

11627

Orig

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-11627

LOCALITY

State Washington

General locality Possession Sound

Locality Camano Head

1960✓

CHIEF OF PARTY

Lorne G. Taylor and Fred Natella

LIBRARY & ARCHIVES

DATE April 1964

USCOMM-OC 5087

11627

DESCRIPTIVE REPORT - DATA RECORD

T- 11627

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): GEDNEY NORTH 2, 1924 R.M. 2

Lat.: 48° 01' 16.529"

Long.: 122° 19' 21.765"

Adjusted
Unadjusted X

Plane Coordinates (IV):

State: Washington Zone: North

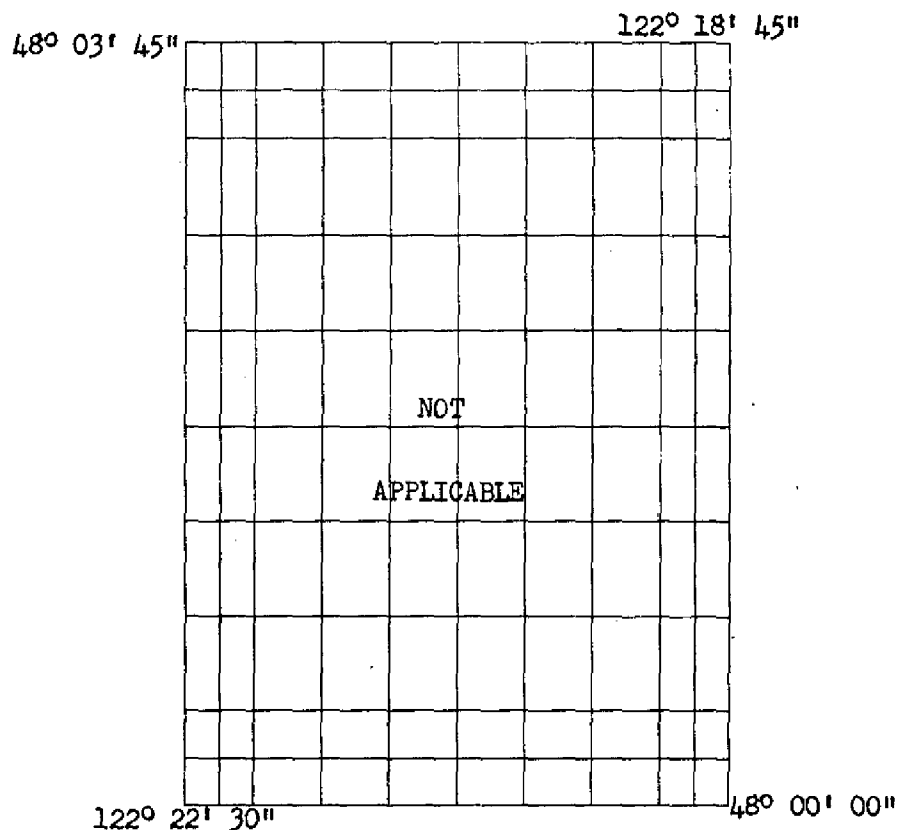
Y= 376,049.95

X= 1,635,531.87

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): L. F. Van Scoy, W. V. Hull, Date: June & Aug. 1960
R. B. Melby & J. D. Ulven

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): June & Aug. 1960 by field inspection and compilation by Kelsh Instrument and graphic methods.

Projection and Grids ruled by (IV): W. S. Date: 9-9-60

Projection and Grids checked by (IV): J. K. Date: 9-9-60

Control plotted by (III): L. L. Graves Date: 10-11-60

Control checked by (III): C. C. Harris Date: 10-11-60

Radial Plot or Stereoscopic Control extension by (III): W. A. Kuncis Date: July 1960

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

Manuscript delineated by (III): D. N. Williams, Scribing Date: 3-17-61
C. C. Harris, Stick-up 6-9-61

Photogrammetric Office Review by (III): L. L. Graves, Rough Draft Date: 12-14-60
J. E. Deal, Advance 9-12-61

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 Single lens "S" & "L"

Number	Date	PHOTOGRAPHS (III)		Scale	Stage of Tide
		Time			
60-S-2486	4-25-60	13:05		1:30,000	3.4' above M.L.L.W.
60-S-2794	4-27-60	09:30		"	1.7' " "
60-L-9511 & 9512	4-16-60	13:16		1:20,000	1.3' " "

Tide (III)

Reference Station: Seattle, Washington
Subordinate Station: Everett, Washington
Subordinate Station:

Ratio of Ranges	Mean Range	Diurnal Spring Range
	7.6	11.3
	7.4	11.1

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): 1.6
Shoreline (More than 200 meters to opposite shore) (III): 6.0
Shoreline (Less than 200 meters to opposite shore) (III): None
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 3 Recovered: 2 Identified: 2
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): 4

Remarks:

FIELD INSPECTION REPORT

Map Manuscript T-11627

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-11627

Project Ph-5905

Refer to Photogrammetric Plot Report, Stereoplanigraph Bridge,
Washington, Puget Sound, Whidbey and Camano Islands (1960).

Filed with Desc. Report T-11584

SCALE FACTOR None

1 FT. = 3048006 METER
COMPUTED BY: J. L. H. DATE 9-23-60
CHECKED BY: J. E. D. DATE 10-11-60
COMM. DC. 57843

COMPILATION REPORT

Map Manuscript T-11627

Project Ph-5905

31. Delineation:

The Kelsh Instrument and graphic methods were used to compile the planimetry.

Refer to correspondence attached: Letter dated 11-21-60 to The Chief, Photogrammetry Division, Subject: Compilation of Gedney Island, Ph-5905, Puget Sound, Washington, Manuscripts T-11627 and T-11628. Letter 6311/AKH/lrw dated 6 December 1960, same subject.

32. Control:

Control was adequate within the limits described in the attached correspondence.

33. Supplemental Data:

None.

34. Contours and Drainage:

Contours are not applicable.

Drainage was not field inspected. A short piece of intermittent drainage was delineated by the compiler assisted by reference to the U.S.G.S. 7½ minute Tulalip, Washington, quadrangle.

35. Shoreline and Alongshore Details:

The mean high-water line and alongshore features were adequately field inspected.

Foreshore areas visible on the photographs were detailed. These represent the approximate limits of shoreline at 1.7 ft. above M.L.L.W. for Whidbey Island; 1.3 ft. above M.L.L.W. for Gedney Island and 3.4 ft. above M.L.L.W. for Camano Island. Areas adjacent to the foreshore which upon examination of photography appeared to be shallow were detailed.

36. Offshore Details:

None.

37. Landmarks and Aids:

Form 567 is submitted for one aid to navigation.

There are no landmarks.

38. Control for Future Surveys:

Four objects were located for use as photo-hydro stations. They are listed under Item 49, Notes to the Hydrographer.

39. Junctions:

Satisfactory junctions were made with T-11621 on the north, T-11626 on the west, T-11628 on the east and T-11634 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, Tulalip, Washington, Scale 1:24,000, published 1956.

47. Comparison with Nautical Charts:

Comparison was made with nautical chart No. 6450, 11th Edition, revised 9-5-60, hand corrected thru 4-15-61, Scale 1:80,000 at Lat. 47° 57'.

Comparison was made with nautical chart No. 6448, 7th Edition, 3-12-35, revised 10-5-59, Scale 1:40,000.

Items to be Applied to Nautical Charts Immediately.



None.

Items to be Carried Forward.

None.

Approved:

Respectfully submitted:


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

The Chief, Photogrammetry Division

11-21-60

Photogrammetric Unit
Portland District Office
405 Custom House
Portland 9, Oregon

Compilation of Gedney Island, Project Ph-5905, Puget Sound, Washington
Manuscripts T-11627 & T-11628

Photographs available for the subject matter were infra-red contact prints, Scale 1:20,000, Nos. 60 L 9510 thru 9512. Horizontal control available consisted of the identified sub-stations for triangulation stations GEDNEY NORTH 2, 1924 R.M. 2 and GEDNEY EAST 2, 1924. One pass point, No. 9403, was located at the northwest corner of Gedney Island in the stereoplanigraph bridge for Strip 7. The principal point of photograph 60 L 9511 is located at about the middle of Gedney Island and the planimetric details of the island are readily discernible on this photograph.

Compilation was accomplished by pricking all horizontal control on the contact print of 60 L 9511 and then transferring to it stereoscopically all field inspection of the island. The contact print was placed in the vertical projector for enlargement and a perfect orientation to the plotted control was obtained because all three control points were at about the same elevation. The planimetric detail which consists principally of alongshore details was taken on the manuscripts. The interior of the island is covered by trees and there are no roads. Numerous identified rocks along the shoreline which have been compiled may be used for future photo-hydro signals. It is suggested that a ratio print of 60 L 9511 at an enlargement of 1.91 be furnished for future hydrographic work from which additional objects along the shoreline may be transferred to the manuscripts.

In lieu of the compilation method described a radial plot may be run for the area of this island using the three photographs 60 L 9510 thru 9512. The restrictions obtained from this plot except for a small portion of the island would be from two radials only.

Should it be deemed advisable to run a radial plot and make a graphic compilation of this island please furnish office prints of photographs 60 L 9510 thru 9512 at a ratio of 1.91.

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

JED/lpe

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
WASHINGTON 25, D.C.

IN REPLY, PLEASE ADDRESS THE
DIRECTOR, COAST AND GEODETIC
SURVEY, AND NOT THE NUMBER
OF THIS LETTER, AND REFER TO

NO.

11/ARH/114

11/ARH/114

To: Portland District Office
Photogrammetric Office
Coast and Geodetic Survey
405 Custom House
Portland 9, Oregon

Subject: Compilation of Godney Island - Project
PH-5905 - Puget Sound, Washington

This is in reply to your letter of 21 November
1960 in which you describe the compilation of Godney
Island.

The method used by your office should place the
planimetry within the required manuscript accuracy.

The three-photograph radial plot would not in-
crease the accuracy and is not recommended.

L. S. Swenson
L. S. Swenson, Chief
Photogrammetry Division

49. Notes to the Hydrographer:

Four objects were located for use as photo-hydro stations:

Number	Description	Field Photo No.
2701	Northeast corner bulkhead	60-S-2795
2702	Dolphin bares 3 ft. M.H.W.	60-L-9512 (contact)
2703	Most westerly of two circular dark areas on photograph	60-L-9510 (contact)
2704	Rock bares 7 ft. M.L.L.W.	60-L-9510 (contact)

T- 11627

COMPILATION RECORD	COMPLETION DATE	REMARKS
1. Alongshore area for hydro.	Mar. 30, 1961	
4. Interior details added Compilation complete,	Sept. 12, 1961	

PHOTOGRAMMETRIC OFFICE REVIEW

T-11627

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) None 7. Photo hydro stations X 8. Bench marks None 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 None 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. _____

Reviewer

J. Edward Deal

Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

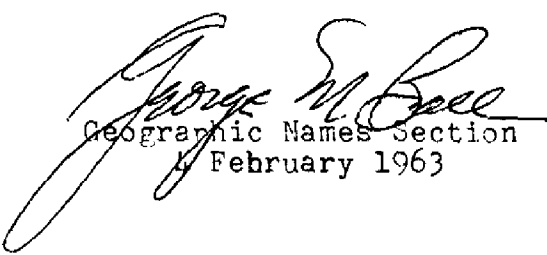
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler_____
Supervisor

43. Remarks:

48. Geographic Names:

| Camano Head
Camano Island
Gedney Island
Port Susan
Possession Sound
Sandy Point
Saratoga Passage
Whidbey Island


Geographic Names Section
February 1963

Review Report
Shoreline Surveys
T-11623 through T-11630
January 1964

61. General Statement

There are eight (8) 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-1388a	1:10,000	1872
T-1681	1:20,000	1885
T-1682	1:20,000	1885
T-1994	1:20,000	1888

Cultural and shoreline changes have been continuous with extensive cultural changes in the urban areas. These maps are supersede the above surveys for common area for nautical charting.

63. Comparison with Maps of Other Agencies

Freeland, Washington	1:24,000	1953
Langley, Washington	1:24,000	1956
Tulalip, Washington	1:24,000	1956
Marysville, Washington	1:24,000	1956

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

64. Comparison with Contemporary Hydrographic Surveys

H-8609	1:10,000	1960
H-8699	1:10,000	1961
H-8753	1:10,000	1963

Shoreline and control of subject surveys was furnished prior to hydrography and no changes of importance have been made. There is good agreement.

65. Comparison with Nautical Charts

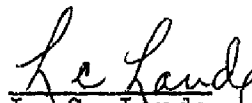
6448	1:40,000	1935 revised to 1962
6450	1:80,000	1961 revised to 1963
1845-0. 1845c	1:80,000	1963

There are only minor differences between the charts and the subject 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, Photogrammetry Division 4/27/64

