

11607

only

Diag. Cht. No. 6450-2.

Form 504 U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY  <b>DESCRIPTIVE REPORT</b>	
Type of Survey <u>Shoreline (Photogrammetric)</u>	
Field No. <u>Ph-5905</u>	Office No. <u>T-11607</u>
<b>LOCALITY</b>	
State <u>Washington</u>	
General locality <u>Port Susan, Puget Sound</u>	
Locality <u>Juniper Beach</u>	
<u>1959-1960</u>	
<b>CHIEF OF PARTY</b>	
<u>Lorne G. Taylor &amp; Fred Natella</u>	
<b>LIBRARY &amp; ARCHIVES</b>	
DATE <u>September 1964</u>	

USCOMM-DC 5087

11607

DESCRIPTIVE REPORT - DATA RECORD

T - 11607

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

Field Office (II): Mt. Vernon, Washington

Chief of Party: Lorne G. Taylor  
Unit Chief: J. C. Lajoie & 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

SEP 12 '61

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): X

Mean sea level except as follows:  
Elevations shown as (25) refer to mean high water  
Elevations shown as (2) refer to sounding datum  
i.e., mean low water or mean lower low water

Reference Station (III): CUT, 1924 R.M. 1

Lat.: 48° 13' 48.169"      Long.: 122° 23' 54.383"      Adjusted  
Unadjusted X

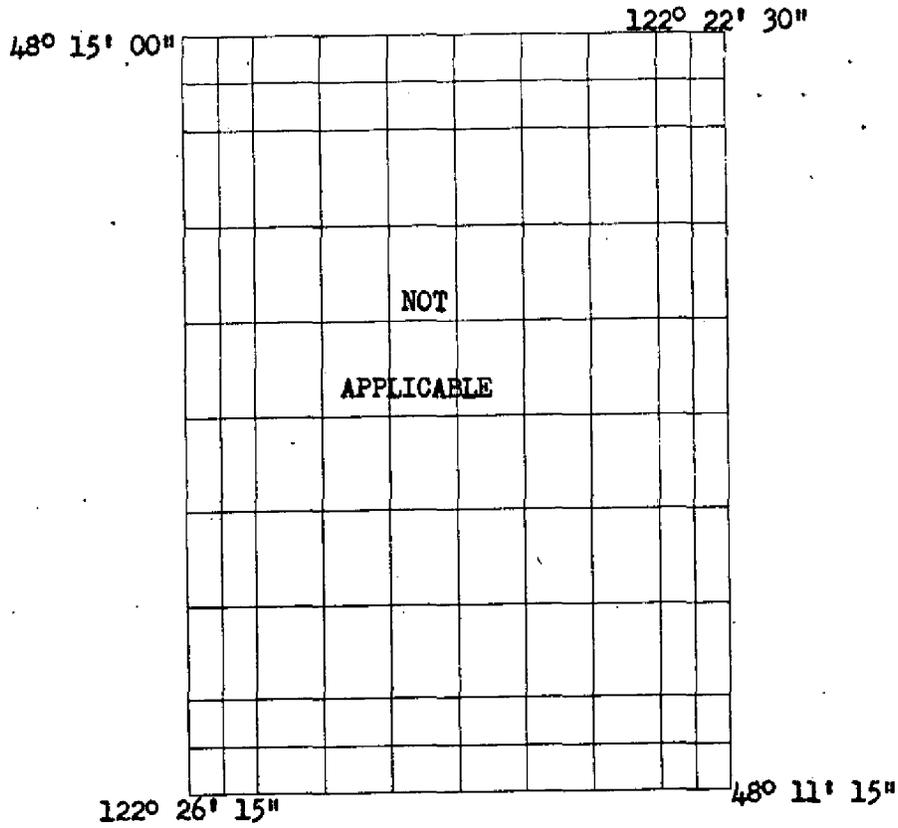
Plane Coordinates (IV):      State: Washington      Zone: North

Y= 452,564.65      X= 1,618,552.08

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



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

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): **L. F. Van Scoy - Shoreline** Date: **July 1960**  
**R. B. Melby - Interior** Date: **Aug. 1960**

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): **July 1960 by field inspection, refinement by stereoscopic examination in office and compilation by graphic methods.**

Projection and Grids ruled by (IV): **J. Keefer** Date: **7-1-60**

Projection and Grids checked by (IV): **W. S.** Date: **8-17-60**

Control plotted by (III): **C. C. Harris** Date: **10-6-60**

Control checked by (III): **L. L. Graves** Date: **10-10-60**

Radial Plot or Stereoscopic Control extension by (III): **J. L. Harris** Date: **1-11-61**

Stereoscopic Instrument compilation (III): Planimetry Date:

Contours Date:

Manuscript delineated by (III): **L. L. Graves, Rough Draft** Date: **2-10-61**  
**D. N. Williams, Scribing** Date: **4-3-61**  
**C. C. Harris, stack-up** Date: **5-26-61**

Photogrammetric Office Review by (III): **C. C. Harris, Rough Draft** Date: **3-21-61**  
**J. E. Deal, Advance** Date: **6-12-61**

Elevations on Manuscript checked by (II) (III): **None** Date:

DESCRIPTIVE REPORT - DATA RECORD

5.

Camera (kind or source) (III): **USC&GS nine lens - focal length 8.25 inches**

Number	Date	PHOTOGRAPHS (III)		Scale	Stage of Tide
		Time			
60208 & 60209	9-9-59	11:09		1:10,000	9.4' above M.L.L.W.

Tide (III)

Reference Station: **Seattle, Washington**  
 Subordinate Station: **Tulalip, Port Susan, Washington**  
 Subordinate Station:

Ratio of Ranges	Mean Range	Diurnal
		Spring Range
	7.6	11.3
	7.6	11.2

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): **4.6**  
 Shoreline (More than 200 meters to opposite shore) (III): **8.0**  
 Shoreline (Less than 200 meters to opposite shore) (III): **3.0**  
 Control Leveling - Miles (II):  
 Number of Triangulation Stations searched for (II): **6** Recovered: **1** Identified: **1**  
 Number of BMs searched for (II): **None** Recovered: Identified:  
 Number of Recoverable Photo Stations established (III): **None**  
 Number of Temporary Photo Hydro Stations established (III): **1**

Remarks:

## FIELD INSPECTION REPORT

Map Manuscript T-11607

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-11607

Project Ph-5905

Refer to Photogrammetric Plot Report for T-11598 thru T-11600, T-11606 thru T-11610 and T-11616 which is included in the Descriptive Report for T-11598 (1960).



## COMPILATION REPORT

Map Manuscript T-11607

Project Ph-5905

31. Delineation:

Graphic methods were used to compile the planimetry. Field inspection was adequate except as described in Items 34 and 35.

32. Control:

Identified horizontal control and the pass points located by the photogrammetric plot were adequate for controlling the orientation of photographs for the location of minor pass points.

33. Supplemental Data:

Map of Island County, Washington, Scale 1" = 1 Mile, compiled by Island County Engineer, March 1958.

34. Contours and Drainage:

Contours are not applicable. The drainage was only partly field inspected. It was delineated at the compilation office by stereoscopic examination of the photographs and verified by comparison with the U.S.G.S. Juniper Beach, Washington, 7½ minute quadrangle, Scale 1:24,000, Edition 1956.

35. Shoreline and Alongshore Areas:

The nine lens photography was taken just below mean high-water. Infrared photography taken at the same time was used to supplement the nine lens photography. For the most part the foreshore area of this manuscript bares at extreme low tides. Because photography was taken at high water the limits of this area could only be approximately located. Some changes were made at the compilation office in the field interpretation of the apparent shore line in the "grass in water" areas at the mouths of Davis Slough and South Pass.

36. Offshore Details:

Several dolphins and piling are located offshore.

37. Landmarks and Aids:

None.

38. Control for Future Surveys:

One photo-hydro station was located and is listed under Item 49, Notes to the Hydrographer.

39. Junctions:

Satisfactory junctions were made with T-11599 on the north, T-11606 on the west, T-11608 on the east and T-11615 on the south.

40. Horizontal and Vertical Accuracy:

Vertical accuracy is not applicable.

There are no areas believed to be of sub-normal horizontal accuracy.

46. Comparison with Existing Maps:

Comparison was made with U.S.G.S. 7½ minute quadrangle Juniper Beach, Wash., Scale 1:24,000, Edition of 1956.

47. Comparison with Nautical Charts:

Comparison was made with Nautical Chart 6450, Scale 1:80,000, Eleventh Edition, revised 9-5-60, hand corrected thru 4-15-61.

Items to be Applied to Nautical Charts Immediately.

None.

Items to be Carried Forward: None.

Approved:

Respectfully submitted:

*Fred Natella*  
Fred Natella, CAPT, C&GS  
Portland District Officer

*J. Edward Deal*  
J. Edward Deal  
Cartographer, C&GS

49. Notes to the Hydrographer:

One photo-hydro station was located:

Number	Description	Photo
0701	S.E. gable large unpainted barn	60210

## PHOTOGRAMMETRIC OFFICE REVIEW

T. 11607

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  8. Bench marks None  
9. Plotting of sextant fixes None 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 along-shore 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 C. Harris 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

Davis Slough

Juniper Beach

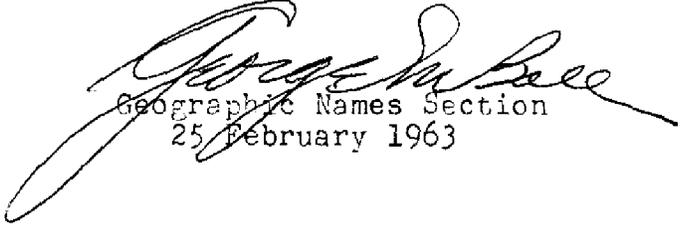
Livingston Bay

Fort Susan

South Pass

Sundins Beach

West Pass

  
Geographic Names Section  
25 February 1963

Review Report  
Shoreline Surveys  
T-11601 through T-11610  
March 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-1254	1:10,000	1871
T-1755	1:20,000	1886
T-1994	1:20,000	1888
T-2011	1:20,000	1888
T-1253	1:10,000	1871
T-6767	1:10,000	1940
T-6768	1:10,000	1940

There are cultural and shoreline changes due to the difference in time interval. The shoreline has eroded approximately 30 to 40 meters in some areas. T-11601 through T-11610 are to supersede the above listed surveys of common areas for nautical charting.

63. Comparison with Maps of Other Agencies

Port Townsend North	1:24,000	1953
Coupeville	1:24,000	1953
Camano	1:24,000	1953
Juniper Beach	1:24,000	1956
Stanwood	1:24,000	1956
Arlington West	1:24,000	1956

There are small 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
H-8544	1:10,000	1960

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

65. Comparison with Nautical Charts

6450	1:80,000	1961 revised to 1963
184 <del>184</del> S.C.	1:80,000	1963

There are only minor differences between the charts and the manuscript.

66. Accuracy of Results and Future Surveys

These surveys were constructed according to project instructions and are within the requirements for adequacy and accuracy.

Reviewed by:

*L. C. Lande*  
L. C. Lande

Approved by:

*Charles H. ...*  
\_\_\_\_\_  
Chief, Photogrammetric Branch

\_\_\_\_\_  
Chief, Nautical Chart Division

*M. E. ...*  
\_\_\_\_\_  
Chief, Photogrammetry Division  
*Acting*

