SOUNDINGS IN FEET

18502 (formerly C&GS 6/95)

1st Ed., June 1892 C-1942-576

Nautical Chart Catalog No. 2, Panels F, G

VHF WEATHER BROADCASTS FOR MARINERS

FM Station with frequency of 162.40 megahertz and range approximately 40 miles, is in continuous operation 24 hours daily broadcasting weather warnings, forecasts and reports from the NATIONAL WEATHER SERVICE Office as follows:

KEC-91 Astoria, Oregon

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.

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 Center Publication 117 (AB/E).

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) o(Approximate location)

CONTINUATION OF CHEHALIS RIVER

Scale 1:40,000

NEW CHART NUMBERING SYSTEM

The National Ocean Survey, in cooperation with the Defense Mapping Agency Hydrographic Center, is in the process of adopting a new national chart numbering system. See Notice to Mariners No. 19, May 11, 1974, or Nautical Chart Catalog for cross references of old and new chart numbers.

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.

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

RESTRICTED DUMPING GROUND 205.69 (see note A)

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.

CONTINUED ON CHART 18500 (formerly C&GS 6000)

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 (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°03'W)	9.0	8.3	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

(§76)

AUTHORITIES

Hydrography and topography by the National Ocean Survey (formerly the Coast and Geodetic 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.

STORM WARNINGS

The National Weather Service displays storm warnings at the following approximate location: Grays Harbor C.G. Sta. (46°54.3'-124°00.2')

PLANE COORDINATE GRID

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

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

Lights (Lights are white unless otherwise indicated.):

F. fixed	Mo. (A) morse code		OBSC. obscured	Rot. rotating	
Fl. flashing	Occ. occulting		WHIS. whistle	SEC. sector	
Qk. quick	Alt. alternating		DIA. diaphone	m. minutes	
Gp. group	I. Qk. interrupted quick		M. nautical miles	sec. seconds	
E. Int. equal interval					
Buoys: T.B. temporary buoy	N. nun	B. black	Or. orange	W. white	
C. can	S. spar	R. red	G. green	Y. yellow	

Bottom characteristics:

Cl. clay	M. mud	hrd. hard	bk. black	gy. gray	
Co. coral	Rk. rock	rky. rocky	br. brown	rd. red	
G. gravel	S. sand	sft. soft	bu. blue	wh. white	
Grs. grass	Sh. shells	stk. sticky	grn. green	yl. yellow	

21 (2) Wreck, rock, obstruction, or shoal swept clear to the depth indicated. Rocks that cover and uncover, with heights in feet above datum of soundings.

AERO. aeronautical R Bn. radiobeacon C. G. Coast Guard station

Bn. daybeacon R TR. radio tower D.F.S. distance finding station

AUTH. authorized. Obstr. obstruction. P.A. position approximate. E.D. existence doubtful.

HEIGHTS

Heights in feet above Mean High Water.

LOGARITHMIC SPEED SCALE

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

GRAYS HARBOR-NORTH CHANNEL AND CHEHALIS RIVER

CORPS OF ENGINEERS-REPORTS TO OCT. 1976, SURVEYS TO SEPT. 1976

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

NAME OF CHANNEL	LEFT OUTSIDE HALF OF QUARTER	MIDDLE HALF OF QUARTER	RIGHT OUTSIDE HALF OF QUARTER	DATE OF SURVEY	PROJECT DIMENSIONS WIDTH (FEET)	LENGTH DEPTH (MLLW) MILES (FEET)	
SAND I. SHOAL CHANNEL							
WEST REACH	30.5	31.2	31.8	5-76	350	1.2	30
EAST REACH	25.4	29.2	24.5	9-76	350	0.85	30
CROSSOVER CHANNEL	26.0	29.4	30.5	9-76	400	1.9	30
MOON ISLAND REACH	26.5	29.8	27.1	5,7-76	4350	2.6	30
MIDGUIDE REACH	21.4	23.4	20.3	4,6-76	350	2.85	30
COW POINT REACH	29.1	33.0	30.3	6,7,8-76	350	0.8	30
ABERDEEN REACH	32.2	34.0	32.4	5,6-76	350	1.1	30
WEST TURNING BASIN	24.6	33.8	33.1	5,6-76	600	0.17	30
TRACK TO THE EAST TURNING BASIN	29.3	28.7	26.4	1-76	200-400	1.8	30
EAST TURNING BASIN	812.7	24.1	31.6	5-76	200-550	0.2	30
EAST TURNING BASIN TO COSMOPOLIS	27.6	29.1	27.0	12-74,1-76	200	0.3	30

A. ONLY THE NORTH 350 FEET OF THE WIDENER AT THE JUNCTION OF CROSSOVER CHANNEL AND MOON ISLAND REACH IS INCLUDED IN THE DEPTH TABULATION. A DEPTH OF 29.4 FEET WAS AVAILABLE IN THE REMAINDER OF THE WIDENER.

B. CONTROLLING DEPTH WAS LOCATED NEAR THE EDGE OF THE BASIN. A DEPTH OF 18.4 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

Nautical Miles

Yards

Inset 123°50' 45' — 2 FG 18ft 9M

Inset 123°50' 45' — 2 FG 18ft 9M

Inset 123°50' 45' — 2 FG 18ft 9M

Inset 123°50' 45' — 2 FG 18ft 9M

WESTHAVEN COVE

Scale 1:10,000

Yards

Nautical Miles

70th Ed., Oct. 23/76

18502 (formerly C&GS 6/95)

CAUTION

This chart has been corrected from the Notice to Mariners published weekly by the Defense Mapping Agency Hydrographic 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.

FILE COPY

Published at Washington, D. C.

U.S. DEPARTMENT OF COMMERCE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL OCEAN SURVEY

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

(Grays Harbor, Wash.)

SOUNDINGS IN FEET - SCALE 1:40,000

Yards 0 100 200 300 400 500

Meters 0 50 100 200 300 400 500

18502 (formerly C&GS 6/95)

LITIGATION COPY