

10358

Diag. Cht. Nos. 5902-2, 6002-2 & 6152.

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-10358

LOCALITY

State Oregon

General locality Columbia River

Locality Russian Island

1952 55-1958

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

DATE MAY 1 1962

USCOMM-DC 5087

10358

DESCRIPTIVE REPORT - DATA RECORD

T - 10358

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
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): Kelah Instrument and graphic

Manuscript Scale (III): 1:10,000

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

Scale Factor (III): None

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

3/27/62

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Mean sea level except as follows: X
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): GREEN, 1950

Lat.: 46° 12' 51.544"

Long.: 123° 39' 40.116"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: Oregon

Zone: North

Y= 944,509.91

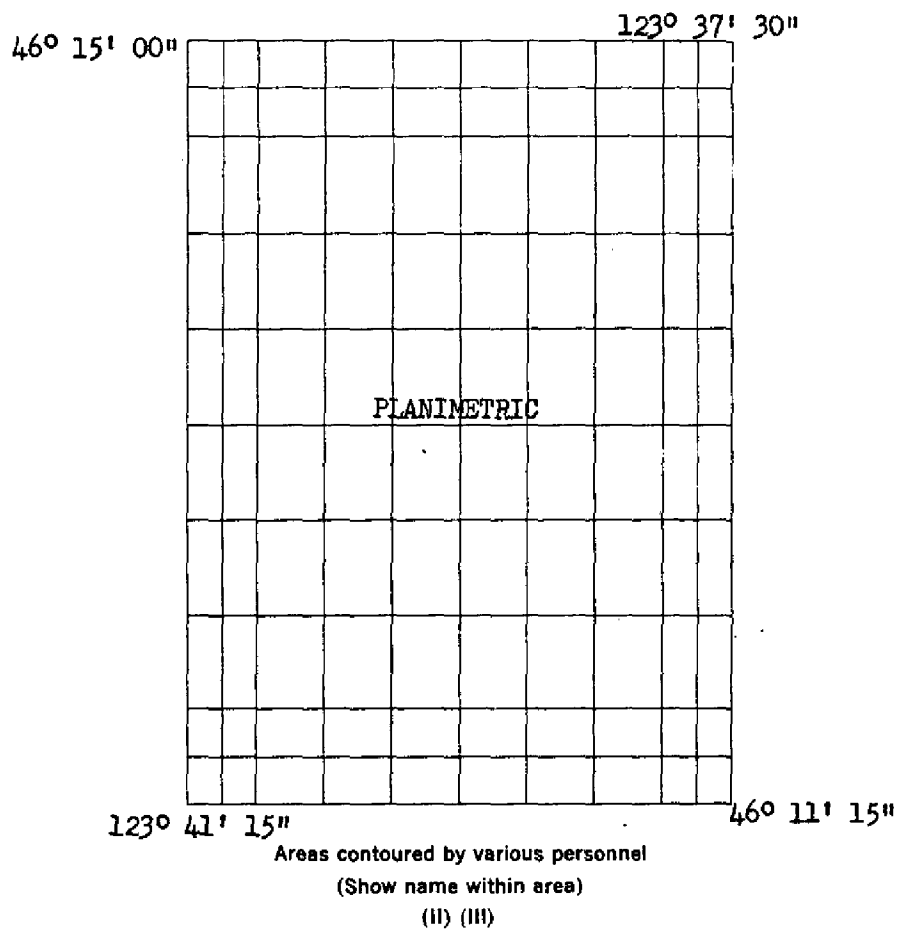
X= 1,199,851.94

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



DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): C. D. Upham & C. H. Bishop Date: Sept. 1957
W. P. James & E. T. Jenkins Nov. 1958

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): Located by field inspection in Sept. 1957 & Nov. 1958. Compiled by Kelsh Instrument and graphic methods.

Projection and Grids ruled by (IV): J. R. Haskins Date: 9-12-57

Projection and Grids checked by (IV): J. B. Phillips Date: 9-12-57

Control plotted by (III): D. N. Williams Date: Nov. 1957

Control checked by (III): L. L. Graves Date: Nov. 1957

Radial Plot or Stereoscopic J.E. Deal & D.N. Williams, Radial Plot Date: Dec. 1957
Control extension by (III): J. D. Perrow, Jr., Stereoplanigraph 11-28-57

Stereoscopic Instrument compilation (III): Planimetry Date:
Contours Date:

Manuscript delineated by (III): D. N. Williams, Compilation Date: 1-7-58
L. L. Graves, Scribing 3-8-60
C. C. Harris, Stick-up 6-27-60

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

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

DESCRIPTIVE REPORT - DATA RECORD

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

Camera (kind or source) (III): C&GS Single lens "W"

PHOTOGRAPHS (III)				
Number	Date	Time	Scale	Stage of Tide
55-W-8653	6-6-55	11:42	1:10,000 ratio	3.2' above M.L.L.W.
55-W-9809 & 9810	9-24-55	12:15	1:25,000 contact	3.4' above M.L.L.W.

Tide (III)

Reference Station: Astoria (Tongue Point) Oregon
Subordinate Station:
Subordinate Station:

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 3
Shoreline (More than 200 meters to opposite shore) (III): 21
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 14
Number of BMs searched for (II): None
Number of Recoverable Photo Stations established (III): 1
Number of Temporary Photo Hydro Stations established (III): None

Ratio of Ranges	Mean Range	Diurnal
		Spring Range
	6.5	8.2
	6.2	7.9

Date: 2/23/62

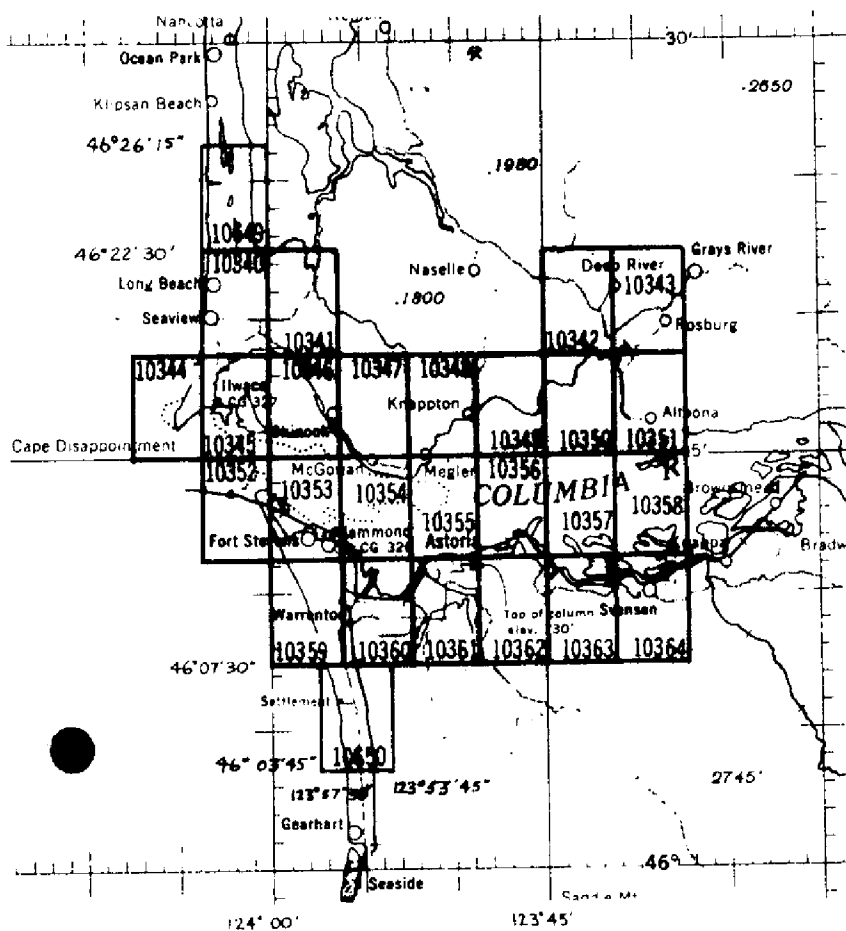
Date:

Date:

Date:

Remarks:

PLANIMETRIC PROJECT PH-155 MOUTH OF COLUMBIA RIVER, WASH. OREGON



OFFICIAL MILEAGE FOR COST ACCOUNTS

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

FIELD INSPECTION REPORT

Map Manuscript T-10358

Project Ph-155

Refer to Field Inspection Report for Project Ph-155, Mouth
of Columbia River to Altoona, July to November 1957. (14 T-10649)

AKA

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10358

Project Ph-155

Refer to the Stereoplanigraph Bridge Report for Strip #5 which is included in the Descriptive Report for T-10346 (1957).


Refer to the Stereoplanigraph Bridge Report for Strip #3 which is included in the Descriptive Report for T-10353 (1957).


Miller

An area in the vicinity of ~~Sand~~ Island and Snag Island Jetty was radially plotted using ratio prints of the June 6, 1955 photography. Ties were made to identified horizontal control and to pass points located in above stereoplanigraph bridge.

Approved:

Respectfully submitted:


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


J. Edward Deal,
Cartographer

COMPILATION REPORT

Map Manuscript T-10358

Project Ph-155

31. Delineation:

The marsh areas and sand islands in the south area of the map manuscript were compiled with the Kelsh Instrument. Miller Sands and part of Snag Island were compiled by graphic methods. Field inspection was adequate.

32. Control:

Horizontal control was adequate as outlined in Photogrammetric Report.

33. Supplemental Data:

None.

34. Contours and Drainage:

Contours are not applicable.

All of the planimetry for this manuscript is either reclaimed land, mud flats or marsh areas. There were no drainage patterns evident.

35. Shoreline and Alongshore Details:

These features were adequately field inspected and compiled without difficulty.

Foreshore areas are shown where visible on the photographs.

Approximate low-water lines could not be ascertained from the photography.

36. Offshore Details:

The water area contains many mud flats which bare at low water. Many of these could not be ascertained from the photography and are therefore not shown.

37. Landmarks and Aids:

There are no landmarks. Forms 567 are submitted for fixed aids to navigation.

38. Control for Future Surveys:

None other than reported on Forms 567.

39. Junctions:

A satisfactory junction was made with T-10351 on the north, with T-10357 on the west and with T-10363 on the south. On the east a junction was made at Longitude $123^{\circ} 37' 30''$ with the planimetry of T-9266 and T-9267 of Project Ph-50. All of the planimetry on T-9266 and T-9267 between Lat. $46^{\circ} 11' 15''$ and Lat. $46^{\circ} 15' 00''$ and Long. $123^{\circ} 37' 30''$ and Long. $123^{\circ} 40' 00''$ is superseded by the planimetry shown on T-10358 in this area.

40. Horizontal and Vertical Accuracy:

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

46. Comparison with Existing Maps:

Comparison was made with U.S.G.S. $7\frac{1}{2}$ minute Cathlamet Bay, Oreg. quadrangle, Scale 1:24,000, published 1949.

47. Comparison with Nautical Charts:

Comparison was made with Nautical Chart No. 6151, 34th Edition Oct. 10, 1960, Corrected through Jan. 7, 1961 and Nautical Chart No. 6002, Scale 1:180,789, 10th Edition July 9, 1942, Revised May 23, 1960, Corrected through Jan. 7, 1961.

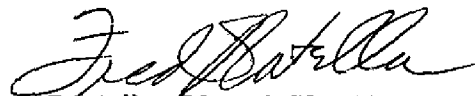
Items to be Applied to Nautical Charts Immediately.

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:



J. Edward Deal
Cartographer

Map Manuscript T-10358

49. Notes to the Hydrographer:

No recoverable topographic stations were located in the area of this map manuscript.

Two fixed aids to navigation were located by Kelsh instrument and verified by sextant fix. They are:

MARSH ISLAND LT. 17A, 1957 (see Form 567)
RUSSIAN ISLAND LT. 15, 1957

All triangulation stations shown were recovered and identified during field inspection.

PHOTOGRAMMETRIC OFFICE REVIEW

T-10358

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 None 8. Bench marks None
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 None 16. Aids to navigation ☒ 17. Landmarks None 18. Other alongshore physical features ☒ 19. Other along-shore cultural features ☒

PHYSICAL FEATURES

20. Water features ☒ 21. Natural ground cover ☒ 22. Planetable contours None 23. Stereoscopic instrument contours None 24. Contours in general None 25. Spot elevations None 26. Other physical features ☒

CULTURAL FEATURES

27. Roads ☒ 28. Buildings ☒ 29. Railroads None 30. Other cultural features ☒

BOUNDARIES

31. Boundary lines None 32. Public land lines None

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

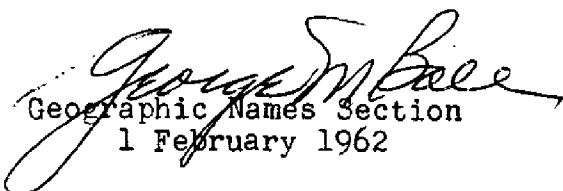
Supervisor

43. Remarks:

48. Geographic Name:

Big Creek Slough
Columbia River
Green Island
*Miller Sands
Minaker Island
McGregor Island
North Island
*Prairie Channel
Russian Island
Seal Island
Snag Island Jetty
Woody Island Channel

* B.G.N. Decision


Geographic Names Section
1 February 1962

10-10-78

The positions given have been checked after listing by J. E. Deal

Portland, Oregon

ESTABLISHING COMMON LANDMARKS FOR CHARTS

Fred Hatfield *Chief of Party.*

STATE OF OREGON

[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. Revisions shall show both the old and new positions. 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.

TABULATE SECONDS AND METERS

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

Comparisons 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. Lande
Chief, Review and Edit Sec.

Marvin T. Jackson
Chief, Div. of Nautical Charts

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

Max Braketto
Chief, ~~Div. of Coastal Surveys~~
Operations

NAUTICAL CHARTS BRANCH

SURVEY NO. **T-10358**

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.