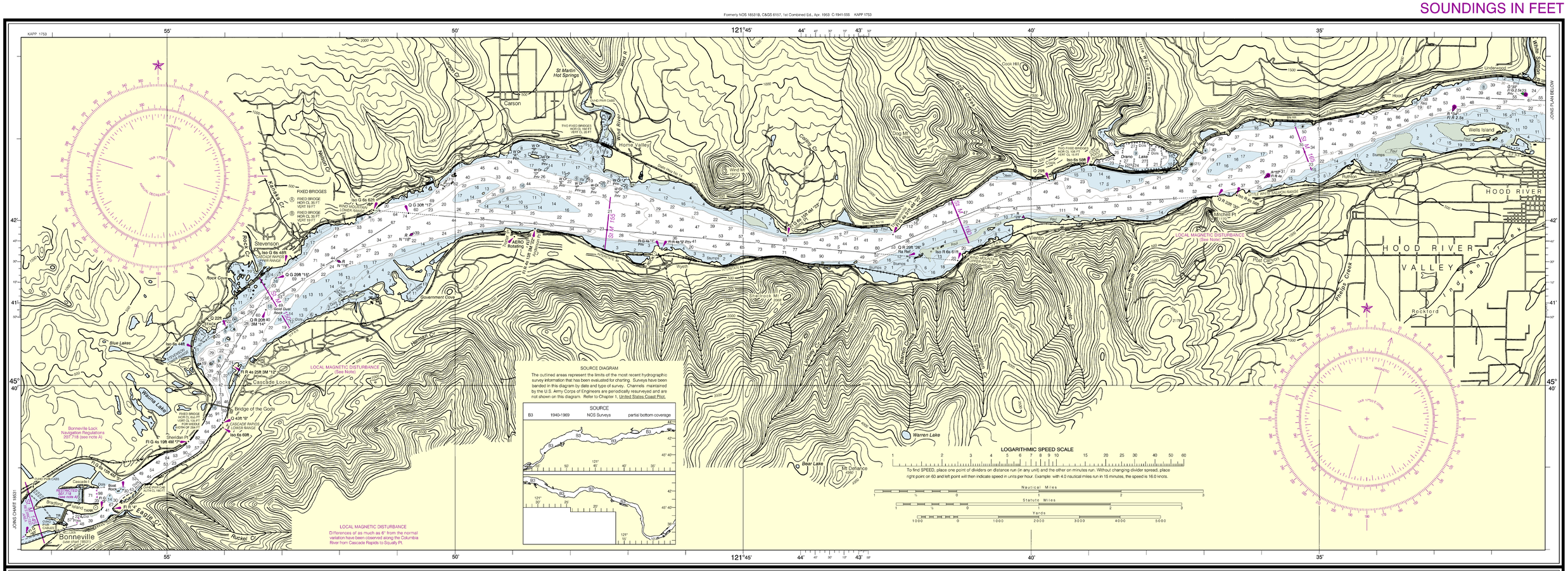
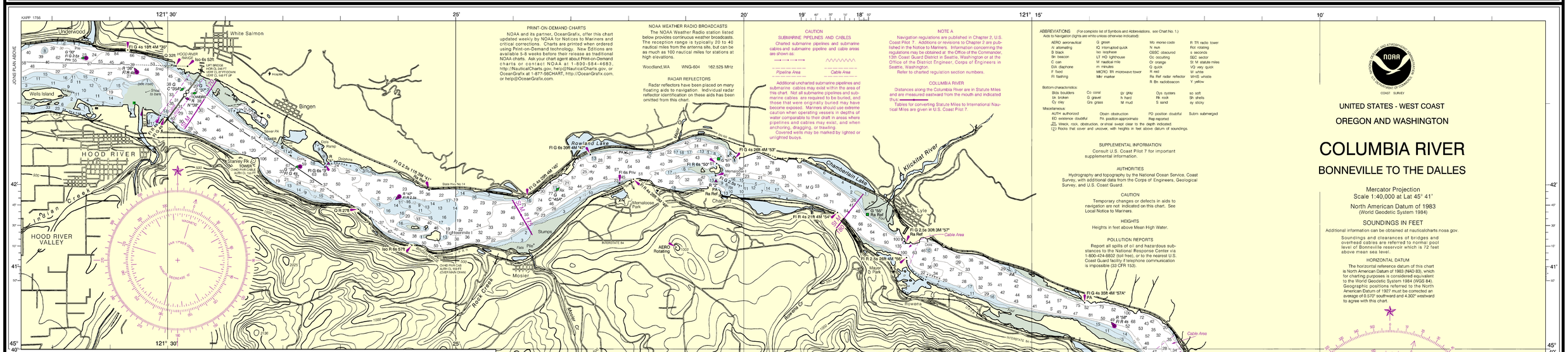
SOUNDINGS IN FEET

Formerly NOS 18531/B, C&GS 6157, 1st Combined Ed., Apr. 1953 C-1941-555 KAPP 1753





PRINT-ON-DEMAND CHARTS

NOAA and its partner, OceanGrafix, offer this chart updated weekly by NOAA for Notices to Mariners and critical corrections. Charts are printed when ordered using Print-on-Demand technology. New Editions are available 5-8 weeks before their release as traditional NOAA charts. Ask your chart agent about Print-on-Demand charts or contact NOAA at 1-800-584-4683, http://NauticalCharts.gov, help@NauticalCharts.gov, or OceanGrafix at 1-877-56CHART, http://OceanGrafix.com, or help@OceanGrafix.com.

NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio station listed below provides 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.

Woodland,WA WNG-604 162.525 MHz

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.

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.

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.

COLUMBIA RIVER

Distances along the Columbia River are in Statute Miles and are measured eastward from the mouth and indicated thus:

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

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 RR microwave tower R red W white
Fl flashing Mkr marker Ra Ref radar reflector WHS whistle
R Bn radiobeacon Y yellow

Bottom characteristics:

Blds boulders Co coral gr 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 Pk 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.

SUPPLEMENTAL INFORMATION

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

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

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

HEIGHTS

Heights in feet above Mean High Water.

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).

COAST SURVEY

UNITED STATES - WEST COAST

OREGON AND WASHINGTON

COLUMBIA RIVER

BONNEVILLE TO THE DALLES

Mercator Projection
Scale 1:40,000 at Lat 45° 41'
North American Datum of 1983
(World Geodetic System 1984)

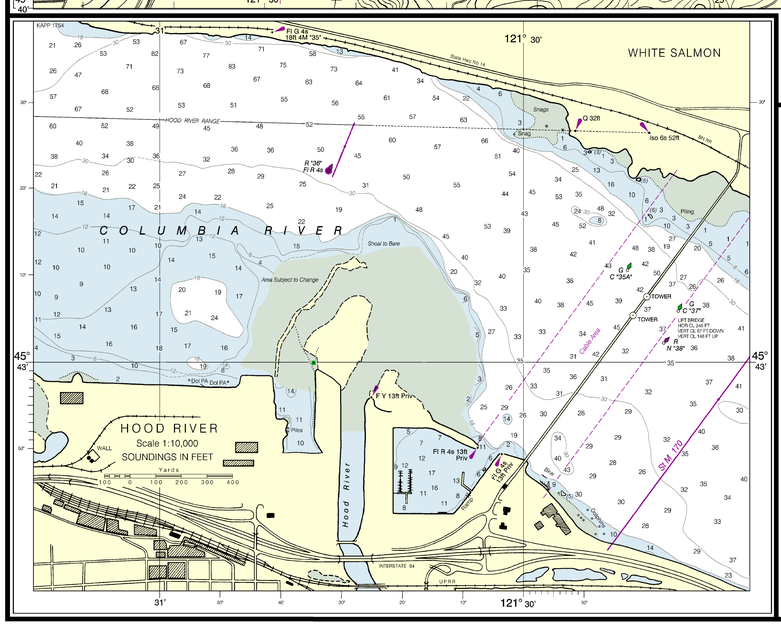
SOUNDINGS IN FEET

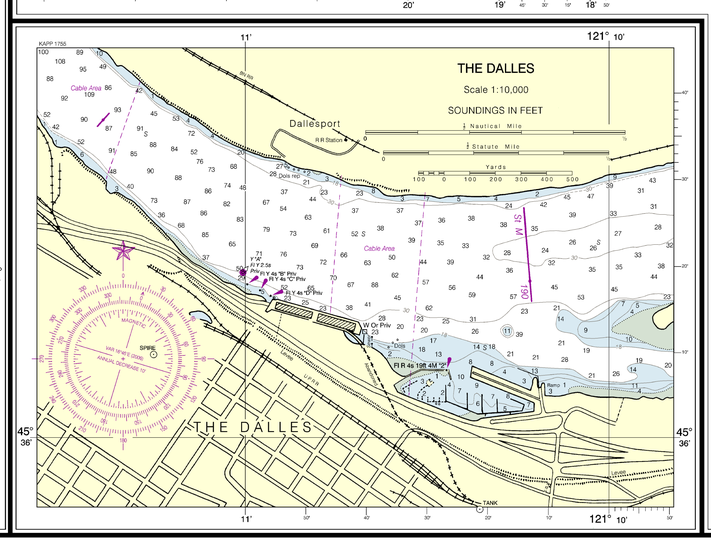
Additional information can be obtained at nauticalcharts.noaa.gov.

Soundings and clearances of bridges and overhead cables are referred to normal pool level of Bonneville reservoir which is 72 feet above mean sea level.

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 0.570" southward and 4.302" westward to agree with this chart.





21st Ed., May / 06 ■ Corrected through NM . May 20/06
18532 Corrected through LNM May 02/06

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.

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

SOUNDINGS IN FEET

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

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.

FATHOMS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
FEET	0	10	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	
METERS	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	

Columbia River, Bonneville to The Dalles
SOUNDINGS IN FEET - SCALE 1:40,000

18532

Corrected through
LNM: 0314 (1/21/2014), NM: 0514 (2/1/2014), CHS: 1213 (12/27/2013)

To ensure that this chart was printed at the proper scale, the line below should measure six inches (152 millimeters).
If the line does not measure six inches (152 millimeters), this copy is not certified safe for navigation.

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NGA REFERENCE NO. 18KHA18532