SOUNDINGS IN FEET

Formerly C&GS 6195, 1st Ed., June 1892 C-1942-576

18502

NOAA VHF-FM WEATHER BROADCASTS

The National Weather Service station listed below provides continuous marine weather broadcasts. The range of reception is variable, but for most stations is usually 20 to 40 miles from the antenna site.

Astoria, Ore. KEC-91 162.40 MHz

STORM WARNINGS

The National Weather Service displays storm warnings at the following approximate location:

Grays Harbor C.G. Sta. (46°54.3'-124°07.2')

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7, or weekly Notice to Mariners which include new or revised regulations. Information concerning the regulations may be obtained at the Office of the District Engineer, Corps of Engineers in Seattle, Wash.

Anchorage regulations may be obtained at the Office of the Commander, 13th Coast Guard District in Seattle, Wash.

Refer to section numbers shown with area designation.

CAUTION

Only marine radiobeacons have been calibrated for surface use. Limitations on the use of certain other radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and Defense Mapping Agency Hydrographic/Topographic Center Publication 117 (A & B).

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) ○(Approximate location)

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

Bar Channel

The bar channel is subject to frequent changes. Deep draft vessels should not enter without knowledge of conditions at the time of entering. The deepest water is not always on the range.

AUTHORITIES

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

SUPPLEMENTAL INFORMATION

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

PLANE COORDINATE GRID

The Washington State plane coordinate grid, South Zone, is indicated on this chart at 10,000 foot intervals thus: +

This grid is shown on the Westhaven Cove inset at 2,000 foot intervals. The last three digits are omitted.

Corps of Engineers local plane coordinate grid is shown by dotted ticks at 10,000 foot intervals.

This grid is shown on the Westhaven Cove inset at 2,000 foot intervals.

Origin is East Base 1909.

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 Notice to Mariners.

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

HEIGHTS

Heights in feet above Mean High Water.

LOGARITHMIC SPEED LOCATOR

2 3 4 5 6 7 8 9 10 15 20 25 30 40 50 60

To find SPEED, place one point of dividers on distance run (in any unit) and the other on minutes run. Without changing divider spread, place right point on 60 and left point will then indicate speed in units per hour. Example: with 4.0 nautical miles run in 15 minutes, the speed is 16.0 knots

POLLUTION REPORTS

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

UNITED STATES - WEST COAST
WASHINGTON

GRAYS HARBOR

Mercator Projection
Scale 1:40,000 at Lat. 46°56'

North American 1927 Datum

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

TIDAL INFORMATION

Place Name (Lat/Long)	Height referred to datum of soundings (MLLW) Mean Higher High Water	Mean High Water	Mean Tide Level	Mean Lower Low Water	Extreme Low Water
	feet	feet	feet	feet	feet
Point Chehalis (46°55'N/124°07'W)	9.0	8.1	4.8	0.0	−3.5
Aberdeen (46°58'N/123°51'W)	10.1	9.4	5.4	0.0	−3.0
Montesano, Chehalis River (46°58'N/123°36'W)	8.1	7.5	4.1	0.0	−3.0

(879)

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

Aids to Navigation (lights are white unless otherwise indicated)

AERO aeronautical; Alt alternating; B black; Bn beacon; C can; DIA diaphone; E Int equal interval (ISO); F fixed; Fl flashing; G green; Gp group; I Qk interrupted quick; Int Qk; ISO isophase (E Int); L Hse lighthouse; M nautical mile; m minutes; Micro-Tr microwave tower; Mkr marker; Mo morse code; N nun; OBSC obscured; Occ occulting; Or orange; Qk quick; R red; Ra Ref radar reflector; R Bn radiobeacon; R Tr radio tower; Rot rotating; sec seconds; SEC sector; St M statute miles; W white; WHIS whistle; Y yellow

Bottom characteristics:

bk black; Bldrs boulders; brk broken; Cl clay; Co coral; G gravel; Grs grass; hrd hard; M mud; Oys oysters; Rk rock; S sand; sft soft; Sh shells; stk sticky

Miscellaneous:

AUTH authorized; ED existence doubtful; Obstr obstruction; PA position approximate; PD position doubtful; Rep reported; Wk wreck; Rocks that cover and uncover, with heights in feet above datum of soundings.

COLREGS: International Regulations for Preventing Collisions at Sea, 1972.

Subm submerged

Demarcation lines are shown thus: — — — —

Inner neatline 60.23cm N.S. x 95.19cm E.W.)

GRAYS HARBOR

CORPS OF ENGINEERS – REPORTS TO NOV., 1980 AND SURVEYS TO OCT., 1980

CONTROLLING DEPTHS FROM SEAWARD (IN FEET AT MEAN LOWER LOW WATER (MLLW))

NAME OF CHANNEL	CONTROLLING DEPTHS: LEFT HALF OF OUTER CHANNEL, QUARTER	MIDDLE HALF OF OUTER CHANNEL, QUARTER	RIGHT HALF OF OUTER CHANNEL, QUARTER	DATE OF SURVEY	PROJECT DIMENSIONS: WIDTH (FEET)	LENGTH (MILES)	DEPTH (MLLW) (FEET)
SOUTH REACH	20.8	28.8	20.1	10-80	350	3.7	30
CROSSOVER CHANNEL	27.7	29.9	24.5	8-80	4350	1.8	30
NORTH CHANNEL	25.3	28.5	19.8	8,9-80	4350	2.4	30
ABERDEEN REACH	23.8	28.4	23.5	11-79,8-80	350	1.8	30
COW POINT REACH	23.3	25.2	14.9	6-80	350	1.8	30
ABERDEEN REACH	27.4	29.4	26.5	11-79,8-80	350	1.8	30
WEST TURNING BASIN	28.9	53.0	83.5	11-79	600	0.17	30
EXTENSION TO THE EAST	30.4	39.3	24.5	8-79,6-80	200-400	1.8	30
TURNING BASIN	84.0	21.1	82.2	2,4-80	200-550	0.2	30
EAST TURNING BASIN	28.4	28.9	27.9	1-79	200	0.3	30
EAST TURNING BASIN TO COSMOPOLIS							

A. ONLY THE NORTH 350 FEET OF THE WIDENER AT THE JUNCTION OF CROSSOVER CHANNEL AND NORTH CHANNEL IS INCLUDED IN THE DEPTH TABULATION; A DEPTH OF 23.0 FEET WAS AVAILABLE IN THE REMAINDER OF THE WIDENER.

B. CONTROLLING DEPTH WAS LOCATED NEAR THE EDGE OF THE BASIN; A DEPTH OF 15.8 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.

NOTE—CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

PRODUCED BY COMPUTER ASSISTED METHODS

CONTINUATION OF
CHEHALIS RIVER
Scale 1:40,000

The controlling depth at mean low water was 9 feet to Montesano. Apr. 1943

WISHKAH RIVER BRIDGES

The two swing bridges and one bascule bridge crossing the Wishkah River have a horizontal clearance of 75 feet and a vertical clearance of 8 feet. The fixed bridge has a horizontal clearance of 75 feet and a vertical clearance of 16 feet.

WESTHAVEN COVE
Scale 1:10,000

(CONTINUED ON CHART 18502)

(CONTINUED ON CHART 18502)

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

CAUTION
This chart has been corrected from the Notice to Mariners published weekly by the Defense Mapping Agency Hydrographic/Topographic Center and the Local Notice to Mariners issued periodically by each U.S. Coast Guard district to the print date shown in the lower left hand corner.

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.

SOUNDINGS IN FEET

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

(Grays Harbor, Wash.)
SOUNDINGS IN FEET – SCALE 1:40,000

18502

LITIGATION/COPY