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SOUNDINGS IN FEET

This chart is canceled. No new editions will be issued.

30th Ed., Nov. 2011. Last Edition. See www.nauticalcharts.noaa.gov for more information.
 LNM 2424 (6/11/2024), NM 2524 (2/25/2024), CHS 1024 (6/20/2024)
 To ensure that this chart was printed at the proper scale, the line below should measure six inches (152 millimeters).

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

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CAUTION
 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.

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:
 (A) Accurate location (B) Approximate location

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

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

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
Portland, OR	KIG-98	162.550 MHz
Olympia, WA	WOM-62	162.475 MHz

TIDES
 The diurnal range of the tide during low river stages is 4.9 feet at Stella (46°11'N/123°07'W), 4.0 feet at Longview (46°06'N/122°57'W), and 2.5 feet at Saint Helens (45°32'N/122°40'W). The range becomes progressively smaller with higher stages of the river.
 Dec 2006

PROJECT DEPTHS
 Channel legends and tabulations, where indicated, reflect the U.S. Army Corps of Engineers (USACE) project depths. The chart may be significantly shallower, 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/SurveyHydro>.

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, Geological Survey and U.S. Coast Guard.

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.

PLANE COORDINATE GRID
 Oregon State Grid, north zone, is indicated by dotted lines at 10,000 foot intervals.

POLLUTION REPORTS
 Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-9303 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

STATUTE MILES
 COLUMBIA RIVER
 Mileage distances along the Columbia River are in Statute Miles. Distances along the Columbia River are eastward from the mouth, and are indicated thus: \rightarrow
 Tables for converting Statute Miles to International Nautical Miles are given in Coast Pilot 7.

LOCAL MAGNETIC DISTURBANCE
 Differences of as much as 8° from the normal variation have been observed along this section of the Columbia River.

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 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.378° southward and 4.989° westward to agree with this chart.

CAUTION
 The 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 www.nauticalcharts.noaa.gov.

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 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
 NATIONAL OCEAN SERVICE
 COAST SURVEY

FATHOMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
FEET	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144	150	156	162	168	174	180	186	192	198	204	210	216	222	228	234	240	246	252	258	264	270	276	282	288	294	300
METERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50

Columbia River, Crims Island to Saint Helens
 SOUNDINGS IN FEET - SCALE 1:40,000

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