

UNITED STATES - WEST COAST
OREGON - WASHINGTON

COLUMBIA RIVER

PACIFIC OCEAN TO HARRINGTON POINT

Scale 1:40,000 at Lat. 46° 13'
North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS AND CLEARANCES OF BRIDGES AND OVERHEAD CABLES IN FEET

AT MEAN LOWER LOW WATER

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

SCALE 1:40,000
Nautical Miles

NAME	PLACES	HEIGHT	CLEARANCE	REMARKS
Columbia River Entrance	141° 16' 12" W 46° 04' 00" N	75	6.0	1.0
Wasco	124° 00' 00" W 46° 00' 00" N	10	1.0	1.0
Ilwaco	124° 00' 00" W 46° 00' 00" N	10	1.0	1.0
Fort Stevens	124° 00' 00" W 46° 00' 00" N	10	1.0	1.0
Clifton	124° 00' 00" W 46° 00' 00" N	10	1.0	1.0
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ABBREVIATIONS (For complete list of symbols and abbreviations, see Chart No. 1.)

Symbol	Meaning	Symbol	Meaning
A	Anchor	W	Wharf
B	Buoy	X	Obstruction
C	Channel	Y	Yacht mooring
D	Dredging	Z	Zone
E	Entrance	AA	Artificial island
F	Ferry	BB	Breakwater
G	Ground	CC	Cable
H	Harbor	DD	Dike
I	Island	EE	Embankment
J	Jetty	FF	Fence
K	Keel	GG	Groynes
L	Light	HH	Head of tide
M	Mound	II	Island
N	Navigational	JJ	Jetty
O	Obstruction	KK	Keel
P	Point	LL	Light
Q	Quarry	MM	Mound
R	Race point	NN	Navigational
S	Sand	OO	Obstruction
T	Tide gauge	PP	Point
U	Uncharted	QQ	Quarry
V	Village	RR	Race point
W	Wharf	SS	Sand
X	Obstruction	TT	Tide gauge
Y	Yacht mooring	UU	Uncharted
Z	Zone	VV	Village

NOTE: The horizontal reference depth of this chart is North American Datum of 1983 (NAD 83), which for all practical purposes is considered equivalent to the World Geodetic System of 1984 (WGS 84). Geographic coordinates related to the North American Datum of 1983 must be corrected an average of 0.00' eastward and 0.00' westward to agree with this chart.

REGULATIONS FOR OCEAN DUMPING: Regulations for Ocean Dumping Sites are contained in 43 CFR, Parts 229-228. Additional information concerning the regulations and requirements for use of the sites may be obtained from the Environmental Protection Agency (EPA), U.S. Coast Guard, or the U.S. Army Corps of Engineers.

STATUTE MILES: Mileage distances along the Columbia River are in statute miles. Distances are indicated by a line with arrows at each end. Distances are given in Coast Pilot 7.

NOAA WEATHER RADIO BROADCASTS: The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The broadcast range is approximately 20 to 40 miles. For more information, see the NOAA website at www.noaa.gov.

ADDITIONAL INFORMATION: Consult U.S. Coast Pilot 7 for important supplemental information.

HEIGHTS: Heights in feet above Mean High Water.

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

CAUTION: Improved channels and broken lines are subject to change. Obstructions are indicated by lighted or unlighted buoys.

BRIDGE CLEARANCES: For bridges, clearance above water level is shown. For cables, clearance above water level is shown. Vertical clearance is not suitable for the entire channel.

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

POLLUTION REPORTS: Report all spills of oil and hazardous substances to the National Response Center at 1-800-424-6343. For more information, see the National Response Center website at www.nrc.gov.

PROJECT DEPTH: Channel depths and soundings shown indicated reflect the U.S. Army Corps of Engineers (USACE) project depths. For detailed channel information and minimum depths as reported by USACE, see NOAA Hydrographic Chart 18521.

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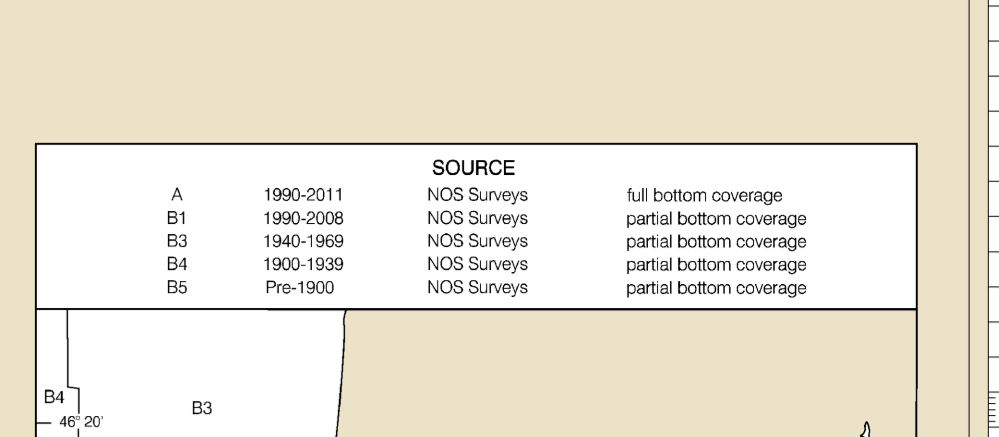
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SOURCE: NOAA Hydrographic Survey, 1983-1984. Partial bottom coverage. NOAA Hydrographic Survey, 1985-1986. Partial bottom coverage. NOAA Hydrographic Survey, 1987-1988. Partial bottom coverage. NOAA Hydrographic Survey, 1989-1990. Partial bottom coverage. NOAA Hydrographic Survey, 1991-1992. Partial bottom coverage.

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