or District Commander. Each person in a safety or security zone who has notice of a lawful order or direction shall obey the order or direction of the COTP or the District Commander. The Captain of the Port may take possession and control of any vessel and/or remove any person, vessel, article, or thing from a safety or security zone. Any person who violates the regulations shall be liable under the provisions of 33 USC §1232 for a civil penalty for each violation.

The establishment of these limited access areas and regulated navigation areas is considered rulemaking. The procedures used to notify persons of the establishment of these areas vary depending upon the circumstances and emergency conditions. Notification may be made by marine broadcasts, local notice of mariners, local news media, distribution in leaflet form and on-scene oral notice as well as publication in the Federal Register. The Commandant may also direct the COTP to prevent access to waterfront facilities, and port and harbor areas, including vessels and harbor craft therein. For more information about Regulated Navigation Areas and Safety/Security Zones see 33 CFR 165.

SAFETY AND SECURITY ZONES

1. Washington – Protection of Military Cargo - Naval Vessel Protection Zone 33 CFR 165.1321

Do not approach within 100 yards of any U.S. Naval Vessel. Within 500 yards of operation of the U.S. Naval Vessel you must transit at minimum safe operating speed. If you need to pass within 100 yards of a U.S. Naval Vessel, in order to ensure a safe passage and in accordance with the Navigation Rules, you must contact the U.S. Naval Vessel of the Coast Guard escort vessel on VHF-FM channel 16. Vessels 20 meters or greater in length should seek permission from the COTP or a Designated Representative at least 4 hours in advance. Vessel less than 20 meters in length should seek permission at least 1 hour in advance. VTS Puget Sound may be reached on VHF-FM channel 14.

In addition, a formation of warships or convoy is more difficult to maneuver than a single ship. All vessels are cautioned to employ the customary manners of good seamanship and where there is ample sea room, adopt early measures to keep out of the way of a formation of warships or convoy. The following image helps explain this security zone:



You must operate at minimum speed within 500 yards of any U.S. naval vessel

and proceed as directed by the Commanding Officer or the official patrol.

Violations of the Naval Vessel Protection Zone are a <u>felony offense</u>, punishable by up to <u>6 years in</u> <u>prison</u> and/or up to <u>\$250,000</u> in fines

2. Washington - Tank Ship Protection 33 CFR 165.1313

Do not approach within 100 yards of any Tank Ship. No vessel or person is allowed within 100 yards of a tank ship, unless authorized by the on-scene official patrol or tank ship master. If you need to pass within 100 yards of a Tank ship, in order to ensure a safe passage and in accordance with the Navigation Rules, you must contact the Tank Ship on VHF-FM channel 16. When within a tank ship security zone all vessels shall operate at the minimum speed necessary to maintain a safe course and shall proceed as directed by the on-scene official patrol or tank ship master.

3. Washington - Large Passenger Protection 33 CFR 165.1317

When within a large passenger vessel security and safety zone all vessels must operate at minimum speed necessary to maintain a safe course and must proceed as directed by the on-scene official patrol or large passenger vessel master. No vessel or person is allowed within 100 yards of a large passenger vessel that is underway or at anchor, unless authorized by the on-scene official patrol or large passenger vessel master. No vessel or person is allowed within 25 yards of a large passenger vessel that is moored.

4. Oregon - Large Passenger Protection 33 CFR 165.1318

When within a large passenger vessel security and safety zone all vessels must operate at minimum speed necessary to maintain a safe course and must proceed as directed by the on-scene official patrol or large passenger vessel master. No vessel or person is allowed within 100 yards of a large passenger vessel that is underway or at anchor, unless authorized by the on-scene official patrol or large passenger vessel master. No vessel or person is allowed within 25 yards of a large passenger vessel that is moored.

5. Washington - Elliott Bay - Cruise Ship Protection - Pier 91 33 CFR 165.1324

The Captain of the Port, Puget Sound has established the following areas as safety zones: All waters extending 1,000 yards due south from the end of Pier 91, to be in effect only during the arrival or departure of Large Passenger Cruise Vessels at Pier 91, Seattle, Washington. Additionally, a safety zone encompassing all waters within 100 yards surrounding Pier 91, Seattle, Washington is in effect when a Large Passenger Cruise Vessel is moored at Pier 91. In accordance with the general regulations in 33 CFR Part 165, Subpart D, no person or vessel may enter or remain in this security and safety zone, except for vessels authorized by the Captain of the Port or Designated Representatives.

6. Washington – Escorted U.S. Navy submarines in Sector Puget Sound COTP Zone 33 CFR 165.1327

The following area is a security zone: All waters within 1000 yards of any U.S. Navy submarine that is operating in the Sector Puget Sound Captain of the Port Zone, as defined in 33 CFR Section 3.65–10, and is being escorted by the Coast Guard. In accordance with the general regulations in 33 CFR Section 165, Subpart D, no person or vessel may enter or remain in the security zone created by paragraph (a) of this section unless authorized by the Coast Guard patrol commander. The Coast Guard patrol commander will coordinate with Vessel Traffic System users on a case-by-case basis to make appropriate passing arrangements under the circumstances. 33 CFR Section 165, Subpart D, contains additional provisions applicable to the security zone created in paragraph (a) of this section. The Coast Guard security escort will attempt, when necessary and practicable, to notify any persons or vessels inside or in the vicinity of the security zone created in this section of its existence via VHF Channel 16 and/or any other means reasonably available.

7. Washington – Elliott Bay – Pier 36 Security Zone 33 CFR 165. 1334

The Coast Guard has established a security zone at U.S. Coast Guard (USCG) Base Support Unit Seattle, Pier 36, Elliott Bay, Seattle, Washington. This permanent security zone is necessary to protect military and visiting foreign vessels, waterfront facilities, and the maritime public from destruction, loss, or injury from sabotage, subversive acts, or other malicious acts of a similar nature. Entry into or movement within this security zone is prohibited without the permission of the Captain of the Port or a Designated Representative. 165. 1334 Security Zone; U.S. Coast Guard BSU Seattle, Pier 36, Elliott Bay, Seattle, WA. (a) Location: The following area is a security zone: all waters east of a line from 47-35.450'N 122-20.585'W to 47-35.409'N 122-20.585'W at Pier 36, Elliott Bay, Seattle, WA. (b) Regulations: In accordance with the general regulations in 33 CFR Part 165, Subpart D, no vessel may enter, transit, moor, or anchor within this security zone located at Pier 36, Elliott Bay, WA, except for vessels authorized by the Captain of the Port or Designated Representative. (c) Authorization: To request authorization to operate within this security zone, contact United States Coast Guard Sector Puget Sound Joint Harbor Operations Center at (206) 217-6001.

SEAPLANE OPERATIONS

Mariners are cautioned that seaplane operations are conducted throughout the Puget Sound area but are a particular hazard on Lake Union, Lake Washington, and the San Juan Islands. Mariners are urged to maintain a sharp lookout for seaplanes taking off and landing in the areas traditionally used by them, since they require significant surface area and have difficulty in maneuvering. Once on the water (displacement mode) they are required to conduct themselves in accordance with the Navigation Rules - Inland and International, like any other vessel.

EXPLOSIVE ORDNANCE

The continental shelf of the United States contains many forms of unexploded ordnance (military weapons), the locations of which are not known. The types most likely to be encountered are underwater ordnance such as torpedoes, mines, depth charges, and aerial bombs, but other ordnance items may be found. Any metallic object having fins, vanes, propellers, horns, or possibly plates screwed or bolted to an external surface should be regarded as dangerous. This warning is published for all shipmasters, trawlers, fishermen, or persons conducting operations on or near the ocean bottom, and provides instructions on the action to be taken when ordnance items or suspicious objects are encountered:

- 1. OBJECTS SNAGGED OR NETTED: Any object which cannot be immediately identified as a non-explosive (inert) item MUST BE TREATED AS AN EXPLOSIVE ITEM. If there is any doubt about its identity, TREAT IT AS EXPLOSIVE. Non-explosive naval ordnance items such as practice torpedoes and practice mines will normally be painted bright orange, for ready identification. Any object which is not painted bright orange may be dangerous and possibly can explode if brought on board or bumped in any way. If an object is brought to the surface of the water and it cannot be immediately identified as an inert item, DO NOT ATTEMPT TO BRING IT ON BOARD OR ALONGSIDE. If possible, release the object immediately and radio the nearest Navy or Coast Guard activity, giving the position and description of the object. If the object cannot be released, or freed by cutting the net or line, the following actions are advised:
 - a. Stream the object as far aft as possible.
 - b. Notify the nearest Coast Guard or Navy activity and stand by for instructions or help. The Coast Guard can be notified on VHF radio or at (206) 220-7001. The Navy can be notified at (360) 396-1631.
 - c. Position the crew at the bow of the vessel with the deckhouse between them and the object astern.
 - d. Maintain steerageway as necessary to stay in the area until help or instructions arrive.
- 2. OBJECTS BROUGHT ON BOARD: If a suspected explosive object is not detected until the trawl of net contents have been discharged on board the vessel, take the following actions:
 - a. Avoid any bump or shock to the object.
 - b. Secure it in place.
 - c. Keep it covered up and wetteddown.
 - d. Radio the nearest Coast Guard or Navy activity and stand by for instructions.
- 3. FLOATING OBJECTS: If a floating object cannot be readily identified as non-explosive, IT MUST BE CONSIDERED TO BE EXPLOSIVE. DO NOT APPROACH OR ATTEMPT TO RECOVER OR BRING IT ON BOARD. Report the location immediately to the nearest Coast Guard or Navy activity and warn all other ships or craft in the vicinity. Try to keep the object in sight until instructions are received.
- 4. REPORTING OF SUSPICIOUS OBJECTS RESEMBLING MINES: Ships frequently report objects resembling mines, but often give insufficient information to properly evaluate the reports. As a result, needless time and expense is incurred only to find that they are not mines but other floating objects. Regardless, vessels should keep well clear and should not attempt to recover objects resembling mines. Since mines are a danger to life and property at sea, masters of ships sighting unidentified or suspicious objects are requested to furnish the following information to the nearest Coast Guard or Navy radio station or activity:
 - a. Position of object, and how closely it was approached.
 - b. Size, shape, condition of painting, and the presence of marine growth.
 - c. Whether or not horns or rings are attached.
 - d. Whether or not definite identification is possible.

DANGER FROM UNLABELED DRUMS

With the many exotic chemicals being transported in drums as deck cargo, reports are frequently received of loss overboard of these potentially dangerous containers. Even empty drums may contain residues which are extremely hazardous to touch or smell, and some vapors may be highly explosive. When coming upon derelict drums, whether afloat or from the sea bottom, this danger should be considered. Identifying labels will give adequate warning, but containers are more than likely to be found with caution labels washed off. Avoid direct contact and notify the Coast Guard of any sightings in U.S. coastal waters (24 HOUR TOLL FREE NUMBER IS (800) 424-8802), or government authorities of the nearest port state if sighting is near any foreign shores.

SUBMARINE CABLES AND PIPELINES

Submarine cables and pipelines pass beneath various navigable waterways of the U.S. and on the Continental Shelf. Installation of new submarine cables and pipelines is reported in the Local Notice to Mariners. Their locations may not be charted. Where feasible, warning signs are often erected to warn the mariner of their existence. In view of the serious consequences resulting from damage to submarine cables and pipelines, vessel operators should take special care when anchoring, fishing or engaging in underwater operations near areas where these cables or pipelines may exist or have been reported to exist. Certain cables carry high voltages; many pipelines carry natural gas under high pressure or petroleum products. Fire or explosion with injury or loss of life, or a serious pollution incident, could occur if they are breached. Vessels fouling a submarine cable or pipeline should attempt to clear without undue strain. Anchors or gear that cannot be cleared should be slipped; no attempt should be made to cut a cable or pipeline.

SUBMERGED OBJECTS IN SHALLOW WATERS

Mariners are cautioned against the hazard of snags and other submerged objects; particularly in shallow waters where even a small object may lie near the surface. Even in familiar waters, new obstacles may be encountered, and known obstacles may move. Good seamanship dictates low speed and alertness when transiting areas of shallow water.

MARINE CONSTRUCTION SITES

Information concerning marine construction projects involving dredging, breakwaters, piers, pipelines, oil drilling platforms, etc., is disseminated via Local and Broadcast Notices to Mariners when the Coast Guard is advised. Until these projects are completed, the sites are generally listed as displaying construction lights. This lighting serves both to light the site for purposes of construction and to warn the mariner of its existence. Barges and equipment operating in the area are usually held in place by mooring systems extending some distance from the equipment. Mariners should not rely on all this equipment or moorings being well marked, but should pass all such construction sites with caution. The Vessel Bridge to Bridge Radiotelephone Act and Federal Communications Commission (FCC) regulations require dredges and floating plants engaged in or near a channel or fairway, in operations likely to restrict or affect navigation of other vessels, to have a radiotelephone capable of operation from its navigational bridge or main control station and capable of transmitting and receiving VHF-FM Channel 13 (156.65 MHz).

HIGH-INTENSITY DECK WORKING LIGHTS

The Coast Guard and the Canadian Coast Guard have received numerous complaints from mariners that vessels are operating at night with their high-intensity deck working lights energized. The complaints generally involve large fishing vessels and scows transiting Puget Sound and adjacent waters, and the Canadian/Alaskan inside passage. The glare from these lights seriously impairs the night vision, if not the entire vision, of mariners. In addition, their use can impair the visibility or distinctive character of required navigation lights, and may interfere with the keeping of a proper lookout. These lights should not be energized at night when other transiting vessels are or may be in the vicinity. In addition to posing a significant safety problem, the use of these lights at night near other vessels is a violation of Rule 20(b) of the International Regulations for Preventing Collisions at Sea, 1972 (72 COLREGS). In the event of a collision or other casualty, violators face possible financial liability (if bright working lights are found to have caused or contributed to the mishap).

DIVER'S FLAG

Small vessels restricted in their ability to maneuver and engaged in diving operations shall exhibit a rigid replica of the International Code Flag "A" (ALPHA) at least one meter in height. Many individuals and diving organizations have interpreted the International Code Flag "A" to mean that this has replaced the traditional diver's flag. This impression is incorrect. A vessel engaged in diving operations, whether underway or at anchor is usually considered restricted in its ability to maneuver if divers are attached to the vessel while diving. If divers are swimming free, it is the responsibility of the operator to determine if the vessel's movements are restricted by operations. If the vessel cannot keep out of the way of other vessels as required by the Navigation Rules, the vessel must exhibit, by day, the "A" flag. At night, such vessel must exhibit three lights in a vertical line, the highest and lowest being red and the middle one being white. If the operator of a vessel tending free-swimming divers determines that the diving itself does not restrict the maneuverability of the vessel, the "A" flag signal is not required.

RADIO CHECKS

Regrettably, boaters and anglers are increasingly testing their radios or maliciously transmitting the "mayday" distress signal over VHF-FM radio Channel 16. These offenses violate federal and state laws and put U.S. Coast Guard crews and others on the water at risk. Performing radio checks by broadcasting false maydays endangers the lives of those in real danger. It diverts and depletes available Search and Rescue resources. It also endangers the lives of Coast Guard crews performing search and rescue for someone not in distress. The word "mayday" should only be used when a boat is sinking, when a boat is disabled and on the rocks, when there is a person overboard who is not visible, or when someone on a boat has a serious injury. It is against state and federal laws to transmit a false mayday. Doing so is a felony offense, punishable by up to six years in prison, a civil penalty, and restitution to the Coast Guard for all costs incurred responding to the distress. To test a radio, boaters are reminded to turn to a non-distress channel, use their call signs and announce that they are about to conduct a test.

NATIONAL BALLAST WATER MANAGEMENT (BWM) PROGRAM

The unintentional introduction of non-indigenous species (NIS) into U.S. waters via the discharge of vessels' ballast water has had significant negative effects on the nation's marine and freshwater resources, biological diversity and coastal infrastructures. The Coast Guard is responding to these concerns through a comprehensive national BWM program. This program (1) requires mandatory ballast water management on all vessels equipped with ballast tanks that operate on waters of the U.S. (2) establishes additional practices for vessels entering U.S. waters after operating beyond the Exclusive Economic Zone (EEZ) and (3) requires the reporting and recordkeeping of ballasting operations whenever a vessel equipped with ballast water tanks enters a U.S. port or place to anchor or moor. Since November 1, 2004, the Coast Guard has enforced mandatory ballast water management practices for all vessels equipped with ballast tanks bound for ports or places within the U.S. and/or entering U.S. waters, regardless of whether a vessel operated outside of the EEZ of the U.S. or equivalent zone of Canada. This includes those ships that declare No Ballast On Board (NBOB), and for transits that occur between all Captain of the Port zones. If the voyage is less than 24 hours, the operator must report before departing the port or place of departure. If the voyage exceeds 24 hours, the operator must report at least 24 hours before arrival at the port or place of destination.

Mandatory Practices (33 CFR §151.2035(a)) include avoiding ballast operations in or near marine sanctuaries, marine preserves, marine parks or coral reefs; avoiding or minimizing ballast water uptake: where known infestations, harmful organisms and pathogens are located, near sewage outfalls, near dredging operations, where tidal flushing is poor or when a tidal stream is known to be more turbid, in darkness when organisms may rise up in the water column, in shallow water or where propellers may stir up the sediment, areas with pods of whales, convergence zones and boundaries of major currents; cleaning ballast tanks to remove sediment regularly; only discharging minimal amounts of ballast water in coastal and internal waters; rinsing anchors and anchor chains during retrieval to remove organisms and sediments at their place of origin; removing fouling organisms from hull, piping and tanks on a regular basis and dispose of any removed substances in accordance with local, state and federal regulations; maintaining a vessel specific ballast water management plan, train vessel personnel in ballast water and sediment management and treatment procedures. Additional mandatory practices for all vessels arriving in U.S waters with ballast water that was taken on within 200 NM of any coast after operating beyond the U.S. EEZ must do one of the following: Conduct mid-ocean ballast water exchange prior to entering U.S. waters; retain the ballast water.

BWM practices shall not jeopardize the safety of a vessel, its crew, or its passengers. Therefore, the master of a

vessel will not be prohibited from discharging unexchanged ballast, in areas other than the Great Lakes and the Hudson River, if the master decides that the practice would be a threat to safety, stability, or security because of adverse weather, vessel design, equipment failure, or any other extraordinary condition. All vessels, however, must discharge only the minimal amount of ballast water operationally necessary and ensure ballast water records accurately reflect any reasons for not complying with the mandatory requirements.

The only vessels exempt from the mandatory BWM reporting and record keeping requirements of 33 CFR §151.2041 and §151.2045 are:

- Crude oil tankers engaged in coastwise trade,
- DOD/Coast Guard/Armed Service Vessels,
- Vessel that operate exclusively within a single COTP zone do not have to submit BWM reports and do not have to maintain BWM records on board for two years.
- Vessels that operate in more than one COTP zone, but conduct all ballast operations (uptake and discharge) exclusively in one COTP zone, regardless of the number of voyages the vessel makes, are also not required to report of maintain BWM records under 33 CFR §151.2041 and §151.2043.

Vessels engaged in the foreign export of Alaskan North Slope Crude Oil: These vessels must ensure compliance with the reporting and record keeping provisions of 33 CFR §151.2041 and §151.2045 in addition to the requirements of 15 CFR§754.2(j)(3). Failure to comply with BWM requirements will result in a civil penalty.

The master, owner, operator, or person-in-charge of any vessel that is equipped with ballast water tanks that is bound for ports or places in U.S. waters, must ensure complete and accurate BWM reports are submitted in accordance with 33 CFR §151.2060 and signed BWM records are kept on board the vessel for a minimum of two years (33 CFR §151.2045). Shipping agents of vessels operating in U.S. water should where possible, facilitate efforts to submit complete, accurate and timely reports.

All required information is to be sent to the National Ballast Information Clearinghouse (NBIC) using only one of the following means. Online reporting via the NBIC website or e-mail attachments downloadable from the NBIC website are the preferred methods for submitting Ballast Water Reporting Forms.

- <u>http://invasions.si.edu/nbic/submit.html</u>
- NBIC@BALLASTREPORT.ORG
- fax (301) 261-4319
- USCG c/o SERC (Smithsonian Environmental Research Center), P.O. Box 28, Edgewater, MD 21037-0028.

If the information submitted in accordance with this section changes, an amended form must be submitted before the vessel departs the waters of the U.S. Reporting forms, instructions, regulations and additional educational material can be found online at <u>https://homeport.uscg.mil/</u> or contact the Coast Guard Office of Operating and Environmental Standards (CG-OES) at (202) 372-1402.

COASTAL TOWLANE CHARTS

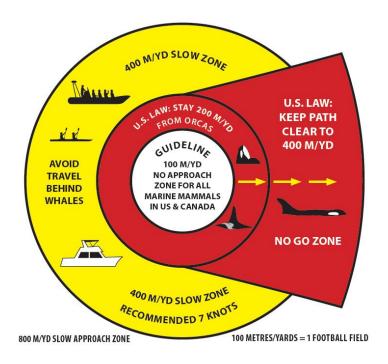
Conflicts between ocean-going tugs and commercial crabbers in Washington, Oregon and California were a major problem in the late 1970s. Crab pots fouled tugs as they moved between coastal ports, and the loss of their gear was a severe economic loss for crab boat owners.

Sea Grant programs on the West Coast helped broker an agreement that provided navigable towboat and barge lanes through the crabbing grounds between Cape Flattery and San Francisco. Washington Sea Grant took a leadership role in the late 1990s that remains pivotal in saving these industries hundreds of thousands of dollars each year.

Washington Sea Grant took the lead in this voluntary industry program in 1997, working with west coast commercial crab fishers and towboat operators to continue this critical effort. The 2015-16 edition of the Towlane Charts are a result of discussions and final agreements between the two groups. Updated electronic charts can be reviewed and download at https://wsg.washington.edu/community-outreach/outreach-detail-pages/crabbertowboat-lane-agreements-download-charts-data-and-meetings/.

PROTECTION OF ORCA WHALES

Federal regulations to protect orca (killer) whales apply in inland waters of Washington State, east of the entrance to the Strait of Juan de Fuca and south of the U.S./Canada boundary. Except for specific exemptions, it is unlawful for any person to: cause a vessel to approach, in any manner, within 200 yards of any killer whale; position a vessel to be in the path of any killer whale at any point located within 400 yards of the whale. These regulations apply to all motorized and non-motorized vessels (including kayaks and paddleboards), with exceptions to maintain safe navigation and for certain types of vessels - government vessels in the course of official duties, ships in the shipping lanes, research vessels under permit, and vessels lawfully engaged in commercial or treaty Tribal fishing that are actively setting, retrieving, or closely tending fishing gear.



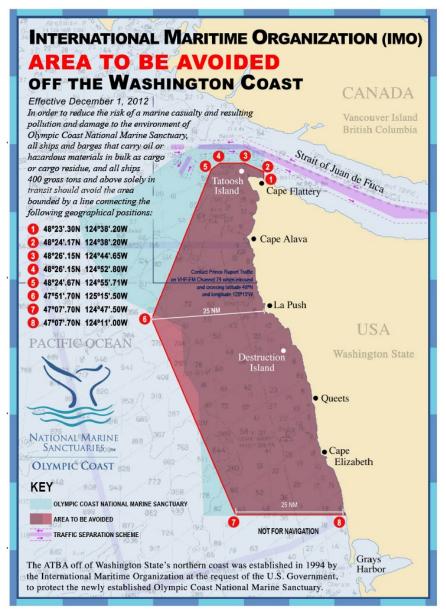
MARINE MAMMAL PROTECTION ACT

The National Oceanic and Atmospheric Association (NOAA) provides the following guidelines with respect to interactions with marine mammals and birds:

- 1. DO NOT APPROACH or position your vessel closer than 200 yards to any killer whale in the U.S.; DO NOT APPROACH or get closer than 100 yards to any other marine mammals or birds, whether on the water or on land.
- 2. BE CAUTIOUS, COURTEOUS and QUIET when around areas of known or suspected marine wildlife activity, in the water or at haul-outs and bird colonies on land; especially from May to September during breeding, nesting and seal pupping seasons.
- 3. LOOK in all directions before planning your approach or departure from viewing wildlife.
- 4. SLOW DOWN: reduce speed to less than 7 knots when within 400 meters/yards of the nearest marine mammal to reduce your engine's noise and vessel's wake.
- 5. ALWAYS approach and depart from the side, moving parallel to the animal's direction of travel. If the animal(s) are approaching you, cautiously move out of the way and avoid abrupt course changes. DO NOT approach from the front or from behind.
- 6. REDUCE SPEED TO BARE STEERAGEWAY and allow animals to pass if your vessel is not in compliance with the approach regulation or guideline (#1).
- 7. PAY ATTENTION and move away, slowly and cautiously, at the first sign of disturbance or agitation.
- 8. STAY on the OFFSHORE side of whales when they are traveling close to shore.
- 9. ALWAYS avoid going through groups of porpoises or dolphins and hold course and reduce speed gradually to discourage bow or stern-riding.
- 10. LIMIT your viewing time to 30 minutes or less. This will reduce the cumulative impact of all vessels and give consideration to other viewers.
- 11. DO NOT disturb, swim with, move, feed or touch any marine wildlife. If you are concerned about a potentially sick, stranded or entangled animal, contact your local stranding network.

OLYMPIC COAST AREA TO BE AVOIDED (ATBA)

A catastrophic discharge of oil or hazardous materials remains one of the greatest threats facing the Olympic Coast National Marine Sanctuary. Reducing this threat has always been one of the sanctuary's highest priorities. The Olympic Coast sits at the entrance to the Strait of Juan de Fuca, a major thoroughfare linking the important North American ports of Seattle, Tacoma, and Vancouver with trading partners all around the Pacific Rim. The juxtaposition of such an important international trade route and a national marine sanctuary requires the balancing of political, social, economic, and natural resource issues. The Sanctuary, designated in May 1994, worked with the U.S. Coast Guard to request the International Maritime Organization (IMO) designate an Area to be Avoided (ATBA) on the Olympic Coast. The IMO defines an ATBA as "a routing measure comprising an area within defined limits in which either navigation is particularly hazardous or it is exceptionally important to avoid casualties and which should be avoided by all ships, or certain classes of ships". This ATBA was adopted by the IMO in December 1994, "in order to reduce the risk of marine casualty and resulting pollution and damage to the environment of the Olympic Coast National Marine Sanctuary". The most recent change to the ATBA, effective on December 1, 2012, advises operators of vessels carrying oil or hazardous materials as cargo or cargo residue, and all ships 400 gross tons and above to maintain a 25-mile buffer from the coast. The ATBA provisions recognize that some vessels greater the 400 gross tons may be engaged in allowable activities that occur predominantly within the Sanctuary, e.g. fishing or research. Therefore, the ATBA is targeted at vessels that are transiting through the area, not conducting operations.



CHAPTER X

BRIDGE INFORMATION

BRIDGE PROGRAM INFORMATION

Background

In 1967, the Bridge Program was transferred from the Army Corp of Engineers to the U.S. Coast Guard within the Department of Transportation. On 01 March 2003, the U.S. Coast Guard became an agency of the U.S. Department of Homeland Security. The Coast Guard is responsible for approval of the location and plans of bridges and causeways constructed across navigable waters of U.S. In addition, the Coast Guard is responsible for approval of the location and plans of international bridges, and the alteration of bridges found to be unreasonable obstructions to navigation. Authority for these actions is found in in the following laws: 33 U.S.C 401, 491, 494, 511-524, 525 and 535a, 535b, 535c, 535e, 535f, 535g, and 535h (*Note: these are all separate sections, not subsections of 535*). Section 535 and following is popularly known as the International Bridge Act of 1972. The Implementing regulations are found in Title 33, Code of Federal Regulations Parts 114 through 118.

Goals

- 1. To provide reasonably free, safe, and unobstructed passage for waterborne traffic while considering the needs of land transportation.
- 2. Ensure that drawbridge operating regulations provide for the reasonable needs of navigation and land transportation.
- 3. Identify unreasonably obstructive bridges and order their removal or alteration.
- 4. Ensure the timely engineering of bridge design; construction for bridge removal or alteration projects to remove unreasonable obstructions to navigation with due consideration for land traffic needs and the environment.
- 5. Regulate bridge lighting for the safety of navigation and land traffic for every bridge which crosses waterways with significant nighttime navigation.
- 6. Optimize resources to best meet growing workload and customer needs.

The Bridge Section of the Aids to Navigation and Waterways Management Branch administers the program for bridges over the navigable waters of the Thirteenth Coast Guard District. To report bridge discrepancies or request information about bridges contact the Bridge Section at (206) 220-7282 or visit https://www.pacificarea.uscg.mil/Our-Organization/District-13/District-Staff/-dpw/-bridges/.

DRAW BRIDGE OPERATIONS

Drawbridges are required to open on signal for the passage of vessels unless otherwise regulated by the Coast Guard. Some drawbridges are regulated so that they need not open during periods of heavy vehicular usage to prevent land traffic congestion. Bridges also may operate with advance notice requirements where constant attendance by a bridge operator is not warranted due to infrequent vessel passages on a particular waterway. The Coast Guard may also authorize a deviation from normal operating procedures to accommodate repair work or a public event. Temporary deviations from normal operation are announced via Broadcast Notices to Mariners and/or the weekly Local Notice to Mariners. Drawbridge operation regulations, including proper signaling procedure, can be found in the current editions of 33 Code of Federal Regulations Part 117 (for all of the U.S.). The Code of Federal Regulations is available for sale from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402 or any U.S. Government Bookstore. The electronic version of these regulations may also be found on the internet at: https://www.ecfr.gov/cgi-bin/ECFR?page=browse

VHF-FM CHANNEL 13

Channel 13 (156.650 MHz) is designated for use by vessels for communicating with drawbridges and locks. This channel is also the ship-to-ship channel for matters that concern vessel safety. Recreational boaters should use proper radio procedure as prescribed by the Federal Communications Commission.

BRIDGE PERMITS

Bridges across navigable waters of the United States are permitted only so long as they serve the needs of land transportation, and provide for the reasonable needs of navigation. The Coast Guard ensures marine safety, security, and stewardship, and contributes to the freedom of navigation through its authority to approve the location and plans of all new bridges, modifications of existing bridges, and causeways in or over navigable waterways of the United States. The Bridge Program determines whether a proposed bridge or modification will provide for the reasonable needs of safe and reasonably unobstructed navigation on the waterway; while also providing for land based modes of transportation that will use the bridge. Persons contemplating the construction of new bridges, or the modification of existing bridges, should contact the bridge section to find out if a permit is necessary for the planned work. Certain works and waterways are exempt from permitting requirements. For the purposes of Coast Guard jurisdiction, "bridges" include roadway, railway, and pedestrian bridges as well as pipelines, conveyers, and cable-held conveyances.

NOTE: Overhead and submarine power or communication cables are within the jurisdiction of the U.S. Army Corps of Engineers.

BRIDGE LIGHTING

The Coast Guard prescribes and permits lighting on bridges. The lighting on bridges may vary with the needs of the waterway and the peculiarities of the bridge profile. On fixed bridges, red lights mark the piers or pilings, and two green lights, usable as range lights, mark the center of channel. These green lights often mark only the main and alternate channel, if one is designated, but do not mark every span that some vessels could pass through. Drawbridges often do not show any green lights except in the fully opened position. No bridges in the Thirteenth Coast Guard District are marked in the lateral system. The lights on bridges perform as navigational aids, and have Light List numbers, and are regulated under the same part of the federal code as private aids to navigation. While the Coast Guard Auxiliary conducts an annual inspection of bridge lights, any mariner is encouraged to report lighting discrepancies to the nearest Coast Guard Sector.

CHAPTER XI

CHARTS AND PUBLICATIONS

CHARTS

NAUTICAL CHARTS / NATIONAL OCEAN SERVICE (NOS)

Nautical charts are published primarily for the use of the mariner, but serve the public interest in many other ways. They are compiled principally from National Ocean Service (NOS) basic field surveys, supplemented by data from other government organizations. The NOS provides charts and related publications for the safe navigation of marine and air commerce, and provides basic data for engineering and scientific purposes and other commercial and industrial needs. Nautical charts show the nature and shape of the coast, depths of water, general configuration and character of the bottom, prominent landmarks, port facilities, cultural details, aids to navigation, marine hazards, and other pertinent information for safe navigation. Changes brought about by people and nature requires that nautical charts be constantly maintained and updated to aid safe navigation. Conventional and small-craft nautical charts vary in scale and format. For coastal navigation, boaters should use the largest scale chart available. NOS produces a variety of chart products for the mariner.

For information on obtaining paper and raster navigational charts (RNC) visit <u>https://nauticalcharts.noaa.gov/charts/noaa-raster-charts.html</u>.

For information about and how to obtain electronic navigational charts (ENC) visit <u>https://nauticalcharts.noaa.gov/charts/noaa-enc.html</u>. At that webpage NOAA also provides an online viewer of their ENC products.

In November 2019, NOAA initiated a five-year process to end all raster nautical chart production, including traditional paper chart products. NOAA is intent on easing the transition to electronic navigational chart (ENC) based products while continuing to support safe navigation. This includes improving data consistency and providing larger scale coverage for the electronic navigational chart. NOAA is aware that some chart users prefer paper charts. Although production of traditional paper charts will stop, a new form of paper nautical chart will be available through the NOAA Custom Chart capability (currently in prototype form). This system will enable users to create, customize, and print paper charts themselves, or have large format charts printed and delivered by a NOAA certified print-on-demand (POD) chart agent. For more information on the transition, visit https://nauticalcharts.noaa.gov/publications/docs/raster-sunset.pdf

NAUTICAL CHART NEW EDITION DATE INFORMATION

NOS nautical charts have traditionally shown a date in the lower left corner of the chart. In the past, that was the date through which corrections had been made to the new edition of the chart from the Notice to Mariners, published weekly by NGA and the LNMs issued weekly by each Coast Guard district. Users should visit NOAA's Chart Locator web page to ensure they have the latest editions and updated charts, to choose the charts and the particular format they desire https://www.charts.noaa.gov/InteractiveCatalog/nrnc.shtml.

The weekly U.S. Notice to Mariners (NTM), published by NGA, is available on their portal at <u>https://msi.nga.mil/NGAPortal/MSI.portal</u> weeks before the issue date of that publication. This has resulted in a significant difference in the publication dates of the latest NTM data and the latest LNM data available when a new edition of a chart is prepared for printing. Due to this difference, NOS has established a policy in which the edition date of a chart will consist of only the month and year of that chart's printing. Separate dates will be shown on the chart indicating the date of the NGA weekly NTM and the date of the latest Coast Guard LNMs corrections that has been applied to the chart. To keep the new edition fully corrected mariners will need to check NGA's NTM and the Coast Guard LNM back to the dates printed on the chart.

Chart users are reminded that NOS print-on-demand charts are custom printed when ordered by authorized chart agents and include all of the latest NTMs and LNMs corrections issued since the last new edition was published. Print-on-demand charts also indicate separate dates for the latest NTMs and LNMs affecting that updated product.

DEPTHS ON CHARTS

Depths are in feet, fathoms, or meters (below chart datum unless otherwise stated). The controlling depth of a channel is the least depth within the limits of the channel; it restricts the safe use of the channel to drafts less than that depth. The centerline controlling depth of a channel applies only to the channel centerline; lesser depths may exist in the remainder of the channel. The mid-channel controlling depth of a channel is the controlling depth of only the middle half of the channel. Federal Project Depth is the designed dredging depth of a channel constructed by the U.S. Army Corps of Engineers. The project depth may or may not be the goal of maintenance dredging after completion of the channel and, for this reason project depth must not be confused with controlling depth. Depths alongside wharves usually have been reported by owners and/or operators of the waterfront facilities, and have not been verified by government surveys. Since these depths may be subject to change, local authorities should be consulted for the latest controlling depths. In general, the Coast Pilots give the project depths for deep-draft ship channels maintained by the Corps of Engineers. The latest controlling depths are usually shown on the charts and published in the U.S. Coast Guard's Local Notice to Mariners (LNM) and National Geospatial-Intelligence Agency (NGA) U.S. Notice to Mariners. For other channels, the latest controlling depths available at the time of publication are given.

NAUTICAL CHART SYMBOLS AND ABBREVIATIONS - INFORMATION

Symbols and abbreviations approved for use on all regular nautical charts published by the National Geospatial Intelligence Agency (NGA) and NOS are contained in the latest edition of Chart No. 1, United States of America Nautical Chart Symbols and Abbreviations. The 13th Edition, April 15, 2019, is the latest edition of this publication which is available for download at: https://nauticalcharts.noaa.gov/publications/us-chart-1.html and maybe available in limited numbers from Government Printing Offices or authorized sales agents. The introduction to this publication includes a number of paragraphs on metric and fathom charts, chart modernization, soundings, drying heights, shorelines, landmarks, buoys, International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA-AISM) buoyage, heights, conversion scales, traffic separation schemes, names, correction dates, and special foreign symbols. Buoys and beacons of the IALA-AISM Buoyage System Regions A and B are illustrated in the back of Chart No. 1, including light characteristics in full color. The Index of Abbreviations section of Chart 1 includes abbreviations of principal foreign terms commonly used on foreign charts. More information on unabbreviated foreign terms is provided in NGA Sailing Directions. Identification of these terms is helpful to the chart user for many national languages are used beyond their country of origin; for example, Spanish in many Latin American countries and Portuguese in Brazil. Despite the improved presentation of foreign charting symbols in this section of Chart No. 1, certain reproductions of foreign charts published by NGA may show symbols and abbreviations, and other distinctive features that differ from those illustrated. The mariner is warned that the buoyage systems, shapes, and colors used by other countries have a different significance than the U.S. system.

REPORTING CHART DEFICIENCIES

Mariners are requested to report all significant discrepancies in, and desirable additions to, NOS nautical charts; including depth information in privately maintained channels and basins; obstructions, wrecks, and other dangers; new landmarks or nonexistence/relocations of charted ones; uncharted private aids to navigation; and deletions or additions of small-craft facilities. All such reports should be sent to: Chief, Marine Chart Division (N/CS2),

National Ocean Service, NOAA, 1315 East West Highway, Silver Spring, Maryland 20910-3282, or submit online at: https://www.nauticalcharts.noaa.gov/customer-service/assist/. The date of a chart is of vital importance to the navigator. When charted information becomes obsolete, further use of the chart for navigation may be dangerous. Announcement of new editions of nautical charts are published in NGA's Weekly Notices to Mariners and the Coast Guard's Local Notices to Mariners. The value of a nautical chart depends upon the accuracy of the surveys on which it is based. The chart reflects what was found by field surveys and what has been reported to NOS Headquarters. The chart represents general conditions at the time of surveys or reports, and does not necessarily portray present conditions. Significant changes may have taken place since the date of the last survey or report.

GEOGRAPHIC NAME USAGE FOR NGA PRODUCTS

Whenever possible, names used on NGA publications are in the form approved by the U.S. Board of Geographic Names. Generally, local official spellings are used for those features entirely within a single sovereignty, while names of countries and those features which are common to two or more countries, or which lie beyond single sovereignty, carry Board-approved conventional spellings (i.e.: names in common American usage). When alternate names would be of value to the user, they may be shown for informational purposes within parentheses. Important individual name changes are made to all revised charts as the opportunity permits. Geographic names, or their spelling, do not necessarily reflect recognition of the political status of an area by the U.S. Government.

REPORTING DEPTH INFORMATION

The many ships presently equipped with reliable depth recorders constitute a potential wealth of sounding data desired by charting agencies for the purpose of confirming charted depths or charting heretofore unknown depths. While oceanographic survey vessels remain the primary source of bathymetric data, depth recordings submitted by Navy, Coast Guard, and merchant vessels make an important contribution to the vital task of charting the oceans.

Mariners are encouraged to obtain and report soundings whenever bridge routine and equipment capabilities allow. Chart 5103 and Publication 606 depict bathymetric requirements and provide some guidance for observing and reporting sonic soundings. However, soundings must be correlated to positions and accompanied by supportive data such as:

- 1. Detailed position/time information.
- 2. Mariners own evaluation of positional accuracy type of navigational system used and frequency of fixes.
- 3. Ship's course and speed with times of changes noted.
- 4. Echogram scales in use, graduated scales provided, and time of scale changes.
- 5. Draft of vessel and if zero reference is corrected for draft.
- 6. Regular annotations of date/time marks on echograms to enable correlation with position.
- 7. Other related information considered appropriate

An uncharted depth of 15 fathoms or less should be considered an urgent danger to navigation, and should be reported via radio without delay. Follow up with substantiating evidence, including the echogram, track chart and/or position log and all relevant navigational data and forward to NIMA at the earliest opportunity. Charts submitted to amplify a sounding report will be replaced, on request, with a new chart, except that foreign charts will be replaced with the equivalent U.S. chart, if available. Data reports and charts should be sent to Maritime Domain, ST D44, National Geospatial-Intelligence Agency, 4600 Sangamore Road, Bethesda, MD. 20816-5003, either via mail or any U.S. Consulate.

PUBLICATIONS

COAST GUARD LOCAL NOTICES TO MARINERS (LNMs)

Mariners should rely on LNMs as their primary source of information, with the Broadcast Notices to Mariners (BNM) providing information of such importance that it must be announced immediately. Once the information is published in the LNM usually it will not be included in a BNM. The LNM is published weekly. Although individual articles refer to specific charts and/or publications, it is the responsibility of users to decide which of their charts and publications require correction. The following is a list and brief description of each section:

- 1. Section I: SPECIAL NOTICE contains information of a special nature that affects the marine environment. New information is published in this section when first received and after four weeks it is moved to the General Notice section if still pertinent. Articles such as DGPS off-air periods, lock closures, and changes in regulations pertaining to pilotage and other marine related regulations will be contained in this section.
- 2. Section II: DISCREPANCIES DISCREPANCIES CORRECTED contains a tabulation of all discrepancies in aids to navigation and those which have been corrected from the last published list.
- 3. Section III: TEMPORARY CHANGES TEMPORARY CHANGES CORRECTED contains information similar to Section II but which is of a temporary nature such as relocating aids for dredging operations or a temporary buoy replacing a destroyed structure or missing buoy.
- 4. Section IV: CHART CORRECTIONS lists all corrections to federal and privately maintained aids to navigation, as well as NOS chart corrections. Each chart will be listed separately, in ascending order. Thus, a single correction might appear several times; once for each chart covering the affected area. An explanation of the format of the Chart Correction Section will be in each issue of the LNM.

- 5. Section V: ADVANCE NOTICE OF CHANGES IN AIDS TO NAVIGATION contains advance notice of approved projects which are scheduled for a certain date of accomplishment.
- 6. Section VI. PROPOSED CHANGES IN AIDS TO NAVIGATION contains notices of projects conceived and in the planning stage, but which have not been approved or scheduled for accomplishment.
- Section VII: GENERAL contains information on new publications, channel conditions, obstructions, dangers, salvage operations, bridges, regattas, and other items of general concern to the maritime community. Information on bridge discrepancies and lockage notices is in the front of this section, with other information placed geographically in order.
- 8. Section VIII: CORRECTIONS TO LIGHT LIST, VOLUME VI; PACIFIC COAST AND PACIFIC ISLANDS contain all of the corrections to the Thirteenth Coast Guard District's Aids to Navigation that are included in the Light List.
- 9. ADDITIONAL ENCLOSURES contains items such as a listing of dredging operations, marine events, tabulations, chartlets, public notices, and other pre-printed material.

AVAILABILITY OF THE LOCAL NOTICE TO MARINERS

The Thirteenth Coast Guard District LNM is a free publication. It is available via the internet at: <u>https://www.navcen.uscg.gov/?pageName=lnmDistrict®ion=13</u> The LNMs and BNMs are the primary means the Coast Guard has for communicating important information concerning navigation safety. The Coast Guard Navigation Center provides an RSS feed service for each Coast Guard District LNM. Go to <u>https://www.navcen.uscg.gov/?pageName=feeds</u> and click on the appropriate District to receive an email each time a new LNM is published.

NGA U.S. NOTICE TO MARINERS

Subscriptions are limited to bona fide mariners who, when submitting requests, must include a sound justification for the worldwide coverage provided by this publication. The U.S. Notice to Mariners will contain only those chart corrections of interest to ocean going vessels. The NTM is issued free of charge, however, subscribers outside the continental United States must pay for shipping costs. The NTM and other marine information are also available at the following website: http://msi.nga.mil/NGAPortal/MSI.portal.

Weekly NTMs chart and publication corrections are compiled in the Summary of Corrections published by NGA. Those corrections effective since July 5, 1975 are included in Volume 4 of the Summary of Corrections. All corrections subsequent to that date, which remains effective, appear in each issue. The Summary of Corrections, Volume 5, contains corrections for World and Ocean Basin Charts, U.S. Coast Pilots, Sailing Directions, Fleet Guides, and other miscellaneous publications. Each volume is published semiannually and may be purchased individually or on an annual subscription basis. The Summary of Corrections is not posted to their web site as PDF files due to their enormous file sizes, often exceeding 200MB per Volume when including the graphic corrections. However, all of the information contained within the five *Summary of Corrections* Volumes is available by database query from the Notice to Mariners section.

ADDITIONAL NGA PRODUCTS

NGA provides a wide variety of hydrographic, navigational, topographic, and geodetic data, charts, maps, and related products and services to the Armed Forces, other Federal agencies, the U.S. Merchant Marine and mariners for areas outside the United States. Publications include Sailing Directions (pilots), List of Lights, Distances Between Ports, Radio Navigational Aids, International Code of Signals, and the American Practical Navigator, AKA Bowditch. These publications can be found at https://msi.nga.mil/Publications

National Imagery and Mapping Agency (NIMA) charts and publications are listed in the Hydrographic Regional Catalog, Volumes I through X. Both NOAA/NOS and NGA produced products are available from NOAA/NOS Aeronautical and Chart Sales Agents.

NOS COAST PILOTS

The NOS Coast Pilot is a series of nine nautical books that cover a wide variety of information important to navigators of U.S. coastal and intercoastal waters, and the waters of the Great Lakes. Most of this book information cannot be shown graphically on the standard nautical charts and is not readily available elsewhere. The subjects in the Coast Pilot include, but are not limited to: Channel descriptions, anchorages, bridge and cable clearances, currents, tide and water levels, prominent features, pilotage, towage, weather, ice conditions, wharf descriptions, dangers, routes, traffic separation schemes, small craft facilities, and Federal regulations applicable to navigation. New in the 2019 editions is the inclusion of the U.S. Coast Guard International Regulations for the Prevention of Collisions at Sea (72 COLREGS) and the Inland Navigation Rules -- commonly known as the "Rules of the Road." Having the newly published Coast Pilot now fulfills the legal requirement for mariners to maintain a copy of these regulations on board. Changes to the Coast Pilot that affect the safety of navigation and are reported to NOS in the interim period between editions can be found, along with previous online versions of the Coast Pilot, is on the following NOS website: https://nauticalcharts.noaa.gov/publications/coast-pilot/index.html

NOAA recently announced that U.S Coast Pilot 7, Pacific Coast: California, Oregon, Washington, and Hawaii, will be divided into two editions in the spring 2020 due to its large size. The California region will remain in Coast Pilot 7 while a new edition will be produced with the remaining regions, U.S. Coast Pilot 10, Pacific Coast: Oregon, Washington, Hawaii and Pacific Islands 1st Edition, 2020. This new edition is expected to be issued and ready for free download on June 9, 2020. Until Coast Pilot 10 is available, mariners should continue to use Coast Pilot 7.

NOS TIDE AND TIDAL CURRENT TABLES

NOAA recently announced that due to the availability of electronic predictions products, NOAA is ending the production of the printed publications Tide and Tidal Current Tables. The final printed edition will provide tide and tidal current predictions for the calendar year 2020. NOAA is providing all tide and current data in these online services:

- NOAA Tide Predictions https://tidesandcurrents.noaa.gov/tide predictions.html •
- Current Predictions https://tidesandcurrents.noaa.gov/noaacurrents/Regions •

These online services provide predictions which equal or exceed the accuracy and availability of the predictions at domestic locations provided through the printed publications, and provide additional capabilities allowing the predictions to better meet a variety of different user needs. These online services will provide predictions for locations for the U.S. coast; and areas in which NOAA has some responsibility or authority.

The Tides and Tidal Current Tables for 2020 and previously are available for download at the following website: https://tidesandcurrents.noaa.gov/historic tide tables.html

OTHER GOVERNMENT PUBLICATIONS FOR THE MARITIME COMMUNITY

The following lists some of the more popular Government publications available for the maritime consumer. Many are free; however, it is recommended that you verify the current price with the source before ordering. The following publications are available from the U.S. Government Bookstore at: http://bookstore.gpo.gov/, or by calling (866) 512-1800:

1. NAVIGATION RULES AND REGULATIONS HANDBOOK: Contains requirements for navigation lights, shapes, sound signals, and maneuvering rules that must be followed by U.S. vessels navigating the high seas and U.S. inland waters. This book is required by law to be carried on vessels (both commercial and recreational) 12 meters (39.4') or more in length. It is also available as a download from the U.S. Coast Guard Navigation Center at the following site:

https://www.navcen.uscg.gov/index.php?pageName=NavRulesAmalgamated

- LIGHT LISTS: A comprehensive listing of the official names, locations, and characteristics of all aids to 2. navigation maintained by the Coast Guard (in seven volumes). It is available as a download from the U.S.Coast Guard Navigation Center at the following site: http://www.navcen.uscg.gov/index.php?pageName=lightLists. Light List Volume VI, Pacific Coast and Pacific Islands, contains all the U.S. Coast Guard aids to navigation in Oregon, Washington and Idaho.
- 3. <u>NAUTICAL ALMANAC</u>: Contains astronomical data used by navigators in celestial navigation.

CANADIAN CHARTS AND NAUTICAL PUBLICATIONS

Canadian nautical charts and publications are available from authorized dealers only. To locate a dealer or for more information you may visit their website at: <u>http://www.charts.gc.ca/charts-cartes/index-eng.asp</u>.

Nautical charts are a necessity for safe navigation and a requirement for commercial navigation under the Canada Shipping Act. Furthermore, the necessity of having up-to-date charts showing the latest information cannot be stressed too strongly, therefore purchasers should correct their own charts from the Weekly Notices to Mariners and obtain New Editions as soon as they are advertised. The Hydrographic Service corrects all charts up to the date of sale, with the exception of those published primarily for small-craft use. Although charts contain a wealth of information, certain details of importance to navigation cannot be included. Such details are given in Sailing Directions which describe the coast, conspicuous landmarks and provide other information such as availability of fuel, berthing facilities, etc. Other related publications provide information concerning tides, water levels, aids to navigation, nautical regulations, etc.

The Canadian Hydrographic Service carries out surveys in Canada's coastal and inland waters for the production of new charts and to improve existing charts and publications. Mariners can assist by notifying the Director, Hydrography, Pacific Region, Canadian Hydrographic Service, Department of Fisheries and Oceans, Sidney, British Columbia, Canada, V8L 4B2, when uncharted dangers to navigation are discovered, or any discrepancies are noticed in any publications.

These publications are of particular importance to mariners and may be obtained from the Hydrographic Chart Distribution Office and authorized dealers. Below is a partial list.

1. SAILING DIRECTIONS

- a. British Columbia Coast (South Portion) Vol. 1.
- b. Inner Passage Queen Charlotte Sound to Chatham Sound (PAC-205E).
- c. Hecate Strait, Dixon Entrance, Portland Inlet and Adjacent Waters and Queen Charlotte Islands (PAC-206E).
- 2. <u>CANADIAN TIDE & CURRENT TABLES</u>. Tide Tables provide predicted times and heights of the high and low waters associated with the vertical movement of the tide. The Current Tables provide predicted times for slack water and the times and velocities of maximum current, all of which are associated with the horizontal movement of the tide. Short term current predictions are available online, and the tide tables are available for downloading from the website <u>http://www.tides.gc.ca/eng.</u>
- <u>LIST OF LIGHTS, BUOYS, AND FOG SIGNALS</u> Published annually for the Pacific Coast and the rivers and lakes of British Columbia Inland waters. They are also available at website: <u>https://www.notmar.gc.ca/list-livre-en.php.</u>
- 4. <u>RADIO PUBLICATIONS</u>. Radio Aids to Marine Navigation (Pacific and Western Arctic) published annually Radiotelephone Operators Handbook land/sea/air. It is also available at website:

http://www.ccg-gcc.gc.ca/Marine-Communications/Home

5. <u>NOTICES TO MARINERS</u>. Canadian "Notices to Mariners," published monthly; contain important navigational information including amendments to Canadian Charts, Sailing Directions, Lists of Lights and Lists of Radio Aids. These "Notices" may be obtained free as a download from the web site_<u>https://www.notmar.gc.ca/index-en.php</u> or can be subscribed to as a monthly email. In addition to the weekly publication one should obtain a copy of the "Annual Notices to Mariners" which contains a wealth of information concerning navigation safety in Canada. This annual publication is very much on the same lines as the U.S. Coast Guard's Special Local Notice to Mariners and is invaluable for those transiting Canadian waters. It can be downloaded at the same website as the Monthly Notices to Mariners.

NOTICE TO MARINERS MARINE INFORMATION, REPORT AND SUGGESTION SHEET

Readers are encouraged to notify the 13th Coast Guard District of any discrepancies found in this book. Please fill this form out, and mail it to:

Commander (dpw) 13th Coast Guard District 915 2nd Avenue, Suite 3510 Seattle, WA 98174-1067

or email to: D13-SMB-D13-LNM@uscg.mil

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Suggestions:

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