10874



Diag. Cht. No. 6157 Inset.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph=5807 Office No. T-10874

LOCALITY

State Oregon & Washington

General locality Columbia River

Locality Thanksgiving Island

19.59

CHIEF OF PARTY

Lorne G. Taylor, Photogrammetric Office

LIBRARY & ARCHIVES

DATE May 1962

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

T - 10874

Project No. (II): Ph-5807

Quadrangle Name (IV):

Field Office (II): Arlington, Oregon

Chief of Party: Lorne G. Taylor

Unit Chief: K. W. Jeffers

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: Lorne G. Taylor

Instructions dated (II) (III):

Undated

Copy filed in Division of

Field and Office

Photogrammetry (IV)

Modification:

Letter 73/rrj dated 9 March 1959 Letter 831/es dated 12 March 1959

Letter 732/rrj dated 21 May 1959

Method of Compilation (III):

Kelsh Stereoscopic Instrument

Viewing Scale

Manuscript Scale (III):

1:10,000

Stereoscopic Plotting Instrument Scale (III):

1:6000 Pantograph Scale

1:10,000

Scale Factor (III):

None

Date reported to Nautical Chart Branch (IV):

Date received in Washington Office (IV):

23 June 1961

Applied to Chart No.

Publication Scale (IV):

Date:

Publication date (IV): Refer to datum pro-

Geographic Datum (III):

N.A. 1927

Vertical Datum (III): file on manuscript

Mean sea level except as follows:

Elevations shown as (25) refer to meen high water Elevations shown as (5) refer to seunding-deturn U. S. Engineers Columbia River

Low-Water Profile

Reference Station (III):

ALDER (USGS) 1916

450 501 59.419"

1190 561 21208011 Long.:

Adjusted X

Unadjústed

Plane Coordinates (IV):

Oregon State:

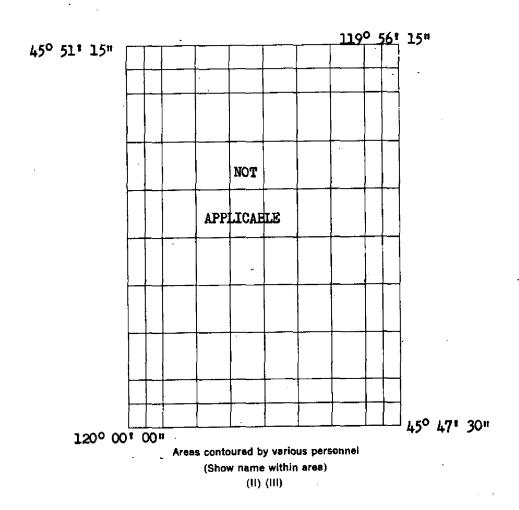
Zone: North

796.434.52

2,142,910.13

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): R. B. Melby (Shoreline)
W. V. Hull (Interior)

Date: 4-10-59

Sept. 1959

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Shoreline Mean-light Weter-Location (III) (State date and method of location): Located by field inspection on 4-10-59 on single lens ratio prints taken 8-28-58 and delineated by Kelsh Stereoscopic Instrument on this photography. The shoreline is the normal gradient of the Columbia River at 110,000 cfs.

Projection and Grids ruled by (IV):

P. Dempsey

Date: 6-30-59

Projection and Grids checked by (IV):

Shoup

Date: 8-3-59

Control plotted by (III):

J. L. Harris

Date: 8-24-59

Control checked by (III):

C. C. Harris

Date: 9-28-59

Radial Plot or Stereoscopic

John D. Perrow, Jr.

Date: June 1959

Control extension by (III):

Planimetry

D. N. Williams

Date: 10-2-59

Stereoscopic Instrument compilation (III):

Contours

Date:

. . !

Manuscript delineated by (III):

J. L. Harris (Scribing)
D. N. Williams (Stick-up)

Date: 12-22-59

1-26-60

Photogrammetric Office Review by (III):

J. L. Harris J. E. Deal Date: 10-7959

3-30-60

Elevations on Manuscript

Date:

checked by (II) (III):

COMM- DC- 57842

5. U.S. DEPARTMENT OF COMMERCE

Mean | Spring

Range

Date: Maril 1961

Range

Ratio of Ranges

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): U.S.C.& G.S. Single lens 58-S

		PHOTOGRAPHS	(III)	The Dalles Dam
Number	Date .	Time	Scale	Stage of Tide-(Forebay)
58-S-7634A thru 7636A	8 - 28-5 8	9:28	1:30,000 contact 1:10,000 ratio	158.8 above M.S.L. Flow at Arlington Gage was 107,000 cfs
* 58-S-7655A thru 7656A	8-28-58	9:42	DO	DO

* Used for field inspection only.

Tide (III)

Reference Station:

Not applicable

Subordinate Station:

Subordinate Station:

Washington Office Review by (IV):

Final Drafting by (IV): /allan

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 12

Shoreline (More than 200 meters to opposite shore) (III): 8 Statute miles

Shoreline (Less than 200 meters to opposite shore) (III): None

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Number of BMs searched for (II): None

Deent

Recovered:

Recovered: 2

2

Identified:

Identified:

Number of Recoverable Photo Stations established (III): 9**

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

Remarks:

** All were fixed aids to navigation.

сомм- вс- 57842

SUMMARY to accompany Shoreline Map Manuscripts T-10870 through T-10885

The sixteen (16) subject surveys represent the eastern portion of project Ph-5807. The project consists of forty-nine (£9) shoreline surveys of the Columbia River (Ore.-Wash.) from Eonneville eastward to Umatilla and was designed to aid in the construction of a new series of nautical charts. T-10870 thru T-10885 extend from Arlington to Umatilla, which are covered by a stereoplanigraph bridging plot done in the Washington Office in June 1959.

The map manuscripts were compiled by helsh stereoscopic instruments in the Portland Photogrammetric Office from photography of August 1958 and field inspection information (shareline - April 59, interior - September 59).

The completed compilations as submitted to the Washington Office are the result of adequately scribed sheets and suitable for the direct reproduction of registration copies.

A croner film positive at the compilation scale of 1:20,000 and the Descriptive Report of each will be registered and filed in the Bureau Archives.

May 1961

FIELD INSPECTION REPORT

Map Manuscript T-10874

Project Ph-5807

Refer to Field Inspection Report for T-10870 thru T-10875 which is included in the Descriptive Report for T-10870 (1959).

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10874

Project Ph-5807

R_afer to the Photogrammetric Plot Report, Columbia River Ph-5807 (Stereoplanigraph Bridge) T-10870 thru T-10885 which is included in the Descriptive Report for T-10870 (1959).

U.S. DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT

COAST AND GEODETIC SURVEY DNTROL RECORD

SCALE FACTOR None SCALE OF MAP 1:10,000 PROJECT NO. Ph-5807 MAP T. 10874

STATION	SOURCE OF INFORMATION	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTÂNCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM	N.A. 1927 DISTA	ш	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
	(INDEX)			FORWARD	(BACK)		FORWARD	(BACK)	FORWARD (BACK)
THANKS (IISE) 191,2	WALLA	N.A.	780,946.93	66*946	(4053.07)		288.6	(1235,4)	
	II.S.E.	1927_	2,135,247,80	24.7.80	(4752.20)		75.5	(1448.5)	
Afor (SSSI) ABILIA	Step N.	*	796,434.52	1434.52	(3565,48)		437.2	(1086.8)	
מדלד למחמה אווותו	Pg.X 144		2,142,910,13	2910,13	(2089,87)		887.0	(637.0)	
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COMPILATION REPORT

Map Manuscript T-10874

Project Ph-5807

31. Delineation:

The Kelsh Stereoscopic Instrument was used to compile the planimetry.

The C&GS photography of 8-28-58 was adequate to compile the planimetry to the detail limits indicated on the project index.

Refer to last paragraph Item 31, Delineation, of the Descripe tive Report for T-10837 (1959).

32. Control:

Refer to the Photogrammetric Plot Report (Stereoplanigraph Bridge) T-10870 thru T-10875 which is included in the Descriptive Report for T-10870 (1959).

33. Supplemental Data:

None.

34. Contours and Drainage:

Contours are not applicable.

The drainage shown on the manuscript was delineated from field inspection notes supplemented by minute examination of the Kelsh Models for drainage and by visual inspection of the U.S.G.S. topographic quadrangle, "Blalock Island", Oreg. - Wash., Scale 1:125,000, published 1906.

35. Shoreline and Alongshore Details:

The shoreline shown on this map manuscript is at the normal river gradient of 110,000 cfs flow. A graph showing this gradient from which the elevation of the shoreline may be determined for any place along the river is shown on the manuscript.

Refer to correspondence included in the Descriptive Report for T-10837 (1959) for a detailed report on this feature.

36. Offshore Details:

Refer to remarks under this heading in the Descriptive Report for T-10865 (1959).

37. Landmarks and Aids:

From 567 was submitted to Washington on 12 October 1959 for ten nautical aids. There are no aeronautical aids or landmarks within area of this manuscript.

38. Control for Future Surveys:

None.

Junctions: 39.

A satisfactory junction was made on the west with T-10873 and on the east with T-10875. There are no contemporary surveys to the north and south.

40. Horizontal and Vertical Accuracy:

Refer to remarks under this item in the Descriptive Report for T-10837 (1959).

/ 46. Comparison with Existing Maps:

Comparison was made with U.S.G.S. 30 minute "Blalock Island" Oreg.-Wash. quadrangle, Scale 1:125,000, published 1906.

47. Comparison with Nautical Charts:

Refer to remarks under this heading in the Descriptive Report for T-10853 (1959).

Approved:

Respectfully submitted:

Lorme G. Taylor

CDR. C&GS

Officer-in-Charge

A. Edward Deal Cartographer

C&GS

48. GEOGRAPHIC NAMES LIST

Alder Ridge

*Columbia River Hwy.

Gilliam County

Klickitat County

Morrow County

Oregon

Spokane, Portland & Seattle R.R.

Thanksgiving Island Threemile Canyon

Union Pacific R.R.

Washington

* B.G.N. Deciston

OGRAPHIC NAMES SECTION 17 MAY 1960

49. Notes to the Hydrographer:

Form 567 was submitted listing the scaled positions of ten fixed aids to navigation located by Kelsh Instrument.

Heppner Junction Range Front Light
Heppner Junction Range Rear Light
Island No. 27 Range Front Daybeacon
Island No. 27 Range Rear Daybeacon
Thanksgiving Island Range 1 Front Light
Thanksgiving Island Range 2 Front Light
Thanksgiving Island Range 2 Rear Light
Thanksgiving Island Range 3 Front Light
Thanksgiving Island Range 3 Front Light
Thanksgiving Island Range 3 Rear Light

PHOTOGRAMMETRIC OFFICE REVIEW

T-10874

	CONT	TROL STATIONS
5. Horizontal con	itrol stations of third-order or higher	accuracy & 6. Recoverable horizontal stations of i
		7. Photo hydro stations None 8. Bench marks Non
	· · · · · · · · · · · · · · · · · · ·	netric plot report X 11. Detail points X
		IGSHORE AREAS
		tical Chart Data)
		14. Rocks, shoals, etc. X 15. Bridges None 16.
		Other alongshore physical featuresX19. Other alon
shore cultural fea	itures <u>X</u>	
	PHYS	ICAL FEATURES
20. Water feature	es X 21. Natural ground cov	er <u>X</u> 22. Planetable contours <u>None</u> 23. Stereosc
instrument conto	urs None 24. Contours in gen	eral None 25. Spot elevations None 26. Other physical
features X	-	
	CULTU	JRAL FEATURES
27. Roads <u>X</u>	28. Buildings X 29. Rai	ilroadsX 30. Other cultural features X
	В	OUNDARIES
31. Boundary lin	esX32. Public land lines _	None
:		
	MIS	CELLANEOUS
33. Geographic n	ames X 34. Junctions	X 35. Legibility of the manuscript X 36. Discrepa
overlay None	, 37. Descriptive Report X 3	8. Field inspection photographs X 39. Forms
40		J.Edward Deal
	Reviewer	Supervisor, Review Section or Unit
	e attached sheet)	
41. Remarks (se		
41. Remarks (se	FIELD COMPLETION ADDITIONS	AND CORRECTIONS TO THE MANUSCRIPT
42. Additions an		completion survey have been applied to the manuscript.
42. Additions an	d corrections furnished by the field	completion survey have been applied to the manuscript. tem 43.

REVIEW REPORT OF SHORELINE MAP MANUSCRIPTS T-10870 through T-10885 May 1961

62. Comparison with Registered Topographic Surveys:

There are no registered topographic surveys of this area.

63. Comparison with Maps of Other Agencies:

ARLINGTON, ORE.-WASH. 1:125,000, 1916, U.S. Geological Survey BLALOCK IS., ORE.-WASH. 1:125,000, 1906, U.S. Geological Survey UMATILLA, ORE.-WASH. 1:125,000, 1908, U.S. Geological Survey

Because of scale difference a detailed comparison is impractical.

64. Comparison with Comtemporary Hydrographic Surveys:

There are no contemporary hydrographic surveys of subject area.

65. Comparison with Nautical Charts:

The first nautical charts of this portion of the Columbia River are being constructed now. Incomplete compilations are not available for comparison.

66. Adequacy of Results and Future Surveys:

T-10870 through T-10885 have been compiled according to instructions and meet the adequacy and accuracy requirements for this type of survey.

Josef J. Streyfler

Approved by:

Chief, Review & Drafting Sec.

Photogrammetry Division

Chief, Nautical Chart Division

Chief, Charations Division

NAUTICAL CHARTS BRANCH

SURVEY NO. <u>T-10874</u>

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
6/24/76	6161	D. CORDITS	Before After Verification and Review
			Supersold by T-13215, 13216, 12150
			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
	·		

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.