11592

Orig.

Diag. Cht. Nos. 6300-2 & 6380.

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-11592

LOCALITY

State Washington

General locality Skagit Bay

Locality Fir Island

1959—1960

CHIEF OF PARTY

Lorne G. Taylor & Fred Natella

LIBRARY & ARCHIVES

DATE

USCOMM-DC 5087

11592

FORM 181
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T - 11592

Project No. (II): Ph-5905 Quadrangle Name (IV):

Field Office (II): Mt. Vernon, Washington

Chief of Party: Lorne G. Taylor
Unit Chief: W. V. Hull

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: Lorne G. Taylor & Fred Natella

Instructions dated (II) (III): 10 Feb. 1960 II
Supplement 1: 5 May 1960 II & III

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000 Stereoscopic Plotting Instrument Scale (III):

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):

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): N.A. 1927 Vertical Datum (III):

Mean sea level except as follows: X
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): NOFO, 1941

Lat.: 48° 21' 59.359" Long.: 122° 25' 20.955" Adjusted X
Unadjusted

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

Y= 502,447.44 X= 1,613,719.64

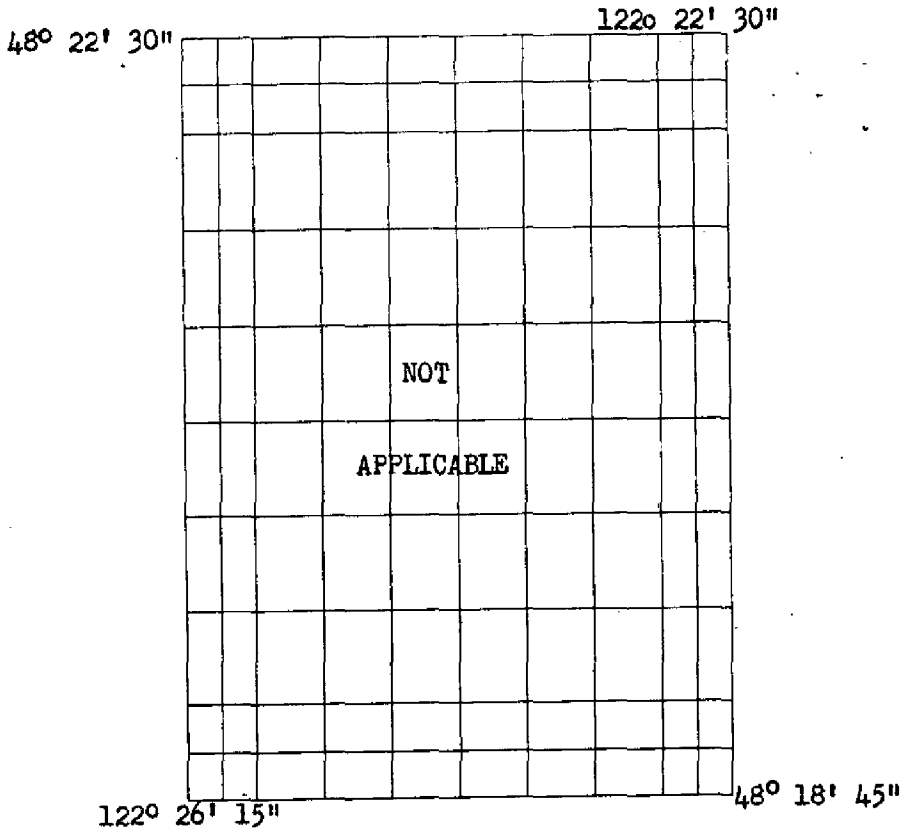
Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

FORM 181a
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD



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

FORM 181b
(4-23-54)

4.

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II):	R. B. Melby, Shoreline W. V. Hull, Interior	Date:	July 1960
Planetable contouring by (II):		Date:	
Completion Surveys by (II):		Date:	

Mean High Water Location (III) (State date and method of location): 7-7-60 to 7-12-60 by field inspection and graphic compilation.

Projection and Grids ruled by (IV):	J. Keefer	Date:	6-16-60
Projection and Grids checked by (IV):	W. S.	Date:	8-18-60
Control plotted by (III):	C. C. Harris	Date:	10-3-60
Control checked by (III):	L. L. Graves	Date:	10-10-60
Radial Plot or Stereoscopic Control extension by (III):	J. L. Harris (Radial Plot)	Date:	10-21-60
Stereoscopic Instrument compilation (III): Planimetry		Date:	
Stereoscopic Instrument compilation (III): Contours		Date:	
Manuscript delineated by (III):	D. N. Williams, Rough Draft J. L. Harris, Scribing C. C. Harris, Stick-up	Date:	5-26-61 10-3-61 11-29-61
Photogrammetric Office Review by (III):	C. C. Harris, Rough Draft J. E. Deal, Advance	Date:	6-16-61 11-30-61
Elevations on Manuscript checked by (II) (III):	None	Date:	

FORM 181c
(4-23-54)

DESCRIPTIVE REPORT - DATA RECORD

5. U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

Camera (kind or source) (III): C&GS - Nine lens - Focal length 8.25 inches.

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
60119 thru 60121	9-9-59	10:10	1:10,000	5.0' above M.L.L.W. (North Fork Skagit River) 9.5''above M.L.L.W. (Skagit Bay)

There is no tide data available to this office for North Fork Skagit River. The tide is assumed to be similar to Swinomish Slough beacuse Tidal Bench Mark data is nearly alike.

Tide (III)

		Ratio of Ranges	Mean Range	Diurnal ~~Spring~~ Range
Reference Station:	Seattle, Washington		7.6	11.3
Subordinate Station:	La Conner, Swinomish Slough		3.2	6.5
Subordinate Station:	Ala Spit		6.1	10.5

Washington Office Review by (IV): Date:

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 11.0

Shoreline (More than 200 meters to opposite shore) (III): 5.0

Shoreline (Less than 200 meters to opposite shore) (III): 5.0

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 1 Recovered: 1 Identified: 1

Number of BMs searched for (II): 3 Recovered: None Identified: None

Number of Recoverable Photo Stations established (III): None

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

Remarks:

COMM-DC-57842

FIELD INSPECTION REPORT

Map Manuscript T-11592

Project Ph-5905

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

Filed with Desc. Report T11584

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-11591

Project Ph-5905

Refer to the combined radial plot report for T-11584 thru T-11586 and T-11589 thru T-11593 which is included in the Descriptive Report for T-11584 (1960).

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T- 11592 PROJECT NO. Ph-5905 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 DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
NOFO, 1941	Wash.N.	N.A.	502,447.44	2447.44	(2552.56)		746.0	(778.0)		
	Pg.111	1927	1,613,719.64	3719.64	(1280.36)		1133.7	(390.3)		
DO	Office	"	502,478.95	2478.95	(2521.05)		755.6	(768.4)		
Sub Station "A"	Comp.		1,613,805.42	3805.42	(1194.58)		1159.9	(364.1)		
DO	"	"	502,459.37	2459.37	(2540.63)		749.6	(774.4)		
Sub Station "B"			1,613,690.03	3690.03	(1309.97)		1124.7	(399.3)		

1 FT. = .3048006 METER

COMM-DC-57843

COMPUTED BY: J.L.H. DATE 9-19-60 CHECKED BY: J.E.D. DATE 9-29-60

COMPILATION REPORT

Map Manuscript T-11592

Project Ph-5905

31. Delineation:

Graphic methods were used. Photography was adequate. There are no areas incomplete.

32. Control:

Horizontal control was adequate.

33. Supplemental Data:

None.

34. Contours and Drainage:

Contours are not applicable.

Drainage was not field inspected. It was easily discernible on the photographs and was compiled with reference to the U.S.G.S. 7½ minute Utsalady, Washington, quadrangle.

35. Shoreline and Alongshore Details:

The mean high-water line was adequately field inspected for Skagit Bay, but was not indicated on the photography for the North Fork Skagit River. From assumed tide information it is believed that the photographs were taken at just about M.H.W. in the North Fork Skagit River. The shoreline of the photography has been compiled for the M.H.W.L. for this river.

A few small sand flats were visible on the photography. These were detailed, but no heights were furnished by field inspection.

The character of the foreshore is indicated by notes lettered along the M.H.W.L.

The grass in water area in Skagit Bay is as it appears on high water photography and does not indicate the true extent of the area. Apparently all of Skaget Bay is a shoal area.

There are no low-water lines.

36. Offshore Details:

Two lone piles in Skagit Bay were located by sextant fix.

37. Landmarks and Aids:

None.

38. Control for Future Surveys:

None.

39. Junctions:

Satisfactory junctions were made with T-11591 on the west, T-11593 on the east and T-11599 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.

41. Bridge Clearance:

Clearances on the highway bridge crossing the North Fork Skagit River were measured in the field, but were not listed in the Field Inspection Report.

Tide data is assumed to be similar to La Conner, Swinomish Slough and it is believed that when the measurement was made there was a -0.5 ft. tide. Using this as a base and the Tidal Bench Mark data at the bridge the clearances are computed as follows:

Fixed Span Highway Bridge

Vertical Clearance 55.8 ft. M.H.W.
Horizontal Clearance 140.3 Ft.

46. Comparison with Existing Maps:

Comparison was made with U.S.G.S. 7½ minute quadrangle Utsalady, Washington, Scale 1:24,000, Edition 1956.

47. Comparison with Nautical Charts:

This manuscript is only partially covered by Nautical Charts 6376, Scale 1:25,000 and 6380, Scale 1:80,000. Soundings are shown on No. 6376 in the North Fork Skagit River which indicate the river may be navigable to small craft or to the towing of log booms.

Items to be Applied to Nautical Charts Immediately:

The highway bridge crossing the North Fork Skagit River falls within the area of Chart No. 6380 and should be shown as an obstruction and also for its value as a landmark.

Items to be Carried Forward:

None.

Approved:

Fred Natella, CAPT, C&GS
Portland District Officer

Respectfully submitted:

J. Edward Deal
Cartographer

49. Notes to the Hydrographer:

None.

COMPILATION RECORD	COMPLETION DATE	REMARKS
4 Exterior Details Added Compilation Complete	11-29-61	

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T-11592

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 ✓ 10. Photogrammetric plot report ✓ 11. Detail points ✓

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ✓ 13. Low-water line ✓ 14. Rocks, shoals, etc. ✓ 15. Bridges ✓ 16. Aids to navigation none 17. Landmarks none 18. Other alongshore physical features ✓ 19. Other alongshore 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 none ✓ 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. Lorita de Harris — Reviewer; J 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:

M-2623-12

48. Geographic Names:

Browns Slough

Deepwater Slough

Dry Slough

Fir Island

Freshwater Slough

North Fork Skagit River

Skagit Bay

Wiley Slough

George D. Hall
Geographic Names Section
27 February 1963

Review Report
Shoreline Surveys
T-11584 thru T-11593
May 1964

61. General Statement

These are ten (10) 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-1252	1:10,000	1871
T-2156	1:20,000	1889
T-2856	1:20,000	1908
T-6684b	1:10,000	1939
T-6685a&b	1:10,000	1939
T-6686	1:10,000	1939
T-6687	1:5,000	1939
T-6689	1:5,000	1939
T-6769	1:10,000	1940

Agreement with the above surveys is in general fair. There are many differences most of which are due to natural changes, but the general picture presented by the above surveys are reasonably similar to that of the present surveys. The above surveys are to be superseded for the common area.

63. Comparison with Maps of Other Agencies

Deception Pass	1:62,500	1951
Utsalady	1:24,000	1956
Conway	1:24,000	1956

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

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

See item 47.

66. Accuracy of Results and Future Surveys

These surveys comply with instructions and meet the National Standard of Map Accuracy.

Reviewed by:

L. C. Lande
L. C. Lande

Approved by:

Chief, Photogrammetric Branch

Chief, Nautical Chart Division

J. E. Waugh 7/27/64
Chief, Photogrammetry Division

FORM C&GS-8352
(3-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-11592

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
6300	8-18-65	G. R. Johnson	Full ~~Part Before~~ After ~~Verification~~ Review ~~Inspection~~ Signed Via
(18400)			Drawing No.
18441	3-27-80	R. A. Lilke	Full ~~Part Before~~ After Verification Review Inspection Signed Via
		5-27-80 RCS	Drawing No. 49
18423	1-15-81	D. C. Larson	Full ~~Part Before~~ After Verification Review Inspection Signed Via
		3-12-81	Drawing No. 21
18421	1-15-81	D. C. Larson	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. → off chart limits
18440	3/12/81	D. C. Larson	Full ~~Part Before~~ After Verification Review Inspection Signed Via
		3-12-81	Drawing No. 33
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.