SOUNDINGS IN FEET

NOAA encourages users to submit inquiries, discrepancies or comments about this chart at http://www.nauticalcharts.noaa.gov/staff/contact.htm

Formerly C&GS 6155, 1st Ed., Feb 1925 G-1951-776 KAPP 1743

CONTINUED ON CHART 18525

CAUTION

Numerous obstructions found in 2009,consisting mainly of submerged snags and ruined piles, are not charted in the Willamette and Columbia Rivers and Multnomah channel south of the Sauvie Island Fixed Bridge. These obstructions do not present a hazard to surface navigation, but should be taken into consideration for ground fishing and anchoring.

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 13th Coast Guard District in Seattle, Washington or at the Office of the District Engineer, Corps of Engineers in Seattle, Washington.

Refer to charted regulation section numbers.

SCALE 1:20,000

Nautical Miles ½ 0 ½ 1 1½

Statute Miles ½ 0 ½ 1 1½

Yards 500 0 500 1000 1500 2000 2500

SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

SOURCE			
A	1990-2009	NOS surveys	full bottom coverage
B1	1990-2003	NOS surveys	partial bottom coverage
B3	1940-1969	NOS surveys	partial bottom coverage
B4	1900-1939	NOS surveys	partial bottom coverage

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

CAUTION

Freshets occur annually during the months of May, June, and July which may cause some shoaling; however, channels are restored to project depths as soon thereafter as possible.

STATUTE MILES

COLUMBIA AND WILLAMETTE RIVERS

Mileage distances along the Columbia and Willamette Rivers are in Statute Miles. Distances along the Columbia River are eastward from the mouth, and along the Willamette River are southward from the junction of the Columbia River and are indicated thus: —●—

Tables for converting Statute Miles to International Nautical Miles are given in U.S. Coast Pilot 7.

TIDES

The diurnal range of the tide during low river stages is 1.8 feet at Vancouver (45°37'N.,122°40'W.), 2.2 feet at St. Johns (45°35'N., 122°46'W.) and 2.4 feet at Portland (45°31'N., 122°40'W.). The range becomes progressively smaller with higher stages of the river.

May 2012

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated):

AERO aeronautical	G green		Mo morse code	R TR radio tower	
Al alternating	IQ interrupted quick		N nun	Rot rotating	
B black	Iso isophase		OBSC obscured	s seconds	
Bn beacon	LT HO lighthouse		Oc occulting	SEC sector	
C can	M nautical mile		Or orange	St M statute miles	
DIA diaphone	m minutes		Q quick	VQ very quick	
F fixed	MICRO TR microwave tower		R red	W white	
Fl flashing	Mkr marker		Ra Ref radar reflector	WHIS whistle	
			R Bn radiobeacon	Y yellow	

Bottom characteristics:

Blds boulders	Co coral	gy gray	Oys oysters	so soft
bk broken	G gravel	h hard	Rk rock	Sh shells
Cy clay	Grs grass	M mud	S sand	sy sticky

Miscellaneous:

AUTH authorized	Obstn obstruction	PD position doubtful	Subm submerged
ED existence doubtful	PA position approximate	Rep reported	

⚓ Wreck, rock, obstruction, or shoal swept clear to the depth indicated.

(2) Rocks that cover and uncover, with heights in feet above datum of soundings.

HEIGHTS

Heights in feet. Contour elevations referred to Mean Sea Level.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey and U. S. Coast Guard.

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus: ⊙(Accurate location) o(Approximate location)

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 7 for important supplemental information.

THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES - WEST COAST

OREGON - WASHINGTON

PORT OF PORTLAND

INCLUDING VANCOUVER

Mercator Projection
Scale 1:20,000 at Lat 45° 34'

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS AND CLEARANCES OF BRIDGES AND OVERHEAD CABLES IN FEET

AT COLUMBIA RIVER DATUM

(MEAN LOWER LOW WATER DURING LOWEST RIVER STAGES)

Additional information can be obtained at nauticalcharts.noaa.gov.

COLUMBIA RIVER PROJECT DEPTHS MORGAN CHANNEL TO TOMAHAWK BAR (see note)	
NAME OF CHANNEL	PROJECT DEPTH CRD (FEET)
MORGAN CHANNEL	43
VANCOUVER LOWER CHANNEL	43
VANCOUVER RANGE	43
VANCOUVER UPPER CHANNEL	43
VANCOUVER LOWER TURNING BASIN	43
VANCOUVER UPPER TURNING BASIN	35
ALTERNATE BARGE CHANNEL NORTH	17
ALTERNATE BARGE CHANNEL SOUTH	17
TOMAHAWK BAR	27

PROJECT DEPTHS

Channel legends and tabulations, where indicated, reflect the U.S. Army Corps of Engineers (USACE) project depths. The channel may be significantly shoaler, particularly at the edges. For detailed channel information and minimum depths as reported by USACE, use NOAA Electronic Navigational Charts. USACE surveys and channel condition reports are available at http://navigation.usace.army.mil/Survey/Hydro.

CAUTION

SUBMARINE PIPELINES AND CABLES

Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:

Pipeline Area — Cable Area

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling.

Covered wells may be marked by lighted or unlighted buoys.

SCALE 1:20,000

Nautical Miles ½ 0 ½ 1 1½

Statute Miles ½ 0 ½ 1 1½

Yards 500 0 500 1000 1500 2000 2500

MULTNOMAH CHANNEL

SOUTHERN PART

Scale 1:10,000

SOUNDINGS AND CLEARANCES OF BRIDGES AND OVERHEAD CABLES IN FEET

AT COLUMBIA RIVER DATUM

(MEAN LOWER LOW WATER DURING LOWEST RIVER STAGES)

SCALE 1:10,000

Half Nautical Mile 0 ½

Half Statute Mile 0 ½

Yards 100 0 100 200 300 400 500

CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

FATHOMS / FEET / METERS

Port of Portland
SOUNDINGS IN FEET - SCALE 1:20,000

SOUNDINGS IN FEET

18526

This is the Last Edition of this chart. It will be canceled on Jul 2, 2024

61st Ed., Oct. 2020. Last Correction: 3/15/2024. Cleared through:
LNM: 1224 (3/19/2024), NM: 1324 (3/30/2024), CHS: 0224 (2/23/2024)

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