

# 11585

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-11585

### LOCALITY

State Washington

General locality Skagit Bay - Whidbey Island

Locality Similk Bay

-1959-60

### CHIEF OF PARTY

Lorne G. Taylor & Fred Natella

### LIBRARY & ARCHIVES

DATE September 1964

USCOMM-DC 5087

# 11585

DESCRIPTIVE REPORT - DATA RECORD

T - 11585

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): 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): 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): DEWEY, 1939

Lat.: 48° 24' 49.582"

Long.: 122° 36' 49.781"

Adjusted X  
Unadjusted

Plane Coordinates (IV):

State: Washington Zone: North

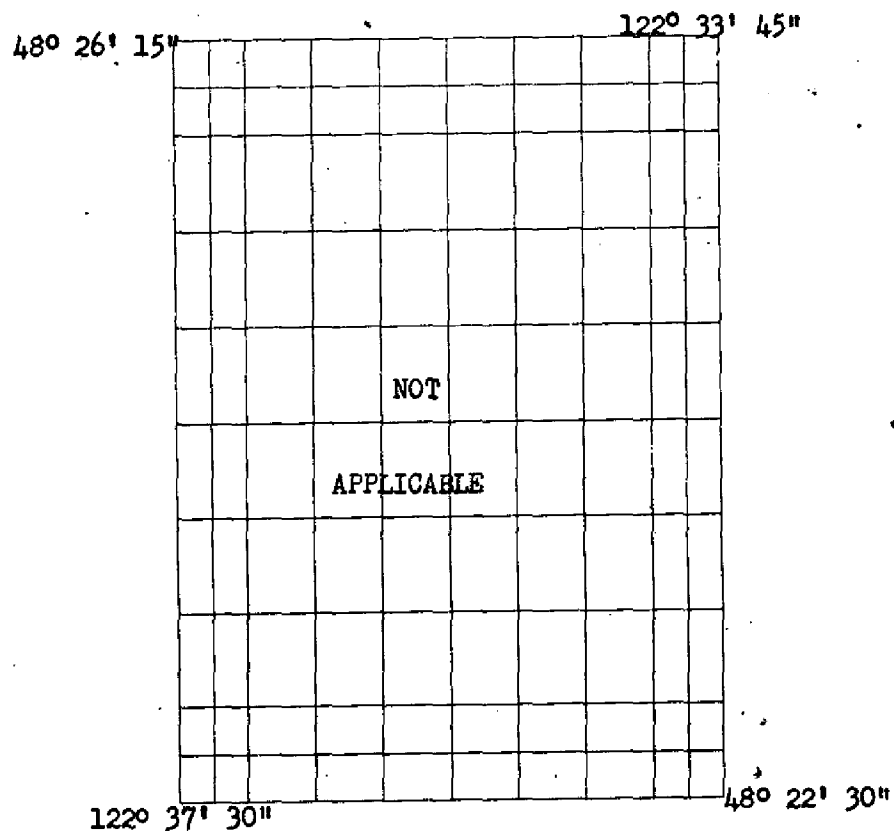
Y= 520,710.53

X= 1,567,616.83

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): W. V. Hull 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): 6-23-60 by field inspection, refinement by stereoscopic examination in office and compilation by graphic methods.

Projection and Grids ruled by (IV): Souders Date:

Projection and Grids checked by (IV): J. Keefer Date: 8-18-60

Control plotted by (III): C. C. Harris Date: 9-26-60

Control checked by (III): L. L. Graves Date: 10-6-60

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

Planimetry Date:

Stereoscopic Instrument compilation (III): Contours Date:

Manuscript delineated by (III):  
C. H. Bishop, Rough Draft Date: 6-23-61  
C. H. Bishop, Scribing Date: 9-12-61  
C. C. Harris, Stick-up Date: 11-7-61

Photogrammetric Office Review by (III):  
C. C. Harris, Rough Draft Date: 7-11-61  
J. E. Deal, Advance Date: 11-15-61

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): C&GS Nine lens - focal length 8.25 inches.

| Number           | Date   | Time  | Scale    | Stage of Tide                         |
|------------------|--------|-------|----------|---------------------------------------|
| 60003            | 9-9-59 | 08:54 | 1:10,000 | 7.7' above M.L.L.W.<br>(Ala Spit)     |
|                  |        |       |          | 7.7' above M.L.L.W.<br>(Yokeko Point) |
| 60218 &<br>60219 | "      | 11:12 | "        | 8.5' above M.L.L.W.<br>(Ala Spit)     |
|                  |        |       |          | 9.2' above M.L.L.W.<br>(Yokeko Point) |

Tide (III)

Reference Station: Seattle, Washington  
Subordinate Station: Ala Spit, Washington  
Subordinate Station: Yokeko Point, Deception Pass

| Ratio of<br>Ranges | Mean<br>Range | Diurnal         |
|--------------------|---------------|-----------------|
|                    |               | Spring<br>Range |
|                    | 7.6           | 11.3            |
|                    | 6.9           | 10.5            |
|                    | 7.3           | 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): 6  
Shoreline (More than 200 meters to opposite shore) (III): 10  
Shoreline (Less than 200 meters to opposite shore) (III): None  
Control Leveling - Miles (II):  
Number of Triangulation Stations searched for (II): 27 Recovered: 16 Identified: 4  
Number of BMs searched for (II): 16 Recovered: 16 Identified: 5\*  
Number of Recoverable Photo Stations established (III): None  
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

\* All Tidal Bench Marks.  
Only one was shown in each of the three groups.

**FIELD INSPECTION REPORT**

Map Manuscript T-11585

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-11585

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).

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

MAP T-11585 PROJECT NO. Ph-5905 SCALE OF MAP 1:10,000 SCALE FACTOR None

| STATION              | SOURCE OF INFORMATION (INDEX) | DATUM        | LATITUDE OR $\mu$ -COORDINATE<br>LONGITUDE OR $x$ -COORDINATE | DISTANCE FROM GRID IN FEET,<br>OR PROJECTION LINE IN METERS |           | DATUM<br>CORRECTION | N.A. 1927 - DATUM<br>DISTANCE FROM GRID OR PROJECTION LINE<br>IN METERS |          | FACTOR DISTANCE<br>FROM GRID OR PROJECTION LINE<br>IN METERS |
|----------------------|-------------------------------|--------------|---|---|-----------|---------------------|---|----------|--|
|                      |                               |              |   | FORWARD   | (BACK)    |                     | FORWARD   | (BACK)   |  |
| ALA 2, 1907          | Wash.N.<br>Pg.299             | N.A.<br>1927 | 512,632.66<br>1,574,531.02                                    | 2632.66   | (2367.34) |                     | 802.4   | ( 721.6) |  |
| DEWEY, 1939          | "<br>Pg.297                   | "            | 520,710.53<br>1,567,616.83                                    | 710.53  | (4289.47) |                     | 216.6   | (1307.4) |  |
| GIB, 1907            | "<br>Pg.298                   | "            | 528,029.87<br>1,576,721.38                                    | 3029.87   | (1970.13) |                     | 923.5   | ( 600.5) |  |
| KIKET, 1907          | "<br>Pg.299                   | "            | 521,848.55<br>1,577,509.36                                    | 1848.55   | (3151.45) |                     | 563.4   | ( 960.6) |  |
| PILE (NPS) 1934      | "<br>Pg.273                   | "            | 516,257.63<br>1,565,782.69                                    | 1257.63   | (3742.37) |                     | 383.3   | (1140.7) |  |
| POINT, 1907          | "<br>Pg.294                   | "            | 517,639.63<br>1,571,959.79                                    | 2639.63   | (2360.37) |                     | 804.6   | ( 719.4) |  |
| RIDGE 2, 1934        | "<br>Pg.273                   | "            | 527,549.40<br>1,571,410.07                                    | 2549.40   | (2450.60) |                     | 777.1   | ( 746.9) |  |
| SUB 2, 1934          | "<br>Pg.294                   | "            | 522,619.50<br>1,578,371.01                                    | 2619.50   | (2380.50) |                     | 798.4   | ( 725.6) |  |
| KIK, 1934            | "<br>Pg.293                   | "            | 521,993.08<br>1,577,756.35                                    | 3371.01   | (1628.99) |                     | 1027.5  | ( 496.5) |  |
| "                    | Office<br>Comp.               | "            | 521,848.46<br>1,577,764.47                                    | 1993.08   | (3006.92) |                     | 607.5   | ( 916.5) |  |
| Sub Station A        | "                             | "            | 521,763.87<br>1,577,662.40                                    | 2756.35   | (2243.65) |                     | 840.1   | ( 683.9) |  |
| Sub Station B        | "                             | "            | 521,763.87<br>1,577,662.40                                    | 1848.46   | (3151.54) |                     | 563.4   | ( 960.6) |  |
| WEST HOPE (1907)1960 | "                             | "            | 514,097.81<br>1,576,468.98                                    | 2764.47   | (2235.53) |                     | 842.6   | ( 681.4) | 9.   |
|                      |                               |              |   | 1763.87   | (3236.13) |                     | 537.6   | ( 986.4) |  |
|                      |                               |              |   | 2662.40   | (2337.60) |                     | 811.5   | ( 712.5) |  |
|                      |                               |              |   | 4097.81   | ( 902.19) |                     | 1249.0  | ( 275.0) |  |
|                      |                               |              |   | 1468.98   | (3531.02) |                     | 447.7   | (1076.3) |  |



None

|                    |  |
|--------------------|--|
| ET = 3048006 METER |  |
| COMM-DC-57843      |  |

## COMPILATION REPORT

Map Manuscript T-11585

Project Ph-5905

31. Delineation:

Graphic methods were used to compile the planimetry. Photography was adequate except for delineating the shoreline in certain areas. Refer to Item 35, Shoreline and Alongshore Features.

32. Control:

The horizontal control was adequate.

33. Supplemental Data:

Map of Island County, Washington, compiled by Island County Engineers, March 1958, Scale 1" = 1 mile.

Map of Deception Pass State Park, Base Map 15-1, Scale 1" = 1000', by State Park and Recreation Commission, Olympia, Washington, 1956.

34. Contours and Drainage:

Drainage was not field inspected. The drainage from Lake Campbell was delineated stereoscopically with reference to the U.S.G.S. 15 minute quadrangle Deception Pass, Washington.

35. Shoreline and Alongshore Details:

These features were adequately field inspected. Because of shadows on the photographs the north shorelines of Kiket Island, Skagit Island, Hope Island and Whidbey Island were compiled from sextant fix locations furnished by the field unit. These are entered on the reverse side of the field photographs.

All photography was taken near high water and the limits of foreshore areas have not been shown. The character of the foreshore has been indicated by numerous notes along the shoreline.

Kelp areas that were field inspected have been shown.

Shoal areas were not visible on the photography.

36. Offshore Details:

Numerous piling and rocks are just offshore from the mean high-water line. The elevation on the rocks was transposed to the manuscript datum by the compiler from data furnished by the field inspector.

37. Landmarks and Aids:

Form 567 is submitted showing the location of Hope Island Light by traverse in 1960.

38. Control for Future Surveys:

None.

39. Junctions:

Satisfactory junctions were made with T-11584 on the west, T-11586 on the east and T-11589 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.

46. Comparison with Existing Maps:

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

47. Comparison with Nautical Charts:

Comparison was made with Nautical Chart No. 6376, Scale 1:25,000, 1st Edition May 5, 1945, Revised June 27, 1960.

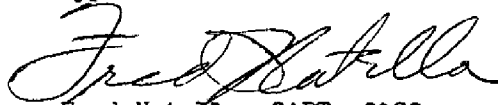
Items to be Applied to Nautical Charts Immediately:

None.

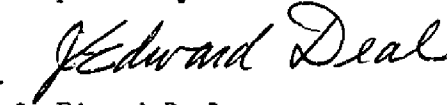
Items to be Carried Forward:

None.

Approved:

  
Fred Natella, CAPT, C&GS  
Portland District Officer

Respectfully submitted:

  
J. Edward Deal  
Cartographer

49. Notes to the Hydrographer:

None.

T-115 85

| COMPILATION RECORD                                 | COMPLETION DATE | REMARKS |
|--|-----------------|---------|
|  |                 |         |
|  |                 |         |
|  |                 |         |
| 4. Interior Details Added<br>Compilation Complete. | 11-16-61        |         |
|  |                 |         |

## PHOTOGRAMMETRIC OFFICE REVIEW

T-11585

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 ☒  
9. Plotting of sextant fixes ☒ 10. Photogrammetric plot report ☒ 11. Detail points ☒

## ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ☒ 13. Low-water line ~~none~~ 14. Rocks, shoals, etc. ☒ 15. Bridges ~~none~~ 16. Aids to navigation ☒ 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 ☒ 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. Leanita L. Harris  
ReviewerEdward 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:

Ala Snit

Cornet Bay

Decertion Pass

Dewey

Fidalgo Island

Flagstaff Point

Gibraltar

Hope Island

Hoypus Hill

Hoypus Point

Kiket Island

Lake Campbell

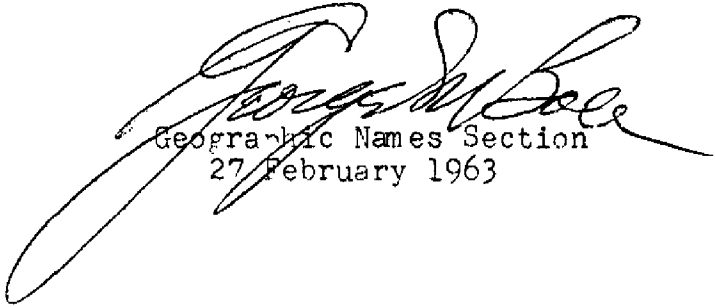
Similk Bay

Skagit Bay

Skagit Island

Whidbey Island

Yokeko Point

  
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:

Charles Shuman  
Chief, Photogrammetric Branch

Chief, Nautical Chart Division

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

