

8372

Diag. Cht. No. 5902-2.

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. WCFP-1757 Office No. H-8372

LOCALITY

State Oregon

General locality Oregon Coast

Locality Netarts Bay and Entrance

19 / 57

CHIEF OF PARTY

A. L. Wardwell

LIBRARY & ARCHIVES

DATE March 12, 1958

8372

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER No. H- 8372

Field No. WCFP 1757

State OREGON

General locality OREGON COAST

Locality NETARTS BAY AND ENTRANCE

Scale 1:10000 Date of survey 29 August - 19 Sept. 1957

Instructions dated 22 June 1956

Vessel Launch No. CS 160 and Skiff

Chief of party CDR. Arthur L. Wardwell

Surveyed by Ens. James K. Richards

Soundings taken by fathometer ~~graphic recorder~~ hand lead, ~~wire~~ pole

Fathograms scaled by A.W. Brain, Harry D. Lantzy

Fathograms checked by Ens. Vello Kiisk, Ens. J.K. Richards, Ens. P.J. Taetz
A.W. Brain

Protracted by Ens. Philip J. Taetz

Soundings penciled by Ens. Philip J. Taetz

Soundings in ~~fathoms~~ feet at ~~MLW~~ MLLW and are true depths

REMARKS:

782

DESCRIPTIVE REPORT

TO ACCOMPANY HYDROGRAPHIC SURVEY
FIELD NO. WCFP 1757 - REGISTRY NO. H- 8372

NETARTS BAY, OREGON
PROJECT 13930

DATE OF SURVEY: 1957
SCALE: 1:10,000

WEST COAST FIELD PARTY - CDR. ARTHUR L. WARDWELL, CHIEF OF PARTY

SURVEYED BY: ENS. J.K. RICHARDS

PROJECT

The work was done in accordance with the instructions from the Director for project number 13930 dated 22 June 1956.

SURVEY LIMITS AND DATES

The general locality of this survey is the Oregon Coast. The survey area consists of Netarts Bay and a section of outside coastline around the entrance to the bay extending from latitude $45^{\circ} 25.5'$ to latitude $45^{\circ} 27.4'$ and from longitude $124^{\circ} 00.0'$ eastward to the beach.

Field work began on 29 August 1957 and was completed on 19 September 1957.

Junction is made on the north with sheet WCFP 1657, Registry No. 8371. (1957)

VESSEL AND EQUIPMENT

Launch CS 160 and a skiff were used for all sounding lines. All fathometer soundings were taken aboard the launch with an 800 type fathometer, No. 148, with an outboard type acoustic unit. All soundings taken from the skiff were pole and hand lead.

TIDE AND CURRENT STATIONS

Tidal control for this survey was furnished by a portable tide gage installed at Barview in Tillamook Bay. See TIDE NOTE in this report.

No current stations were occupied.

SMOOTH SHEET

The projection was made by hand at the C&GS ship's base ✓
in Seattle.

The shoreline was transferred to the smooth sheet from
blue-line tracings furnished by the Portland Photogrammetric Office.
The shoreline and all attached topographic features were not inked
on the smooth sheet. All details in the water area however, such as
rocks, which originated with the manuscript were inked on the sheet. ✓

CONTROL STATIONS

Four of the signals were previously established triangulation ✓
stations. Signal TAN was located by sextant cuts taken by the
hydrographic party. Signal DREE, 1954 is a topographic station and
was pricked through from manuscript T- 11424. The remainder of the
signals used were located by photogrammetric methods on 1: 5000 and
1: 10000 manuscripts. The locations were scaled from the 1: 5000
manuscripts and were plotted on the smooth sheet. Those on the ✓
1: 10000 manuscript were pricked directly.

See LIST OF SIGNALS USED.

SHORELINE AND TOPOGRAPHY

prints of Advance manuscripts ✓
The shoreline was taken from manuscript T- 9944, T- 9946,
and T- 9948 which were furnished for this project and from manuscript
T- 11424 which was furnished for project 13880. ✓

Registered

SOUNDINGS

Soundings were taken with fathometer, hand lead and pole. ✓
The initial of the fathometer was held at two feet during the
sounding. Fathometer corrections were obtained by a series of bar
checks and phase comparisons, described in a separate fathometer
report.

An abstract of echo corrections is attached to this report. ✓

CONTROL OF HYDROGRAPHY

Standard three point fixes to previously located control ✓
stations were used for control of all hydrography.

ADEQUACY OF SURVEY

This survey is considered complete and adequate for charting purposes, and should supercede all previous surveys. ✓
Further development around the entrance to the bar would have been desirable, but rough seas and generally hazardous conditions prohibited such work.

Due to the extensive sand and mud flats and the narrowness ✓
of the channels in the bay, development of the bay was very difficult even with the skiff, but it is believed that development was done in compliance with the instructions.

Depth curves at the northern limits of this survey were compared with those at the southern limit of sheet WCFP 1657, ✓
Reg. No. 8371 and the junction was found to be satisfactory.

(1957)

CROSSLINES

The crosslines run were 6.6% of the total sounding lines. ✓
All crossings were satisfactory.

COMPARISON WITH PRIOR SURVEYS

Comparison of this sheet with survey H- 2088a, 1: 20000, ✓
1891; H- 2088b, 1: 10000, 1891; and H- 4745, 1: 20000, 1927 shows ✓
very little change in depth in the outside area and portions of the ✓
inside area. It appears that some shoaling has taken place at the ✓
entrance to the bar and at the south end of the bay. The 1891 ✓
survey of the inside was not complete enough to get an accurate ✓
comparison of channel configuration. *see review*

COMPARISON WITH CHART

No previous large scale chart has been made of this area. ✓

✓ 1:30,000 plan on Ek 5702, print date 4/22/58

DANGERS AND SHOALS

No offshore dangers or shoals were found. The entrance ✓
into the bay is quite shoal and is usually breaking. It would be ✓
considered dangerous to navigation except under ideal conditions.

AIDS TO NAVIGATION

There were no fixed aids to navigation on this sheet. All floating aids to navigation in the area were located by the hydrographic party, and are listed below: ✓

BUOY	LAT. & LONG.	DEPTH (ft)	POS. NO.	DATE OF LOC.
Netarts ent. mid-channel whistle buoy "N"	45°26.90' ✓ 123°58.98' ✓	54' ✓	19b	30 Aug. 1957
Mid-channel buoy "A"	45°26.49' ✓ 123°57.74' ✓	7' ✓	3-4h	19 Sept. 1957
Mid-channel buoy "B"	45°26.48' ✓ 123°57.76' ✓	6' ✓	3-4h	19 Sept. 1957
Mid-channel buoy "C"	45°26.40' ✓ 123°57.45' ✓	13' ✓	43g	17 Sept. 1957

Buoys A, B, and C are privately maintained. - No - see light list ✓

HWB.


LANDMARKS FOR CHARTS

There were no landmarks within the limits of this survey. ✓

TABULATION OF APPLICABLE DATA

1. Barview Tide Station marigrams, Nos. 1 through 17 forwarded to the Director 22 October 1957.
Barview Tide Station report forwarded to the Director 13 August 1957. Level data for installation of Barview Tide Station sent to the Director 13 August 1957.
The station was destroyed by rough seas before final levels could be run.
Abstract of tide reducers attached to this report.
2. Office photographs to be forwarded to the Portland Photogrammetric Office.
3. Photo manuscripts and blueline prints to be forwarded to the Portland Photogrammetric Office.
4. Special fathometer report to be sent to the Director.
Abstract of fathometer corrections attached to this report.
5. Fathograms to be forwarded to the Director.
6. Sounding volumes to be forwarded to the Director.
7. Boat sheet to be forwarded to the Director.
8. Copies of old surveys to be forwarded to the Director.

Respectfully Submitted,


Philip J. Taetz
Ensign, C&GS

STATISTICS FOR HYDROGRAPHIC SURVEY

FIELD NO. WCFP 1757 - REGISTRY NO. H- 8372

LAUNCH CS 160 - PROJECT 13930

Vol.No.	Day Letter	Date	No.Pos.	H.L.& Pole Sdgs.	Stat.Miles	Method
1	a	29 August	166	0	32.5	L
1	b	30 "	20	0	3.0	L
1	c	4 September	25	0	3.3	L
2	d	5 "	105	338	11.0	S
2	e	13 "	7	0	1.2	L
2	f	16 "	78	264	7.4	S
2	g	17 "	88	277	8.0	S
2 & 3	h	19 "	29	20	3.5	L
			<u>518</u>	<u>899</u>	<u>69.9</u>	

Total area, square statute miles 4.6

L Launch

S Skiff

TIDE NOTE FOR HYDROGRAPHIC SURVEY

FIELD NO. WCFP 1757 - REGISTRY NO. H- 8372

A portable automatic tide gage, located at Barview in Tillamook Bay, was used for tide reducers for all soundings on this sheet. The geographic position of the tide station is: latitude $45^{\circ} 34.11'$; longitude $123^{\circ} 56.55'$. *Not on sheet*

The MLLW value on the tide staff was 4.5 feet. All observed values were used direct, with no corrections for time or height.

COMBINED CORRECTIONS FOR FATHOMETER 148
 When being used in Launch GS 160, Summer 1957

PROJECTS 13880 & 13930 Tillamook Bay & Netarts Bay

<u>"A" Scale</u>		<u>"B" Scale</u>		<u>"C" Scale</u>	
Fathometer Reading (ft.)	Correction (ft.)	Fathometer Reading (ft.)	Correction (ft.)	Fathometer Reading (ft.)	Correction (ft.)
0.0-13.7	-0.2	35.0-53.2	-0.2	70.0-79.6	/ 0.2
-35.0	0.0	-64.1	0.0	-86.2	/ 0.4
-45.8	/ 0.2	-70.8	/ 0.2	-91.1	/ 0.6
-51.2	/ 0.4	-76.4	/ 0.4	-95.1	/ 0.8
-54.4	/ 0.6	-80.9	/ 0.6	-98.4	/ 1.0
-55.0	/ 0.8	-85.2	/ 0.8	-101.2	/ 1.2
		-88.5	/ 1.0	-103.5	/ 1.4
		-91.3	/ 1.2	-120.0	/ 1.6

ABSTRACT OF SMOOTH TIDE REDUCERS

BARVIEW, OREGON TIDE GAGE

SHEET WCFP 1757 REGISTRY NO. H- 8372

"a" day, 29 Aug.

1025-1033 - 2.0 ft.
 -1040 - 2.2
 -1048 - 2.4
 -1055 - 2.6
 -1100 - 2.8
 -1105 - 3.0
 -1111 - 3.2
 -1118 - 3.4
 -1123 - 3.6
 -1129 - 3.8
 -1136 - 4.0
 -1142 - 4.2
 -1148 - 4.4
 -1154 - 4.6
 -1200 - 4.8
 -1207 - 5.0
 1243-1250 - 6.4
 -1258 - 6.6
 -1305 - 6.8
 -1313 - 7.0
 -1321 - 7.2
 -1330 - 7.4
 -1340 - 7.6
 -1352 - 7.8
 -1408 - 8.0
 -1430 - 8.2
 -1525 - 8.4

"b" day, 30 Aug.

1347-1356 - 6.4
 -1404 - 6.6
 -1412 - 6.8
 -1421 - 7.0
 -1430 - 7.2
 -1440 - 7.4
 -1451 - 7.6

"c" day, 4 Sept.

0837-1034 - 5.6 ft.
 -1100 - 5.4
 -1117 - 5.2

"d" day, 5 Sept.

0852-0905 - 5.4
 -0920 - 5.6
 -0944 - 5.8
 -1042 - 6.0
 -1113 - 5.8
 -1137 - 5.6
 -1200 - 5.4
 -1214 - 5.2
 -1228 - 5.0
 -1242 - 4.8
 -1255 - 4.6
 -1308 - 4.4
 -1321 - 4.2
 -1334 - 4.0
 -1348 - 3.8
 -1400 - 3.6
 -1414 - 3.4
 -1431 - 3.2
 -1450 - 3.0

"e" day, 13 Sept.

1047-1055 - 4.0
 -1102 - 4.2

"f" day, 16 Sept.

0933-1100 - 3.0 ft.
 -1123 - 3.2
 -1140 - 3.4
 1224-1237 - 4.2
 -1248 - 4.4
 -1300 - 4.6
 -1313 - 4.8
 -1327 - 5.0
 -1340 - 5.2
 -1355 - 5.4
 -1408 - 5.6
 -1423 - 5.8
 -1437 - 6.0

"g" day, 17 Sept.

0946-1010 - 3.8
 -1039 - 3.6
 -1210 - 3.4
 -1238 - 3.6
 -1300 - 3.8
 -1318 - 4.0
 -1335 - 4.2
 -1353 - 4.4
 -1406 - 4.6
 -1418 - 4.8
 -1430 - 5.0
 -1441 - 5.2
 -1453 - 5.4
 -1507 - 5.6
 -1522 - 5.8
 -1539 - 6.0

"h" day, 19 Sept.

1313-1500 - 2.6
 -1520 - 2.8
 -1534 - 3.0

LIST OF SIGNALS USED

FIELD NO. WCFP 1757 REGISTRY NO. H- 8372

Hydrographic Name	Origin of Signal
ACE	Manuscript T- 9944
ARM	Manuscript T- 9944
BAG	Manuscript T- 9944
CAT	Manuscript T- 9944
DREE	Manuscript T- 11424 (TOPOGRAPHIC STATION: DREE, 1954
GUS	Manuscript T- 9946
HIP	Manuscript T- 9944
IRK	Manuscript T- 11424
JACK	JACK, 1926-1933
JOB	Manuscript T- 9946
JOE	Manuscript T- 9944
LAD	Manuscript T- 11424
LIN	LINE, 1956
LOW	Manuscript T- 9946
NOR	NORTH, 1956
NUT	Manuscript T- 11424
PUT	Manuscript T- 9944
RED	RED, 1926-1927-1933
SUN	Manuscript T- 9946
TAN	Sextant Cuts, See Index, Volume 1
VET	Manuscript T- 9944
WHO	Manuscript T- 9944
WIN	Manuscript T- 9944

APPROVAL SHEET

HYDROGRAPHIC SURVEY WCFP 1357, H- 8372

This survey is complete and adequate for charting purposes, and no additional work is necessary.

The Chief of Party, CDR. Arthur L. Wardwell, kept close personal supervision over the work.

Philip C. Taetz
Philip C. Taetz
Ensign, C&GS
OinC West Coast Field Party

The channel across the bar is not fully developed. A study of the photographs seems to indicate that there is better water across the bar than indicated by the three lines of soundings shown on this survey.

See review
item 8

DH Benson

3-17-60

RECEIVED
MAIL ROOM

22

MAR 7 9 01 AM

H-8370 to H-8372

WC F P 1957

FATHOMETER REPORT

PROJECTS 13880 & 13930

TILLAMOOK AND NETARTS BAYS, OREGON

COAST & GEODETIC SURVEY

EQUIPMENT:

An 800 type fathometer, No. 148, was used for all echo sounding on the two projects. The acoustical unit was mounted on the starboard side of the launch, and the initial was held at 2 feet.

COMPUTATION OF CORRECTIONS:

During the season four bar checks were taken. The bar checks were taken at intervals of five feet, beginning at 5 ft. and ending at 85 ft. A series of leadline comparisons was taken at about 95 ft. and 110 ft.

Separate smooth curves were plotted for "A", "B", and "C" scales using the mean fathometer corrections as the ordinate and true depth as abscissa. The range of the "A" scale curve was from 5 to 55 ft., the "B" scale from 35 to 90 ft., and the "C" scale curve from 70 to 120 ft. Corrections were scaled off the curves to the nearest 0.2 ft. The true depth range for each fathometer correction was then converted to the correct fathometer depth range.

Respectfully Submitted,

Philip J. Taets
Philip J. Taets
Ensign, C&GS

Comdr. A. L. Wardwell
Chief, West Coast Field Party

DIVISION OF CHARTS

REVIEW SECTION -- NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8372

FIELD NO. WCFP-1757

Oregon - Oregon Coast - Netarts Bay and Entrance

SURVEYED: Aug-Sept. 1957

SCALE: 1:10,000

PROJECT NO. 13930

SOUNDINGS: 808 Depth recorder
Pole

CONTROL: Sextant fixes
on shore signals

Chief of Party ----- Arthur L. Wardwell
Surveyed by ----- James K. Richards
Protracted by ----- Phillip J. Taetz
Soundings plotted by ----- Phillip J. Taetz
Verified and inked by ----- J. C. Chambers
Reviewed by ----- H. W. Burgoyne
Inspected by ----- R. H. Carstens

DATE: 5/17/60

1. Shoreline and Control

The shoreline originates with advance prints of air-photographic surveys T-9944, T-9946, T-9948 (1955-1956) and reviewed air photographic survey T-11424 (1952-1955). The shoreline around the north end of the spit at Lat. 45°26.03', Long. 123°57.25' was inked in a dashed red line by the Washington Office in order to agree with the 1957 hydrography. Apparently, erosion has taken place on this point since T-9944 (1956) was compiled.

The sources of control are given in the Descriptive Report.

2. Sounding Line Crossings

Depths are in adequate agreement at crossings.

3. Depth Curves and Bottom Configuration

This survey covers the area of Netarts Bay and a small section of coastline at the entrance to the bay.

The standard depth curves are adequately delineated. The 3-foot curve was drawn to better delineate the narrow channels traversing the mud flats in Netarts Bay. The

coastal area is comprised of a relative even bottom with occasional ridges rising from 5-10 feet above the bottom in depths of 80-90 feet of water.

4. Junction with Contemporary Surveys

Present survey depths on the north are in adequate agreement with junctional depths on survey H-8371 (1957). A butt junction was made with H-4745 (1927) on the west. A junction was also made on the west with H-4755 (1927) at Lat. $45^{\circ}26.40'$, Long. $124^{\circ}00.06'$, where a small holiday existed between H-4745 (1927) and the present survey. The present survey extended southward to the project limits.

5. Comparison with Prior Surveys

H-2088 a & b (1891) - 1:20,000
H-4745 (1927) - 1:20,000

The surveys listed above comprise the prior coverage of the area of the present survey.

Since the 1891 - 1927 surveys, considerable changes have taken place along the coastal area inside the 30-foot curve. Storms and current action have caused considerable changes to the sandy bottom especially at the entrance to Netarts Bay. In the deeper water outside the 30-foot curve, the prior soundings differ from 3-4 feet with the present survey.

Discussion and disposal of two significant uncharted prior soundings is as follows:

The $12\frac{1}{2}$ -fathom sounding plotted on H-2088a at Lat. $45^{\circ}26.81'$, Long. $123^{\circ}59.86'$ and falling in present survey depths of 92-100 feet of water was inked in error. The correct sounding is $15\frac{1}{2}$ fathoms which agrees with present survey depths.

The 7-fathom sounding plotted on H-2088a at Lat. $45^{\circ}26.68'$, Long. $123^{\circ}59.13'$ falls in depths of 12 fathoms on H-4745 and depths of 63 - 72 feet on the present survey. This hand lead sounding is believed to have been recorded in error and was probably 11 fathoms instead of 7.

No significant comparison could be made between the prior survey of 1891 and the present survey in the unstable entrance to Netarts Bay because the small channels continue to shift in position due to storm action.

The present survey, supplemented with bottom characteristics, is adequate to supersede the prior surveys in the common area.

6. Comparison with Ch. 5902 (print date 9/22/58)

A. Hydrography

The charted hydrography on the 1:30,000 plan of Netarts Bay originated with the present survey prior to verification and review and the previously discussed prior surveys. The few soundings outside the limits of the plan appearing on Ch. 5902 originated with the previously discussed prior surveys supplemented with soundings from the present survey prior to verification and review.

The present survey is adequate to supersede the charted hydrography within the common area.

B. Aids to Navigation

No aids to navigation are charted on the 1:30,000 plan of Netarts Bay because of the continual changes taking place at the entrance to the bay. Only one floating aid is charted outside the limits of the plan and this aid is charted about $\frac{1}{4}$ mile north of the present survey position.

7. Condition of Survey

- a. The descriptive report and sounding records are complete and comprehensive.

The operation of the fathometer in conjunction with the pole soundings when crossing the small channels inside Netarts Bay would have helped to better delineate the narrow channels in this area.

- b. The survey was smooth plotted accurately and neatly.

8. Compliance with project instructions

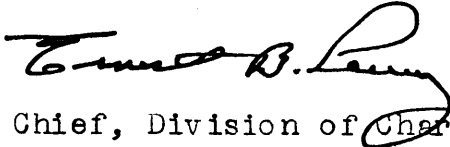
This survey in general adequately complies with the Project Instructions. As mentioned in the Descriptive Report, further development around the entrance to the bar would have been desirable, but rough seas and hazardous conditions prohibited such work. An additional line of soundings at Lat. $45^{\circ}25.73'$, Long. $123^{\circ}56.81'$, would have helped delineate the continuity of the channel in Netarts Bay. The channels across the mud flats are somewhat sparsely developed.

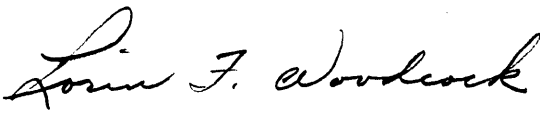
9. Additional Field Work Recommended

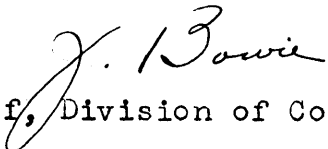
This is a good basic survey and no additional field work is recommended.

Examined and Approved:


Chief, Nautical Chart Branch


Chief, Division of Charts


Chief, Hydrography Branch


Chief, Division of Coastal Surveys

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. .8372...

Records accompanying survey:

Boat sheets ..1..; sounding vols. .3...; wire drag vols.;
 bomb vols.; graphic recorder rolls 2-Envelopes
 special reports, etc. 1-Smooth sheet, and 1-Descriptive report.

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	.....	518	
Number of positions checked	.....	46	
Number of positions revised	.....	0	
Number of soundings revised (refers to depth only)	.....	0	
Number of soundings erroneously spaced	.....	0	
Number of signals erroneously plotted or transferred	.....	0	
Topographic details	Time	..2..	
Junctions	Time	..4..	
Verification of soundings from graphic record	Time	..1..	
Verification by <i>J. P. Chamberlain</i>	.....Total time	..67..	Date <i>5/8/59</i>
Reviewed by <i>H. W. Burgoyne</i>	..... Time	..30..	Date <i>5/18/60</i>

GEOGRAPHIC NAMES

Survey No. H-8372

Name on Survey										
	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
	A	B	C	D	E	F	G	H	K	
<u>Oregon</u>			(title)							1
<u>Netarts Bay</u>			"							2
<u>Whiskey Creek</u>										3
<u>Netarts</u>										4
<u>Fall Creek</u>										5
										6
										7
					Names approved 3-17-58 L. Heck					8
Tide Station off sheet:										9
<u>Berview, Tillamook Bay</u>										10
										11
										12
										13
										14
										15
										16
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										25
										26
										27

TIDE NOTE FOR HYDROGRAPHIC SHEET

Chart Division: R. H. Carstens

20 March 1958

Plane of reference approved in
3 volumes of sounding records for

HYDROGRAPHIC SHEET 8372

Locality Netarts Bay, Oregon

Chief of Party: A. L. Wardwell in 1957

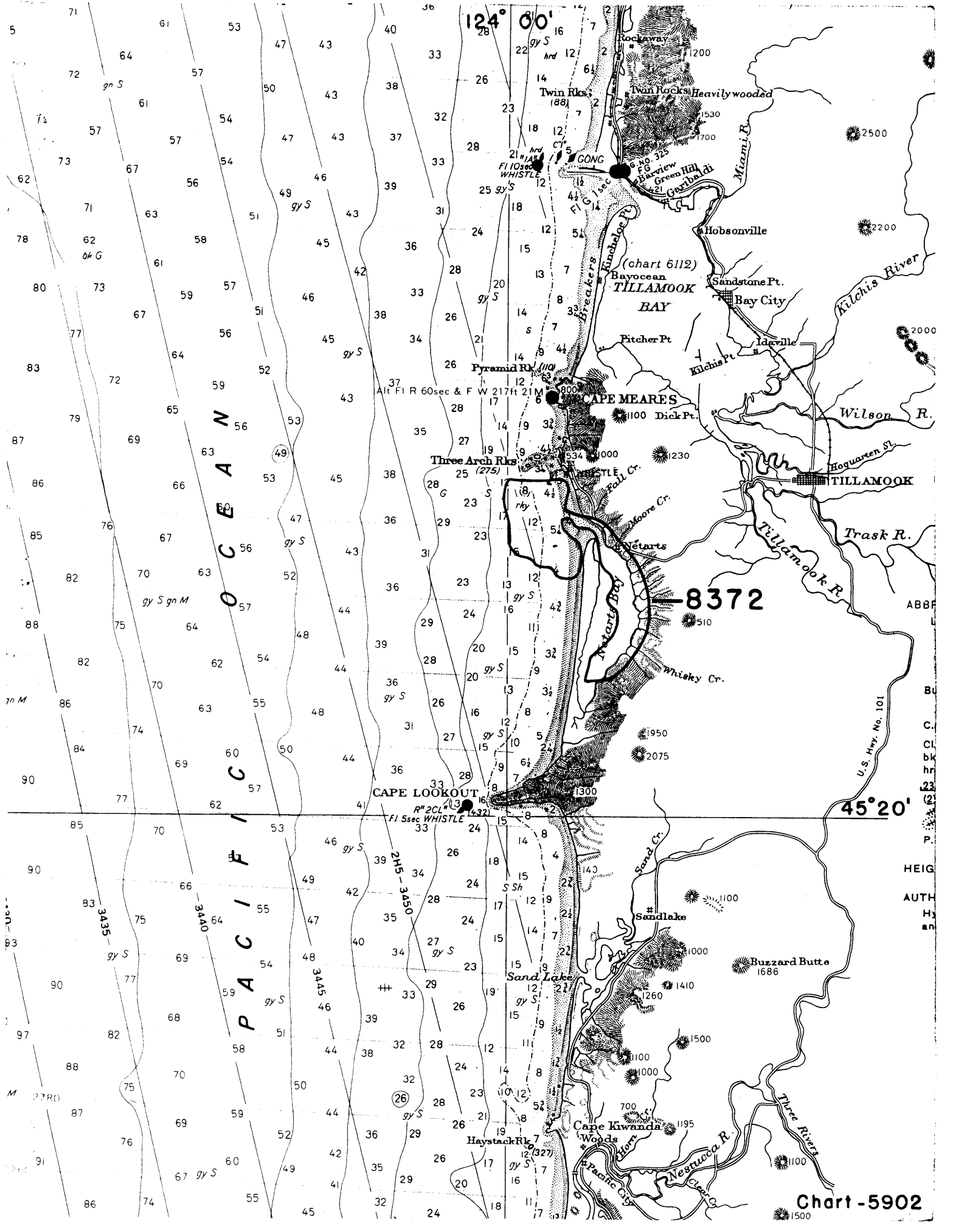
Plane of reference is mean lower low water, reading
4.5 ft. on tide staff at Barview
21.4 ft. below B.M. 1 (1933)

Height of mean high water above plane of reference is 6.8 feet.

Condition of records satisfactory except as noted below:

A handwritten signature in cursive script, appearing to read 'William H. ...', written over a horizontal line. Below the line, the word 'Signature' is printed in a small, bold font.

Chief, Tides Branch



45°20'

Chart -5902

PACIFIC OCEAN

8372

124° 00'

CAPE LOOKOUT
R# 2CL (13)
Fl Ssec WHISTLE (1327)

CAPE MEARES
1000 Dick Pt.
1230
1000

CAPE KIWANDA
Woods
1195

Buzzard Butte
1686

Sandlake
1100

Sandlake
1000

1260

1410

1500

1000

700

1195

1500

U.S. Hwy. No. 101

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NAUTICAL CHARTS BRANCH

SURVEY NO. H-8372

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
6/13/58	5902	J.G. McGinn	Before After Verification and Review <i>Completely applied to 1:30000 Plan before V&R</i>
10/10/60	6112 Reconstr.	Offelmer	Before After Verification and Review <i>Fully applied</i> <i>ama</i>
7/1/62	5902	Offelmer	Before After Verification and Review <i>thru 6112 Reconstr.</i> <i>in overlap. Fully applied.</i>
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

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