

11589

Orig

Diag. Cht. No. 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-11589

LOCALITY

State Washington

General locality Skagit Bay - Whidbey Island

Locality Dugalla Bay

1959-60

CHIEF OF PARTY

Lorne G. Taylor & Fred Natella

LIBRARY & ARCHIVES

DATE September 1964

USCOMM-DC 5087

11589

DESCRIPTIVE REPORT - DATA RECORD

T- 11589

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

Copy filed in Division of

Supplement 1, 5 May 1960 II & III

Photogrammetry (IV)

Method of Compilation (III): Kelsh Instrument and Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:6000

Pantograph Scale

1:10,000

Scale Factor (III):

None

NOV 6 1961

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 (5) refer to sounding datum

i.e., mean low water or mean lower low water

Reference Station (III): DUGUALLA (USN) 1954

Lat.: 48° 21' 25.224"

Long.: 122° 35' 49.640"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: Washington Zone: North

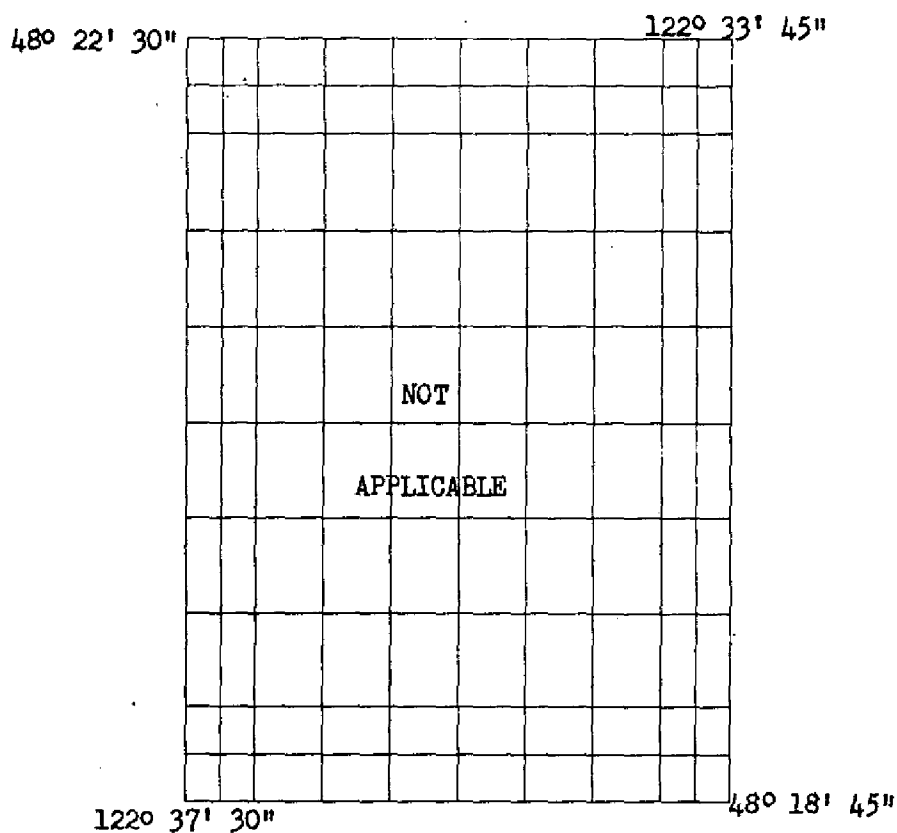
Y= 499,914.05

X= 1,571,198.45

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): W. V. Hull & R. B. Melby Date: April & June 1960

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): 3-17-60 and 6-23-60 by field inspection, refinement by stereoscopic examination in office and compilation by graphic methods.

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: 9-29-60

Control checked by (III): L. L. Graves Date: 10-5-60

Radial Plot or Stereoscopic Control extension by (III): J. L. Harris Date: 10-12-61
W. A. Kuncis July 1960

Planimetry D. N. Williams Date: 12-27-60
Stereoscopic Instrument compilation (III): Contours Date:

Manuscript delineated by (III): C. H. Bishop, rough draft Date: 4-14-61
C. H. Bishop, Scribing 6-30-61
C. C. Harris, Stick-up 9-7-61

Photogrammetric Office Review by (III): C. C. Harris, Rough draft Date: 4-20-61
J. E. Deal, Advance 9-15-61

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

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
& Single lens "S"

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
60218 & 60219	9-9-59	11:12	1:10,000	8.7' above MLLW
60-S-2718 & 2719	4-26-60	11:25	1:30,000	-0.2' below MLLW

Tide (III)

Reference Station: Seattle, Washington
Subordinate Station: Ala Spit, Washington
Subordinate Station:

Diurnal		
Ratio of Ranges	Mean Range	Spring Range
	7.6	11.3
	6.9	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): 12
Shoreline (More than 200 meters to opposite shore) (III): 3.5
Shoreline (Less than 200 meters to opposite shore) (III): 1.5
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 9 Recovered: 8 Identified: 2
Number of BMs searched for (II): None Recovered: Identified:
Number of Recoverable Photo Stations established (III): 2
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

FIELD INSPECTION REPORT

Map Manuscript T-11589

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 T11584

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-11589

Project Ph-5905

Refer to Photogrammetric Plot Report (Stereoplanigraph Bridge) Puget Sound, Washington, Strip No. 1 and No. 3 by W. A. Kuncis, July 1960. *Filed with Desc. Report T-11584*

Refer to Photogrammetric Plot Report (Radial Plot) for manuscripts T-11584 thru T-11586 and T-11589 thru T-11593 which is included in the Descriptive Report for T-11584.

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

MAP T-11589

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 λ -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
DUGUALLA (USN) 1954	Wash.N. 273	N.A. 1927	499,914.05	4914.05	(85.95)		1497.8	(26.2)	
			1,571,198.45	1198.45	(3801.55)		365.3	(1158.7)	
			499,718.7	4718.7	(281.3)		1438.3	(85.7)	
Sub Station	Wash. Office Comp.	"	1,571,082.9	1082.9	(3917.1)		330.1	(1193.9)	
ANDERSON (USN) 1954	Wash.N. 272	"	496,651.17	1651.17	(3348.83)		503.3	(1020.7)	
			1,567,183.19	2183.19	(2816.81)		665.4	(858.6)	
			496,807.03	1807.03	(3192.97)		550.8	(973.2)	
Sub Station	Office Comp.	"	1,567,171.29	2171.29	(2828.71)		661.8	(862.2)	
AULT E. BASE 1954	Wash.N. 270	"	500,031.72	31.72	(4968.28)		9.7	(1514.3)	
			1,564,991.12	4991.12	(8.88)		1521.3	(2.7)	
			506,144.78	1144.78	(3855.22)		348.9	(1175.1)	
BOULDER, 1907	"	"	1,575,865.01	865.01	(4134.99)		263.7	(1260.3)	
COOK (USN) 1954	" 272	"	498,825.18	3825.18	(1174.82)		1165.9	(358.1)	
			1,567,848.96	2848.96	(2151.04)		868.4	(655.6)	
			491,001.91	1001.91	(3998.09)		305.4	(1218.6)	
JOLLYAY, 1954	" 270	"	1,575,911.46	911.46	(4088.54)		277.8	(1246.2)	
STONE, 1907	" 299	"	506,100.29	1100.29	(3899.71)		335.4	(1188.6)	
			1,575,797.74	797.74	(4202.26)		243.2	(1280.8)	
			498,495.46	3495.46	(1504.54)		1065.4	(458.6)	
UGLY, 1939 R.M. 1	Office Comp.	"	1,574,752.26	4752.26	(247.74)		1448.5	(75.5)	°

1 FT. = 3048006 METER
COMPUTED BY:J.L.H.
C.H.B.DATE 6-13-60
9-12-60CHECKED BY J.E.D.
J.L.H. - C.C.H.DATE 6-14-60
9-19-60

COMM. DC-57843

COMPILATION REPORT

Map Manuscript T-11589

Project Ph-5905

31. Delineation:

Except for a small area in the northeastern part of the manuscript which was beyond the limits of the Kelsh models, the compilation was accomplished by the Kelsh Instrument. In this area the compilation was done by graphic means using nine lens photographs.

Items 32 thru 34:

Refer to the Descriptive Report for T-11588 (1960).

35. Shoreline and Alongshore Features:

The mean high-water line and alongshore features were adequately field inspected and no difficulties were encountered.

Low-water and shoal lines shown on the manuscript should be fairly accurate since the single lens photography was made when the predicted tide was 0.2 ft. below M.L.L.W. It was not possible to continue the determination of these lines on adjoining map manuscripts to the north and east because the areas are covered by nine-lens photographs taken when the predicted tide was 8.7 ft. above M.L.L.W.

36. Offshore Details:

Rocks awash, dolphins and piling are features which have been compiled just offshore from the M.H.W.L.

37. Landmarks and Aids:

There are no landmarks.

Forms 567 are submitted for two fixed aids to navigation.

38. Control for Future Surveys:

None.

39. Junctions:


Satisfactory junctions were made with T-11585 on the north, T-11588 on the west, T-11590 on the east and T-11596 on the south. Refer to Item 35 relative to junctions of low-water and shoal lines to north and east.

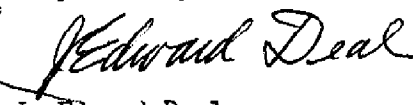
Items 40, 46 and 47:

Refer to the Descriptive Report for T-11588 (1960).

Approved:

Respectfully submitted:


Fred Natella, CAPT, C&GS
Portland District Officer


J. Edward Deal
Cartographer

49. Notes to the Hydrographer:

None.

T- 11589

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COMPILATION RECORD	COMPLETION DATE	REMARKS
4. Interior detail added Compilation complete	Sept. 15, 1961	

PHOTOGRAMMETRIC OFFICE REVIEW

T. 11589

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) X 7. Photo hydro stations None 8. Bench marks None 9. Plotting of sextant fixes None 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 X 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 X40. Carita C. 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

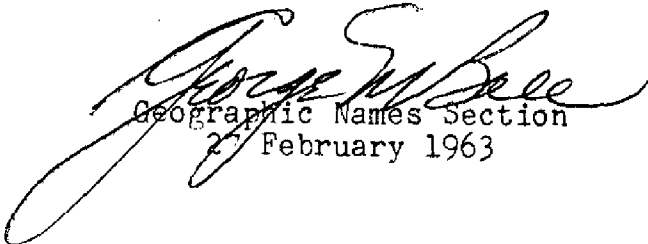
T-11589

48. Geographic Names:

Durualia Bay

Skarit Bay

Whidbey Island


Geographic Names Section
22 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:

Charles L. Lamm
Chief, Photogrammetric Branch

Chief, Nautical Chart Division

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

