COLUMBIA BASIN MARITIME LEADERSHIP TRAINING
COBALT

2024

22 - 25
OCTOBER
2024

Columbia River Maritime Industry & Introduction to COBALT 2024

Columbia River Steamship Operators' Association, Inc.
Kate Mickelson, Executive Director

COLUMBIA RIVER STEAMSHIP OPERATORS' ASSOCIATION

CONTENT

SAFETY BRIEFING & INTRODUCTIONS

BRIEF INTRODUCTION TO THE CRSOA & COBALT

Proudly serving ocean shipping interests calling in the Oregon and Southwest Washington areas since 1922

COBALT 2023

- <u>Co</u>lumbia <u>Ba</u>sin <u>L</u>eadership <u>T</u>raining
  - Now coordinated with USCG Missions Day
  - Introduction to Industry
  - Organized by CRSOA
  - Presented by Industry Professionals
  - Developed by USCG and CRSOA

history of the
CRSOA

The Columbia River Steamship Operators' Association (CRSOA), established in 1922, includes members representing ship owners, operators, agents, towing, and bunkering, as well as facilities and ports along the Columbia, Willamette, Snake River and Oregon Coast River Systems.

GENERAL MEMBERS

AGENTS

ACGI Shipping
Blue Water Shipping, Inc.
Cascade Marine Agencies
Fujitrans USA, Inc.
GAC North America
General Steamship Corp, Ltd
Geo. S. Bush & Co., Inc.
GSB Marine Services LLC
Inchscape Shipping Services
Intercruises Shoreside & Port Services
Interport PNW, LLC
K-Line America, Inc.
Leland Vessel Assistance
Mar-Agensea
North American Shipping Agencies, LLC
Norton Lilly International
SMS International Shore Operations US Inc.
Southport Agencies, Inc.
Talon Marine Services, LLC
Transmarine Navigation Corp.
Transversal International Corp

TOWING/BUNKERING

Foss Maritime
Olympic Tug and Barge
Polar Tankers, Inc. NW/
Conoco Phillips Marine
Rainer Petroleum Corp.
Sause Bros.
Shaver Transportation
Tidewater Barge Lines

ASSOCIATE MEMBERS

PORTS

Port of Kalama
Port of Longview
Port of Portland
Port of Columbia County
Port of Vancouver USA
Port of Woodland

TERMINALS

Columbia Grain International
EGT LLC
Pacificor LLC
United Grain Corporation
Temco
Vancouver Bulk Terminal

SEAFARERS CENTERS

Port of Vancouver Seafarers Center
Portland Seafarers Center

LAUNCH COMPANIES

Anchorage Launch Service
Columbia River Launch Service
Ship to Shore

INSPECTION, CLEANING, SECURITY, OTHER

Executive Security Services, Inc.
Fife Maritime, Inc.
National Cargo Bureau
Overseas Merchandise Inspection Co. Ltd
Three D's Marine, Inc.
Tidal Transport & Trading USA Ltd
Vanport Marine & Industrial Inc.
West Coast Marine Cleaning
Advanced American Construction
Sphere MD
Seaport Marine Surveys, Inc.
Clean Harbors

about the CRSOA

Members of the CRSOA acting as ship agents in the Willamette and Columbia Rivers are appointed by the ship owner or operator to protect their interests at our various terminals and facilities, and are one of the most valuable assets available to ship owners or operators. The ship agent makes all arrangements for the ship and its cargo, prior to arrival, in port, and after departure.

BRIEF INTRODUCTION TO THE COLUMBIA RIVER

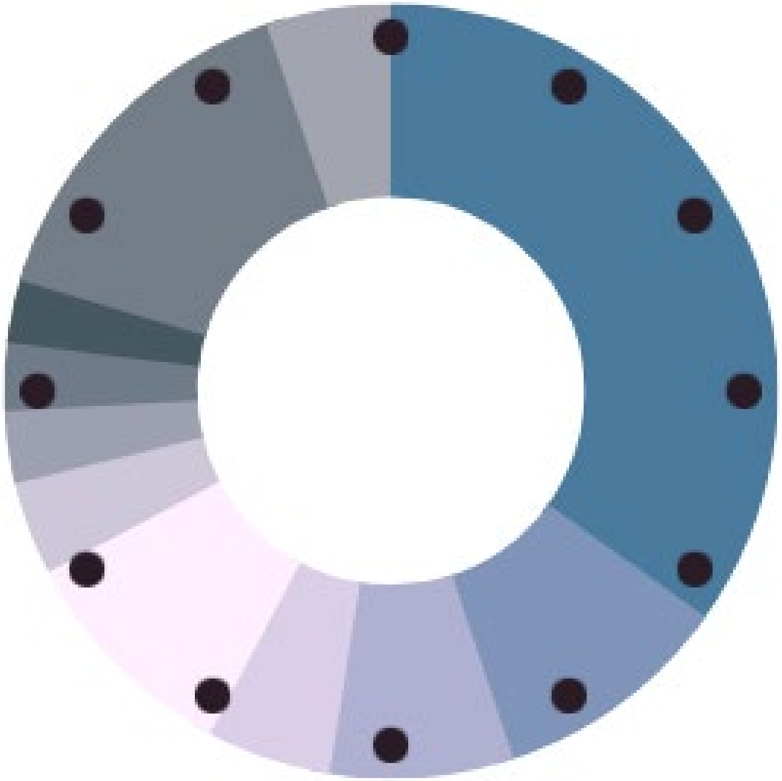
Proudly serving ocean shipping interests calling in the Oregon and Southwest Washington areas since 1922

~ 1,400 YEARLY VESSELS CALLS

49.7 MILLION TONS OF FOREIGN TRADE AT A VALUE OF ~$31.2 BILLION

SUPPORTS ~40,000 LOCAL JOBS

Grain – 455
Autos – 130
Containers – 124
Soda Ash – 100
Potash – 68
Steel Products – 51
Logs & Lumber – 39
Metal & Ores – 37
Petcoke – 34
Petroleum Barge – 198
Petroleum Tanker – 68
Total – 1304



Source: Merchant's Exchange, 2022 Data

A little about

COMMODITIES

The Columbia River is primarily an export port. Vessels come into the river in ballast and load cargo for export.

2022 Vessel Calls by Cargo

COLUMBIA RIVER COMMODITIES

#2 US Soy Exports
2 US Corn Exports

Soy Exports
8.4 Million Metric Tons (2020)
Expected to Grow
Majority from MN, IA, NE, ND, SD, KS, MO, moved by rail

Corn Exports
6.1 Million Metric Tons (2020)
13% US
Comes from Midwest farms via rail for export

CORN & SOY

#1 US Wheat Exports

Nation's leader for wheat exports

60% of all US Wheat

15 Million Metric Tons (2020)

11 states export through the Columbia River

WHEAT

#1 West Coast Auto Exports

90,000 Subarus imported– POV

215,000 Honda, Toyota, GM, Fiat-Chrysler, Hyundai imported – POP

47,000 autos exported – POP

Anticipated to Grow

AUTOS

#1 West Coast Wood Exports
#1 West Coast Mineral Exports

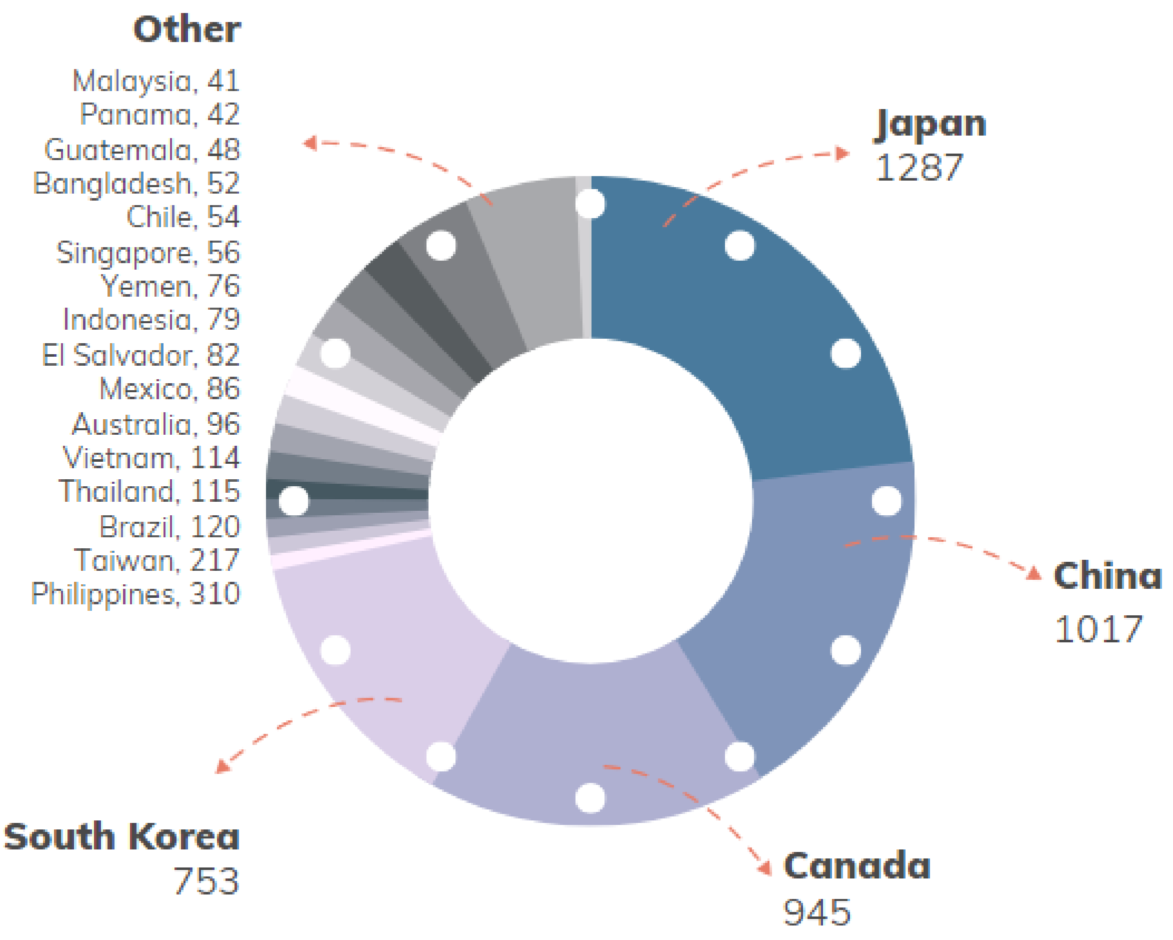
Mineral Bulk
Top West Coast gateway
10 Million Tons (2019)
(Potash, soda ash, bentonite clay, ag chemicals, etc.)

Wood Products
Top exporter on West Coast
2 Million Tons (2019)

MINERAL BULKS & WOOD PRODUCTS

Other commodities such as petroleum products, project cargo (i.e. wind blades), containerized municipal waste, wood chips, sand, gravel and others also travel on our river system. You'll also see deep draft cruise ships as well as river cruises on the Columbia.

NEXT PORT OF CALL



Source: Merchants Exchange, Nov 2022

NAVIGATION

THE COLUMBIA RIVER CHANNEL DEPTHS

- COLUMBIA RIVER BAR – 55’
- BAR TO VANCOUVER – 43’ (105 MILES)
- BARGE CHANNEL – 14’ (365 MILES, EIGHT LOCKS)

MARITIME INFRASTRUCTURE & PROJECTS

FEDERAL NAVIGATION CHANNEL

Photos: Tony Roberts

PILE DIKES/ WING DAMS




Photos: USACE Portland District

JETTIES

Photos: Daily Astorian, USACE

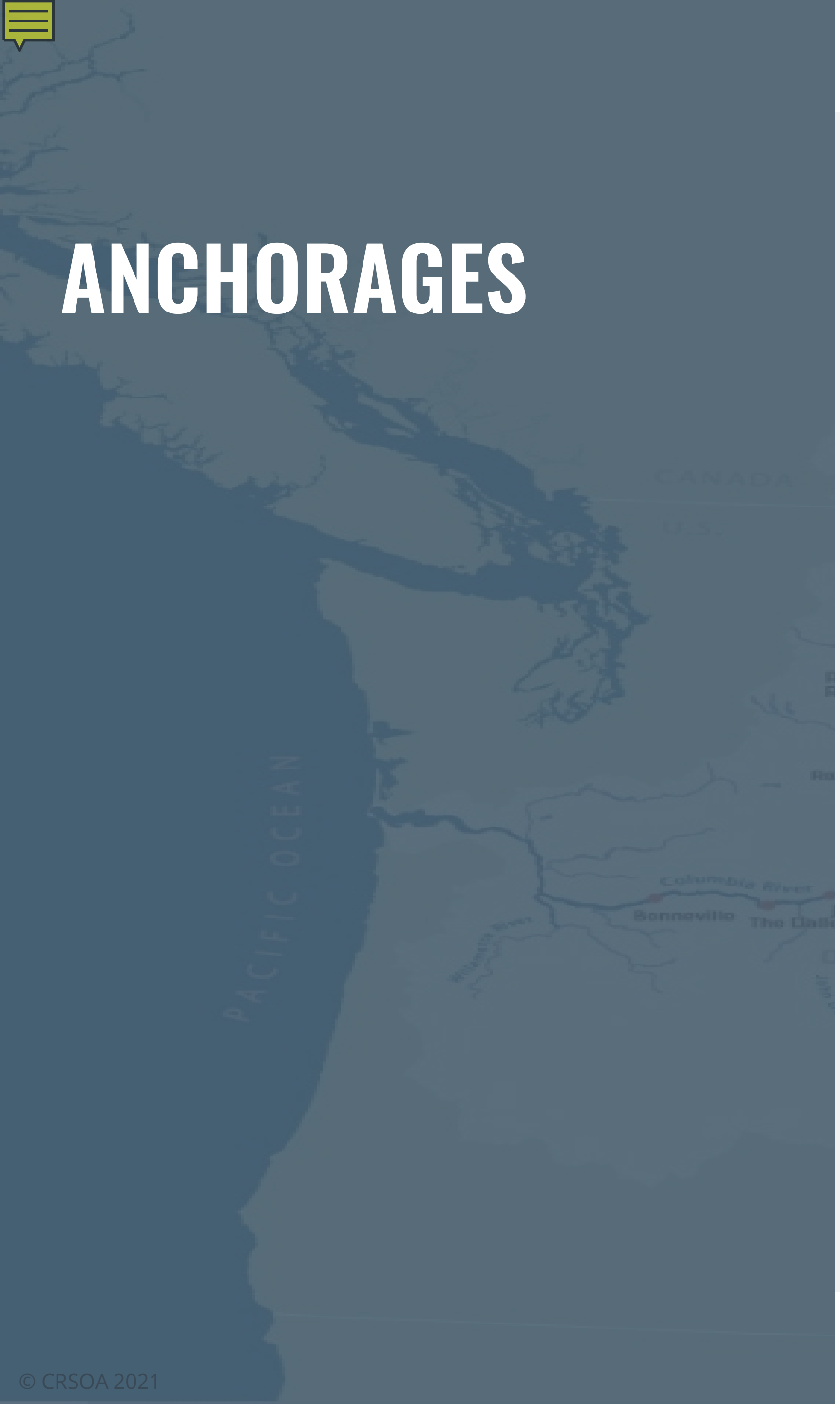
JETTIES

Photos: USACE Portland District

ANCHORAGES

Photo: Tony Roberts, Vancouver Anchorages

ANCHORAGES



The following anchorage grounds are listed under 33 CFR 110.228:

- Astoria North Anchorage
- Astoria South Anchorage
- Longview Anchorage
- Kalama Anchorage
- Woodland Anchorage
- Henrici Bar Anchorage
- Lower Vancouver Anchorage
- Kelly Point Anchorage
- Upper Vancouver Anchorage
- Cottonwood Anchorage
- Prescott Anchorage

- Link to CFR

Anchorage Designation	Anchorage Capacity	Capacity (#)
Astoria North Anchorage	This anchorage approximately 2.5 miles long and is divided into anchoring locations approximately every ½ mile. Under normal conditions, there is room for six vessels to be anchored within this anchorage area; however "The Hole" just west of Buoy 43 is normally kept vacant for deep draft vessels in unusual situations or emergencies or short term anchoring.	6
Astoria South Anchorage	This anchorage approximately 2.75 miles long and is divided into anchoring locations approximately every ½ mile. Under normal conditions, there is room for four vessels to be anchored within this anchorage area.	4
Longview Anchorage	This anchorage runs from Buoy 23 to the Longview Bridge (approximately 1.5 miles long) and can accommodate five vessels.	5
Cottonwood Island Anchorage	This anchorage is 4.5 miles long. Under normal conditions this anchorage accommodates eight vessels including the anchor buoy.	8
Prescott Anchorage	This anchorage is 0.4 miles long. It is intended to accommodate one vessel.	1
Kalama Anchorage	It is permissible to anchor one vessel in the Turning Basin area. A standby tug is required to be secured to the vessel because of the close proximity of the channel. The area off Sandy Island is approximately 1.25 miles long and will accommodate four vessels.	1 4
Woodland Anchorage	This is a small anchorage approximately 0.75 miles long and is rarely used.	N/A
Henrici Bar Anchorage	Henrici Bar Anchorage is a narrow anchorage about 2 miles long and is rarely used.	N/A
Lower Vancouver Anchorage	This anchorage is approximately 4 miles long. Under normal conditions, up to eleven vessels may be anchored within this anchorage area and are arrayed from upstream to downstream.	11
Kelley Point Anchorage	One vessel may be anchored within this anchorage.	1
Upper Vancouver Anchorage	Under normal conditions, up to five vessels may be anchored within this anchorage area and is arrayed from west to east.	5
	Total	46

Source: LCRHSC

STERN BUOY/ ANCHOR BUOY

Photos: Tony Roberts

STERN BUOY/ ANCHOR BUOY

Photos: Tony Roberts

TURNING BASIN

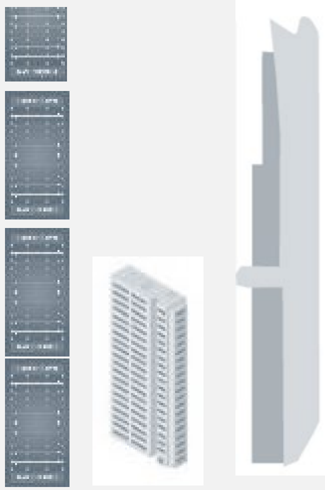
TURNING BASIN

Nearly ¼ mile long!

1 Mile

About 5 min to walk from bow to stern

3 ½ football fields long and more than twice the length of Portland's tallest building!



Portland' tallest building the Wells Fargo Center is 546'

VESSELS THAT CALL THE COLUMBIA RIVER

COLUMBIA RIVER VESSEL TYPES

Open Hatch Cargo Ship
(Photo: COLRIP)

General Cargo Ship

Heavy Lift Ship
(Photo: KOIN)

Log Carriers
(Photo: Sam Beebe)

COLUMBIA RIVER VESSEL TYPES

Panamax Size Bulk Carriers
(Photo: Capt. Chuck Patching, COLRIP)

Container Ship
(Photo: Tim Jewett, Port of Portland)

Cruise Ship
(Photo: Port of Astoria)

Car Carrier/ Pure Car Carrier

COLUMBIA RIVER VESSEL TYPES

Oil Tankers
(Photo: COLRIP)

Articulated Tug and Barge/ ATB
(Photo: COLRIP)

Product Tankers

Military Vessels

COLUMBIA RIVER VESSEL TYPES

Suction Dredge (Dredge OREGON)

Hopper Dredge (Dredge ESSAYONS)
(Photo: Marine Traffic)

Sea Going Tug
(Photo: Sause Bros)

Tug and Barge
(Photo: Tidewater)

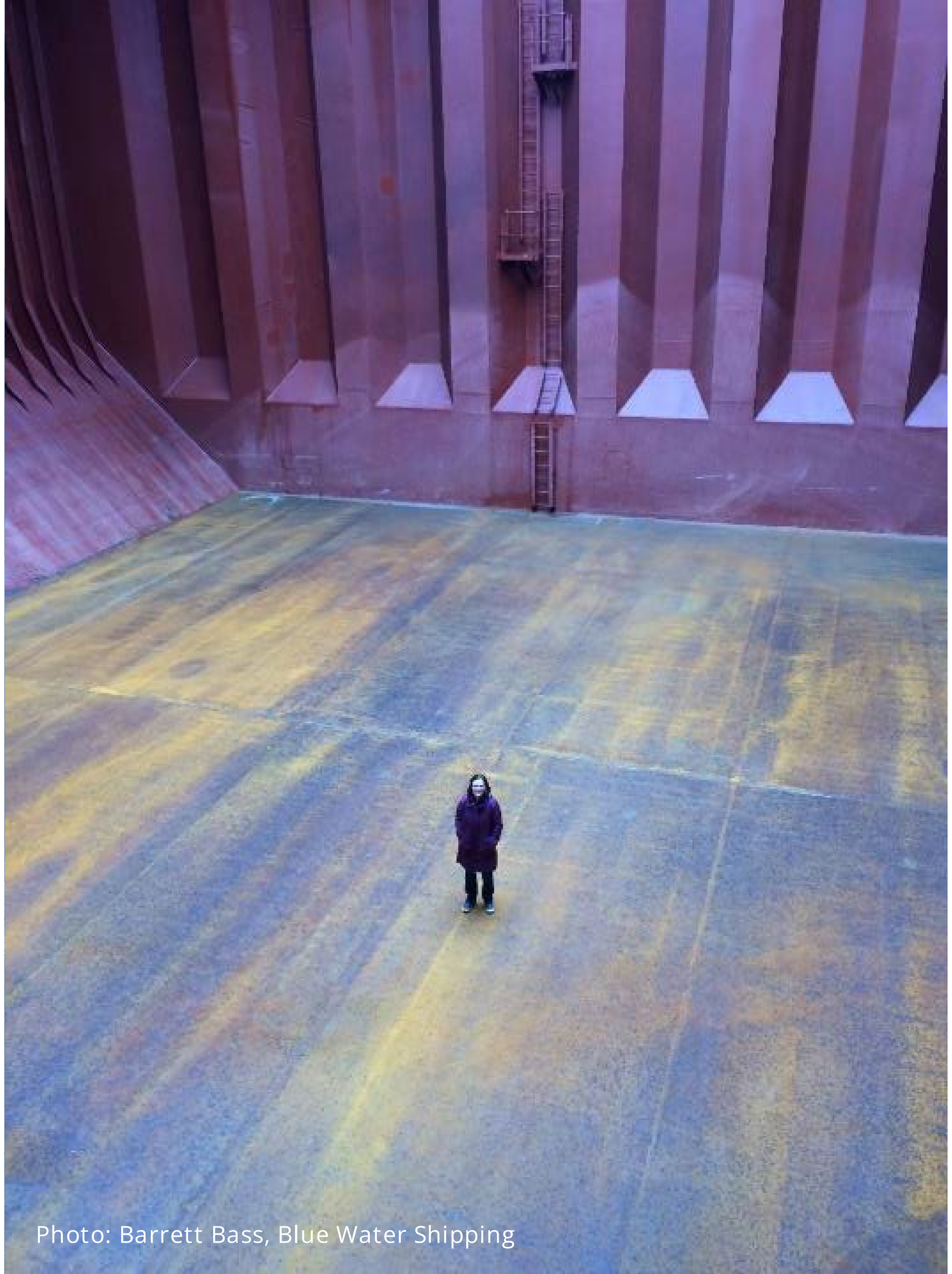


Photo: Barrett Bass, Blue Water Shipping

ship holds are

HUGE

In fact, in the Columbia River we load an average Panamax vessel with 66,000 MT of grain, which is approximately 2,435,060 bushels which takes roughly 48,500 acres to grow!

TRANSIT TIMES

- AUSTRALIA -27 DAYS
- BRAZIL – 34 DAYS
- CHILE – 22 DAYS
- CHINA – 23 DAYS
- EUROPE – 37 DAYS
- INDIA- 37 DAYS
- INDONESIA – 26 DAYS
- JAPAN – 19 DAYS
- KOREA – 19 DAYS
- MEXICO – 5 DAYS
- PANAMA – 16 DAYS

(Photo: Kiwis Water Taxi)

COLUMBIA RIVER TRANSIT TIMES

COLUMBIA RIVER BAR TO:

ASTORIA
1.5 HOURS

LONGVIEW
3.5 HOURS

KALAMA
5 HOURS

ST HELENS/WOODLAND
5-6 HOURS

PORTLAND/VANCOUVER
6-8 HOURS

Columbia River transit times may vary due to factors including individual vessel particulars, weather, current, draft, etc.

COLUMBIA RIVER STEAMSHIP OPERATORS' ASSOCIATION

COLUMBIA RIVER SHIP WATCHING LOCATIONS

(Photo: Capt. Chuck Patching, COLRIP)

KEY PLAYERS ON THE RIVER

Columbia River/ Oregon

DEEP DRAFT PORTS

OREGON PORTS

- Port of Astoria (RM 12)
- Port of Columbia County (RM 85)
- Port of Portland (Willamette River)
- Port of Coos Bay (Southern Oregon)

WASHINGTON PORTS

- Port of Longview (RM 65)
- Port of Kalama (RM 75)
- Port of Vancouver (RM 105)

Columbia River/ Oregon

DEEP DRAFT PORTS

CALLS BY PORT AREA

- Portland – 769
- Kalama – 287
- Longview – 268
- Vancouver – 256
- Rainier – 14
- Astoria – 12
- St. Helens – 2

- Coos Bay - 63

Source: Merchants Exchange

CRSOA
Columbia River Steamship Operators' Association

COLUMBIA RIVER DEEP DRAFT PORT PRESENTATIONS

WEDNESDAY
Port of Portland (yes, again!)

THURSDAY
Pour of Vancouver

FRIDAY
Port of Columbia County
Port of Kalama
Port of Longview

Columbia River Steamship Operators' Association

Columbia- Willamette

GRAIN ELEVATORS

2021 VESSEL CALLS BY GRAIN ELEVATOR

- Kalama Export – 130
- Temco Kalama – 123
- EGT – 116
- United Grain – 95
- Columbia Grain – 52
- Temco Portland - 39

Source: Merchants Exchange

TERMINAL/ELEVATOR PRESENTATIONS

THURSDAY
United Grain Corporation
TEMCO
EGT

You'll also hear from:
National Cargo Bureau (NCB)

VESSEL/SHIP AGENT

Photo: Tony Anderson, Transmarine

BRINGING SHIPS TO THE COLUMBIA RIVER

ORIGIN

BROKERS PLACE CARGOS ON OPEN MARKET

OBTAIN BIDS

VESSEL OWNERS MONITOR POTENTIAL FIXTURES

VESSEL OWNERS REACH OUT TO AGENTS

AGENT PAYS ALL VENDORS –

PILOTS, TUGS, LINES, DOCKAGE, CRSOA

AGENT KEEPS ALL PARTIES UPDATED DAILY

96

96 HOURS PRIOR TO ARRIVAL

US COAST GUARD ENOA (NOTICE OF ARRIVAL), MFSA OIL SPILL CONTIGENCY PLAN ENROLLMENT, USDA ASIAN GYPSY MOTH, HOMELAND SECURITY CREW CHECK, ETC.

48

48 HOURS PRIOR TO ARRIVAL

US CUSTOMS AND BORDER PROTECTION CARGO OPERATIONS, IMMIGRATION, CREW, ETC.

24

24 HOURS PRIOR TO ARRIVAL

OR/WA BALLAST WATER, STEVEDORES, LABOR, TUGS, LINES, PILOTS

HOLD INSPECTIONS

AT BERTH

BOARDS WITH CBP, REVIEWS CARGO OPERATION WITH CAPTAIN, SIGNS ARRIVAL PAPERWORK, ALL OTHER FORMALITIES

AT SAILING

ORDERS PILOTS, TUGS, LINES, COLLECT CARGO DOCUMENTS, CREATES STATEMENT OF FACTS, SENDS DEPARTURE MESSAGE RECAPPING ENTIRE OPERATION AND ETA TO NEXT PORT

AFTER DEPARTURE

RELEASES ALL BILLS OF LADING, PAYS INVOICES, SENDS FINAL ACCOUNT TO OWNER

BON VOYAGE

A little about

OREGON BOARD OF MARITIME PILOTS

The Board of Maritime Pilots licenses and regulates all pilots serving Oregon’s designated pilotage grounds. The Board’s primary responsibilities include establishing license qualifications and training standards, setting rates for pilot service, and investigating maritime incidents.

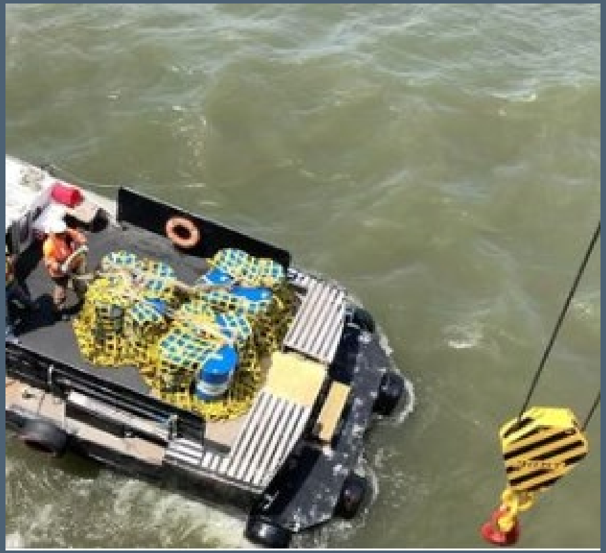
COLUMBIA RIVER BAR PILOTS




Photos: Columbia River Bar Pilots

COLUMBIA RIVER PILOTS

Photos: Columbia River Pilots



Photos: Kiwis Water Taxi, Anchorage Launch

A little about

LAUNCH OPERATORS

A launch boat can also be called a water taxi and provides invaluable service on our river including moving people and cargo between the shore and the ship.

LAUNCH OPERATORS

Photos: Columbia River Launch

Photos: Sause Bros., Tidewater Barge Lines

is it a

TOWBOAT OR TUGBOAT?

If you see it pushing barges up and down the Columbia River then it's a TOWBOAT.

If you see it performing ship assist work (guiding ships in and out of the harbor and/or helping them dock) or pulling vessels at sea then it's a TUGBOAT.

SHIP ASSIST TUGS

SEAGOING TUGS

Photo: Sause.com

Photo: Port of Longview

A little about

STEVEDORES AND LONGSHOREMEN

A stevedore is an organization who manages the operation of loading or unloading a ship. Loading and unloading ships requires knowledge of the operation of loading equipment, the proper techniques for lifting and stowing cargo, and correct handling of hazardous materials. Longshoremen refer exclusively to the skilled dockworkers, while stevedores, are a separate trade union, who work on the ships, operating ships cranes, and moving cargo. In usual present-day U.S. waterfront word usage, a stevedore typically owns equipment used in the loading or discharge operation. Stevedores hire longshoremen to load and unload cargo under the direction of a stevedore superintendent.
-Admiralty US Legal

STEVEDORES AND LONGSHOREMEN

Photos: Port of Longview

INDUSTRY/PILOT PRESENTATIONS

TUESDAY
Southport Agencies
Columbia River Bar Pilots
Columbia River Pilots
Tug and Tow Industry
Launch Boat Industry

GOVERNMENT AND REGULATORY AGENCIES

US Army Corps of Engineers®
Portland District

U.S. Customs and Border Protection

MARAD

DEPARTMENT OF ECOLOGY
State of Washington

business oregon

State of Oregon Department of Environmental Quality
DEQ

Washington Department of FISH AND WILDLIFE

NOAA
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE

FEDERAL BUREAU OF INVESTIGATION
DEPARTMENT OF JUSTICE

...AND MORE!

GOVERNMENT AND REGULATORY AGENCIES

GOVERNMENT/REGULATORY PRESENTATIONS

TUESDAY
US Army Corps of Engineers
NOAA's Office of Coast Survey

WEDNESDAY
Oregon Department of Environmental Quality
Oregon Department of Parks and Recreation
NOAA's NWRFC
Fire Response Boat Tours

THURSDAY
Washington Department of Ecology

FRIDAY
CBP
USCG
MARAD

ASSOCIATIONS

MERCHANTS EXCHANGE

MFSA Fire Protection Agencies Advisory Council 1983

COLUMBIA RIVER TOWBOAT ASSOCIATION

MARITIME FIRE & SAFETY ASSOCIATION

CLEAN RIVERS COOPERATIVE

Fort Vancouver Seafarers Center

MARITIME COMMERCE CLUB Columbia River

CRSOA Columbia River Steamship Operators' Association

Pacific Northwest Waterways Association PNWA

OREGON PUBLIC PORTS ASSOCIATION

LOWER COLUMBIA REGION HARBOR SAFETY COMMITTEE

WASHINGTON GRAIN COMMISSION

...AND MORE!

ASSOCIATIONS PRESENTATIONS

TUESDAY
CRSOA
PNWA
CRTA
OBMP

WEDNESDAY
MEX
MFSA
FPAAC
LCRHSC
CRC

GET TO KNOW OUR TEAM!

Executive Director

KATE MICKELSON

kate@crsoa.net

Contact us!

www.crsoa.net

Columbia River Steamship Operators' Association

Director of Member Services

TEREZA EDWARDS

tereza@crsoa.net

HOW CAN YOU GET INVOLVED?

INDUSTRY LUNCHEONS
COFFEE & CHATS,
COMMITTEES,
AND MORE!

TOURS &
EDUCATIONAL OPPORTUNITIES,
LEGISLATIVE UPDATES,
JOB BOARDS

COBALT,
AGENTS BREAKFASTS,
SOCIAL MEDIA,
AND MORE!

SOCIAL NETWORKING EVENTS
TOP GOLF TOURNAMENT
SPRING FLING,
HOLIDAY PARTIES, ETC.

THANK YOU! BON VOYAGE!

Kate Mickelson, Executive Director
Columbia River Steamship Operators' Association
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www.crsoa.net

Executive Director

KATE MICKELSON

Kate Mickelson is the Executive Director of the Columbia River Steamship Operators' Association (CRSOA). Established in 1922, the CRSOA consists of members representing ship owners, operators, agents, launch services, towing and bunkering, as well as seafarer's centers, facilities, and ports along the Columbia, Willamette, Snake River, and Oregon coast river systems. Ms. Mickelson leads the association's efforts to make the ports in the Columbia River region increasingly popular for commercial ships and shippers to come and do business. Ms. Mickelson works to accomplish this by working closely with Federal, state, and city governments, Federal and state legislators, ports, pilots, and shippers, agricultural and industrial organizations, and with trade associations, unions, and others to ensure that quality services are provided at competitive prices safely, securely, reliably, and efficiently. Kate serves her members on a wide range of maritime organizations including serving as a past Chair of the Lower Columbia Region Harbor Safety Committee, on the International Propeller Club Maritime Policy Committee, the US Coast Guard's Area Maritime Safety Committee Cyber Subcommittee, and she is the President of the National Association of Maritime Organizations (NAMO). She is a recipient of the Pacific Northwest Waterways Association's Distinguished Service Award.

Before joining the CRSOA in 2014, Ms. Mickelson spent over 15 years in the marine engineering industry specializing in marine, port, and ancillary waterfront infrastructure projects. Kate holds a Master of Public Administration and has earned degrees in Civil Engineering and Construction Management and Engineering and Science. Kate resides in Portland with her partner Josh and their black lab Maddie.

Director of Member Services

TEREZA VITKOVA EDWARDS

Tereza Vitkova Edwards is the Director of Member Services for the Columbia River Steamship Operators' Association, a role she assumed in July 2019. As the Director of Member Services, Tereza works closely with the CRSOA's numerous members and associate members. Prior to joining the CRSOA, Tereza was the Communications and Membership Manager for the Pacific Northwest Waterways Association (PNWA). In her current role, Tereza is instrumental in the successful planning and execution of CRSOA's many industry events, including Industry Luncheons, COBALT, Port Executive Director's Breakfast, Board of Directors meetings, educational tours, and more. She manages the association's outreach materials, newsletter publications, and social media accounts. Further, Tereza represents her members on the USCG Sector Columbia River Area Maritime Security Advisory Committee and Pacific Northwest Waterways Associations' PR Committee. Tereza is a graduate of Northern Arizona University and brings over ten years of experience to the CRSOA

SNAKE RIVER DAMS/ DAM BREACHING

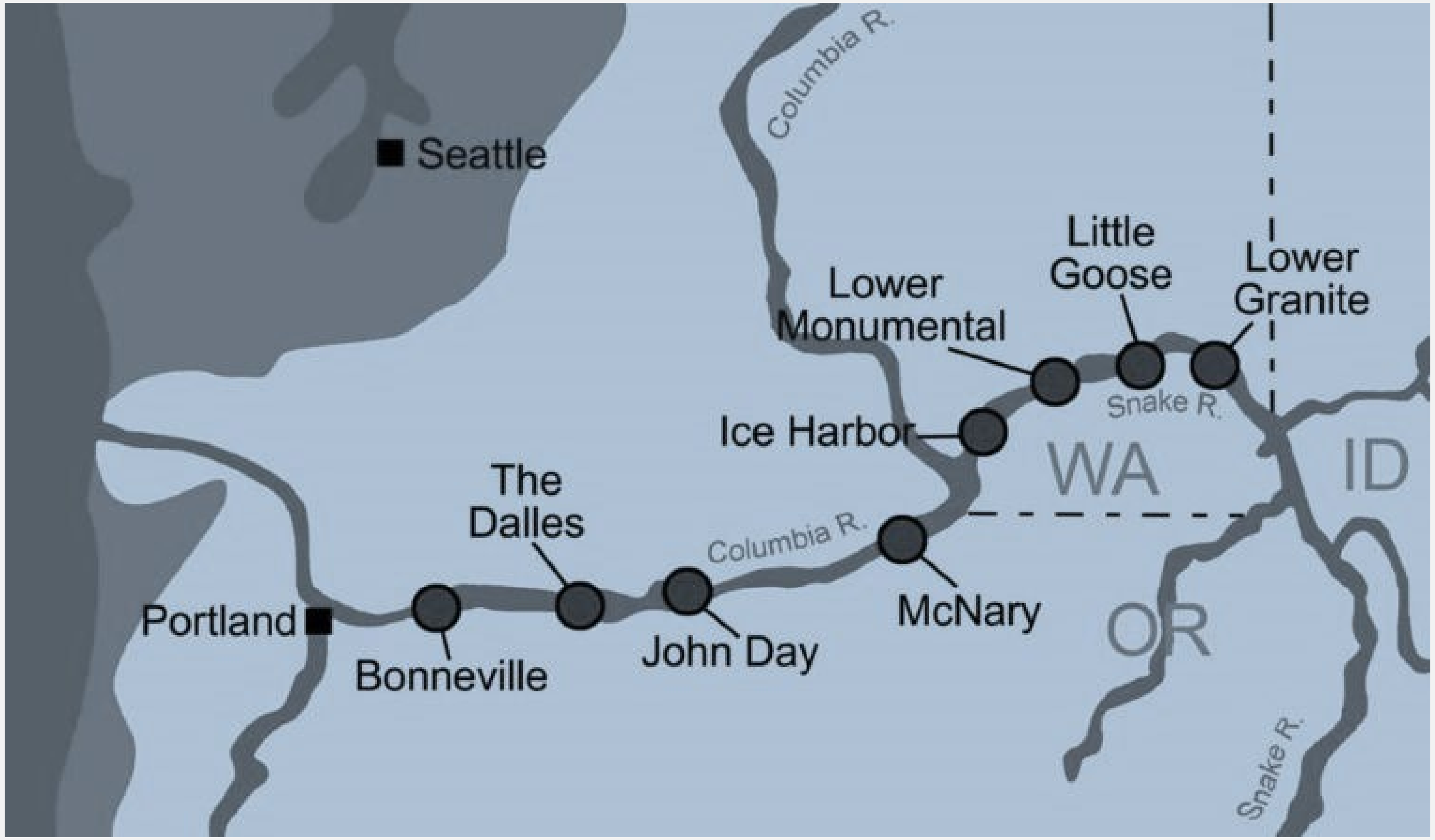

Photo: USACE, edited

REDUCTION OF VESSEL TRAFFIC SPEED

Photo: Tony Roberts

ENVIRONMENTAL PERMITTING

Photo: Tony Roberts; Columbia River Launch Service

OTHER INFRASTRUCTURE PROJECTS

Photo: Crew of Menuett

NOAA PORTS DATA

Photo: Tony Roberts

PORT SAFETY & SECURITY

Photo: Tony Roberts