

10650

Diag. Cht. No. 5902-2.

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-10650

LOCALITY

State Washington - Oregon

General locality Columbia River

Locality Clatsop Plains

1957-58-1958

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

MAY 2 1962

DATE

USCOMM-OC 5087

10650

DESCRIPTIVE REPORT - DATA RECORD

T - 10650

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: W. P. James
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 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): 3/14/62

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): GOODWIN, 1874

Lat.: 46° 05' 09.781" Long.: 123° 55' 12.415" Adjusted X
Unadjusted

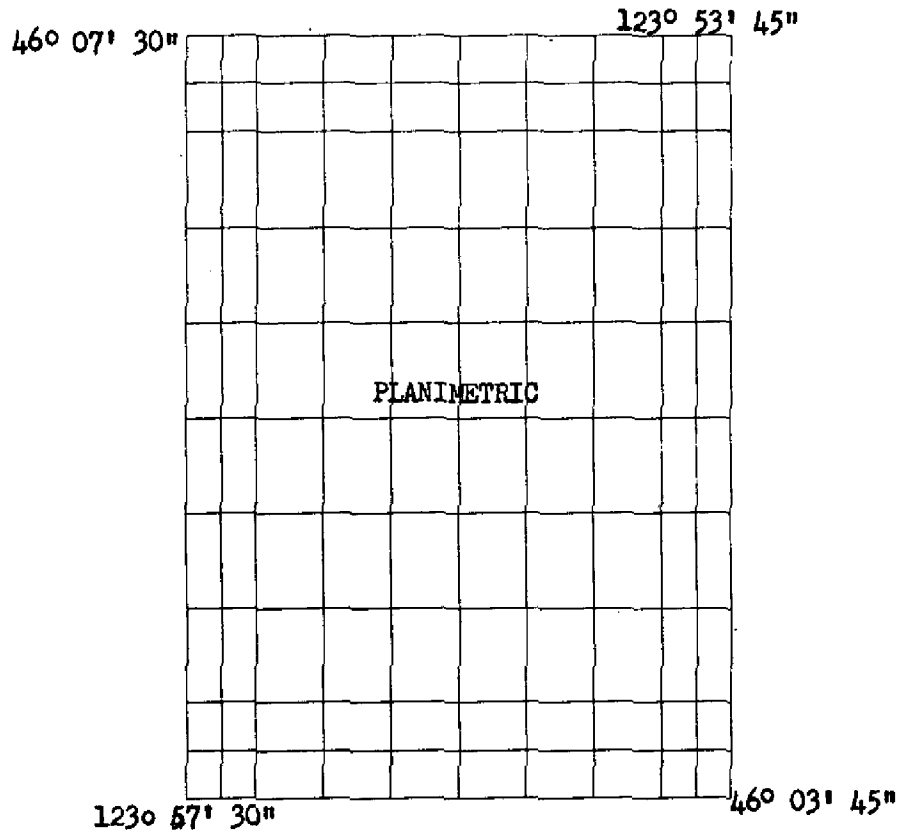
Plane Coordinates (IV): State: Oregon Zone: North

Y= 900,433.56 X= 1,132,359.04

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



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

5

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): **C. H. Bishop** Date: **June 1958**

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): **By field inspection in June 1958, Kelsh Instrument and Graphic Compilation.**

Projection and Grids ruled by (IV): **J. R. Haskins** Date: **12-18-57**

Projection and Grids checked by (IV): **I. Y. Fitzgerald** Date: **1-2-58**

Control plotted by (III): **L. L. Graves** Date: **1-20-58**

Control checked by (III): **E. T. Jenkins** Date: **1-21-58**

Radial Plot or Stereoscopic Control extension by (III): **L. L. Graves, Radial Plot** Date: **11-13-58**

Stereoscopic Instrument compilation (III): Planimetry **L. L. Graves** Date: **12-31-58**

Contours Date:

Manuscript delineated by (III): **C. C. Harris, Scribing** Date: **2-26-59**
C. C. Harris, Stick-up **8-1-60**

Photogrammetric Office Review by (III): **J. E. Deal** Date: **8-30-60**

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

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): C&GS "L" Camera & Delano Company Camera

Number	Date	PHOTOGRAPHS (III)			Stage of Tide
		Time	Scale		
57-L-1822 thru 1824	8-8-57	14:48	1:10,000 ration		3.6' above M.L.L.W.
48-VV-DAS-4803 thru 4807	10-12-48	12:50	1:12,000 contact		3.5' "
48-VV-DAS-4844 thru 4848	"	13:00	" "	" "	" "

Tide (III)

Reference Station: Astoria, Tongue Point, Oregon
Subordinate Station: Entrance, North Jetty
Subordinate Station:

Ratio of Ranges	Mean Range	Diurnal
		Spring Range
	6.5	8.2
	6.0	7.6

Washington Office Review by (IV): *A. K. Ferguson*

Date: 2/23/62

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

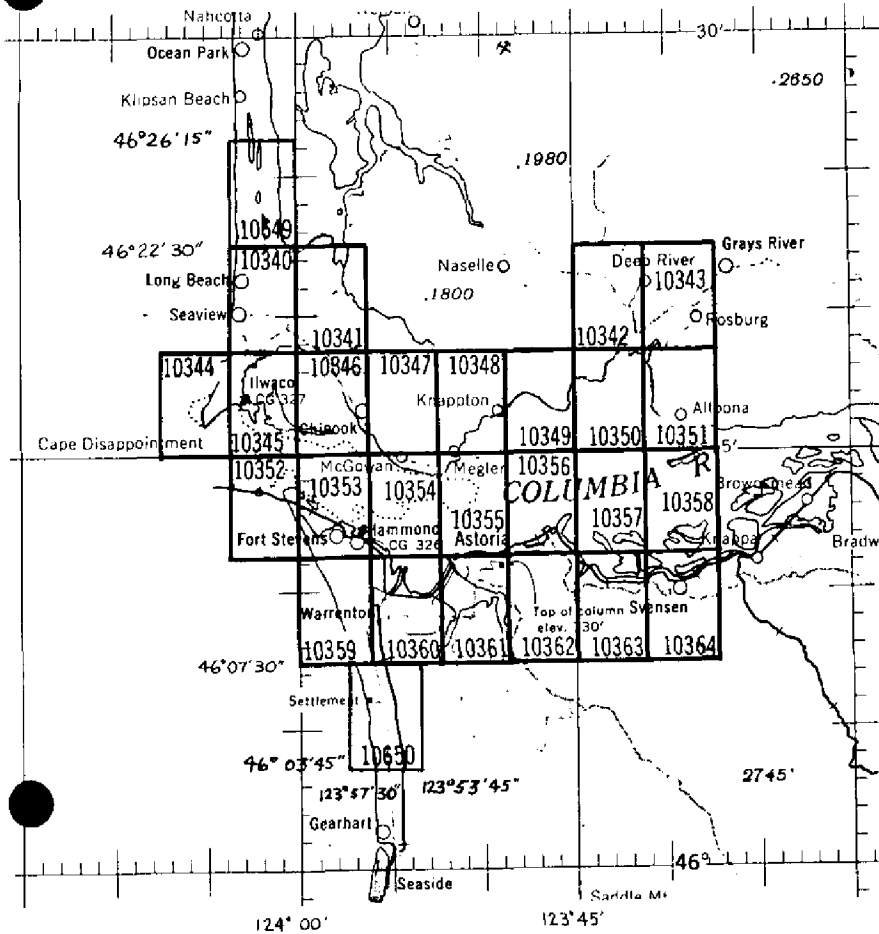
Date:

Land Area (Sq. Statute Miles) (III): 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): 10 Recovered: 8 Identified: 7
Number of BMs searched for (II): None Recovered: Identified:
Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III): None

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	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	3	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-10650

Project Ph-155

Refer to Field Inspection Report for Project Ph-155, Mouth
of Columbia River to Altoona, July to November 1955. *BOUND WITH*

*T-10649**AKA*

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10650

Project Ph-155

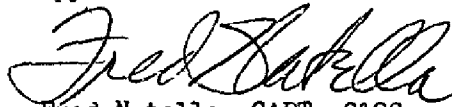
No Stereoplanigraph Bridge was made for the area of this map manuscript.

A small hand templet radial plot using infra-red photography taken in 1957 and C. of E. photography taken in 1948 was run in order to locate sufficient pass points to control the orientation of Kelsh models of the 1957 photography.


Ties were made on the north with pass points and horizontal control location and identified for Strip No. 1. On the south the radial plot was controlled beyond the limits of the manuscript and ties were made to station CONDIT, 1874. There were no ties to the east and the Pacific Ocean is to the west.

Satisfactory results were obtained.

Approved:


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

Respectfully submitted:


J. Edward Deal
Cartographer

MAP T. 10650 PROJECT NO. Ph-155 SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y -COORDINATE LONGITUDE OR x -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
						FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	
J 46, OSHD 1935, (USE)	Oreg.N. Office Comp.	N.A. 1927	909,051.67 1,132,597.07	4051.67 (948.33) 2597.07 (2402.93)		1234.9 (289.1) 791.6 (732.4)		
P-10, P.P.& L. Co. 1935 (USE)	"	"	914,733.36 1,131,441.01	4733.36 (266.64) 1441.01 (3558.99)		1442.7 (81.3) 439.2 (1084.8)		
Sub Station	DO	"	914,676.68 1,131,313.54	4676.68 (323.32) 1313.54 (3686.46)		1425.5 (98.5) 400.4 (1123.6)		
P-12, P.P.& L. Co. 1935, (USE)	"	"	904,765.00 1,133,668.21	4765.00 (235.00) 3668.21 (1331.79)		1452.4 (71.6) 1118.1 (405.9)		
Sub Station	DO	"	904,934.59 1,133,634.05	4934.59 (65.41) 3634.05 (1365.95)		1504.1 (19.9) 1107.7 (416.3)		
GOODWIN, 1874	Oreg.N. P-125	"	900,443.56 1,132,359.04	443.56 (4556.44) 2359.04 (2640.96)		135.2 (1388.8) 719.0 (805.0)		
Sub Station	DO	"	900,365.89 1,132,423.61	365.89 (4634.11) 2423.61 (2576.39)		111.5 (1412.5) 738.7 (785.3)		
MORRISON, 1874	Oreg.N. P-270	"	911,391.57 1,130,689.96	1391.57 (3608.43) 689.96 (4310.04)		424.2 (1099.8) 210.3 (1313.7)		
Sub Station	DO	"	911,424.83 1,130,782.67	1424.83 (3575.17) 782.67 (4217.33)		434.3 (1089.7) 238.6 (1285.4)		
P-11, P.P.& L. Co. 1935 (USE)	Astoria Quad U.S.E.	"	46 06 35.88 123 55 14.23			1107.8 (744.4) 305.6 (983.0)		
LUCAS, 1958 SHORAN TEMP.	Shoran	"	46 04 123 55	(not plotted)		1267.9 (584.6) 935.4 (353.8)		
CONDIT, 1874	Oreg.N. P-639	"	46 03 123 54	(South of Project)		762.5 1195.0		

1 FT. = 305.3 METER
COMPUTED BY: J.E.D. DATE: 2-21-58 CHECKED BY: J.L.H. DATE: 2-21-58
COMM-DC-57843

COMPILATION REPORT

Map Manuscript T-10650

Project Ph-155

31. Delineation:

The Kelsh Instrument was used to compile all planimetry to the limit of models of the 1957 Infrared photography. These did not cover to lower half of the manuscript south of the location of principal point for 57-I-1824. South of this point to the south neat limits of the manuscript the planimetry was compiled graphically from C. of E. photography taken in 1948.

Field inspection was adequate and no difficulties were encountered.

32. Control:

Horizontal control identified in the field supplemented by pass points located by radial plot was adequate.

33. Supplemental Data:

2 - Blueprints Sections 4 and 9, T-7N R-10W, Scale 1" = 400'.

34. Contours and Drainage:

Contours are not applicable.

Drainage was field inspected and was easily discernable on the photography. Reference was made to the Army Map Service 7½ minute quadrangle, GEARHART, OREGON, Scale 1:25,000.

35. Shoreline and Alongshore Detail:

The mean high-water line was compiled as field inspected.

There are no alongshore features.

The foreshore area along the Pacific Ocean shoreline indicates an approximate low-water line. No photography was available taken directly at M.L.L.W. The beach is subject to severe changes during winter storms.

36. Offshore Details:

None.

37. Landmarks and Aids:

None.

38. Control for Future Surveys:

None.

39. Junctions:

A satisfactory junction was made on the north with T-10359, and T-10360. The Pacific Ocean is to the west. There are no contemporary surveys to the east and south.

40. Horizontal and Vertical Accuracy:

Refer to Descriptive Report for T-10364 (1957).

46. Comparison with Existing Maps:

Comparison was made with Army Map Service 7½ minute quadrangle GEARHART, OREGON, Scale 1:25,000, published October 1953.

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.

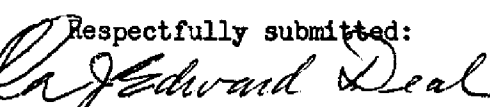
Approved:



Fred Natella, CAPT, C&GS
for

Lorne G. Taylor, CDR, C&GS

Respectfully submitted:



J. Edward Beal
Cartographer

Map Manuscript T-10650

49. Notes to the Hydrographer:

No recoverable topographic stations were located.

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

PHOTOGRAMMETRIC OFFICE REVIEW

T-10650

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) None 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 14. Rocks, shoals, etc. 15. Bridges None 16. Aids to navigation None 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 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

Edward Deal
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

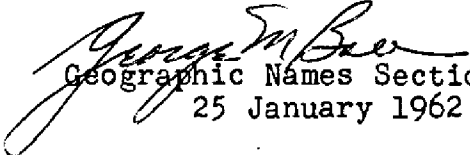
Supervisor

43. Remarks:

48. Geographic Names:

Clatsop Plains ✓
Clatsop Ridge ✓
Cullaby Creek ✓
Cullaby Lake ✓
*Neacoxie Creek ✓
Slusher Lake ✓
Spokane, Portland and Seattle Railway ✓
Sunset Beach ✓
Sunset Beach(settlement) ✓
Sunset Lake ✓
Taylor Lake ✓
Triangle Lake ✓
West Lake ✓
Westlake ✓

* B.G.N. Decision


Geographic Names Section
25 January 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	"	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°13'30" and longitude 123°42'30" and latitude 46°12'30" and longitude 123°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°11'30", longitude 123°56'00". The pile area in the vicinity of latitude 46°12'30", longitude 123°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°11'03" and longitude 123°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:

R. C. Lande
Chief, Review and Edit Sec.

Murray T. Paulsen
Chief, Div. of Nautical Charts

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

Max S. Kestel
Chief, Div. of Coastal Surveys
Operations

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10650

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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			Before After Verification and Review
			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.