

10349

orig.

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

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey <u>Planimetric (Photogrammetric)</u>	
Field No. <u>Ph-155</u>	Office No. <u>T-10349</u>
LOCALITY	
State <u>Washington - Oregon</u>	
General locality <u>Columbia River</u>	
Locality <u>Grays Point</u>	
<u>193855-1957</u>	
CHIEF OF PARTY	
V. Ralph Sobieralski, Chief of Party	
Lorne G. Taylor, Photogrammetric Office	
LIBRARY & ARCHIVES	
DATE <u>MAY 1 1962</u>	

USCOMM-DC 5087

10349

DESCRIPTIVE REPORT - DATA RECORD

T - 10349

Project No. (II): Ph-155

Quadrangle Name (IV):

Field Office (II): Seaview, Washington

Chief of Party: V. Ralph Sobieralski

Unit Chief: R. B. Melby

Photogrammetric Office (III): Portland, Oregon

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 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):

3/5/62

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 (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): GRAYS (USE) 1913

Lat.: 46° 16' 24.902"

Long.: 123° 46' 09.503"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: Washington Zone: South

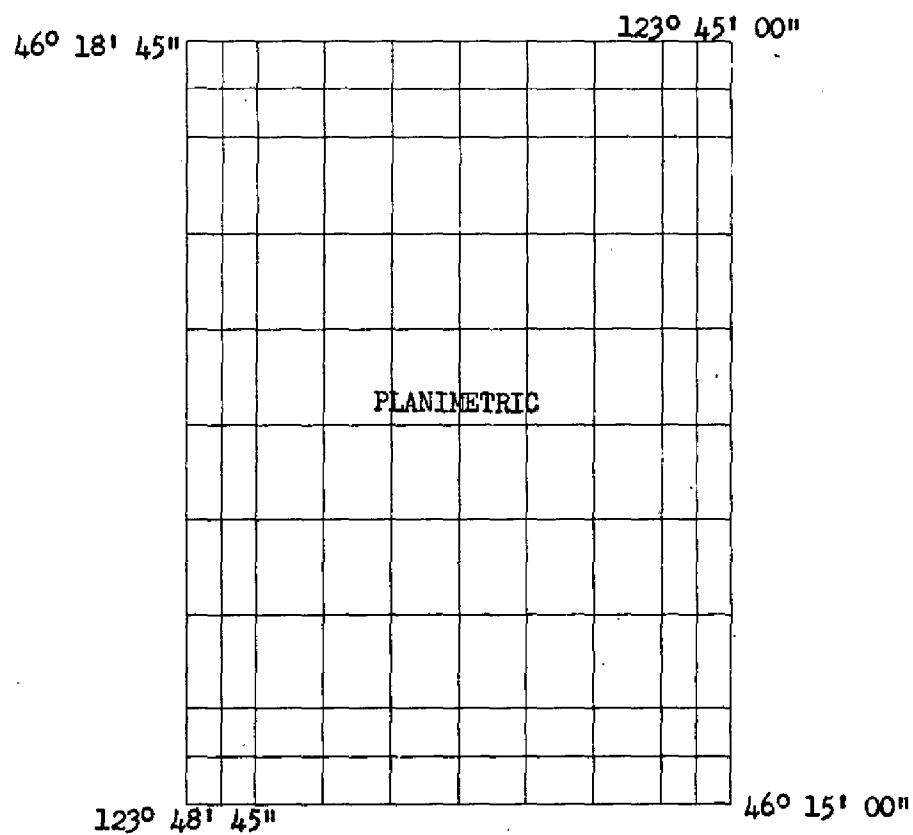
Y= 360,003.23

X= 1,173,499.44

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. H. Bishop & R. B. Melby Date: Nov. 1957

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): By field inspection and Kelsh compilation.

Projection and Grids ruled by (IV): J. R. Haskins Date: 10-30-57

Projection and Grids checked by (IV): I. Y. Fitzgerald Date: 10-31-57

Control plotted by (III): L. L. Graves Date: 2-7-58

Control checked by (III): E. T. Jenkins Date: 2-7-58

Radial Plot or Stereoscopic Control extension by (III): John D. Perrow, Jr. Date: 1-28-58

Stereoscopic Instrument compilation (III):
Planimetry L. L. Graves Date: 2-21-58
& D. N. Williams Date: 1-20-59
Contours

Manuscript delineated by (III): J. L. Harris, Scribing Date: 4-3-59
C. C. Harris, Stick-up Date: 6-16-60

Photogrammetric Office Review by (III): J. E. Deal Date: July 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): USC&GS Single lens "W"

PHOTOGRAPHS (III)				
Number	Date	Time	Scale	Stage of Tide
55-W-8667 & 8668	6-6-55	11:52	1:10,000 (ratio)	4.3' above M.L.L.W.
55-W-8689 & 8690	"	12:09	"	4.3' " "
55-W-9881 & 9882	9-24-55	13:06	1:25,000 (contact)	3.3' " "

Tide (III)

Reference Station: Astoria, Oregon
Subordinate Station: Hungry Harbor, Wash.
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	6.5	8.2
	6.4	8.2

Washington Office Review by (IV):

A.K. H. Eywood

Date: 2/25/62

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

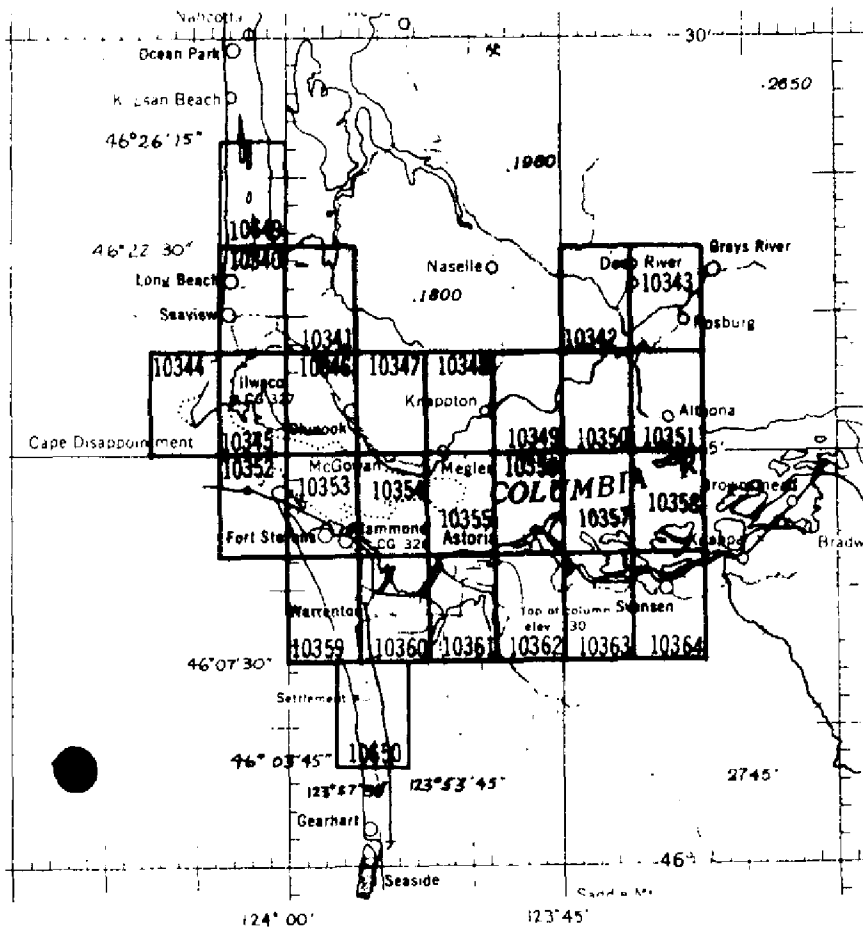
Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 8
Shoreline (More than 200 meters to opposite shore) (III): 4
Shoreline (Less than 200 meters to opposite shore) (III): None
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 4 Recovered: 2 Identified: 1
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:

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



OFFICIAL MILEAGE FOR COST ACCOUNT

SHEET NO.	LIN. MI. SHORT LINE	AREA SQ. MILES
10340	9	10
10341	8	12
10342	4	13
10343	7	13
10344	4	2
10345	13	3
10346	11	6
10347	3	12
10348	4	11
10349	4	8
10350	6	3
10351	2	9
10352	3	1
10353	9	4
10354	3	1
10355	4	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	12	12
10649	8	8
10650	<u>4</u>	<u>8</u>
TOTAL	219	193

FIELD INSPECTION REPORT

Map Manuscript T-10349

Project Ph-155

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

(in T-10649)

AKA

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10349

Project Ph-155

Refer to the Stereoplanigraph Bridge Reports for Strips 5 and 6 which are included in the Descriptive Report for T-10346 (1957).

SCALE FACTOR	None
--------------	------

1 FT. = 3048006 METER			
COMPUTED BY: J. E. D.	DATE: 10/7/57	CHECKED BY: D. N. W.	DATE: 10/16/57
COMM-DC-57843			

COMPILATION REPORT

Map Manuscript T-10349

Project Ph-155

Items 31 and 32:

Refer to Descriptive Report for T-10347 (1957).

33. Supplemental Data:

14 white prints, Secondary Highway No. 12B, Knappton to Naselle, Pacific County, Washington State Highways Commission 1/29/57.

Oregon Senate Bill No. 1 Chapter 94 O.L. 1957.

34. Contours and Drainage:

Contours are not applicable.

Drainage was spot field inspected. The drainage was discernable on the photographs and was compiled by office delineation using the U.S.G.S. Knappton, Washington- Oregon 7½ minute quadrangle as reference.

35. Shoreline and Alongshore Details:

Field inspection of these features was adequate and no difficulties were encountered.

Foreshore areas are shown.

Approximate low-water lines could not be determined from the photographs.

36. Offshore Details:

Offshore details include piling, fish trap areas and a rocky bar covered with grass.

37. Landmarks and Aids:

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

38. Control for Future Surveys:

Form 524 is submitted for LONG, 1957. One structure was located. Both are listed under Item 49, Notes to the Hydrographer.

39. Junctions:

Satisfactory junctions were made with T-10348 on the west, T-10350 on the east and T-10356 on the south. There is no contemporary survey to the north.

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 Knappton, Wash.-Oreg., quadrangle, Scale 1:24,000, published 1949.

47. Comparison with Nautical Charts:

Comparison was made with Nautical Chart No. 6151, Scale 1:60,000, 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-10349

49. Notes to the Hydrographer:

Two recoverable topographic stations were located by
Kelsh instrument methods. They are:

LONG 1957 and RUIN 1957

There is one triangulation station which is also a fixed
aid to navigation and was recovered and identified during
field inspection.

PHOTOGRAMMETRIC OFFICE REVIEW

T-10349

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 None 10. Photogrammetric plot report ☒ 11. Detail points ☒

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ☒ 13. Low-water line None 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 ☒ 32. Public land lines None

MISCELLANEOUS

33. Geographic names ☒ 34. Junctions ☒ 35. Legibility of the manuscript ☒ 36. Discrepancy overlay None 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:

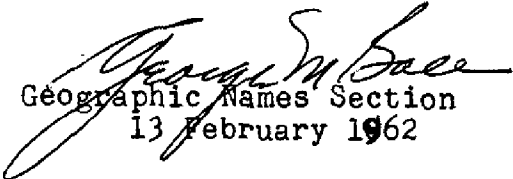
Fred Natella *Chief of Party*

USCOMM-DC 27120

48. Geographic Names:

Bean Creek
Clatsop County
Columbia River
Frank Born Creek
Frankfort
Grays Point
Johnson Creek
Pacific County
Portuguese Point
*South Naselle River

* B.G.N. Decision


Geographic Names Section
13 February 1962

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	"	1863	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 shag 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 D. Jackson
Chief, Div. of Nautical Charts

J. E. Waugh 5/21/62
Chief, Div. of Photogrammetry

May L. Roberts
Chief, Div. of Coastal Surveys
Operations

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10349

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.