10356



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-10356

LOCALITY

State Oregon

General locality Columbia River

Locality Tongue Point

19.57

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

MAY 1 1962

DATE

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

T = 10356

Project No. (II): Ph-155

Quadrangle Name (IV):

Field Office (II): Astoria, Oregon &

Seaview, Washington

Chief of Party: V. Ralph Sobieralski

on Unit Chief: C. D. Upham & C. H. Bishop

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: Lorne G. Taylor

Instructions dated (II) (III):

5 Oct. 1955)

II & III

Copy filed in Division of Photogrammetry (IV)

12 Oct. 1955) 3 July 1957)

Method of Compilation (III): Kelsh Stereoscopic Instrument & Graphic

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 date (IV):

Publication Scale (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):

OLD TONGUE 3, 1947

Lat.: 46° 12' 46.411

Long.:

1230 451 23.1831

Adjusted X

Unadjusted

Plane Coordinates (IV):

State:

Oregon

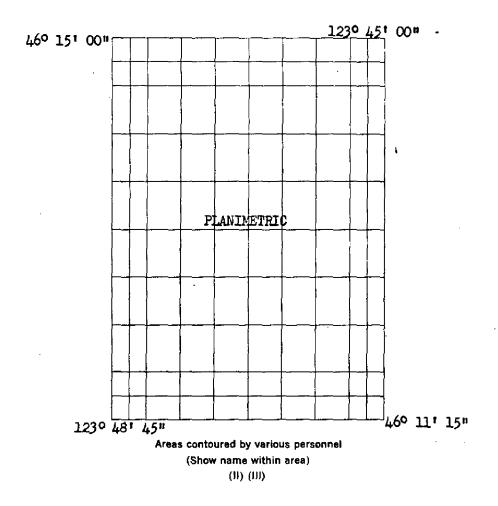
Zone: North

Y= 944,948.35

x= 1,175,722.46

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

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

Sept. 1957 Date:

Nov. 1958

Planetable contouring by (II):

Date:

Completion Surveys by (II): 5upplementary landmark Date: 1958 determined

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

Projection and Grids ruled by (IV):

J. R. Haskins

9-10-57 Date:

Projection and Grids checked by (IV): J. B. Phillips

9-10-57 Date:

Control plotted by (III):

D. N. Williams

Date: 11-27-57

Control checked by (III):

L. L. Graves

11-29-57 Date:

Radial Plot or Stereoscopic Control extension by (III):

John D. Perrow, Jr.

11-28-57 Date:

L. L. Graves, Radial Plot

Jan. 1958

Planimetry D. N. Williams

1-13-58 Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III):

L. L. Graves, Scribing

Date: 2-12-59

C. C. Harris, Stick-up

4-12-59 & 6-20-60

Photogrammetric Office Review by (III):

J. E. Deal

Date: July 1960

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

Date:

Remarks:

Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III): 1

Number of Temporary Photo Hydro Stations established (III): None

|Ratio of | Mean F

9

Identified:

3

DESCRIPTIVE REPORT - DATA RECORD

Tide (III)

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

		PHOTOGRAPHS	(III)		
Number	Date	Time	Scale	Stage of	Tide
55-W-8626 thru 8628	6 - 6-55	11:25	1:10,000 ratio	3.21 abov	re M.L.L.W.
55-W-9813 thru 9815	9-24-55	12:17	1:25,000 contact	3.4i "	n
34385	10-25-51	11:43	1:10,000	5.61 "	Ħ

	Ranges Range Range
Reference Station: Astoria (Tongue Point) Oregon	6.5 8.2
Subordinate Station:	
Subordinate Station:	<u> </u>
Washington Office Review by (IV): # 1, K. Hambord	Date: 2/23/67
Final Drafting by (IV):	Date:
Drafting verified for reproduction by (IV):	Date:
Proof Edit by (IV):	Date:
Land Area (Sq. Statute Miles) (III): 5	
Shoreline (More than 200 meters to opposite shore) (III): 5	
Shoreline (Less than 200 meters to opposite shore) (iii):	
Control Leveling - Miles (II):	
Number of Triangulation Stations searched for (II): 15 Recovered:	8 Identified: 4

Recovered:

9

PLANIMETRIC PROJECT PH - 155

MOUTH OF COLUMBIA RIVER, WASH, OREGON

30-4	OFFICE 1 10	Trian American Const	n seetteen
Ocean Park O	GEFICIAL MI	ieagh tor cost	
ex psen Beach D		LIN.MI.	AREA SQ.
1, (% 2) \	SHEET NO.	SHOR LINE	MILES
46°26'15"	10340	9	10
	103 41	3	12
	10342	۷.	13
46°22'30" 10840 LT	10343	7	13
Naserie O Naserie O	10344	í	2
Seaview Seaview Spaburg	10345	13	2 3 6
10342	10346	11	6
10344 10846 10347 10348	10347	3	12
Himaco Krapoton O Aithons	10348	4	11
use Cisapa Inment 10345 Daysook 10349 10350 10351 5/ -	10349	4	į
Marie McGolog Comma 10355	10350	é	7
0353 10354 COLUMB 1 10358	10351	÷	9
10355 (10357)	10352	3	1
Fort Steel MCO CG 322 Astorit	10353	ģ	4
	10354	3	1
Warrantoel Top of solumn Sonsen	10355	į	2
40359 110360 10362 10363 10364	10356	5	5
46'07'30'	10357		í
Settlement 1 2	10358	21	3
inego .	10359	5	6
46" 03'45" 10690 173"53'45" 2745.	10360	1.4	11
	10361	15	9
Gearhart	10362	* Z	ıź
	19363	17	10
Seeside Canada No	10364	14	12
:24" 00 123"45"	ECC 1 COAP	1.~	14-
	10649	8	8
	10650	Ĺ	8
	1.7770		
	TOTAL	219	193

FIELD INSPECTION REPORT Map Manuscript T-10356 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)

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10356

Project Ph-155

Refer to Stereoplanigraph Bridge Reports for Strips #2 and #3 which are included in the Descriptive Report for T-10353(1957).

A small hand templet radial plot was run to supplement the above control extension. Nine lens photographs taken in 1951 and single lens field prints taken in 1955 were used. Satisfactory results were obtained.

Approved:

Fred Natella, CAPT, C&GS Portland District Officer

for

Lorne G. Taylor, CDR, C&GS

Respectfully submitted:

6. Edward Deal Cartographer

FORM 164 (4-23-54)

U.S. DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT

PROJECT NO.Ph-155.

MAP T. 10356

ST AND GEODETIC SURVEY ROL RECORD

SCALE OF MAP 1:10,000

SCALE FACTOR

COMM- DC- 57843 DISTANCE
FROM GAJO OR PROJECTION LINE FROM GRID OR PROJECTION LINE
IN METERS (BACK) FORWARD None 56.4 (1255.6)(1132.9)19.4) (1055.7)15,7) (1303.8)(156,6) 412,6) (1889) (1064.6) 518.8 979:3) 335.8) 970.2 693.6 504.9 126.5) (BACK) N.A. 1927-DATUM FORWARD 553.8 1504.6 468.3 220.2 597.0 598.0 873.3 950.8 1005.2 830.4 1019.1 391.1 1467.6 1508.3 1129.7 0.0441 788.0 1159.7 DATUM OR PROJECTION LINE IN METERS (2275.44) 185,01) (3183.05) (1702,21)(3716.92)51.65) (1656,44) 63.63) (3463.71)DISTANCE FROM GRID IN FEET. (4277-54) (BACK) FORWARD 3297.79 2724.56 1816,95 1283,08 3343.56 4814.99 4936.37 1536.29 4948,35 722.46 LONGITUDE OR x-COORDINATE LATITUDE OR V.COORDINATE 52,695 12 19,336 46.639 27.899 28,284 54.099 44.34 25.52 1,173,297.79 937,724.56 941,816.95 1,163,343.56 939,814,99 1,171,283,08 944,948.35 1,175,722,46 1,171,536.29 939,936,37 45 77 45 12 45 Ħ 84 9 123 123 4 3 9 53 123 DATUM 1927 N.A. ¥ = E E = SOURCE OF Oreg.N. Office Oreg. N. Pg.1023 Oreg. N. G-7284 0-3422 G-3422 Pg. 338 183 23 (INDEX) Wash. Field 314 Comp Comp = ASTORIA, LIGHTHOUSE STACK, 1947 ASTORIA, BETHANIA LUTHERAN CHURCH, J.S.NAVAL STATION RADIO TOWER, 1947 TONGUE (USE) 1913 ASTORIA, ASTORIA TONGUE PT. U.S. CHIMNEY NAVAL STATION PLYWOOD CORP. STATION TONGUE POINT OLD TONGUE 3 1935 1947 SPIRE, 1935 Sub Station STACK, 1958 TORO (OREG) R.M. 8 DEPOT, (OREG) 1935

COMPUTED BY. J.E.D. 1 FT. = .3048006 METER

10-11-57

D.N.W. CHECKED BY...

10-16-57 DATE

COMPILATION REPORT

Map Manuscript T-10356

Project Ph-155 .

31. Delineation:

Most of the planimetry was compiled with the Kelsh Instrument. Graphic methods were used for areas outside the limits of the Kelsh models. Field inspection was adequate.

32. Control:

Identified horizontal control stations, and pass points located in stereoplanigraph bridge and by radial plot were adequate.

33. Supplemental Data:

Map of Astoria, Oregon. Scale 1" = 1500! Approx.

Composite Map, U. S. Naval Station, Tongue Point, Astoria, Oregon, Scale 1. = 450 Approx.

34. Contours and Drainage:

Contours are not applicable.

Drainage was compiled as field inspected with reference to the U.S.G.S. Astoria, Oreg. - Wash. $7\frac{1}{2}$ minute quadrangle.

35. Shoreline and Alongshore Details:

The mean high-water line and alongshore details were adequately field inspected and were compiled without difficulty.

Foreshore areas visible on the photographs were compiled and properly symbolized or labeled.

Approximate low-water lines were not visible on the photography.

Offshore Details:

Piling and ruins of piling lie offshore from Tongue Point,

Several wrecks shown on Chart 6151 are not visible on the photographs.

37. Landmarks and Aids to Navigation:

Forms 567 are submitted for one landmark and one aid to navigation.

38. Control for Future Surveys:

None.

39. Junctions:

On the north is the Columbia River and no junction of planimetry was required with T-10349. Satisfactory junctions were made on the west with T-10355, on the east with T-10357 and on the south with T-10362.

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 Astoria, Oreg. - Wash. quadrangle, Scale 1:24,000, published in 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, 19th 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:

Respectfully submitted:

Fred Natella, CAPT, C&GS Portland District Officer

for

Lorne G. Taylor, CDR, C&GS

J. Edward Deal Cartographer Map Manuscript T-10356

49. Notes to the Hydrographer:

No recoverable topographic stations were located.

TONGUE POINT LIGHT 1957 was located with the Kelsh instrument.

The offshore features were located by sextant fix.

When locating photo-hydro signals use 9-lens photograph No. 34385 and field photographs 55 W 8627 and 8628 along with office ratio prints 55 W 9813 and 9814.

PHOTOGRAMMETRIC OFFICE REVIEW

T-10356

1. Projection and grids2. Title3. N	lanuscript numbers 4. Manuscript size
CONTRO	L STATIONS
5. Horizontal control stations of third-order or higher acc	uracy6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations)	_7. Photo hydro stations Nove 8. Bench marks
9. Plotting of sextant fixes10. Photogrammetr	ic plot report 11. Detail points
ALONGSI	HORE AREAS
	Chart Data)
12. Shoreline 13. Low-water line Note 14.	Rocks, shoals, etc15. Bridges NML 16. Aids
to navigation17. Landmarks18. Oth	er alongshore physical features19. Other along -
shore cultural features	
•	FEATURES
20. Water features 21. Natural ground cover	22. Planetable contours 23. Stereoscopic
instrument contours Man 24. Contours in general	More 25. Spot elevations Nove 26. Other physical
features	
	FEATURES
27. Roads 28. Buildings 29. Railroa	ds 30. Other cultural features
BOUN	IDARIES
31. Boundary lines 32. Public land lines	
MISCEL	LANEOUS
33. Geographic names 34. Junctions	35. Legibility of the manuscript 36. Discrepancy
overlay MML 37. Descriptive Report 38. F	_
40	Thursel Deal
Reviswer	Supervisor, Review Section or Unit
41. Remarks (see attached sheet)	
	CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field commanuscript is now complete except as noted under item	pletion survey have been applied to the manuscript. The 43.
Compiler	Supervisor
43. Remarks:	M-2623-12
TO MOTIBING *	m-2523-12

48. Geographic Names

Astoria
Cathlamet Bay
Columbia River
Mill Creek
Mott Basin
Navy Heights
Port of Astoria Mooring Base
Spokane, Portland and Seattle
Tongue Neck
Tongue Point
Tongue Point Naval Base
Tongue Neck
Tongue Point Village

Geographic Names Section
A February 1962

U.S DEPARTI

T OF COMMERCE

EXCUSSIONAL STREET, LANDWARKS FOR CHARTS

STRIKE OUT TWO THE PORTURE TO BE CHARTED

Pertiand, Oregon

19 61

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

E. Dayl

The positions given have been checked after listing by

								Fred Matella	atella a	C	Chief of Party.
B. V.	Bubano	•			POSITION					<u> </u>	
	Caston		5	LATITUDE+	PONO	LONGITUDE +		LOCATION	OF	DE CH	CHARTS
CHARTING	DESCRIPTION	SIGNAL		D.M.METERS	-	D. P. METERS	DATUM		Location	H\$W)	
STACK	Concrete (Mayal Station Stack at Tonous Pt.) Ht 180'(190')		46 12	14.960	123 45	55.631	1927	Trieng-	1947	M	क्षश
STEEDLE	Astoria, Bethand Church Spire		7 7 7	90,203 932.5	123 48	30.239	•		1935	M	*
STACK	Plyno	-	17 99		123 4B	8.056 46.44			1956	14	•
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							-				
			-								,
								-			
		-					·				
		·	,								

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.

IT OF COMMERCE COAST AND GEODETIC SURVEY U.S DEPART

STRIKE OUT TWO TO BE CHARTED NOTE OF COME OF The positions given have been checked after listing by

Portland, Oregon

NONFLOATING AIDS CHARLESTERINGER FOR CHARTS

19 61

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

			,					Pred	Fred Metalla	0	Chief of Party.	arty
STATE	- Andrews				POSITION			METHOD			THART	
	ORECOM		3	LATITUDE*	PNOT	LONGITUDE +		LOCATION	DATE	ON CK	# B	CHARTS
CHARTING	DESCRIPTION	BIGNAL	•	D.M. METERS	•	D. P. METERS	DATCM	BURVEY No.	LOCATION		·	
LIGHT	Neugue Point Light	9201	TE 93		97 621		8.A. 1927	Keleh Inst.	1957	×	3	क्षभ
									-		<u> </u> 	
											<u></u>	
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		i										
							•					

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.

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 112 3 -	1:10,000	1868 1868	4226 4250	1:20,000	19 2 6
1138	n	1869	4251	#	H
1139 a& b	11	18 6 9	4263	1:10,000	1926
1234	W	1870	4264		
1235	W	1870	6521 a	*	â
1249	M	1870	65215	*	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-2421 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

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 Harmond 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 shag 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

Approved

Chier, Review and Edit Sec.

Chief. Div. of Nautical Charts

Chief, Day, of Photogrammetry

Chief, My of Courts Corvey

NAUTICAL CHARTS BRANCH

SURVEY NO. <u>T-10356</u>

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
			Before After Verification and Review
		3	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
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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	.		

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.