Diag. Cht. No. 6380.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

| Type of Survey Topographic Field No. Ph=26(47) Office No. T=5589 N&S. |
|---|
| LOCALITY |
| State Washington |
| General locality Bellingham |
| Locality Waldron Island |
| |
| 194 9-54 |
| CHIEF OF PARTY C.W.Clark, Chief of Field Party H.A.Paton, Baltimore Photo. Office |
| LIBRARY & ARCHIVES |
| DATE July, 1959 |

B-1870-1 (1)

DATA RECORD

T -5589

Project No. (II): Ph-26(47)

Quadrangle Name (IV):

Field Office (II): Friday Harbor, Washington

Chief of Party: Lt. Comdr. Charles W. Clark

Photogrammetric Office (III): Baltimore, Maryland.

Officer-in-Charge: Hubert A. Paton

Instructions dated (II) (III): 31 August 1949

24 October 1949

Copy filed in Division of Photogrammetry (IV)

Letter No. 73-rb, dated 17 March 1950

Office Files

Method of Compilation (III): Air-Photographic-Multiplex

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

1:10,000

Scale Factor (III): 1.00

Date received in Washington Office (IVIIV 28 1961) Date reported to Nautical Chart Branch (IV): DEC 4 - 1961

Applied to Chart No.

Date:

Date registered (IV): 9/23/58

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MSL

Mean sea level except as follows: Elevations shown as (25) refer to mean high water Elevations shown as $(\underline{5})$ refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III):

SPLICE, 1894

Lat.48° 40' 04.965"

Long.: 123° 04' 12.995"

Adjusted patachineted

Plane Coordinates (IV):

State: Washington

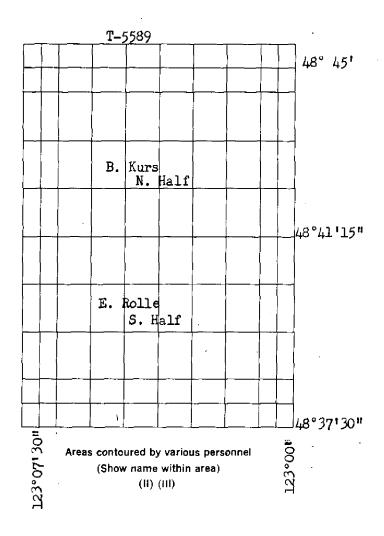
Zone:

Y=

North

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.



£.,-

Field Inspection by (II): J.C. Lajoye & J.H. Winniford

Date: 12 September 1950

Planetable contouring by (II):

Date:

Completion Surveys by (II): R-H. Skelton II, Chas. H. Bishop

1952, Date: 1953&1954

Mean High Water Location (III) (State date and method of location):

Same as date of photography and date of field survey. (Refer to item 35 of this report)

Projection and Grids ruled by (IV): T.L.J.

Date:July 1950

Projection and Grids checked by (IV): H.D.W.

Date:July 1950

Control plotted by (III): B. Kurs

Date: Feb. 1951

Control checked by (III):

B. A. Dew

Date: Feb. 1951

Radial Plot or Stereoscopic

Control extension by (III):

No control extension needed

Date:

Planimetry B. Kurs and E. Rolle

Date:

Stereoscopic Instrument compilation (III):

Contours E. Rolle and B. Kurs

March, May 1951

Manuscript delineated by (III): B. A. Dew and B. Wilson
Assembly and delineation of Public Land Lines by
D. M. Brant

Date: May, June 1951

Photogrammetric Office Review by (III): A. C. Rauck, Jr.

Date: June 1951

Elevations on Manuscript

checked by (II) (III):

A. C. Rauck, Jr.

Date:

June 1951

Camera (kind or source) (III): USC&GS Type O. Focal length 152.37 mm. T-5589

| | Number | Date | PHOTOGRAPHS (III) Time | Scale | Stage of Tide |
|---|---------------------|--------|---------------------------|----------|----------------|
| | 49-0-1021 thru 1023 | 6-4-49 | 1018 | 1:24,000 | 5.3 above MLLW |
|) | 49-0-1080 thru 1083 | II | 1103 | 1:24,000 | 5.0 above MLLW |
| | 49-0-1118 thru 1123 | II | 1134 | 1:24,000 | 4.8 above MLLW |
| | 49-0-1084 thru 1091 | tt ' | 1110 | 1:24,000 | 5.1 above MLLW |
| | 49-0-1092 thru 1099 | H | 1119 | 1:24,000 | 5.1 above MLLW |

Tide (III)

Tide from predicted tables

Reference Station: PORT TOWNSEND, WASH.

Subordinate Station: TURN PT., STUART ISLAND Subordinate Station:

ALDEN PT., PATOS ISLAND * MHW T' shove MLLW - based on tidal data for area.

Washington Office Review by (IV): Everett H. Ramey

Ratio of | Mean | Spring Ranges Range Range 8.3

Date: 22 July 1955

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III):

Shoreline (More than 200 meters to opposite shore) (III):

19

Shoreline (Less than 200 meters to opposite shore) (III):

None

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Recovered:

22

0

Identified:

Number of BMs searched for (II):

Recovered:

Identified:

Number of Recoverable Photo Stations established (III):

___ 2

Number of Temporary Photo Hydro Stations established (III):

Remarks:

Although SANDY, 1940 was not recovered, Reference Marks 1 and 2 were recovered in good condition. A substitute station was established for SANDY R.M. 1, 1940 and Control Identification Card furnished. This station is not included among those recovered.

Summary to Accompany Topographic Map T-5589

Topographic map T-5589 is one of thirteen similar maps of Project Ph-26. It covers Waldrop Island and portions of Orcas Island and Spieden Island within San Juan County, Washington.

Project Ph-26 is a stereoscopic mapping project. Field work in advance of compilation included shoreline and interior inspection, the establishment of some additional control, and the investigation of civil boundaries, land lines and geographic names.

Map T-5589 was compiled in two parts at a scale of 1:10000, using 1949 single-lens photographs. It was completely field-edited. After the addition of hydrographic information, the map will be published as a standard 72-minute topographic quadrangle.

Items to be registered under T-5589 will be a descriptive report, a descriptive description as a scale of 1:10000, and a cloth-backed color print of the published map.

| STATION STREET Continue of a consolidation of | MAP T- 5589 | | PROJEC | PROJECT NO. Ph-26(47) | h-26(| (4) | SCALE OF MAP 1:10,000 | MAP 1:1 | 000,00 | SCALE FACTOR 1.000 | OR 1.000 |
|--|------------------------|-------------------------------------|--------------|-----------------------|----------|-----------|---|---|--------------------|--------------------|-----------------|
| 1894 1894 1895 1896 1892 | STATION | SOURCE OF INFORMATION (INDEX) | | LATITUDE | E OR x-6 | OORDINATE | DISTANCE FROM OR PROJECTION I FORWARD | I GRID IN FEET. LINE IN METERS (BACK) | DATUM | | R O |
| 1894 C-5649 48 38 43.837 1354.1 (499.3) | GULL, 1894 - 186 | | N.A. 1927 | | | 3.974 | 122.8 | (1730.6) | | | |
| 894 | 1894 | G-5649 P. 693 | = | | 100 | 3.837 | 1354.1 | (499.3) | | | |
| 1894 G.P. 48 40 33.664 1039.9 (813.5) Fe.of map im. 5 free | . DRY, 1894 | G-5503 Pg. 627 | = | | | 2.738 | 84.6 | (1768.8) | | • | |
| 2, 1942 G-5649 | : DISNEY,,1940 | G-5649 Pg.705 | = | | | 3.664 | 1039.9 | | | | |
| CACTUS 2, 1942 | 1894 | | S. | | | 5.91 | 567.4 | (1286.0) | | of map lim | |
| CACTUS, , 1894 " " 48 38 53.563 1654,6 (198.8) Not plotted. Approx. 1.4 ml. SW of 26.443 1654,6 (198.8) Not plotted. Approx. 1.4 ml. SW of 26.443 1654,6 (198.8) Not plotted. Approx. 1.4 ml. SW of 26.443 1654,6 (198.8) Not plotted. Approx. 1.4 ml. SW of 26.413 148 43 47.594 1470.2 (383.2) 1470.2 (383.2) 148 5.40 1523 00 46.850 957.4 (268.7) 148 5.40 147.858 1470.2 (383.2) 148 5.40 148 41 1823.5 (29.9) | CACTUS 2, | G-5649 P. 704 | = | | | 3.598 | 1655.6 | (197.8) | | | |
| BARE ISLAND 2, G-5503 ", 48 43 47.594 1470.2 (383.2) BARE, 1942 G-5503 48 43 47.858 1478.3 (375.1) BARE, 1942 G-5503 48 41 123 00 47.303 966.6 (259.5) SANDY R.M. 1,1940 Office 48 41 123 04 222.6 (1004.3) SKIPJACK ISLAND COMP. 123 04 43 58.34 222.6 (1004.3) SKIPJACK ISLAND COMP. 123 04 6.850 956.6 (259.5) SKIPJACK ISLAND COMP. 123 04 6.850 966.6 (259.5) SKIPJACK ISLAND COMP. 123 04 7.303 966.6 (259.5) SKIPJACK ISLAND COMP. 123 04 7.303 966.6 (259.5) SKIPJACK ISLAND COMP. 125 04 47.303 966.6 (259.5) SKIPJACK ISLAND COMP. 126 04 41.303 966.6 (259.5) SKIPJACK ISLAND COMP. 127 04 6.850 96.6 (259.5) SKIPJACK ISLAND COMP. 128 04 41.303 966.6 (259.5) SKIPJACK I | | = | = | | | 3.563 | 1654.6 | (198.8) | 1 | Approx. 1.4 | SW. |
| BARE, 1942 P. 627 R. 123 QQ 47.303 966.6 (259.5) SANDY R.M. 1,1940 Office 48 41 123 QQ 47.303 966.6 (259.5) SKIPJACK ISLAND Comp Comp Comp 123 QQ 47.303 966.6 (259.5) 1823.5 (29.9) SKIPJACK ISLAND Comp Comp 123 QQ 47.303 SKIPJACK ISLAND Comp RPOsition determined by datum differences. **Position determined by datum differences.** **Position determined by Ack. Heywood Comp 11/50 CHECKED BY. A.K. Heywood A.K. Heywood A.K. Heywood CHECKED BY. CHEC | BARE ISLAND 1891 | G-5503 P. 632 | = | 7 | | 7.594 | 1470.2 | | | | |
| SANDY R.M. 1,1940 Office " | BARE, | G-5503 P. 627 | = | , | | 7.858 | 1478.3 | | | | |
| SKIPJACK ISLAND Office " 48 43 58.34 1802.3 (52.5) LIGHT, 1950 68 p.1293 *Position determined by datum differences. *Position determined by datum differences. FT. = 3048006 WEIFER | SANDY R.M. | | = | | | | 1823.5 | (29.9) | | | |
| *Position determined by datum differences. H.P. Eichert DATE 11/50 CHECKED BY. A.K. Heywood CHECKED BY. A.K. Heywood DATE | | Office Comp | = | | | 8.34 | 922.6 | (903.4) | | | 1 |
| H.P. Eichert DATE 11/50 CHECKED BY: A.K. Heywood DATE DATE DATE | | | 0.0 | *Positio | | | datum di | erences. | K | | |
| | COMPUTED BY: H.P. E.E. | chert | My DA | | 0 | | CHEC | KED BY. | heywood heywood | | 12/50 M·2388-12 |

| MAP T5589 | | PROJEC | PROJECT NO. Ph-26(49) | -26(49) | SCALE OI | OF MAP 1:10,000 | 000, | SCALE FACTOR 1.000 | JR 1.000 |
|---------------------------|-------------------------------------|----------------|-----------------------|--|--|---|--------------------|--|--|
| STATION | SOURCE OF INFORMATION (INDEX) | DATUM | LATITUDE LONGITUDE | LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE | DISTANCE FRO OR PROJECTION FORWARD | DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK) | DATUM | N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK) | FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK) |
| .WEED, 1894 - | G-5649 P.705 | N.A. | 48 38 123 04 | 52.839 . | 1632.2 | (221.2) (495.5) | | | |
| ·SPLICE, 1894 | G-5649 P-693 | | 48 40 123 04 | 04.965. | 153.4 | (1700.0) | | | |
| .SPIKE, 1894 | G-5649 P-705 | = | 48 38 123 00 | 29.277 59.224 | 904.4 | (949.0). | | | |
| SPIEDEN, 1894 | G-5649 P-693 | = | 48 38 123 06 | 01.549 . 25.338 . | 47.8 | (1805.6). | | | |
| ;SMAIL, 1894 | G-5649 P.705 | £ | 48 40 123 01 | 54.960 . 10.758 . | 1697.7 | (155.7) | | | |
| SIANT, 1894 | G-5649. | 2 | 4 8 40 | 29.622 59.242 | 915.0 | (938.4) | Outside | project limits | |
| .SKIPPY, 1940 | G-5455 P.607 | = | 48 43 | 55.980 | 1729.0 | (124.2) | | | |
| ;SKIPJACK, 1894 | G.P. P.29 | U.S. Stand. | 1 1 0 | 59.024 | 1823.2 | (30.2). | -30.7 m | 1792.5 (60.9) 329.5 [*] (896.4) | 1927 NA Dotum. # 5282 P 1893 811. |
| ,ROUND, 1894 | G-5649 P.705 | N.A. 1927 | 48 42 123 00 | 15.555 | 480.5 | (1372.9). | | | |
| PASTURE, 1894 | G-5649 P702 | = | 148 37 123 07 | 59,902 | 1850.4 | (3.0). | | | |
| ,LIME, 1940 | G-5649 P.693 | 6 | 48 39 123 00 | 17.792 | 549.6 | (1303.8). | | | -8- |
| ;HAMMOND 3, 1940 | G-5503 P-632 | = \ | 48 43 123 00 | 21.253 | 656.5 658.8 | (1196.9) (567.5) | | | |
| COMPUTED BY. H.P. Elchert | ichert | 10 hr | DATE 11/50 | 1/50 | CHE | CHECKED BY. A.K. | Herwood Herwood | DATE 12/50 | M-2368.12 |

COMPILATION REPORT T-5589

Field Inspection Report and Photogrammetric Plot Report

These will be found bound with the descriptive report for Survey No. T-5588.

31. DELINEATION

Refer to item 31 of compilation report for Survey No. 5588.

The parallax solution in model 49-0-1087-88 was weak due to the large expanse of water area. However, this was attempted and the location of White Rock was plotted from the model. Its location is very doubtful.

32. CONTROL

Refer to Photogrammetric Plot Report and item 3 of the field inspection report.

33. SUPPLEMENTAL DATA

Land Plats -

- 1 Township No. 36, North, Range No. 3 West, Willamette Meridian, Washington, dated December 30, 1874.
- 2 Township No. 37 North, Range No. 2 West, Willamette Meridian, Washington, dated December 30, 1874 and June 28,1878.
- 2 Township No. 37 North, Range No. 3, West, Willamette Meridian, Washington, dated December 30, 1874 and June 28, 1878.
- 1 Enlarged copy of section lines of Township No. 36, North, Range
 No. 3 West, Willamette Meridian, Washington.

For a description of how these data were used, refer to item 41, Boundaries of descriptive report for Survey No. T-5584.

34. CONTOURS AND DRAINAGE

In multiplex delineation several models were difficult to contour due to poor photography and/or heavy timber areas. This is particularly true in model 49-0-1082-83, 49-0-1087-88, and 49-0-1022-23.

In general, diapositives were fair to good.

35. SHORELINE AND ALONGSHORE DETAILS

In wooded shoreline areas, where identification was omitted by the field inspection party, the position of the mean high water line was stereoscopically delineated. These areas are believed to be correct.

No low water lines are shown nor were any indicated by the field party.

In the Sandy Point area and the north shore of Waldron Island between Fishery Point and Point Hammond, the mean high water line was located by the field inspection party by means of reference measurements from bushes, barns, fences, and grass lines.

36. OFFSHORE DETAILS

Rock data was partially incomplete. Where adequate rock data was Additional given, leaders or arrows to designate their location were omitted. Also work doze what may be rock ledge around some of the small islands, was not noted by field or described on the field inspection photographs.

Offshore details, which are doubtful or incomplete are referred to the hydrographer by notations on the manuscript.

37. LANDMARKS AND AIDS

One fixed aid to navigation lies within this quadrangle. It is Skipjack Island Light, 1950, a triangulation station. This is in agreement with the field inspection report.

* Form 567 filed as part of Chart Letter L 848(1950)

38. CONTROL FOR FUTURE SURVEYS

Refer to item 11 of the field inspection report. Forms 524 are submitted with this report for two recoverable topographic stations:

NASH, 1950 DOCK, 1950 Reported destroyed 1954 SHE

The position of these stations have been plotted by multiplex. They are also included under "49 - Notes for the Hydrographer".

39. JUNCTIONS

To the north are the waters of Boundary Pass.

To the east is the limit of this project and no contemporary survey.

Junctions are complete to the south and west with surveys Nos. T-5591 and T-5588, respectively.

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to item 34, Contours and Drainage, of this report.

41. PUBLIC LAND LINES AND BOUNDARIES

The International Boundary United States-Canada, lies in the northwest corner of this survey. It is the only boundary shown on the manuscript, other than public land lines.

Refer to item 10 of the field inspection report, and item 41 Boundaries, of descriptive report for Survey T-5584, concerning public land line data.

**Adiscusses compilation procedure, The survey to be a survey to be

42. LANDING FIELDS AND AERONAUTICAL AIDS

On the east shore of Waldron Island, between Point Hammond and Mail Bay, is a private landing field. There are no aeronautical aids within this survey. A Another landing field (w. side Waldron Id.) located by the field editor Size 46. COMPARISON WITH EXISTING MAPS

There is no quadrangle available to the Baltimore Photogrammetric Office for comparison.

47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 6380, scale 1:80,000, published March 1947 (8th edition) (8-21-50)

See \$65

Items to be applied to nautical charts immediately:
None.

Itmes to be carried forward:
None.

Respectfully submitted

Albert C. Rauck, Jr.

Cartographer

Approved and forwarded

Hubert A. Paton Comdr., C&GS

Officer in Charge

PHOTOGRAMMETRIC OFFICE REVIEW

T- 5589

| | 1. Projection and grids $\frac{QCR}{QCR}$ 2. Title $\frac{QCR}{QCR}$ 3. Manuscript numbers $\frac{QCR}{QCR}$ 4. Manuscript size $\frac{QCR}{QCR}$ |
|----|---|
| | CONTROL STATIONS |
| | 5. Horizontal control stations of third-order or higher accuracy \mathcal{Q} \mathcal{C} \mathcal{R} 6. Recoverable horizontal stations of less |
| | than third-order accuracy (topographic stations) <u>GCR</u> 7. Photo hydro stations8. Bench marks <u>GC/7</u> |
| • | 9. Plotting of sextant fixes $9CR$ 10. Photogrammetric plot report $9CR$ 11. Detail points $9CR$ |
| | ALONGSHORE AREAS |
| | (Nautical Chart Data) |
| 1 | 2. Shoreline <u>ACR</u> 13. Low-water line <u>QCR</u> 14. Rocks, shoals, etc. <u>QCR</u> 15. Bridges <u>QCR</u> 16. Alds |
| t | o navigation \overline{QCR} 17. Landmarks \overline{QCR} 18. Other alongshore physical features \overline{QCR} 19. Other along – |
| S | hore cultural features <u>QCR</u> |
| | PHYSICAL FEATURES |
| | 20. Water features 2CR 21. Natural ground cover <u>9CR</u> 22. Planetable contours 23. Stereoscopic |
| iı | nstrument contours <u>QCR</u> 24. Contours in general <u>QCR</u> 25. Spot elevations <u>QCR</u> 26. Other physical |
| 1 | features <u>QCR</u> |
| | CULTURAL FEATURES |
| | 27. Roads <u>ACR</u> 28. Buildings <u>ACR</u> 29. Railroads <u>ACR</u> 30. Other cultural features <u>ACR</u> |
| | BOUNDARIES |
| | 31. Boundary lines \overline{ACR} 32. Public land lines \overline{ACR} |
| | MISCELLANEOUS |
| 3 | 13. Geographic names \overline{QCR} 34. Junctions \overline{QCR} 35. Legibility of the manuscript \overline{QCR} 36. Discrepancy |
| 4 | overlay QCR 37. Descriptive Report QCR 38. Field inspection photographs QCR 39. Forms QCR 40. Clbert C. Trauch 1. |
| | 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. |
| | Joseph Dorctory In West |
| | Compiler Supervisor |
| | 43. Remarks: M.2523.12 |

A8- GEOGRAPHIC NAMES

T-5589

Bare Island Boundary Pass

Cactus Islands (most of group on TSS88)

Canada

Cowlitz Bay

Cowlitz Bay

- Fishery Point Flattop Island
- Green Point Gull Rock
- ' Mail Bay
- . New Channel · North Bay
- Mouatt Reet
- Orcas Island
- Point Disney Point Hammond
- President Channel
- Sandy Point
- Skipjack Island
- Spieden Channel
- Spieden Island
- Spring Passage
- United States
- Waldron_
- Waldron Island
- · White Rock

San Juan Islands

San Juan County (from road net map, False Bay quadrangle, War Dep't. C. of E. Photostat copy dated December 1941

Hames underlined in red project rumos report and subject to Field Edit)

12-18-57

Litteett

49. NOTES FOR THE HYDROGRAPHER - T-5589

Incomplete or doubtful offshore details are called to your attention by notation on the manuscript. These are to be proved, disproved or located in position.

Only two recoverable topographic stations were established by the field inspection party for this survey. They are

DOCK, 1950 (Reported destroyed: Field Edit, 1954) Ett.
NASH, 1950

* Some features referred to were mapped by the field editor. EMR

Map Manuscript T-5589

Project Ph-26(47)

51. Methods;

No new or unusual methods have been used in the field edit of this sheet. All planimetric detail was compared with the map by inspection from a truck or mostly by walking. Topography was resketched where necessary using the plane table.

The shoreline was inspected from a small boat close to the shore or by walking. Most of the shoreline inspected from the boat was along the base of rocky bluffs where the shoreline is very rugged and where ledges are typical. There are tide rips along many of these bluffs. A small boat has no trouble in these rips when under way, but it is very difficult to control when it loses way. Shoreline inspection under these conditions is difficult, sometimes thrilling, and the field notes are apt to be rather sparing.

The unit moved up to Waldron Island while working that area. There are only poor accomodations, no store to speak of, no truck available. Time was lost housekeeping, chopping firewood, etc. All travel was walking or by boat. The unit worked an average of about ten hours a day on Waldron, including Saturday and Sunday, which accounts for the week end tidal datum references.

A legend showing the colored inks and symbols used is shown on Field Edit Sheet No. 1. Field Edit Corrections have been shown on six Field Edit Sheets numbered 1 to 6 inclusive, and on fourteen photographs numbered 1080, 1082, 1088 - 1090 inc., 1093, 1094, 1097 - 1099 inc., 1119, and 1121 - 1123 inc. Field Edit Sheet No. 2 was submitted as a portion of a composite plane table sheet submitted with field edit data for quadrangle T-5588. It covers the eastern portion of Spieden Island. The island was inspected as a unit and all notes submitted with the earlier quad. Photograph 1080 was also submitted with this quad.

52. Adequacy of Compilation:

)

The compilation seems adequate except for weaknesses in road delineation in the woods. The field inspection had trouble with roads in the woods also. There were few omissions of buildings.

No weakness in horizontal position was found except in the vicinity of White Rock. Plane table traverses crossing the line fence between Sections 1 and 6 on Orcas Island seemed poor, but further investigation showed the identification of the section to the north corner to be in error. This was the only corner for which the station identification card was not returned to the field. I used the substitute sta-

* Repositioned by planetable using control on island. ENR



tion as pricked on the field photograph and tied the section corner to the multiplex position of the substitute station. The field inspector's distance is substantially correct but his azimuth is about 25 degrees in error. The new location of the corner gave a section line that checked all line fence crossings.

The compilation of hypsography is weak in the Orcas Island portion of the quad and is further discussed under the next heading.

53. Map Accuracy:

There are no known horizontal position errors except in the vicinity of White Rock. This was largely a water model.

The vertical accuracy of the sheet is weak. Contouring on Waldron Island seemed generally quite good and contouring on Orcas Island correspondingly weak.

Waldron Island is fairly heavily wooded, but the lower elevations of the island do not have the very detailed topography typical of most of the San Juan Islands. The higher elevations are more detailed and the contouring was weaker in these areas. Only fifteen percent of all shots observed on Waldron Island were in error over a half interval, making this one of the best contouring jobs in the project.

The portion of Orcas Island lying within this quadrangle is the typical detailed San Juan topography with many separate little tops mostly fairly heavily wooded at the time of photography. There have been some small logging operations subsequently. Progress in the field edit of this part of the quad was slower than anticipated, but the extra effort appears not in vain. About thirty-seven percent of shots observed in this portion of the quad were in error over a half contour interval.

27.5 miles of profile was run on the sheet, of which 76% of shots were within a half contour interval of their true elevation after the appropriate position shift. About 9% of all shots were in error over a full interval. About 1½ square miles of topography were resketched. It is difficult to give a good figure for the resketched area because of considerable minor resketching along profile routes.

The routes of profile are too detailed to describe in this report, but are shown graphically on the accompanying plat of the quadrangle.

It is believed that after field edit corrections are applied to this quadrangle that it will comply with National Map Accuracy Standards.

Aside from difficulties due to heavy woods the only criticism of contouring on this sheet might be that the operator does not seem to realize how sharply the banks rise from the shoreline. Northeast of Point Disney on Waldron Island there is a fifty foot wide flat strip





shown on the manuscript along the shore line which in general simply isn't there. This can be due to an error in contouring or to a displacement of the shoreline. I can find no substantial error in the field inspected shoreline. The allowable position error will take care of much of the trouble, but it just doesn't look good. The contouring difficulties on Orcas Island are the result of unusually detailed topography, woodland cover, and summer photographs.

The junction along the east edge of the sheet has been secured by running a profile along the sheet edge except for a few hundred feet along the north end. The ground was very steep and heavily wooded. The space is too small for much error to develop and it did not seem practicable to pursue the matter.

54. Recommendations:

No recommendations are submitted at this time.

55. Examination of Proof Copy:

Mr. Hays Rehm, County Engineer, County of San Juan, Friday Harbor, Washington has agreed to examine proof copy of the sheet for any obvious errors or omissions.

No corrections to geographic names are submitted.

56. Shoreline:

The ship PATTON has been working in these waters during the 1954 season. On Orcas Island their work extended north to the vicinity of station LIME 1940. They whitewashed DISNEY 1940 on Waldron Island, but no hydrographic stations were located on Waldron at the time of field edit. They also worked in the Spieden Channel this year, but I have not been over there for a year and do not know what was completed. Reference should be made to the PATTON Surveys for possible shoreline revision. (These hydrographic surveys to not available for comparison at the time of this review.) en

57. Boundaries:

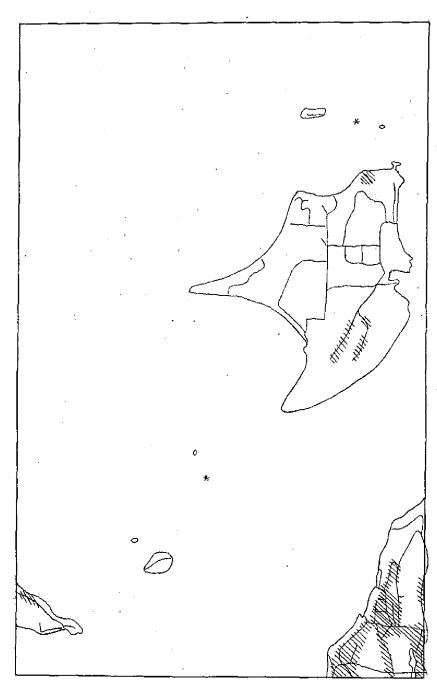
There are no local subdivisions to be shown on this sheet. The "Township" boundaries submitted by the field inspector turn out to be election precincts and are not to be mapped according to Par. 6, Chap. 5A7 of the Geological Survey Topographic Instructions.

Approved and forwarded:

Fred Natella Comdr., USC&GS Chief of Party Respectfully submitted:

Ray H. Skelton II

Photogrammetric Engineer



T**-**5589

Profile for vertical accuracy testing, 27.5 mis.

Resketched topography, about $1\frac{1}{2}$ sq. mis.

Spieden Island

| Thest May Error | | | | | | 1 | | | | |
|--|---------------|------------|----------|-------------------------|---------|---------------|-------------|-----|-------------------------|---------|
| ### Island, SW along north shore At Green Point. SS | Test Elev. | | | Error after ahift | Remarks | Test Elev. | > | | Error after shift | Remarks |
| ##eet ndga | Spied | an Isla | | alone | north. | | Po: | nt. | , r | |
| 28 = _ = _ = _ = _ = _ = _ = _ = _ = _ | | heet. | | , | | 93 | 85 | | - 1 | |
| 29 -6 | | 38 |) | 3 | | | | , | | |
| 28 | 45 | 39 | 9- | ŀ | | | | | | |
| 28 -1 - - - - | 42 | ನ | £22 | 1 | | , | | , | | |
| 19 | 39 | 38 | - 1 | . t | | | | | | |
| 21 | 32 | 61 | 713 | - | , | | | | , | |
| 19 | 30 | 12 | 6 7 | 1 | | | | | | |
| 20 -15 -18 | 27 | 61 | | 1 | | | | | | |
| 55 -31 -18 60 60 60 60 60 60 60 6 | 35 | 02 | -15 | ı | | - | | | | |
| 55 | 36 | S | -31 | -18 | | | | | | |
| 60 | 55 | 22 | 2 | ŀ | | | | | | |
| 60 | 55 | 09 | | 1 | | | | | | |
| 60 = 3 = 3 60 = 3 = 3 60 = 3 = 3 60 = 3 = 3 60 = 42 60 = 42 60 = 5 = 6 60 = 5 = 6 60 = 6 60 = 6 60 = 6 60 = 7 60 = 6 60 = | 59 | 09 | | 1 | | | | | | |
| 65 _ 3 _ 3 60 _ 3 _ 3 _ 3 42 3 80 _ 2 2 50 / 6 3 3 from shove line. | 63 | <u> </u> | 412 | ¢ | | | | | | |
| 65 = 3 = 3 42 = -3 = 3 southest of hosthouse to tri- 14tion station PASTURE. 50 | 60 | 60 | | 1 | | - | | | , | |
| ## ## ## ## ## ## ## ## ## ## ## ## ## | 65 | <u>9</u> 9 | 1 | • | | | | | | |
| ### ### ### ### ### #### #### ######## | 63 | 9 | _ 3 | | | | | | | |
| ## southeest of hosthouse to tri- ation station PASTURE. 25 | 42 | 42 | 1 | L | | | | | | |
| # couthes at of hoathouse to tri- 1 | 24 | 77 | 7 | ŧ | | | | : | | |
| ### station PASTURE. 25 | | outher | | boatho | ţ | | | | | |
| 25 2 2 2 2 2 2 2 2 2 | | - ! | tetion | PASTU | + | | | | | |
| 50 | 27 | K | 2 | | | | | | | |
| ## Strong above line. 10 | 44 | 20 | 9 7 | 1 | | | | | | |
| 80 = 2 = | North | 1 | bove 1 | ine. | | | | | | |
| SW from line along horth shore. 160 440 430 410ng ridge crest on Spieden Is. 340 42 - 7 261 5 - 3 5entinel Island. | 82 | | 2 | 8 | | | | | | |
| SW from line along horth shore. 160 | 69 | 7.1 | 4 2 | 1 | | | | | | |
| 160 440 430 slong ridge crest on Spieden Is. 340 42 - 3 261 5 3 sentinel Island | - 1 | W froi | line | along | | | r | | | |
| 360 <u>4</u> 2 = 3 340 <u>7</u> = 7 261 5 - 3 5 Sentinel Island | 120 | 160 | | 730 | | | | | | |
| 340 42 | | | idøe c | | Spieden | | | | | |
| 240 - 7 - 3 261 - 5 - 3 or Sentinel Island. | i i | 360 | | ŧ | ł | | | | | |
| on Sentinel Island. | 347 | 340 | | 1 | | | | | | |
| on Sentinel Island. | 26.6 | 261 | 2 | 60 | | | | | | |
| 130 - 6 - | | _1 | | Lend | | | | | | |
| | | i | | | | | | | | |

Orcas Island

| Remarks | | | | | | | | | | | top. | í | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|--------|--------|-----|----------|-------|-----|-------|---------|-----|---------|------------|----------|-------------|-----|-----|-------|------------|--------|---------|---------|---------|-----|---------|---------|-------|----------|----------|---------|-------|----------|------------|-------------|-----|----------|----|
| | | | _ | <u> </u> | - | _ | | _ | | | 565 | | | | | | | .6 | 2 | ,, | | | | | | | _ | | | 5 | 8 | _ | | \dashv | _ |
| Error after shift | , ' | i | 7 2 | 415 | 732 | 027 | 414 | 413 | 418 | 027 | <u></u> +; | | 9 7 | 7.3 | | 725 | <u> </u> | 7 | 7 | 25 | 4 4 | | 435 | | 735 | 425 | 7 | 153 | 740 | 7 5 | 418 | • | | | |
| Error | 1 | top | 412 | 827 | 435 | 927 | 725 | 723 | 730 | 027 | Q | 419 | 711 | 711 | 710 | 431 | . 1 | 617 | 7.3 | 27 | 43.4 | 1 | 439 | 7 = 7 | 440 | 435 | 7 | /58 | 447 | 415 | 127 | 01 7 | • | | |
| Map Eley. | 22 | 0 365 | 179 | 215 | 231 | 268 | 277 | 311 | 360 | 362 | ver ri | 178 | 186 | 196 | 253 | 279 | 269 | 281 | 284 | 278 | 281 | 275 | 281 | 239 | 260 | 241 | 220 | 194 | 181 | 165 | 47 | 69 | | | |
| Test Elev. | 22 | Spur 1 | 167 | 187 | 196 | 252 | 255 | 288 | 330 | 332 | West o | | 175 | 185 | 243 | 248 | 269 | 262 | 281 | 305 | 26.7 | 275 | 242 | 246 | 220 | 206 | 199 | 136 | 134 | 150 | 56 | 59 | | | |
| Remarks | sheet. | | | | | | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | |
| मु भु | ব | | _ | \dashv | _ | _ | | | | | _ | \vdash | $\neg \neg$ | | _ | | | | - | -+ | | _ | ┪ | 一 | ヿ | - | | | | | | | | 7 | 5 |
| Error after shift |) appa | 6 7 | d | 44 | d | 2.7 | 14 | 6 7 | 6 7 | 017 | 410 | 017 | 713 | | C | 4 8 | 7 B | 6 7 | 6 7 | 426 | 425 | 1 | 127 | 4. B | q | 8 | 1 | 415 | 7 | | 1 | | | | 1 |
| Error after | gge | 7 | 0 | 44 44 | 4 2 0 | * | . 7 | 6 7 6 7 | ŀ | 712 710 | | | 716 413 | _ | 7.5 | * | ļ | - 1 | 410 4 9 | 729 756 | 730 752 | 1 | 723 721 | 4.8 4.8 | 4 4 0 | 4 7 | 45 | 419 415 | , 4 | | 1 . | - | 8 | / 4 | 1 |
| Tost Map Error afte | eg pe | 412 2 | . | * | | * | 7 4 7 | 1 | 7 | | 715 | 712 | 716 | 9 | 7 | 7 6 7 | 7 | 7, 017 | | | | | - | * | _ | 221 47 - | 235 45 - | 419 | 415 4 | <u>`</u> | 6 | | - 2 | \dashv | 23 |

Orcas Island

| | | Т | _ | - | \neg | т | $\neg \tau$ | | т | | | - 1 | 1 | ┰ | _ | T | 7 | -1 | П | Т | | ΨΤ | т | Т | Т | 7 | Т | Т | T | 丁 | 7 | T | Т | 丁 | 7 |
|-------------------------|----------|-----|---------|------|-------------|----------|-------------|-----|-----|-----|-----|---------------|------|-------|--------|-----|-----|-----|-----|------|-------|-------|-----|-----|-----|---------|-----|-------|-----|-------------------|----------------|--------|-----|-------|-------|
| Remarks | | | | | | | | | | | , | | | | | | | | | | | | | | | | | | | | | | | | |
| Error after shift | 4.8 | 7 | 45 | | ري • | 9 7 | 418 | 418 | 415 | 4 3 | 412 | 1 | 7.5 | 67 | 7 | | 4 2 | 7 2 | 4 | 412 | 7 | 7 7 | 416 | 4 | f | 413 | 7 | 4 5 | 1 | 7 2 | | • | 2 | 011 | - 3 |
| Error | 430 | 7 | 4 | 4 | = 14 | 4.7 | 420 | 413 | 419 | 4 3 | 416 | 410 | 416 | 4.5 | 4.5 | | 44 | 4.4 | 7 8 | 416 | 7.3 | 0 7 | /21 | | 6 7 | 414 | 7.4 | 713 | t | 7 | 1 | 9 | 213 | 7 | -16 |
| Map Elev. | S | 102 | 101 | 59 | 61 | 40 | 98 | 8 | 135 | 107 | 134 | 195 | 230 | 241 | 240 | 242 | 262 | 264 | 266 | 279 | 263 | 261 | 250 | 268 | 288 | 269 | 260 | 270 | 250 | 250 | 304 | 387 | 422 | 443 | 342 |
| Test Elev. | R | סטר | 8 | 63 | 75 | 33 | 99 | 88 | 316 | 104 | 118 | 183 | 214 | 236 | 235 | 242 | 258 | 260 | 258 | 263 | 260 | 252 | 238 | 268 | 279 | 255 | 256 | 257 | 250 | 245 | 304 | 393 | 435 | 454 | 358 |
| | | _ | | | | | | | | _ | | | | | | | | | - | | | _ | | | | _ | | | _ | | | | | | |
| 1 | | | | | | | | ╡ | | 7 | | | | | | ╡ | | | | | | | | | | | | | | | | | | | |
| Remarks | | | , | | | | | | - | | | | | | | | | | | | | | | | | | | | | | sheet. | | | | |
| | .uc | 726 | | 1 | • | 7.2 | 124 | 723 | 4 | 1 | 200 | 415 | 412 | 6 7 | 714 | 414 | 416 | 6 7 | 718 | | 7.1 | 418 | 414 | 3 | | _12 | 754 | 729 | 744 | /26 | ₩ | 4.7 | 427 | 67 | 1 |
| - | 260 top. | 9 | 414 | - 57 | 7.2 | 7.18 7.7 | | - | | 1 | , E | | | . 🔻 | 7.7 | _ | | | | , | 4 | 4 | | | | =13 =12 | _ | | | | east edge of | 6 7 | | . 1 | 1 2 - |
| Error after shift | 1 | 927 | 474 474 | , 7 | , 7 | 7 817 | 731 | 127 | 27 | , 7 | , | , 81 7 | ,412 | 7 217 | 417 41 | 715 | 418 | | 750 | , 67 | 7 9 7 | 7 617 | 415 | , 2 | ر ۴ | 13 | 735 | . 442 | 745 | , / 31 | e east edge of | 6 7 94 | 735 | 411 4 | |

M-2875-12

| | | | | | | | south, | | 1 | | | | | | | | | | | | | | T | | | _ | | 1 | • | | | | _ | 1 | W.087E.19 |
|-------------------------|----------------|------------|-----|----|----|----------------|----------|--------------|--------|---------|--------|--------|------|-----|----------|-----|-----|---------------|-----|-----|-------|-----|-----|------|---------|------|------|-------|-----|--------|-------|-----|-----|-----|-----------|
| Remarka | | | | | | | ion 135. | across ridge | | | | | | | | | | | | | | | | | | | | | , | | | | | | 3 |
| Error after ahift | - 6- | Î. | 1 | 1 | i | : | elevat | 1 Bay | - 4- | 5 | | Ŋ | ‡ | £ | 2-2 | - 5 | 3 | 1 | 1 | 17 | 1 | • | | 7 | 22 1 | c) | | 7-5 | 7 | | 1 | 1 | 1 | 2 | 110 |
| Error | a 6 | ţ | 1 | 1 | 1 | 1 8 | west. | om Mai | - 4 | 7 = 7 | -13 | n S | Š | 4 | - 4 | - 6 | - 4 | 1 | 1 | 7 | . | ŧ, | 1 | 44 | 4 = | 1 | 7 2 | 9 7 | | Ridge | i | 1 | - | 4 - | 122 |
| Map Elev. | 78 | 7.5 | 79 | 45 | 20 | 20. | ਬਕ | | 144 | 122 | 104 | 89 | 66 | 106 | 118 | 144 | 153 | 170 | 184 | 199 | 205 | 215 | 189 | 166 | 140 | 116 | 109 | - 901 | 8 | pf 205 | 144 | 151 | 158 | 170 | 184 |
| Test Elev. | 84 | 75 | 79 | 45 | 20 | 12 | From | | 148 | 129 | 117 | 71 | - 99 | 110 | 122 | 138 | 149 | 170 | 184 | 196 | 205 | 215 | 194 | 162 | 136 | 116 | 106 | 9 | 96 | Ŧ | 144 | 151 | 159 | 174 | 196 |
| Remarks | | choolhouse | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Error after shift | | via s | | 3 | 3 | | t, | • | : : | a -5 | 1 | 9 | - 7 | | | | ā | ည រ | 1 | • | 2 | 9 | 8- | 9 | 1 | 4-1 | 4 2 | | 4 4 | 7 - | 9 7 | 7 7 | | 1 | 1 |
| | \vdash | P | + 1 | _ | | | | | | | | | | | | | 2 | 9 | រា | 7 | 2 | 7 | ۵ | g | 2 | 류 | ঝ | 4 | 12 | 8 | g | 8 | | | |
| Error | put | strin | , | , | 1 | - 1 | - | 2 - | - 4 | 9 - | n L | - 7 | 6 | 10 | 9 | 7 7 | . 1 | . 1 | 1 | 1 | 1 | 4 | 4 | ī | 1 | * | 4 | . 1 | 4 | . * | * | 7 | . | 1 | |
| | Waldron Tsland | - | | - | 48 | | | 1 | 1 | 114 - 6 | • | | 1 | | 1 | 7 | . 1 | . 1 | 1 | 123 | - 021 | 101 | 79 | 78 - | 76 - | 78 4 | 87 4 | 9.5 | 104 | 7 611 | 142 4 | 100 | 74 | 1 | - 22 |

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| Кетытка | | | | | | | | | | | | , | | | | | | | | | | | | | | | | | | | | | M-2875-12 |
|-------------------------|--------|------------|-----|---------|-----|-----|-----|----------------|----|-------|------|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|----|----|-----------|
| Error after shift | 4 | 414 | | ; | £ | i | | | f | , | * 1 | ** | | | | ì | * | ì | | i | | | | ţ | : | | | | | 1 | | • | |
| Error | J | 414 | | J | • | ? | | ' | | | | | - | • | 1 | , | • | | . | | | | | | | | | | | | | | |
| Map Elev. | 1 Bock | 32 | | te Boel | | | | | | | | | | • | | | | | | | | | | | | | • | | | | | | |
| Test Elev. | Gul | ЛВ | | White | 38 | , | | | , | | | | | | | | | | | | | | , | · | | | | | | | | | - |
| Remarks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Error after shift | | ` <u>.</u> | - 1 | 4-8 | , | 420 | . m | | ı | . 110 | 1 | ţ | 7.6 | | - | -6 7 | | | | • | 9.7 | | ŧ | 716 | 428 | | 1 | 1 | i | į | ŧ | 1 | ! |
| Error | Tsland | 418 | 713 | 667 | 6 7 | 738 | 7 3 | land | 1 | ١, | 17. | | 7 | ı | | 7.10 | 417 | 2.7 | - | | 1 | | , , | 727 | 430 | L | 7 | | 2 - | ١ ٦٠٠ | 16 | | |
| Map Elev. | Orcas | | 52 | 60 | 60 | 98 | 59 | Flatton Island | 47 | 150 | 14.6 | 142 | 174 | 02.1 | 178 | 167 | 148 | 145 | 142 | ראו | ואר | 141 | 144 | 146 | 159 | 124 | 142 | 141 | 001 | 99 | 35 | 22 | |
| Test Elev. | | 32 | 29 | 31 | 5.1 | 60 | 56 | FIR | 47 | 153 | 145 | 143 | 166 | 160 | 174 | 150 | וצו | 145 | 157 | 143 | 133 | 130 | 145 | 124 | 129 | 124 | 141 | 139 | 103 | 65 | 57 | 99 | |

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Waldron Island

| <u> </u> | | | | | | | | | · | <u> </u> | | - 1 | _ | | | | | - | _ | 7 | | ī | Т | | | -т | _ | | | | | | | | | 2 |
|-------------------------|-----|-----|-----------|-----|-----|----------|-----|-----|--------|----------|--------|----------------|-----|-----|-----|---------|-----|-----|-----|-----|----------|---------|-----------|---------|-----|----------|-----|-----|-----|--------|-----|------------|----|--------|------------|-----------|
| Remarks | | | | | | | | | | | | : | | | | | | | | | | | | | | | | | | | | nd west to | | | | M-2875-12 |
| Error after shift | -10 | . 7 | -12 | ω. | £ | ري در | - 1 | - 3 | ن 1 | 5 | ι 1 | | 2 | | C | Ī | 7 | 2 | - | 4 | 8 | 4 2 | 13 | -13 | -14 | 250 | 7 | * | ı | ŧ | 1 | orth s | | £ | r, 5 | |
| Error | -10 | 7 = | -13 | 6 | 1 | Ω 1 | . 1 | · | i. | 5 | 12 | v Poin | | 4.1 | 7 2 | | 2 | 6 | 2 | 27 | 6 7 | 7 7 | 15 | -15 | -15 | -22 | 7 4 | . " | ٦ / | 1 | - 7 | r asnor | | q | ₹ 5 | |
| Map Elev. | 12 | 15 | 31 | 46 | 52 | 59 | 59 | 65 | 61 | 64 | 99 | & Sand | 13 | 47 | 59 | 62 | 67 | 72 | 70 | 81 | 8 | 8 | 85 | 35 | 100 | 88 | 74 | 51 | 41 | \$ | 27 | school1 | | 111 | 105 | |
| Test Elev. | 22 | 22 | 44 | 55 | 52 | 61 | 61 | 89 | 99 | 69 | 7.1 | East o | 18 | 46 | 57 | 3 | 69 | 75 | 8 | 79 | 7.1 | 26 | 98 | 107 | 115 | 120 | 20 | 52 | 9 | 41 | 34 | From | 7 | 111 | 100 | |
| Remarks | | | | | | | | | - | | | | | | | | | | | | | | cross top | | | | | | | | | | | | | |
| Error after shift | 8 | ' ' | -10 | | i | 4 - | 2.7 | 1 | 1 | 15 | -1.7 | -17 | -19 | ī. | -10 | - | 1 | • | -10 | 4 = | œ | 1 | west a | | 1 | 1 | 1 | 1 | 01- | ī M | 1 | 4.1 | 1 | 9 | 7 | |
| Error | -10 | 9 = | <u>~~</u> | 2 | 4.1 | 9 = | | * | t | -15. | -17 | -17 | -19 | 5 | -13 | Вяу | 2 | - 4 | -13 | 2 | 0[1 | ‡ 72 | n north | 1x - 81 | 4-1 | 2 | ì | E | 0[= | 9 | 5 | 2 7 | 1 | α 1 | | |
| Мар Елет. | 190 | 201 | 205 | 195 | 181 | 181 | 170 | 166 | 165 | 205 | 205 | 205 | 204 | 201 | 192 | at Mail | 102 | 83 | 59 | 48 | 23 | 9 | Waldro | road e | 20 | 6.3 | 53 | 3 | 62 | 26 | 53 | 53 | 90 | 30 | 10 | |
| Test Elev. | 200 | 202 | 215 | 197 | 180 | 175 | 165 | 366 | 165 | 220 | 222 | 222 | 223 | 206 | 205 | | 104 | 85 | 73 | 55 | 3 | 12 | From | to T | 69 | <u> </u> | 53 | .09 | 72 | 23 | 65 | 51 | g | 38 | 17 | |

Waldron Island

| Error after shift | C | heast, and south | · | 2 | €= | 0[1 | 9 | 6 | t, | t | 3 | ري د | 15 | C | 4.4 | | | | 4 | 2 = | , F 0. | | .1 | | Q 1 | - 3 | . 2 | 9-1 | 44 | | | 5 | 2. | 2-2 | le · |
|-------------------------|----------|------------------|--------|----------|-----|-----|-----|-----|---------------|-----|-----|------------|------|-----|------|-----|--------------|-----|----|-----|--------|-----|-----|-----|--------|-------|-----|-----|-----|------------|------------|--------|-----|-----|------|
| Error | : | ry nor | strip. | <u>1</u> | | 133 | -10 | -13 | 9 | 9 7 | - 4 | <u> </u> | 4 | ı | 7.7 | 1 | 2 | - 2 | 7 | 4 | α 1 | 62 | 7 3 | | 1 4 | 4 - | 3 | 7 | ‡ | ល | 3 | ν - | α | 62 | 1.58 |
| Map Elev. | σ | cemete | nding | 150 | 145 | 125 | 110 | 104 | 96 | 35 | 82 | 7 6 | 83 | 98 | . 96 | 85 | 88 | 16 | 87 | 55 | 58 | 65 | 22 | 82 | 88 | 102 | 108 | 110 | 115 | 122 | 130 | 128 | 124 | 124 | 140 |
| Test Elev. | 6 | From | to 18 | 154 | 152 | 138 | 120 | 117 | 102 | 98 | 89 | 98 | . 87 | 87 | 89 | 85 | 8 | 933 | 88 | 99 | 99 | 89 | 74 | 821 | 92 | - 106 | וונ | 117 | 120 | 127 | 130 | 132 | 132 | 126 | 148 |
| Remarks | | | | | | | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Error after shift | 7.3 | | 7 3 | 7 | 53 | ' | - 4 | - 4 | ا ت | 1 | t | ı | Į, | 4 | - 2 | 2 | of nt | 5 | | 413 | 418 | 416 | 414 | 413 | 411 | 7 3 | -19 | 1 | 1 | 4 6 | 415 | ω 1 | t | 1 | 9 7 |
| | 4 | ū | | | . 3 | 6 - | | 4 - | n D | Į. | 12 | | 4 | 1 | 5 - | - 3 | ery D | 5 | | 413 | 418 | 419 | 417 | 416 | 414 | 7 2 | -20 | 1 | 9 | ≠ 6 | 415 | ţ | 47 | , e | 4. |
| Error | 7 | . 1 | 1 | 1 | i | | | | | | | | | | | | _,03 | Į | | | | | | | | | | ı | - 1 | | | | ŀ | | |
| Map Elev. | 7 20 | | | 85 | | | | 82 | 80 | 64 | 56 | 45 | 34 | ואנ |) LC | 5. | ty Fishery P | 82 | 8 | 81 | 8 | 7.8 | 7.3 | 76 | 76 | 62 | 44 | 46 | 59 | 62 | 62 | 65 | 40 | 24 | 15 |

Waldron Island

| Remarks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | at Skipjack Island. | | M-2875-12 |
|-------------------------|-----|-----|------|-----|------------|-----|-----|-----|-----|--------|--------|------------|--------|-----|-----|-----|-----|-----|---------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|---------|-----|------|---------------------|-----|-----------|
| Error after shift | 27 | • | l. | 4 1 | | 4 | | 7.3 | | ₽ i | r i | | | - 7 | - | 415 | 433 | 712 | 1 | 7 5 | -12 | 410 | , s | 414 | 716 | 4 | • | 9 | 7.7 | 419 | 418 | | -12 | at Shi | | |
| Error | 2 7 | . [| 7 7 | 4 7 | 9 | 4.3 | | 4 8 | | 4 | ا ت | – 6 | L | 6 | 01– | 757 | 737 | 426 | 7.2 | 7 4 | -14 | 712 | 6 7 | 730 | 726 | 1 | Ē | 9 7 | 710 | 725 | /21 | -2D | -12 | 50 W S | | |
| Map Elev. | 241 | 253 | 263 | 292 | 320 | 363 | 371 | 387 | 397 | 412 | 424 | 440 | 457 | 45B | 466 | 505 | 521 | 509 | 501 | 505 | 510 | 519 | 519 | 558 | 550 | 540 | 550 | 581 | 562 | 569 | 570 | 570 | 600 | tied | | |
| Test Elev. | 238 | 254 | 25.9 | 288 | 326 | 360 | 369 | 379 | 397 | 416 | 429 | 446 | 457 | 469 | 476 | 481 | 484 | 483 | 499 | 501n | 524 | 531 | 510 | 518 | 524 | 540 | 550 | 575 | 552 | 547 | 551 | 590 | 612 | Line | | |
| Remerka | | | | | air strip. | | | | | | | | • | | | | | | ، 19، | | | | | | , | | | | | V of Mail | | | | | | |
| Frror after shift | - 5 | | - 1 | - 2 | from a | - 5 | - 3 | | | -20 | -20 | -111 | -pu | 2 | 4 4 | 715 | 431 | 711 | st, elu | _ | ŧ | 7 | - 2 | 2 | 9 | e. | - | 4 - | 1 | eet VSW | | E | 1 | 45 | | |
| Error | - 5 | 1 | - 4 | | bluff | 9 | - 4 | 4 - | - 7 | -36 | -30 | ±13 | Ö | | 412 | 721 | 430 | 713 | 41 | 1 | 4 2 | | В | - 3 | - 1 | - | - 4 | ic. | Į. | 2000 | o ton | | | 7. 7 | | |
| Map Elev. | 145 | 114 | 110 | 62 | alone | 10 | 25 | 44 | 67 | 20 | 61 | 84 | of Pt. | 2.1 | 36 | 52 | 7.4 | 7.3 | 퓜 | 32 | 68 | 47 | 5 | - | 12 | 30 | 25 | 19 | 17 | 교 | 1 to 60 | ואר | 189 | 222 | 221 | |
| Test Elev. | 150 | 117 | 114 | 62 | North | 16 | 27 | 48 | 7.4 | B6 | B | 45 | + | | 24 | 31 | 22 | 60 | Morth | 83 | 99 | 44 | 38 | 7 | 19 | 31 | 52 | 72 | 1.7 | From | Bow ST | 166 | 1.87 | 215 | 223 | |



TOPOGRAPHIC MAPPING

Summary & Abstract of Vertical Accuracy Test

| Project No. Ph-26 Quad. No. T-5589 Quad. Name | _ |
|---|---|
| Method of Testing Plane table profiling | |
| Tested by R.H.S.II Date Apr. 52 Summer 54 Evaluated by R.H.S.II | |
| Contour interval 20 ft. 1.22 M.M. allowable shift at 1/10,000 | |
| map or manuscript scale. | |

609 Total number of points tested

 $\frac{76}{9}$ of points within $\frac{1}{2}$ contour interval or better

459 Test points correct within ½ contour interval

98 Test points in error between ½ and full contour interval

52 Test points in error over full contour interval

| ŢĄ | (aldron | Islan | đ | | | | | | |
|---------------|---------|-----------------|-------------------------|------------|---------------|--------------|----------|-------------------------|---------|
| Test Elev. | | Error | Error after shift | Remarks | Test Elev. | Map Elev. | Erroŗ | Error after shift | Remarks |
| From | northe | as t to | south | west along | | | | - | |
| bench | east | of-600 | top | | | | <u> </u> | | |
| 275 | 308 | - ∕33 | 730 | | | | | | |
| 278 | 308 | 7 30 | ≠ 24 | | | | | - | |
| 290 | 298 | 4 8 | <i>f</i> 2 | | <u> </u> | | - | | |
| 303 | 305 | <i>f</i> 2 | | | 1 | | | | |
| 298 | 319 | 721 | ≠ 17 | | | | | | |
| 308 | 362 | √ 54 | 444 | | | | | | |
| 340 | 345 | ≠ 5 | | | | | | | |
| 355 | 352 | - 3 | - | | | | | | |
| 355 | 342 | -13 | - 6 | | | | | | |
| 348 | 335 | -13 | - 7 | | | | | | |
| 337 | 330 | - 7 | - 2 | | | | | | |
| 323 | 313 | -10 | - 5 | | | | - | | |
| 311 | 294 | -17 | -13 | | | | + | +- | |
| 310 | 288 | -22 | -19 | - | | | | | ···· |
| 307 | 287 | -20 | -18 | | | | | . . | |
| 305 | 288 | -17 | -15 | | | | - | | |
| 293 | 280 | -13 | -11 | | | | , | | |
| 288 | 280 | - 8 | - 6 | | | | | , | |
| 292 | 281 | <u>~11</u> | - 9 | | | | | | |
| 290 | 281 | - 9 | 2 | | | | | | |
| 289 | 279 | -10 | ∸ 8 | | | | - | . • | |
| | | | - | | | | | - | |
| Ski | pjack | Island | | | | | | | |
| 42 | 42 | | <u>:</u> | | | | - | | |
| 81_ | 61 | -20_ | - 5 | | | | | - | |
| 74 | 65 | <u> - 9</u> | | | <u> </u> | | - | | |
| 68 | - 68 | | <u></u> | | | | | | |
| 112 | | -11 | 8 | | | | | | |
| .130 | 110 | -20 | -]6 | | | | | | |
| | | | | | | | | | |
| | re Isl | | | | | | | | |
| 50 | 30 | -20 | -20 | | ļ | | | | |
| 21 | 20 | -1 | - 1 | | l l | | | | |

REVIEW REPORT Topographic Map T-5589 21 July 1955

62. Comparison with Registered Topographic Surveys:

| T-730 | 1:20000 | 1858 |
|--------|---------|------|
| T-2192 | 1:10000 | 1894 |
| T-2193 | Ħ | n |
| T-2229 | Ħ | 1895 |

There is very close agreement in shoreline between these prior surveys and T-5589. These prior surveys seem to have mapped ledges more completely than was done on T-5589. Offshore rocks at lat. 48° 41.5' - long. 123° 02.3' are in disagreement between T-2192 and T-5589. Positions should be taken from T-5589. There have been many cultural changes since these prior surveys. For the area encompassed, T-5589 should supersede these prior surveys for nautical charting except for ledges as noted above.

63. Comparison with Maps of Other Agencies:

None.

64. Comparison with Contemporary Hydrographic Surveys:

None.

65. Comparison with Nautical Charts:

| 6379 | 1:20000 | 1953, | corrected | to | 5/23/55 |
|------|---------|-------|-----------|----|---------|
| 6380 | 1:80000 | 1947, | 1t | 11 | 7/14/52 |

An advance copy of T-5589 was evidently used in compiling Chart 6379. Corrections in shoreline and contours which were made during the field edit should be applied to this chart.

Some differences exist in roads and contours between chart 6380 and T-5589.

66. Adequacy of Results and Future Surveys:

This map complies with National Standards of Map Accuracy and project requirements. Alongshore rocks at lat. 48° 41.1' - long. 123° 00.8' were mapped without any field inspection and are subject to some error in symbol.

Reviewed by:

Everett H. Ramev

APPROVED:

Chief, Review Section Photogrammetry Division

Chief, Nautical Chart Branch Charts Division

Chief, Coastal Surveys Division



History of Hydrographic Information for T-5589

Hydrography was added to the map manuscript in accordance with the Photogrammetry Division General Specifications of 18 May 1949.

Depth curves and soundings are in feet at Mean Lower Low Water datum and originate with the following Coast and Geodetic Survey hydrographic sources:

| Number | <u>Scale</u> | Date of Survey |
|------------|--------------|-----------------------------|
| H-2113 | 1:20,000 | 1891 |
| 2213 | 1:10,000 | 1894 |
| 2214 | 1:10,000 | 1894 |
| Chart 6379 | 1:20,000 | (corrected to 23 May 1955) |
| 6380 | 1:80,000 | (corrected to 25 July 1955) |

Hydrography was compiled by Lena T. Stevens on 8 August 1955 and verified by O. Svendsen on 19 September 1955.

G. A. Walker, Jr.

NAUTICAL CHARTS BRANCH

SURVEY NO. <u>T-5589</u>

Record of Application to Charts

| DATE | CHART | CARTOGRAPHER | REMARKS |
|--------|---------------------------------------|--------------|--|
| 2/3/86 | 18421 | B. Fernanda | Before After Verification and Review Lug #52 Adagasety Apple (40 corr.) |
| | · | | Adequaty A pold (40 corr.) |
| | · · · · · · · · · · · · · · · · · · · | | Before After Verification and Review |
| | | | Before After Verification and Review |
| | | | Before After Verification and Review |
| | | | Before After Verification and Review |
| | 1114 | | Before After Verification and Review |
| | | | Before After Verification and Review |
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M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.