11398

Diag. Cht. No. 6450-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric) Field No. Ph-5905 Office No. T-11598
LOCALITY
State Washington
General locality Skagit Bay, Camano Island
Locality Utsalady
1959-1960
CHIEF OF PARTY
Lorne G. Taylor and Fred Natella
LIBRARY & ARCHIVES

July 1964

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

T - 11598

Project No. (II): Ph-5905

Quadrangle Name (IV):

Field Office (II): Mt. Vernon, Washington

Chief of Party: Lorne G. Taylor

S-01-

J. C. Lajoye & W. V. Hull

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: Lorne G. Taylor

Instructions dated (II) (III):

10 Feb. 1960 II

& Fred Natella Copy filed in Division of

Supplement 1:

5 May 1960 II & III

Photogrammetry (iV)

Method of Compilation (III):

Graphic

Manuscript Scale (III):

1:10,000

Stereoscopic Plotting Instrument Scale (III):

Unit Chief:

Scale Factor (III):

None

Jöl

Date received in Washington Office (IV):

468

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

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):

None on manuscript (Refer to T-11599).

Lat.:

Long.:

Adjusted Unadjusted

Plane Coordinates (IV):

State:

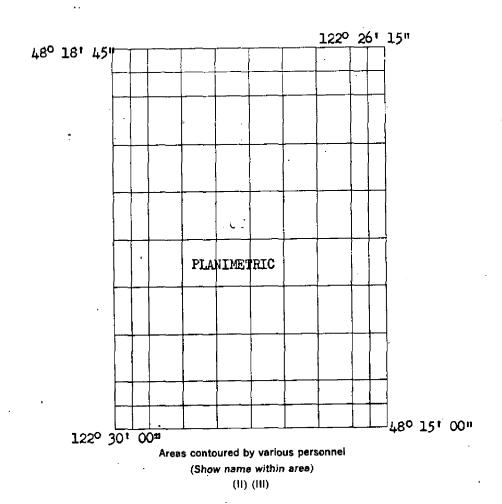
Zone:

Υ=

Χ=

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

R. B. Melby & July & Aug. 1960 Field Inspection by (II): Date: L. F. Van Scoy Planetable contouring by (II): Date: Completion Surveys by (II): Date: Mean High Water Location (III) (State date and method of location): 7-14-60 by field inspection and graphic compilation. Projection and Grids ruled by (IV): J. Keefer Date: 6-24-60 Projection and Grids checked by (IV): W. S. Date: 8-18-60 None Control plotted by (III): Date: Control checked by (III): Date: J. L. Harris Radial Plot or Stereoscopic 4-12-61 Date: Control extension by (III): Planimetry Date: Stereoscopic Instrument compilation (III): Contours Date: Manuscript delineated by (III): C. H. Bishop, Rough Draft 4-19-61 Date: J. L. Harris, Scribing 10-6-61 C. C. Harris, Stick-up 12-18-61

C. C. Harris, Rough Draft

J. E. Deal, Advance

.

Elevations on Manuscript

checked by (II) (III):

Photogrammetric Office Review by (III):

Date:

Date:

6-9-61

12-26-61

Number

60212 & 60213

60011

U.S. DEPARTMENT OF COMMERCE

Diurnal

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): C&GS 9-lens, Focal length 8.25 inches, & Camera "L".

Date

PHOTOGRAPHS	(III)		
Time		Scale	Stage of Tide
08:57	•	1:10,000	8.9' above M.L.L.W.
11:09		Ħ	9.6' above M.L.L.W.

60-L-9573 thru 9575	4-16-60	13:50	1:30,000	0.8 below M.L.L.W.

Tide (III)

Reference Station: Subordinate Station: Seattle, Washington Coupeville, Washington

Subordinate Station:

on 7.6 11.3 ngton 7.8 11.5

Washington Office Review by (IV):

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Date:

|Ratio of | Mean

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 2.6

Shoreline (More than 200 meters to opposite shore) (III): 3.5
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):

Non.

Recovered:

Identified:

0

Recovered:

Identified:

0

Number of Recoverable Photo Stations established (III)None

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

Remarks:

FIELD INSPECTION REPORT Map Manuscript T-11598

Project Ph-5905

Refer to the Field Inspection Report for the entire Project Ph-5905 by Wesley V. Hull, February 1960 to September 1960.

Filed with Pesc Report 7-11584

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscripts T-11598 thru T-11600,

T-11606 thru T-11610 and T-11616

Project Ph-5905

21. Area Covered:

This radial plot covers the Port Susan area of Puget Sound and comprises Map Manuscripts T-11598 thru T-11600, T-11606 thru T-11610 and T-11616.

22. Method:

Prints of the nine lens photographs were furnished on Cronarpaque and these were prepared by the usual methods. A number of
pass points which had been selected in the stereoplanigraph bridge
in the flights of single lens photographs to the west and which
were common to the nine lens photographs were identified and used
for horizontal control.

Hand templets of nine lens photographs were drawn on vinylite material and corrected for paper distortion and transforming errors by use of master templet No. 59741.

Horizontal control stations identified in the area were plotted and checked. The pass points located by stereoplanigraph bridge in flights of single lens photographs to the west and which were common to the nine lens photographs were also plotted and checked.

The manuscripts were joined together by matching at the neat lines and the templets were oriented.

Excellent intersections of radials were obtained and all identified horizontal control was held. A few of the pass points located in the previous stereoplanigraph bridge plots were discarded because they could not be identified with certainty on the nine lens photographs.

23. Adequacy of Control:

The identified horizontal control was adequate.

24. Supplemental Data:

Stereoplanigraph Bridge Control Extensions for Strips No.

1, 6 and 8. Refer to Special Report, Photogrammetric Plot, Puget
Sound, Washington (1960) by Willard A. Kuncis. Filed with Desc. Report T-115%4

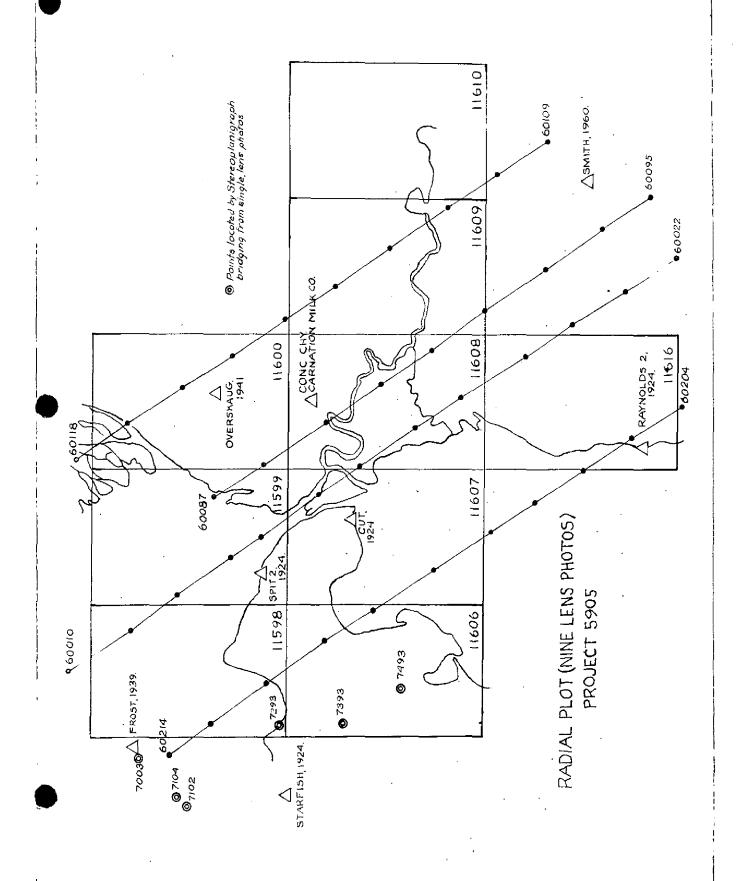
25. Photography:

The photography was adequate except for definition which was poor in many instances. Images appearing on the paper field prints did not appear on the Cronarpaque office prints. This made it quite difficult to transfer a few sub stations from field photographs to office prints and many pass points from contact prints to office prints.

Approved:

Respectfully submitted:

Fred Natella, CAPT, C&GS Portland District Officer J. Edward Deal Cartographer



U.S. DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT

DAST AND GEODETIC SURVEY

PROM GAID OR PROJECTION LINE FROM GRID OR PROJECTION LINE IN METERS SCALE FACTOR None 11. (BACK) FORWARD (BACK) N.A. 1927 - DATUM FORWARD DATUM SCALE OF MAP 1:10,000 DISTÂNCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS (BACK) FORWARD are no stations on this sheet. LONGITUDE OR x-COORDINATE LATITUDE OR y-COORDINATE MAP T.11598 PROJECT NO. Ph-5905 DATUM There SOURCE OF INFORMATION (INDEX) STATION

COMM- DC- 57843

DATE

CHECKED BY:

DATE.

1 FT.=.3048006 METER

COMPUTED BYE.

COMPILATION REPORT

Map Manuscript T-11598

Project Ph-5905

31. Delineation:

Graphic methods were used to compile the planimetry. The nine lens photographs were satisfactory for the compilation of the mean high-water line and all interior features. They were not adequate for compiling the large tidal flat areas in Skagit Bay because they were taken at about high-water. A small portion of these tidal flat areas were photographed with infrared photography taken at low-water. Refer to Item 35 of this Descriptive Report for additional remarks relative to these features.

32. Control:

There were no triangulation stations recovered in the area of the map manuscript. Pass points located by radial plot were satisfactory for the compilation work.

33. Supplemental Data:

Map of Island County, Washington, compiled by Island County Engineer, March 1958, Scale 1 inch = 1 mile.

34. Contours and Drainage:

Contours are not applicable.

Drainage was not field inspected. One piece of drainage shown on U.S.G.S. $7\frac{1}{2}$ minute Utsalady, Washington, quadrangle could not be verified by stereoscopic examination of the photographs. It was transferred to the manuscript from the quadrangle by use of the vertical projector.

35. Shoreline and Alongshore Details:

The mean high-water line and alongshore details were adequately field inspected and were compiled from nine lens photography taken when the predicted tide was about 9.5 ft. above M.L.L.W. The tidal data from nearby tide stations indicates mean high-water to be about 10.3 ft. in Skagit Bay.

There is a large tidal flat area in Skagit Bay which could not be determined from the nine lens photography. One flight of infrared single lens photography taken when the predicted tide was 0.8 ft. below M.L.L.W. shows part of the area. This portion of the tidal flat area has been shown on the manuscript and the limits of each flat have been outlined with a low-water line which indicates their extent as of 16 April 1960.

The 1960 recovery note for triangulation station BROWN 2, 1924 states that the shoreline in this area is subject to severe change. This condition will continually affect the mean highwater and low-water lines in this area.

Pass points could not be located in the radial plot to control the infrared photography and the tidal flat area was transferred from the 1:30,000 infrared photography to the manuscript by use of the vertical projector. For this reason the location of the limits of tidal flats may be subnormal.

36. Offshore Details:

Refer to Item 35 of this Descriptive Report.

37. Landmarks and Aids:

None.

38. Control for Future Surveys:

None.

39. Junctions:

Satisfactory junctions were made with T-11597 on the west, T-11599 on the east and T-11606 on the south. On the north is Skagit Bay and no junction was required.

40. Horizontal and Vertical Accuracy:

Vertical accuracy is not applicable.

There are no areas of subnormal horizontal accuracy except as stated in Item 35 of this Descriptive Report relative to tidal flats.

46. Comparison with Existing Maps:

Comparison was made with the U.S.G.S. Utsalady, Washington, $7\frac{1}{2}$ minute quadrangle, Edition of 1956, Scale 1:24,000.

47. Comparison with Nautical Charts:

Comparison was made with Nautical Chart No. 6450, Scale 1:80,000, Revised 7-27-59, hand corrected 11-14-59.

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 J. Edward Deal Cartographer

49. Notes to the Hydrographer:

Refer to remarks relative to tidal flats under Item 35 of this Descriptive Report.

COMPILATION RECORD	COMPLETION DATE	REMARKS
Interior details added.Compila- tion complete	12/27/61.	

C&G5 FORM 1002 (11-13-61)	PUA	TOCHAMUET	RIC OFFICE REVIEW	S. DEPARTMENT OF COMMERCI COAST AND GEODETIC SURVE
	FNO		11598	
1. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
		·	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	-
CONTROL STATIONS	ļ <u>.</u>			
5. HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ATIONS OF ACCURACY	6. RECOVERAL OF LESS TH (Topographic	BLE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY (stations)	7. PHOTO HYDRO STATIONS
none			none	none
8, BENCH MARKS	9. PLOTTING O	FSEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
none	no	u_		
ALONGSHORE AREAS (Nautical				
12. SHORELINE	13. LOW-WATER	LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		. ~	more
16. AIDS TO NAVIGATION	17. LANDMARK	s	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
none	non	<u>د</u>		
PHYSICAL FEATURES				
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOUR
				none
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
none	non	د	none	· · ·
CULTURAL FEATURES				
27. RO ADS	28. BUILDINGS	_	29. RAILROADS	30. OTHER CULTURAL FEATURES
		<u> </u>	none	
BOUNDARIES 31. BOUNDARY LINES	_		32. PUBLIC LAND LINES	
A	me			Mne
MISCELLANEOUS 33. GEOGRAPHIC NAMES		34. JUNCTION	<u> </u>	35. LEGIBILITY OF THE
V	_	•	~	MANUSCRIPT
3/ piccons and all all all all all all all all all al	127		100	
36. DISCREPANCY OVERLAY	37. DESCRIPTIN	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
none	•			
40. REVIEWER	_		SUPERVISOR, REVIEW SECTI	
Carita le Harr	i		JEdward	Deal
41. REMARKS (See attached she	ot)		' 	
FIELD COMPLETION ADDITION		IONS TO THE M	IANUSCRIP T	<u> </u>
42. Additions and corrections script is now complete ex-	furnished by the	e field complet ler item 43.	ion survey have been applied	to the manuscript. The manu-
COMPILER			SUPERVISOR	
			1	
43. REMARKS			<u> </u>	
•	•			
•				

USCOMM-DC 16252-P61

48. <u>Geographic Names</u>:

Arrowhead Beach

Brown Point

Camano Island

Skarit Bay

Utsalady

Utsalady Point

Pographic Names Section 27 February 1963

Reviet Report Shoreline Surveys T-11594 through T-11600 April 1964

61. General Statement

These are seven (7) shoreline maps of project PH 5905, Puget Sound, Washington. These maps were prepared primarily to provide basic maps, including the location of all non-floating aids and landmarks for use in revising our nautical charts, and for control of proposed hydrographic surveys.

62. Comparison with Registered Topographic Surveys

T-1253	1:10,000	1871
T-2011	1:20,000	1888
T-2156	1:20,000	1889
т-6685а	1:13,000	1939
т-6768	1:10,000	1940
т-6769	000,000	1940

Cultural and shoreline changes have been continuous with extensive cultural changes in Oak and Crescent Harbors on Whidbey Island. These maps are to supersede the above surveys of common area for nautical charting.

63. Comparison with Maps of Other Agencies

Deception	Pass		1:62,500		1951
Utsolady	•		1:24,000		1956
Conway		•	1:24,000	-	1956

There are some cultural and shoreline differences but in general the agreement is good.

64. Comparison with Contemporary Hydrographic Surveys

H-8542	1:10,000	1960
H-8543	1:10,000	1960

Shoreline and control of the subject surveys was furnished prior to the hydrographic surveys and apparently no differences exist.

65. Comparison with Nautical Charts

			revised			
6450		1961	revised	to	Oct.	
184 s.c.	1:80,000					1963

There are no differences of importance between the charts and the manuscripts.

66. Accuracy of Results and Future Surveys

These surveys were prepared according to project instructions and are within the required accuracy for nautical charting.

Reviewed by:

L. C. Lande

Approved by:

Chief, Photogrammetric Branch

Chief, Protogramme Try Division

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
<u>84-50</u>	12-29-64	a.J. Hoffman	Part After Verification Review Inspection Signed Via
18423)		0 06	Drawing No.
6300	8-18-65	G. R. Johnson	Full Part Before After Vesification Review-Inspection Signed Via
ix400)			Drawing No.
8441	3-27-00	Razillia	Full Part Before After Verification Review Inspection Signed Via
<u> </u>		5-29-80-RCS	Drawing No. 49
		<u> </u>	<u> </u>
8423	1/13/81	D. C. Larson	Full Part Before After Verification Review Inspection Signed Vi
		3-12-51 eggs	Drawing No. 21
18440	3/12/81	D.C darson	Full Part Before After Verification Review Inspection Signed Viz
	377-7-07	3-12-11 lb	Drawing No. 33
	i		Full Part Before After Verification Review Inspection Signed Vis Drawing No.
<u>·</u>		<u> </u>	Diawing No.
			Full Part Before After Verification Review Inspection Signed Vi-
			Drawing No.
			Full Dow Refere Afree Verification Devices Township Circul Vi
		 -	Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Vis
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Vis
			Drawing No.
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