Form 504
U.S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey: TOPOGRAPHIC

Field No.:
Office No. T-5984

LOCALITY

State: Aleutian Is. - Alaska
General locality: Delarof Islands
Locality: Ogliuga, Skagul, Ugidak and Tag Islands

194 A-'48

CHIEF OF PARTY
C.D. Meaney, Chief of Party Field Party
Div. of Photogrammetry, Wash., D.C.

LIBRARY & ARCHIVES

DATE: April 22, 1950
### DATA RECORD

Project No. (II): Ph-34\(448\)

Quadrangle Name (IV): Skagul Island

Field Office (II): Ships SURVEYOR, DERICKSON, E. LESTER JONES, and PATTON

Chief of Party: C. D. Meaney

 Officer-In-Charge: Louis J. Reed, Chief,
Stereo Section

Copy filed in Division of Photogrammetry (IV)

Office Files

Instructions dated (II) (III):

<table>
<thead>
<tr>
<th>Date</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 April</td>
<td>1943</td>
</tr>
<tr>
<td>19 June</td>
<td>1943</td>
</tr>
<tr>
<td>8 April</td>
<td>1943</td>
</tr>
</tbody>
</table>

Method of Compilation (III): Stereoplanigraph

Manuscript Scale (III): 1:20,000

Stereoscopic Plotting Instrument Scale (III): 1:20,000

Scale Factor (II): Photo: Instrument Scale: Plot: 27,500, 20,000: 20,000

Date received in Washington Office (IV): 6/30/49

Date reported to Nautical Chart Branch (IV):

Date registered (IV): 3-29-50

Publication Scale (IV): 1:25,000

Date registered (IV): 3-29-50

Geographic Datum (III): NA 1927

Vertical Datum (III):

Mean sea level except as follows:

Elevations shown as (2) refer to mean high water

Elevations shown as (g) refer to sounding datum

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

Reference Station (III): G.P. Vol. 5, P. 201

Lat.: X|X|X|X

Long.: X|X|X|X

Plane Coordinates (IV):

<table>
<thead>
<tr>
<th>Y</th>
<th>X</th>
</tr>
</thead>
</table>

Military Grid: Universal Transverse Mercator, Zone No. 1

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.
Areas contoured by various personnel
(Show name within area)

(100%) by Michael G. Misulia
on
the Stereoplanigraph
DATA RECORD

Field Inspection by (II): Ogilvyga and Skagul IIs: L. C. Wilder -- July-Aug. 1944
Kavalga: R.F.A. Studds -- July 1945

Planetable contouring by (II): Date:

Completion Surveys by (II): None Date:

Mean High Water Location (III) (State date and method of location): Occasional short stretches of shoreline were located by field inspection and the balance, a majority, was delineated on the stereoplanigraph

Projection and Grids ruled by (IV): Ruling Machine Date: 10 Feb. 1949
Projection and Grids checked by (IV): Wheatley E. Ward Jr. K.N.M.A.K. Date: 10 Feb. 1949
22 Mar. 1950
Control plotted by (III): Clarence E. Misfeldt Date: 15 Dec. 1948

Control checked by (III): John B. McDonald Date: 18 May 1949

Stereoscopic Michael G. Misulia Date: 20 April 1949
Control extension by (III):

Stereoplanigraph Michael G. Misulia Date: 9 May 1949
Planimetry Contours

Manuscript delineated by (III): John B. McDonald Date: 22 June 1949

Photogrammetric Office Review by (III):

Elevations on Manuscript Louis J. Reed Date: 24 June 1949
checked by (III):

Form T-Page 3
M 2618-124(4)
Camera (kind or source) (III): USGS "O" Camera, 6" metrogon, cartographic

Date: 48-0-453 thru 48-0-490

PHOTOGRAPHS (III).

Date Time Scale Stage of Tide
48-0-453 19 10:00
48-0-462 and Sept 27,500 1.5' above MLW
48-0-478 1948
48-0-490 thru 11:00

Diurnal

Ratio of Mean Spring

Ranges Range Range

Reference Station: Sweeper Cove
Subordinate Station: Ulak Island

Washington Office Review by (IV): K.N. Maki
Final Drafting by (IV): M. Webber, J. Balley
Drafting verified for reproduction by (IV): C. Kopiec

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 13 sq. mi.
Shoreline (More than 200 meters to opposite shore) (III): none
Shoreline (Less than 200 meters to opposite shore) (III): none
Control Leveling - Miles (II): 0
Number of Triangulation Stations searched for (II): none
Number of BMs searched for (II): none
Number of Recoverable Photo Stations established (III): none
Number of Temporary Photo Hydro Stations established (III): none

Remarks:
Summary to Accompany T-5984

Topographic map T-5984 is one of 40 similar maps in Project Ph-34(48). It covers all of Ogljak Island except its western extremity, Skagul, Ugidak and Tag Islands. Field inspection was done on 1934 Navy five-lens photographs and consisted of the identification of control points and the delineation of several small sections of shoreline. Field operations for the Islands in this map area were carried out by parties operating from the U.S.C. & G.S. Ships DERICKSON and SURVEYOR.

A radial plot was not required. Compilation was performed in the Washington Office on the stereoplanigraph using a contour interval of 50 feet supplemented by a contour interval of 25 feet. The manuscript was compiled on acetate ruled with a polyconic projection at 1:20,000 scale on the North American 1927 Datum. A Military Grid, one thousand meter universal transverse mercator, was also ruled on the manuscript. Photography for the instrument was taken with the U.S. Coast and Geodetic Survey 6" Cartographic ("O") camera. Instrument delineation was supplemented in part by 1944 and 1945 Graphic Control and Hydrographic Surveys.

Depth curves and critical soundings were applied to the manuscript by the Division of Charts.

A cloth-backed lithographic print at compilation scale will be registered with the Descriptive Report in the Bureau archives. After publication, a cloth-backed color print at 1:25,000 scale will also be registered.

K. N. Maki
10/21/49
Field Inspection Report

1. Description of the Area:

This report covers the east central islands of the Delarof Group which is located just east of the international date line between Amchitka and Tanaga in the Aleutian Islands. Specifically, it covers Kavalga, Ogliuga, and Skagul, plus several small rocky islands nearby.

In general, the islands have rocky shorelines with many off-lying rocks; bluffs rise from the beaches and the tops are relatively flat, comparatively low in elevation, and are grass covered. The surrounding waters are kelp choked which extends outward from the shore as far as 1000 feet.

For a detailed description of each island see field reports listed in paragraph 29, this report, "Supplemental Data".

1-25.

Field inspection was accomplished during World War II by field parties from several Coast and Geodetic Survey Ships as a part of the hydrographic work in the area. The work is not considered adequate by present standards but a report of it is to be found in six different field reports as listed under "Supplemental Data", paragraph 29, this report, three Hydrographic Surveys and three Graphic Control Surveys. All six reports filed in the Bureau Archives.
26. Control:

See triangulation stations on manuscript. All were plotted on the single work sheet covering the three quadrangles. In addition, all the topo and hydro stations shown on the three graphic control sheets were transferred to the work sheet. During the instrument compilation work it was found that two topo stations as photo-identified did not conform to the control network and therefore were not held to. The two stations were PINNACLE and WEE and are located near the center of Kavalga Island. In addition, many topo stations that were not photo-identified were not held to.

Vertical control was based primarily on the surface of the sea. A few field elevations on established control were available and used for checking purposes. An elevation was read for each on the plotting instrument and all fell within the required limits of accuracy.

28. Detailing:

Topography and planimetry was accomplished on the stereoplanigraph, therefore, eliminating the need for a radial plot. Field inspection furnished on Navy 1934 5-lens photographs was barely adequate because the quality of the photography was so poor.

All field inspection data were applied to instrument compilation on the manuscript. This compilation is to supersede that previously reported in descriptive report "Photogrammetric Shoreline", T-8005, 1946, which report is filed in the Bureau Archives.

Distortions were present on the edges of most of the models in this area. These distortions were compensated wherever possible by making use of similar areas in the adjoining models. If this was not possible the distorted areas were isolated from the rest of the model and worked independently.

29. Supplemental Data:

(a) Hydrographic Surveys:

<table>
<thead>
<tr>
<th>Date</th>
<th>Name</th>
<th>Ship</th>
<th>No.</th>
<th>Scale</th>
<th>Area Covered</th>
</tr>
</thead>
<tbody>
<tr>
<td>1944</td>
<td>C.D. Meaney</td>
<td>SURVEYOR</td>
<td>H-7039</td>
<td>1:20,000</td>
<td>Inshore around Skagul, Ogliga, and E. half of Kavalga</td>
</tr>
</tbody>
</table>
29. **Supplemental Data: (continued)**

<table>
<thead>
<tr>
<th>Date</th>
<th>Name</th>
<th>Ship</th>
<th>No.</th>
<th>Scale</th>
<th>Area Covered</th>
</tr>
</thead>
<tbody>
<tr>
<td>1945</td>
<td>C.D.Meany</td>
<td>SURVEYOR</td>
<td>H-7033</td>
<td>1:10,000</td>
<td>Pass between Skagul and Ogliuga</td>
</tr>
<tr>
<td>1945</td>
<td>C.D.Meany</td>
<td>SURVEYOR</td>
<td>H-7052</td>
<td>1:20,000</td>
<td>Inshore, Kavalga and Unalga</td>
</tr>
</tbody>
</table>

(b) **Graphic Control Surveys:**

<table>
<thead>
<tr>
<th>Date</th>
<th>Name</th>
<th>Ship</th>
<th>No.</th>
<th>Scale</th>
<th>Area Covered</th>
</tr>
</thead>
<tbody>
<tr>
<td>1944</td>
<td>L.C.Wilder</td>
<td>DERICKSON</td>
<td>T-6980</td>
<td>1:20,000</td>
<td>Skagul &amp; Ogliuga Islands</td>
</tr>
<tr>
<td>1945</td>
<td>C.D.Meany</td>
<td>SURVEYOR</td>
<td>T-6976</td>
<td>1:20,000</td>
<td>Ogliuga Island</td>
</tr>
<tr>
<td>1945</td>
<td>R.F.A.Studds</td>
<td>PATTON</td>
<td>T-6999a</td>
<td>1:20,000</td>
<td>Kavalga Island</td>
</tr>
</tbody>
</table>

30. **Mean High-Water Line:**

The mean high-water line was delineated on the compilation base sheets using the plotting instrument except in a few places where the details which had been obtained from the field inspection were compiled from the photographs by graphic methods.

32. **Offshore Details:**

Offshore details were compiled by graphic methods and reconciled with the previous and contemporary hydrographic and topographic surveys of the area.

37. **Hydrographic Data:**

Hydrographic data are to be added to this compilation to the limits of the three manuscripts by the Nautical Chart Branch, "History of Hydrographic Information" attached.

40. **Quality of Contours:**

All contours on these manuscripts conform to the national standards of map accuracy for a contour interval of 50 feet; in areas where the supplemental 25 foot contour is shown, the accuracy conforms to the 25 foot interval requirement.

(Signature)

Louis J. Reed, Chief
Stereoscopic Mapping Section
<table>
<thead>
<tr>
<th>Name on Survey</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>K</th>
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<tr>
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<td>✓</td>
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<td>(for title)</td>
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<td>Aleutian Islands</td>
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<td>approved. 7-7-49 L. Heck</td>
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<td>5-22-50 A. J. W.</td>
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</tbody>
</table>

Survey No. T-5984
Review Report T-5984
Topographic Map
21 October 1949

62. Comparison with Registered Topographic Surveys

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-6976</td>
<td>1:20,000</td>
<td>1945</td>
</tr>
<tr>
<td>T-6980</td>
<td>1:20,000</td>
<td>1944</td>
</tr>
</tbody>
</table>

These surveys are superseded for nautical charting purposes by T-5984.

64. Comparison with Contemporary Hydrographic Surveys

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>H-7033</td>
<td>1:5,000</td>
<td>1944</td>
</tr>
<tr>
<td>H-7039</td>
<td>1:20,000</td>
<td>1945</td>
</tr>
<tr>
<td>H-7051</td>
<td>1:40,000</td>
<td>1945</td>
</tr>
</tbody>
</table>

These surveys were compared with T-5984 and they are in agreement.

65. Comparison with Nautical Charts

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>8863</td>
<td>1:300,000</td>
<td>1945, Corr. to 3/7/49</td>
</tr>
</tbody>
</table>

66. Adequacy of Results and Future Surveys

This map, T-5984, is a complete topographic map and has been compared and reconciled with all hydrographic and topographic surveys of record in this Bureau and becomes, therefore, the most authoritatively complete and accurate topographic map of record for the area covered of Ogliastra, Skagul, Ugedak and Tag Islands as of the date of this report.

There is no security classification designated for this area.

Adequate photo coverage, adequate horizontal control and instrument compilation methods ensure that this map meets the National Map Accuracy Standards.

No vertical accuracy tests have been made in the area of this map. See item 40 of the Compilation Report for accuracy statement on contours.

67. Recoverable Topographic Stations.-Form 524 cards have been submitted on the following marked recoverable topographic stations and are filed in the Division of Photogrammetry General Files:

- Daf: 1944
- Abe: 1944
- Twin: 1944
- Egg: 1944
The towers of an abandoned radio range station in the northeast part of Oglūga Island at approximate latitude 51°36.3’ and longitude 178°37.3’ were deleted from the manuscript. The towers are not apparent on the photographs. Only the building which occupied the center of the range is in existence.

Reviewed by:

K. N. Naki

Approved by:

S. Maffei
Chief, Review Section
Division of Photogrammetry

W. C. Edmonston
Chief, Nautical Chart Branch
Division of Charts

O. H. Reading
Chief, Div. of Photogrammetry

W. M. Adair
Chief, Div. of Coastal Surveys
HISTORY OF HYDROGRAPHIC INFORMATION
T-5964

Ogliuga, Skagul, Ugidak and Tag Islands Quadrangle
Delerof Islands, Aleutian Islands

Hydrography was applied to this topographic manuscript in accordance with general specifications of May 18, 1949, by Division of Photogrammetry; and with detailed specifications by A. M. S. "Technical Memorandum No. 35, XVII".

The soundings and depth curves are expressed in fathoms referred to mean lower low-water, and originate with the following surveys by this bureau:

H-7033 (1944) 1:5,000
H-7039 (1945) 1:20,000
H-7051 (1944-45) 1:40,000

The reliability of these surveys is considered good and complete except where kelp and rocky areas prevented development.

The depth curves were drawn at 1, 3 and 5 fathoms wherever developed, and at 10 fathoms. The danger curve was detailed from the photographs.

Hydrography applied by R. E. Elkins and verified by G. F. Jordan.

R. E. Elkins
Nautical Chart Branch
December 8, 1949