

11597

only

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-11597
LOCALITY	
State	Washington
General locality	Saratoga Passage, Puget Sound
Locality	Strawberry Point
1960	
CHIEF OF PARTY	
Lorne G. Taylor and Fred Natella	
LIBRARY & ARCHIVES	
DATE	July 1964

USCOMM-DC 5087

11597

DESCRIPTIVE REPORT - DATA RECORD

T - 11597

Project No. (II): Ph-5905

Quadrangle Name (IV):

Field Office (II): Mt. Vernon, Washington

Chief of Party: Lorne G. Taylor

Sub Unit: John C. Lajoie & Wesley V. Hull

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: Lorne G. Taylor and
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): Kelsh Stereoscopic Instrument

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:6000

Kelsh 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):

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): FROST, 1939

Lat.: 48° 17' 53.383"

Long.: 122° 30' 15.896"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: Washington Zone: North

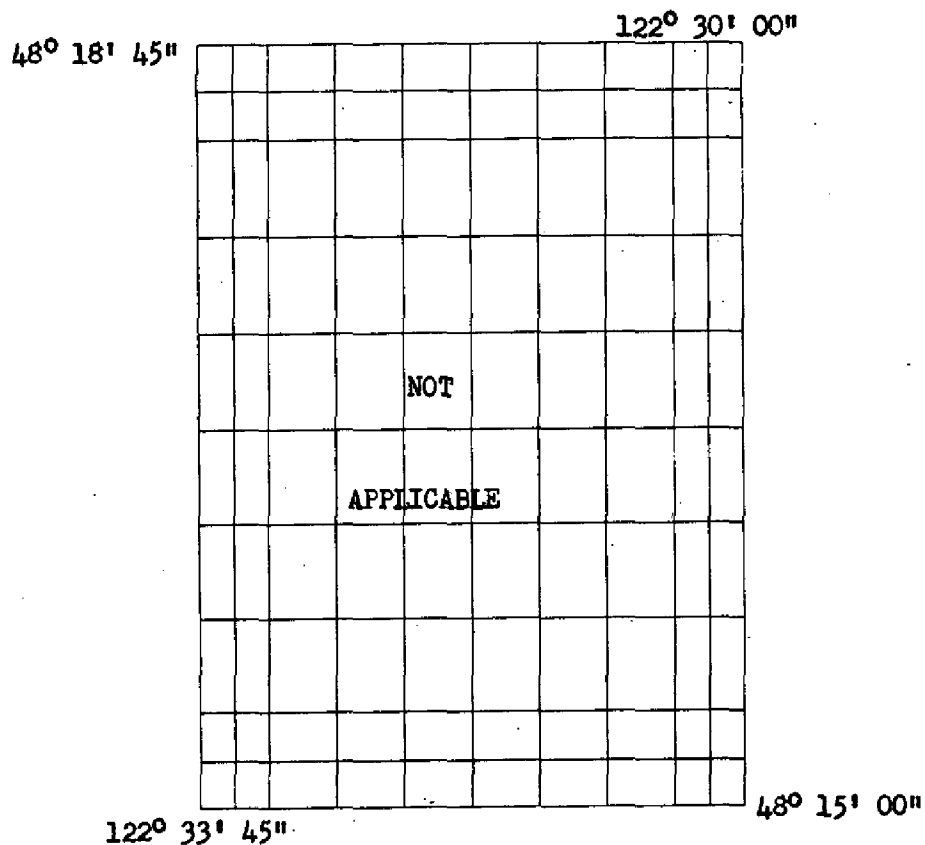
Y= 477,949.63

X= 1,593,266.99

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

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

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

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): **Wesley V. Hull**

Date: **June 1960**

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): **6-9 & 10-60 by field inspection and Kelsh Instrument Compilation.**

Projection and Grids ruled by (IV): **W. S.**

Date: **5-18-60**

Projection and Grids checked by (IV): **Dempsey**

Date: **5-21-60**

Control plotted by (III): **J. E. Deal & D. N. Williams**

Date: **6-14 & 16-60**

Control checked by (III): **D. N. Williams & J. E. Deal**

Date: **6-17-60**

Radial Plot or Stereoscopic
Control extension by (III):

W. A. Kuncis

Date: **6-9-60**

Planimetry **D. N. Williams**
Stereoscopic Instrument compilation (III):
Contours

Date: **7-5 & 9-27-60**

Date:

Manuscript delineated by (III):

L. L. Graves **Scribing**
C. C. Harris **Stick-up**

Date: **10-20-60**
1-23-61

Photogrammetric Office Review by (III): **L. L. Graves** **Rough Draft**
J. E. Deal

Date: **10-12-60**
1-26-61

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

Date:

DESCRIPTIVE REPORT - DATA RECORD

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

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

Number	Date	Time	Scale	Stage of Tide
60 S-2641	4-26-60	10:20	1:30,000	0.3' above M.L.L.W.
60 S-2770 thru 2772	4-27-60	09:11	1:30,000	3.4' above M.L.L.W.

Tide (III)

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

Diurnal		
Ratio of Ranges	Mean Range	Spring Range
	7.6	11.3
	7.8	11.5

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): 5
Shoreline (More than 200 meters to opposite shore) (III): 6
Shoreline (Less than 200 meters to opposite shore) (III): None
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 16
Number of BMs searched for (II): 3 tidal
Number of Recoverable Photo Stations established (III): 1*
Number of Temporary Photo Hydro Stations established (III): 7

Recovered: 9
Recovered: 3

Identified: 4
Identified: 3

Remarks:

* Aid to navigation.

FIELD INSPECTION REPORT

Map Manuscript T-11597

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 Desc. Report T-11584

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-11597

Project Ph-5905

Refer to the combined Photogrammetric Plot Report (Stereoplanigraph Bridge) for Strips 1, 3, 4, 5, 6, 7, 8, 9, 10 and 11 by Willard A. Kuncis, July 1960.

Filed with Desc Report T-11584

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

MAP T 11579 PROJECT NO Ph-5905 SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR x -COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
								FORWARD	(BACK)	FORWARD	(BACK)
FROST, 1939	Wash.N. Pg.297	N.A. 1927	477,949.64		2949.64	(2050.36)		899.1	(624.9)		
	Wash. Office Comp.	"	1,593,266.99		3266.99	(1733.01)		995.8	(528.2)		
Sub Station	Wash. Office Comp.	"	478,275.6		3275.6	(1724.4)		998.4	(525.6)		
	Wash. Office Comp.	"	1,593,797.6		3797.6	(1202.4)		1157.5	(366.5)		
NELL, 1939 (Hydrographic)	Wash.N. Pg.297	"	472,223.66		2223.66	(2776.34)		677.8	(846.2)		
	Wash.N. Pg.296	"	1,585,016.71		16.71	(4983.29)		5.1	(1518.9)		
TAD, 1939	Wash.N. Pg.296	"	482,426.34		2426.34	(2573.66)		739.5	(784.5)		
	Wash.N. Pg.293	"	1,593,080.64	0	3080.64	(1919.36)		939.0	(585.0)		
ROCKY, 1924 R.M. #1	Wash.N. Pg.293	"	472,227.40		2227.40	(2772.60)		678.9	(845.1)		
	Wash.N. Pg.297	"	1,585,012.52		12.52	(4987.48)		3.8	(1520.2)		
Ww, 1939 (Pt. Polnell Boulder, 1939)	Wash.N. Pg.297	"	469,334.81		4334.81	(665.19)		1321.3	(202.7)		
	Wash.N. Pg.273	"	1,580,410.58		410.58	(4589.42)		125.1	(1398.9)		
POLNELL (USE) 1924	Wash.N. Pg.273	"	469,040.81		4040.81	(959.19)		1231.6	(292.4)		
	Field Comp.	"	1,580,015.33		15.33	(4984.67)		4.7	(1519.30)		
POINT POLNELL LIGHT, 1960	Field Comp.	"	469,099.25		4099.25	(900.75)		1249.5	(274.5)		
	Wash.N. Pg.293	"	1,579,963.79		4963.79	(36.21)		1513.0	(11.0)		
STARFISH, 1924	Wash.N. Pg.293	"	460,752.38		752.38	(4247.62)		229.3	(1294.7)		
	Wash. Office Comp.	"	1,587,296.73		2296.73	(2703.27)		700.0	(824.0)		
Sub Station "A"	Wash. Office Comp.	"	460,637.46		637.46	(4362.54)		194.3	(1329.7)		
	"	"	1,587,483.86		2483.86	(2516.14)		757.1	(766.9)		
Sub Station "B"	"	"	460,596.20		596.20	(4403.80)		181.7	(1342.3)		
	"	"	1,587,187.03		2187.03	(2812.97)		666.6	(857.4)		
			460,596.20		596.20						

1 FT. = 3048006 METER

COMPUTED BY J.L.H.

DATE 6-13-60

CHECKED BY J.E.D.

DATE 6-14-60

COMM-DC-5784

None

[illegible]

COMPILATION REPORT

Map Manuscript T-11597

Project Ph-5905

31. Delineation:

The Kelsh Stereoscopic Instrument was used to compile the planimetry.

Photography was adequate. The field inspection of roads was incomplete. Apparently any road that was not maintained by a public agency was considered private by the field inspection unit and was not classified. This eliminated many roads leading to water facilities and to water front development. By comparison with existing U.S.G.S. quadrangles and other maps these roads were classified and compiled.

There are no areas incomplete.

32. Control:

The identified horizontal control stations supplemented by the pass points located in the stereoplanigraph bridge were adequate for compilation on the Kelsh Instrument.

33. Supplemental Data:

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

Map of U. S. Naval Air Station, Whidbey Island, Washington, dated 1 Dec. 1953, Scale: 1 inch = 1000 feet.

34. Contours and Drainage:

Contours are not applicable.

No drainage was indicated by field inspection. None was shown on the U.S.G.S. quadrangle and none could be delineated during compilation.

35. Shoreline and Alongshore Details:

The mean high-water line was located by field inspection and delineated by the operator of the Kelsh Instrument during compilation. The extent of foul areas alongshore were indicated by field

inspection. Low-water and shoal lines were delineated by the compiler from the photography which was taken at about M.L.L.W. Data on rocks* baring along the shoreline was furnished by the field inspector for the time of field inspection which was transcribed to the vertical datum of the manuscript by the compiler.

36. Offshore Details:

None.

** Numerous differences between Tide & Hydro
Rock elevations. Hydro elevations using actual
tides were accepted (H- 8542)*

37. Landmarks and Aids:

There are no landmarks. Two fixed aids to navigation were located, one by traverse methods and one by instrument angle and distance measurement. Form 567 is submitted.

38. Control for Future Surveys:

The two fixed aids to navigation and seven photo-hydro stations located by Kelsh Instrument are listed under Item 49, Notes to the Hydrographer.

39. Junctions:

Satisfactory junctions were made with T-11590 on the north, T-11596 on the west, T-11598 on the east and T-11605 on the south.

40. Horizontal and Vertical Accuracy:

There are no areas of the map manuscript believed to be of sub-normal horizontal accuracy. Vertical accuracy is not applicable.

46. Comparison with Existing Maps:

Comparison was made with U.S.G.S. 15 minute Desception Pass, Washington quadrangle, Scale 1:62,500, edition of 1951.

47. Comparison with Nautical charts:

Comparison was made with Nautical Chart No. 6404, Scale 1:10,000, 1st edition Aug. 1943, corrected through Sept. 26, 1959, and with Nautical Chart No. 6450, Scale 1:80,000, 11th edition, corrected 7-27-59.

Items to be Applied to Nautical Charts Immediately.

None.

Items to be Carried Forward.

None.

Approved:

J. Edward Deal
for

Fred Natella
CAPT, C&GS
Portland District Officer

Respectfully submitted:

J. Edward Deal

J. Edward Deal
Cartographer
C&GS

49. Notes to the Hydrographer:

Two aids to navigation were located:

Point Polnell Light (Traverse)
Strawberry Point Light (Field measurement)

Seven photo-hydro signals were located:

<u>Number</u>	<u>Description</u>	<u>Field Photo. No.</u>
9701	Southerly of 2 prominent objects at top of bluff (selected at Photo. Office)	60-S-2642
9702	Signal erected and located from Substitute station "West end of log"	60-S-2642
9703	Large rock bares 5 ft. at M.H.W.	60-S-2641
9704	Chimney, large white house on bluff	60-S-2641
9705	Gable, small house on beach	60-S-2641
9706	Chimney atop white house	60-S-2641
9707	North Gable of boathouse	60-S-2501

There are several rocks along the north shore of Camano Island for which the field inspector did not obtain data to compute the heights these rocks uncover at sounding datum. These rocks are labeled "submerged at M.H.W. and should be reinspected."

PHOTOGRAMMETRIC OFFICE REVIEW

T-11597

1. Projection and grids X 2. Title X 3. Manuscript numbers X 4. Manuscript size X

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy X 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) _____ 7. Photo hydro stations X 8. Bench marks X 9. Plotting of sextant fixes X 10. Photogrammetric plot report X 11. Detail points X

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline X 13. Low-water line X 14. Rocks, shoals, etc. X 15. Bridges None 16. Aids to navigation X 17. Landmarks None 18. Other alongshore physical features X 19. Other along-shore cultural features X

PHYSICAL FEATURES

20. Water features X 21. Natural ground cover X 22. Planetable contours None 23. Stereoscopic instrument contours None 24. Contours in general None 25. Spot elevations None 26. Other physical features X

CULTURAL FEATURES

27. Roads X 28. Buildings X 29. Railroads None 30. Other cultural features X

BOUNDARIES

31. Boundary lines None 32. Public land lines None

MISCELLANEOUS

33. Geographic names X 34. Junctions X 35. Legibility of the manuscript X 36. Discrepancy overlay None 37. Descriptive Report X 38. Field inspection photographs X 39. Forms X 40. L.L. Graves & J.E. Deal J. Edward Deal
Reviewer 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.

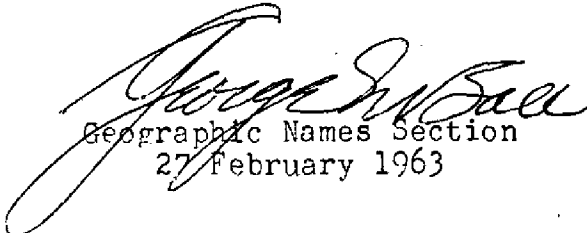
Compiler

Supervisor

43. Remarks:

48. Geographic Names:

Camano Island
Maple Grove Beach
Polnell Point
Rocky Point
Saratoga Passage
Silver Lake
Strawberry Point
Utsalady Point
Whidbey Island


Geographic Names Section
27 February 1963

Review 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
T-6685a	1:10,000	1939
T-6768	1:10,000	1940
T-6769	1:10,000	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

6404	1:10,000	1952 revised to Mar. 1961
6450	1:80,000	1961 revised to Oct. 1963
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
L. C. Lande

Approved by:

Charles J. Leamer
Chief, Photogrammetric Branch

J. E. Waugh 7/10/64
Chief, Photogrammetry Division

