

10354

Original

Diag. Cht. Nos. 5902-2 & 6002-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Planimetric (Photogrammetric)

Field No. Ph-155 Office No. T-10354

LOCALITY

State Oregon - Washington

General locality Columbia River

Locality Desdemona Sands

19 57

CHIEF OF PARTY

V. Ralph Sobieralski, Chief of Party
Lorne G. Taylor, Photogrammetric Office

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MAY 1 1962

DATE

USCOMM-DC 5067

10354

DESCRIPTIVE REPORT - DATA RECORD

T - 10354

Project No. (II): Ph-155

Quadrangle Name (IV):

Field Office (II): Astoria, Oregon
Seaview, Washington
Photogrammetric Office (III): Portland, Oregon

Chief of Party: V. Ralph Sobieralski
Unit Chief, C. D. Upham; C. H. Bishop
Officer-in-Charge: Lorne G. Taylor

Instructions dated (II) (III): 5 Oct. 1955)
12 Oct. 1955) II & III
3 July 1957)

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): Kelsh Stereoscopic Instrument

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:5000
Pantograph Scale 1:10,000

Scale Factor (III):

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

3/20/62

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): X

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (g) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): TANSY 2, 1946

Lat.: 46° 11' 24.397"

Long.: 123° 55' 25.327"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: Oregon

Zone: North

Y= 938,397.64

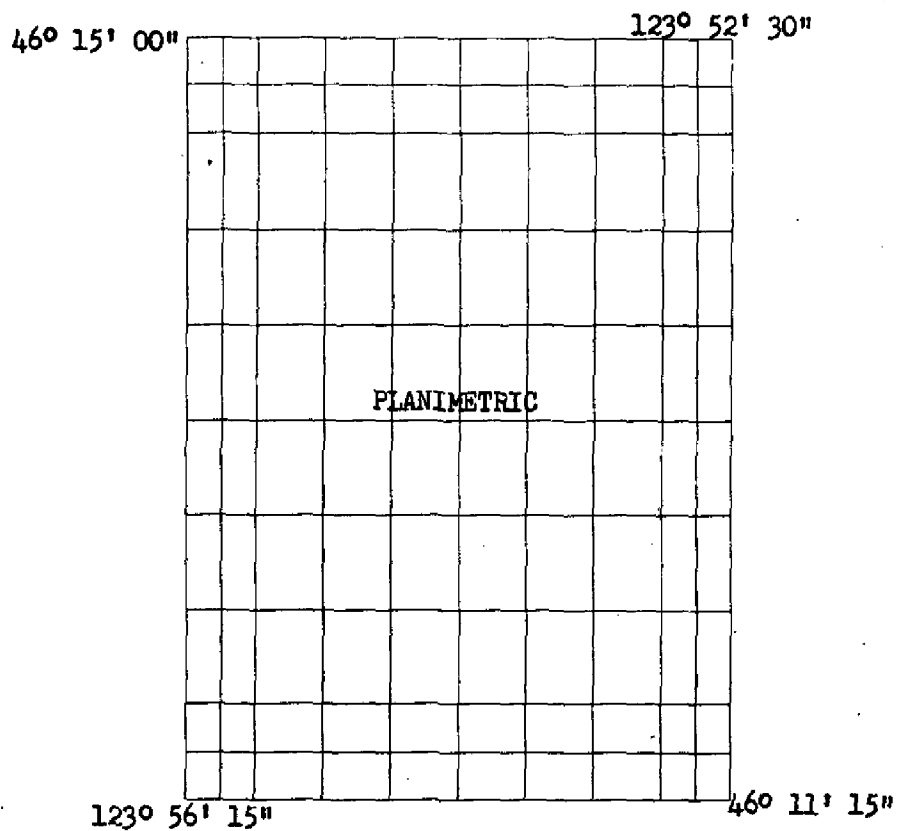
X= 1,133,057.40

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,
or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY



Areas contoured by various personnel
(Show name within area)
(II) (III)

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): C. D. Upham
C. H. Bishop
R. B. Melby
Date: Sept. 1957
Nov. 1957
Nov. 1957

Planetable contouring by (II):
Date:

Completion Surveys by (II):
Date:

Mean High Water Location (III) (State date and method of location): Sept. 1957 by field inspection
and compilation by Kelsh Instrument.

Projection and Grids ruled by (IV): J. R. Haskins
Date: 9-9-57

Projection and Grids checked by (IV): J. R. Haskins
Date: 9-9-57

Control plotted by (III): D. N. Williams
Date: 11-27-57

Control checked by (III): L. L. Graves
Date: 11-29-57

Radial Plot or Stereoscopic
Control extension by (III): John D. Perrow, Jr.
Date: Nov. 1957

Planimetry D. N. Williams
Date: 2-24-58
Stereoscopic Instrument compilation (III):
Contours
Date:

Manuscript delineated by (III): D. N. Williams, Scribing
C. C. Harris, Stick-up
Date: 3-8-60
6-7-60

Photogrammetric Office Review by (III): J. E. Deal
Date: Aug. 1960

Elevations on Manuscript
checked by (II) (III):
Date:

DESCRIPTIVE REPORT - DATA RECORD

5. U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

Camera (kind or source) (III):

Number	Date	Time	Scale	Stage of Tide
55-W-8644 & 8645	6-6-55	11:37	1:25,000	5.2' above M.L.L.W.
55-W-9817 & 9818	9-24-55	12:19	"	3.4' above M.L.L.W.

Tide (III)

Reference Station: Astoria, Oregon
Subordinate Station: Warrenton, Oregon
Subordinate Station:

Ratio of Ranges	Mean Range	Diurnal Spring Range
	6.5	8.2
	6.5	8.3

Washington Office Review by (IV):

Date: 2/23/62

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

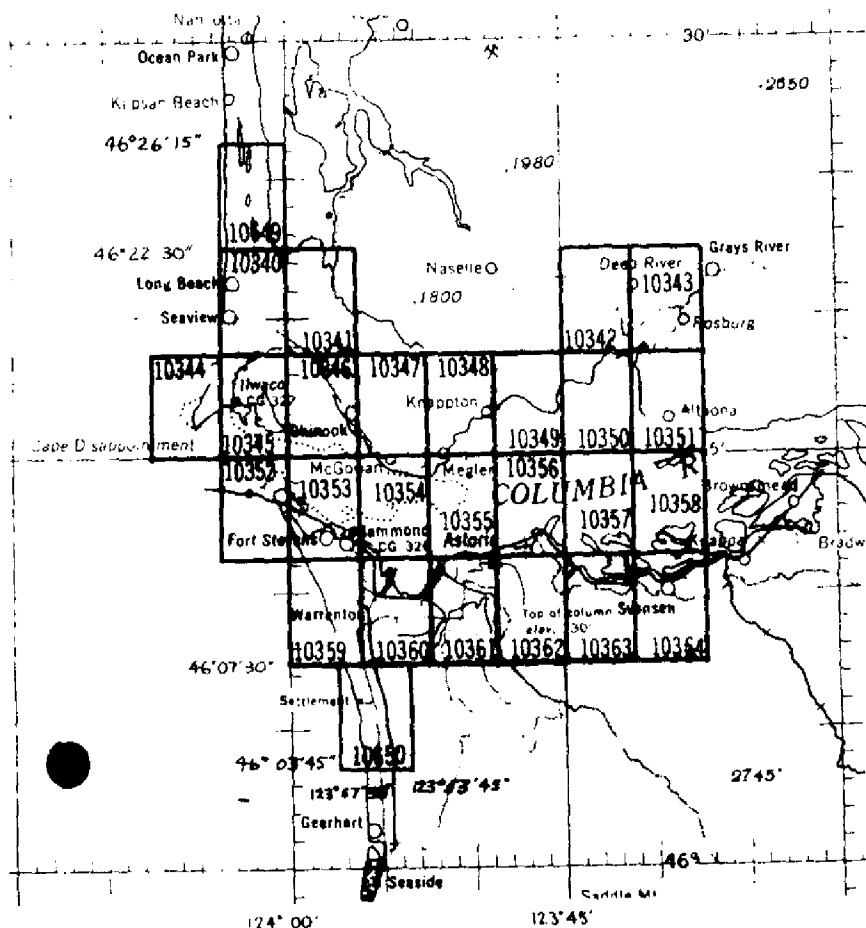
Land Area (Sq. Statute Miles) (III): 1
Shoreline (More than 200 meters to opposite shore) (III): 3
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 16 Recovered: 5 Identified: 4*
Number of BMs searched for (II): None Recovered: Identified:
Number of Recoverable Photo Stations established (III): 2
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

*One triangulation station, Flavel Range Rear Light 1951, included above was recovered and identified by the field party. It has been destroyed since the field party was in the area.

PLANIMETRIC PROJECT PH-155

MOUTH OF COLUMBIA RIVER, WASH-OREGON



OFFICIAL MILEAGE FOR COST ACCOUNTS

SHEET NO.	LINE MI.	AREA SQ.
	SHORE LINE	MILES
10340	9	10
10341	8	12
10342	4	13
10343	7	13
10344	1	2
10345	13	3
10346	11	6
10347	3	12
10348	4	11
10349	4	5
10350	6	5
10351	3	9
10352	3	1
10353	9	4
10354	3	1
10355	2	2
10356	5	5
10357	2	1
10358	21	3
10359	5	6
10360	14	11
10361	15	9
10362	2	12
10363	17	10
10364	14	12
10649	8	8
10650	<u>4</u>	<u>8</u>
TOTAL	219	193

FIELD INSPECTION REPORT

Map Manuscript T-10354

Project Ph-155

Refer to Field Inspection Report for Project Ph-155, "Mouth
of Columbia River to Altoona", July 1957 to November 1957.

(14 T-10354)

DCA

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10354

Project Ph-155

Refer to the Photogrammetric Plot Report for Strips 1B, 2B and 3B which is included in T-10353.

Refer to the Photogrammetric Plot Report for T-10355 relative to a hand template radial plot.

COMPILATION REPORT

Map Manuscript T-10354

Project Ph-155

31. Delineation:

Refer to Item 31 for map manuscript T-10340.

32. Control:

Refer to Item 32 for map manuscript T-10340.

33. Supplemental Data:

- a. Map, City of Hammond, Scale not known.
- b. Map, City of Warrenton, Scale 1" = 1000', approximately
- c. Copy of Senate Bill No. 1., 94 O.L. 1957,
State of Oregon

34. Contours and Drainage:

Contours not applicable.

Drainage (one small intermittent stream) was interpreted in the compilation office using U.S.G.S. 7½ minute Warrenton, Oreg.-Wash. quadrangle as a reference.

35. Shoreline and Alongshore Details:

These features were adequately field inspected and no trouble was encountered during the compilation work.

Low-water lines could not be determined from the photographs and were not mapped. Foreshore areas visible at the time of photography in the vicinity of McGowan, Point Ellice and Taney Point were compiled.

36. Offshore Details:

An offshore detail of importance is Desdemona Sands, a large sand area that bares at low tide. There is some piling within this area at the east edge of the manuscript.

37. Landmarks and Aids:

Form 567 is submitted for one landmark and three fixed aids to navigation.

38. Control for Future Surveys:

Two topographic stations were established for use during future surveys. These are listed under "Notes to the Hydrographer".

Form 524 is submitted for Topographic Station COLD 1957.

39. Junctions:

Satisfactory junctions were made with T-10353 on the west, T-10347 on the north, T-10355 on the east and T-10360 on the south.

40. Horizontal and Vertical Accuracy:

Vertical accuracy is not applicable. There are no areas believed to be of sub-normal horizontal accuracy.

46. Comparison with Existing Maps:

Comparison was made with U.S.G.S. 7½ minute Warrenton, Oreg.-Wash. quadrangle, Scale 1:24,000, published in 1953.

47. Comparison with Nautical Charts:

Comparison was made with Nautical Chart No. 6251, 34th Edition Oct. 10, 1960, corrected through Jan. 7, 1961 and Nautical Chart No. 6002, Scale 1:180-987, 10th Edition July 9, 1942, Revised May 23, 1960, corrected through Jan. 7, 1961.

Items to be applied to nautical charts immediately:

None.

Items to be carried forward:

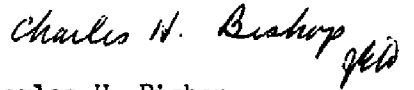
None.

Approved:



Fred Natella, CAPT, C&GS
Portland District Officer
for
Lorne G. Taylor, CDR, C&GS

Respectfully submitted:



Charles H. Bishop
Surveying Technician
C&GS

Map Manuscript T-10354

49. Notes to the Hydrographer:

One recoverable topographic station was located namely COLD 1957. This station is also a point on line of Astoria Crossing Range.

The area shown for Desdemona Sands is only approximate. The piling and other features inside this area were located accurately.

There are several triangulation stations which are natural objects.

PHOTOGRAMMETRIC OFFICE REVIEW

T-10354

1. Projection and grids ☒ 2. Title ☒ 3. Manuscript numbers ☒ 4. Manuscript size ☒

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy ☒ 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) ☒ 7. Photo hydro stations ☒ 8. Bench marks ☒
9. Plotting of sextant fixes ☒ 10. Photogrammetric plot report ☒ 11. Detail points ☒

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ☒ 13. Low-water line ☒ 14. Rocks, shoals, etc. ☒ 15. Bridges ☒ 16. Aids to navigation ☒ 17. Landmarks ☒ 18. Other alongshore physical features ☒ 19. Other along-shore cultural features ☒

PHYSICAL FEATURES

20. Water features ☒ 21. Natural ground cover ☒ 22. Planetable contours ☒ 23. Stereoscopic instrument contours ☒ 24. Contours in general ☒ 25. Spot elevations ☒ 26. Other physical features ☒

CULTURAL FEATURES

27. Roads ☒ 28. Buildings ☒ 29. Railroads ☒ 30. Other cultural features ☒

BOUNDARIES

31. Boundary lines ☒ 32. Public land lines ☒

MISCELLANEOUS

33. Geographic names ☒ 34. Junctions ☒ 35. Legibility of the manuscript ☒ 36. Discrepancy overlay ☒ 37. Descriptive Report ☒ 38. Field inspection photographs ☒ 39. Forms ☒

40. _____
Reviewer

Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

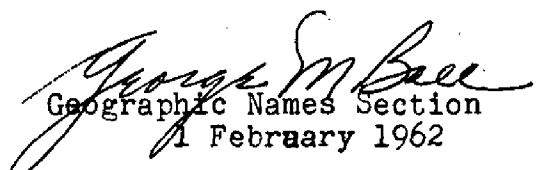
Compiler

Supervisor

43. Remarks:

48. Geographic Names:

Clatsop County
Columbia River
Desdemona Sands
*McGowan
Pacific County
Spokane, Portland and Seattle
Tansy Point


Geographic Names Section
1 February 1962

T-10354

48. Geographic Names:

Clatsop County
Columbia River
Desdemona Sands
*McGowan
Pacific County
Spokane, Portland and Seattle
Tansy Point

George M. Ball
Geographic Names Section
1 February 1962

27 July, 1961

The positions given have been checked after listing by Charles H. Bishop

Fred Natella *Chief of Party.*

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

STRIKE OUT ONE

Portland, Oregon

27 July, 1961

The positions given have been checked after listing by Charles H. Bishop

Fred Natella *Chief of Party.*

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

MONITORING AND CONSIDER LANDMARKS FOR CHARTS

Portland, Oregon 27 July, 1962

I recommend that the following objects which have ~~(been)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(charts)~~ the charts indicated.

The positions given have been checked after listing by Charles H. Bishop

Fred Natolla *Chief of Party.*

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NAUTICAL CHART BRANCH

**TO BE CHARTED
TOXBOXTOXBOXT**

STRIKE OUT ONE

NONFLOATING AIDS BECAME MARKS FOR CHARTS

Portland, Oregon 27 July 1961

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be charted on ~~(attached)~~ the charts indicated.

The positions given have been checked after listing by Charles H. Bishop

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by the charting authority. Information under each column heading should be given.

NONFLOATING AIDS ORIENTED MARKERS FOR CHARTS

TO BE CHARTED
~~TO BE CHARTED~~

STRIKE OUT ONE

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be charted on ~~(attached form)~~ the charts indicated.

The positions given have been checked after listing by

Portland, Oregon 27 July 1961

Charles H. Bishop

Fred Natella	Chief of Party.
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[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids to navigation*, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

STRIKE OUT ONE

NONFLOATING AIDS ORIENTED MARKERS FOR CHARTS

Portland, Oregon 27 July 1961

I recommend that the following objects which have ~~(been)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(the chart)~~ the charts indicated.

The positions given have been checked after listing by **Charles H. Bishop**

Fred Natella *Chief of Party*

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

REVIEW REPORT
T-10352 through 10364 and T-10650
Planimetric December 18, 1961

62. Comparison with Registered Topographic Surveys

Map No.	Scale	Year	Map No.	Scale	Year
317	1:22,962	1850-51	1806	1:10,000	1887
1112	1:10,000	1868	4226	1:20,000	1926
1123	"	1868	4250	"	"
1138	"	1869	4251	"	"
1139a&b	"	1869	4263	1:10,000	1926
1234	"	1870	4264	"	"
1235	"	1870	6521a	"	"
1249	"	1870	6521b	"	1936

The manuscripts covered by this review report supersede the surveys listed above for purposes of nautical chart construction.

63. Comparison with Maps of Other Agencies

Comparison was made with the latest existing maps during the photogrammetric review. Each report lists under "Comparison with Maps, etc." the quadrangles that were used.

64. Comparison with Contemporary Hydrographic Surveys

Where applicable, each map was compared with the latest hydrographic survey. All available hydrographic surveys are unverified. Discrepancies are listed under the heading of each map. If the map is not listed, no discrepancies exist during review.

T-10352 - The submerged rocks shown on the manuscript which appear to once have been part of the jetty were compiled in the photogrammetric office from a U.S. Engineer Survey dated 1956. This feature was not developed by hydro on sheets H-8421 through H-8423. See the Descriptive Report for this survey for details.

T-10354 - A pile is shown on the manuscript above MHW whereas hydro shows this pile submerged at latitude 46°14'37" and longitude 123°55'16". The pile was field inspected.

T-10356 - A rock is shown on the manuscript as awash MHW and on hydro sheet H-8420 as (4) with a position difference of approximately 5 meters. The rock is located at latitude 46°12'45" and longitude 123°45'18". The height of the rock was given by the field inspector.

T-10357 - Piles and/or shags shown on Chart 6151 in the vicinity of latitude $46^{\circ}13'30''$ and longitude $123^{\circ}42'30''$ and latitude $46^{\circ}12'30''$ and longitude $123^{\circ}42'30''$ are not shown on the unverified smooth sheet. They are too far offshore for photogrammetric location.

65. Comparison with Nautical Charts

Comparison was made with Charts 6151 and 6152, 34 Edition October 10, 1960 corrected June 26, 1961. Nautical Charts did not use these surveys for the construction of the new edition. Many minor changes in offshore features and planimetric detail were noted. Only dangers to navigation or significant changes in detail have been noted for each sheet.

T-10354 - Some differences were noted in shoreline features in the vicinity of Hammond at latitude $46^{\circ}11'30''$, longitude $123^{\circ}56'00''$. The pile area in the vicinity of latitude $46^{\circ}12'30''$, longitude $123^{\circ}52'30''$ is incomplete. It is a shoal area and of no danger to navigation.

T-10361 - A difference exists in the position of a snag at latitude $46^{\circ}11'03''$ and longitude $123^{\circ}51'46''$ in Youngs Bay. Landmark "Drum" should be deleted from Chart as recommended on Form 567.

66. Adequacy of Results and Future Surveys

These maps comply with instructions and meet National Standards of Map Accuracy.

Respectfully submitted:

A. K. Heywood
A. K. Heywood

Approved:

L. C. Lunde
Chief, Review and Edit Sec.

Mervin P. Parker
Chief, Div. of Nautical Charts

J. E. Waugh 6/6/62
Chief, Div. of Photogrammetry

G. L. Mast 8/2/62
Chief, Div. of Coastal Surveys
Operations

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10354

Record of Application to Charts

[illegible]

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.