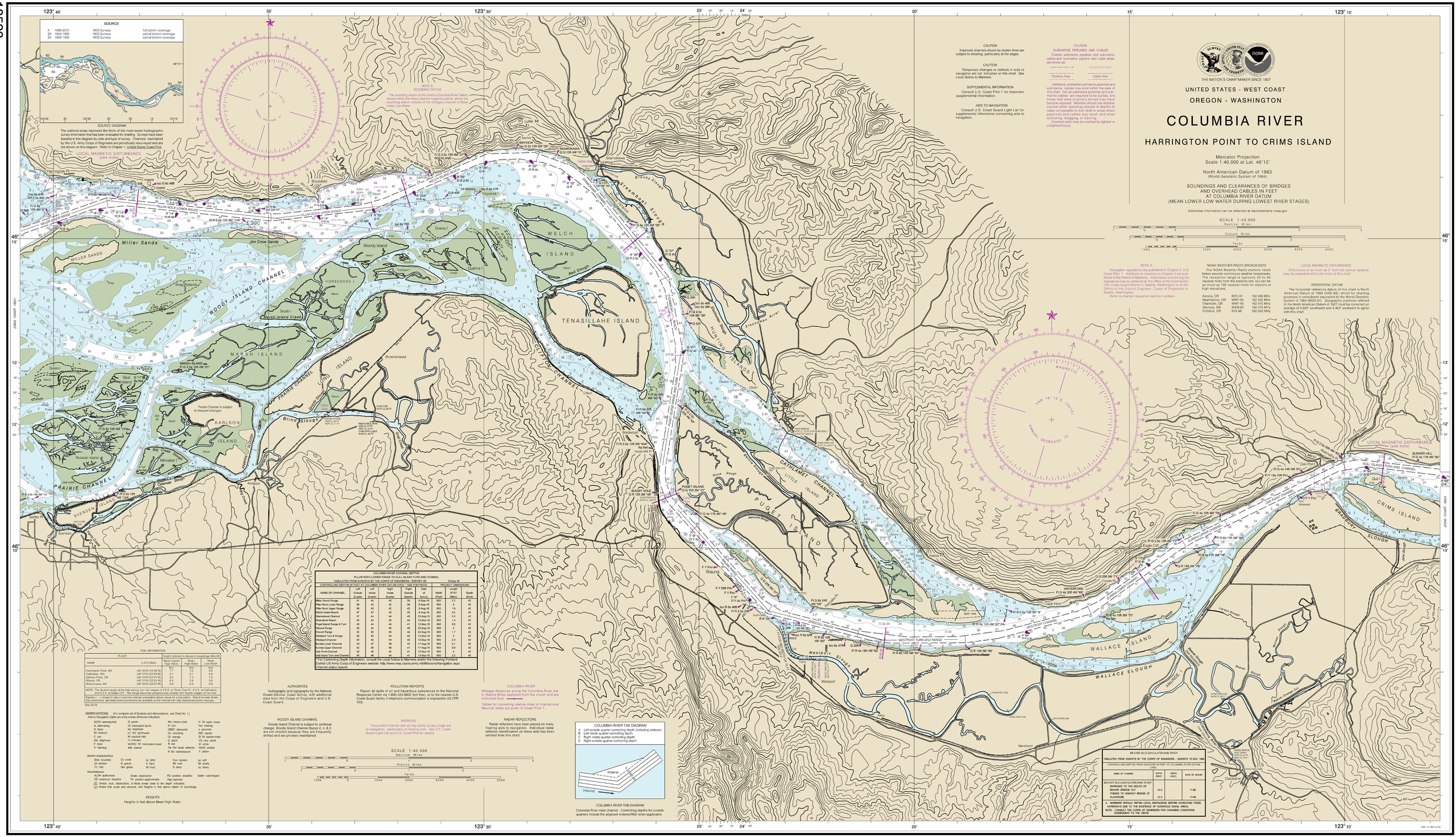
SOURCE
A 1990-2010 NOS Surveys full bottom coverage
B3 1940-1969 NOS Surveys partial bottom coverage
B4 1900-1939 NOS Surveys partial bottom coverage
SOURCE DIAGRAM
The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys 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.
LOCAL MAGNETIC DISTURBANCE (see note)
NOTE B
SOUNDING DATUM
The sounding datum of this chart is Columbia River Datum except within the heavy dashed magenta outline, where the sounding datum outside of the dredged channel is Mean Lower Low Water.
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.
SUPPLEMENTAL INFORMATION
Consult U.S. Coast Pilot 7 for important supplemental information.
AIDS TO NAVIGATION
Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.
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 areas of this chart. 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.
THE NATION'S CHARTMAKER SINCE 1807
UNITED STATES - WEST COAST
OREGON - WASHINGTON
COLUMBIA RIVER
HARRINGTON POINT TO CRIMS ISLAND
Mercator Projection
Scale 1:40,000 at Lat. 46°12'
North American Datum of 1983
(World Geodetic System of 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
SCALE 1:40,000
Nautical Miles
Statute Miles
Yards
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.
NOAA WEATHER RADIO BROADCASTS
The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.
Astoria, OR KEC-91 162.400 MHz
Newhalem, OR WWF-94 162.425 MHz
Tillamook, OR WWF-95 162.475 MHz
Olympia, WA WXM-62 162.475 MHz
Portland, OR KIG-98 162.550 MHz
LOCAL MAGNETIC DISTURBANCE
Differences of as much as 3° from the normal variation may be expected within the limits of this chart.
HORIZONTAL DATUM
The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System of 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.603" southward and 4.463" westward to agree with this chart.
COLUMBIA RIVER CHANNEL DEPTHS
PILLAR ROCK LOWER RANGE TO GULL ISLAND TURN AND CHANNEL
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF 18-Sep-16
CONTROLLING DEPTHS IN FEET AT COLUMBIA RIVER DATUM (CRD) - SEE FOOTNOTE
PROJECT DIMENSIONS
NAME OF CHANNEL | Left Outside Quarter | Left Inside Quarter | Right Inside Quarter | Right Outside Quarter | Date of Survey | Width (Feet) | Length STAT (Miles) | Depth (Feet)
Miller Sands Range 41 44 43 38 8-Sep-16 800 2.2 43
Pillar Rock Lower Range 39 42 42 39 8-Sep-16 800 3 43
Pillar Rock Upper Range 36 43 42 42 8-Aug-16 800 1.9 43
Welch Island Reach 37 42 43 33 8-Aug-16 800 3.2 43
Skamokawa Channel 37 44 44 40 23-Aug-16 800 3.3 43
Steamboat Reach 46 45 45 44 12-Sep-16 800 1.4 43
Puget Island Range & Turn 43 44 44 41 12-Sep-16 800 3.5 43
Wauna Range 40 44 45 45 23-Aug-16 800 2 43
Gnossi Range 42 45 45 44 23-Aug-16 800 1.7 43
Westport Turn & Range 40 44 44 43 13-Dec-16 800 2 43
Westport Channel 43 45 44 43 13-Dec-16 800 2.4 43
Eureka Lower Channel 44 47 48 44 17-Aug-16 800 3.1 43
Eureka Upper Channel 42 45 46 41 17-Aug-16 800 3.8 43
Cek Point Channel 43 45 42 41 13-Sep-16 800 1.2 43
Gull Island Turn and Channel 46 46 44 41 13-Sep-16 800 2.2 43
*For Controlling Depth Information, consult the Local Notice to Mariners and/or the following Portland District US Army Corps of Engineers website: http://www.nwp.usace.army.mil/Missions/Navigation.aspx
Channel status reports
TIDAL INFORMATION
PLACE | Height referred to datums of soundings (MLLW)
NAME | (LAT,CRG) | Mean Higher High Water | Mean High Water | Mean Low Water
Harrington Point, WA (46°16'N 123°23'W) 7.7 7.0 0.9
Cathlamet, WA (46°12'N 123°23'W) 6.7 6.1 0.6
Wauna, OR (46°10'N 123°41'W) 6.3 5.7 0.6
Astoria, OR (46°11'N 123°51'W) 6.0 5.9 0.6
Skamokawa, WA (46°16'N 123°27'W) 6.9 6.5 0.8
NOTE: The diurnal range of the tide during low river stages is 0.8 ft. at Three Tree Pt., 6.4 ft. at Cathlamet, and 5.5 ft. at Eagle Cliff. The range becomes progressively greater with higher stages of the river.
Dashes (-) located in datum columns indicate unavailable datum values for a tide station. Real-time water levels, tide predictions, and tidal current predictions are available on the Internet from http://tidesandcurrents.noaa.gov.
(Sep 2013)
ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)
Aids to Navigation (lights are white unless otherwise indicated):
AERO aeronautical
Al alternating
B black
Bn beacon
Ch channel
DIA diaphone
F fixed
Fl flashing
G green
IQ interrupted quick
Iso isophase
LT HO lighthouse
m meters
minutes
MICRO TR microwave tower
Mkr marker
Mo morse code
N nun
OBSC obscured
Oc occulting
Q quick
Q (spec) IQ (spec) quick
R red
Ra Ref radar reflector
R Bn radiobeacon
R TR radio tower
Rot rotating
s seconds
SEC sector
M nautical miles
VQ very quick
W white
WHIS whistle
Y yellow
Bottom characteristics:
Blds boulders
bk broken
Cy clay
Co coral
gr gravel
Grs grass
gy gray
h hard
M mud
Oys oysters
rk rock
S sand
so soft
Sh shells
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.
Rocks that cover and uncover, with heights in feet above datum of soundings.
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.
WOODY ISLAND CHANNEL
Woody Island Channel is subject to continual change. Woody Island Channel Buoys 2, 4, & 5 are not charted because they are frequently shifted and are privately maintained.
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).
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.
COLUMBIA RIVER
Mileage distances along the Columbia River are in Statute Miles eastward from the mouth and are indicated thus:
Tables for converting statute miles to International Nautical miles are given in Coast Pilot 7.
RADAR REFLECTORS
Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.
COLUMBIA RIVER TAB DIAGRAM
A Left outside quarter controlling depth (including widener)
B Left inside quarter controlling depth
C Right inside quarter controlling depth
D Right outside quarter controlling depth
Widener
Inbound
COLUMBIA RIVER TAB DIAGRAM
Columbia River main channel - Controlling depths for outside quarters include the adjacent widener/filler when applicable.
BEAVER SLOUGH/CLATSKANIE RIVER
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO NOV 1998
CONTROLLING DEPTHS FROM SOUNDINGS IN FEET AT COLUMBIA RIVER DATUM (CRD)
NAME OF CHANNEL | DEPTH (FEET) | WIDTH (FEET) | DATE OF SURVEY
BEAVER SLOUGH/CLATSKANIE RIVER
ENTRANCE TO THE MOUTH OF BEAVER DREDGE CUT 41.0 - 11-98
THENCE TO HIGHWAY BRIDGE AT CLATSKANIE 41.0 - 11-98
A - MARINERS SHOULD OBTAIN LOCAL KNOWLEDGE BEFORE NAVIGATING THESE WATERWAYS DUE TO THE EXISTENCE OF NUMEROUS SHOAL AREAS.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE.
LOCAL MAGNETIC DISTURBANCE (see note)
123° 40'
123° 30'
123° 20'
123° 10'
46° 15'
46° 13'
46° 12'
46° 10'
JONES CHART 18521
JONES CHART 18524
632-1 F. 1997-3-JHM