5983

Diag. Cht. No. 8863-2

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. Office No. T-5983

LOCALITY

State Aleutian Is., Alaska
General locality Delarof Islands
Locality Kavalga, Ogliuga (western extremity) and other small islands and rocks in their vicinity.

1944-'48

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

LIBRARY & ARCHIVES

DATE April 12, 1950
DATA RECORD

T-5983

Project No. (II): Ph-34(48)

Quadrangle Name (IV): Ogluiga Island

Field Office (III): Ships SURVEYOR, DERICKSON, E. LEISTER JONES, and PATTON

Chief of Party: O. D. Meaney

Photogrammetric Office (III): Officer-in-Charge: Louis J. Reed, Chief,

Stereoscopic Mapping Section

Copy filed in Division of Photogrammetry (IV)

Office Files

Instructions dated (II) (III): 16 April 1943

19 June 1945

8 April 1948

Method of Compilation (III): Stereoplanigraph

Manuscript Scale (III): 1:20,000

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

Scale Factor (III): 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

Publication date (IV): 

Geographic Datum (III): NA 1927

Vertical Datum (III): Mean sea level except as follows:

Elevations shown as (20) refer to mean high water

Elevations shown as (9) refer to sounding datum

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

LAG, 1944

Reference Station (III): G.P. Vol. 5, p. 204

Lat.: Long.: [Handwritten]

Plane Coordinates (IV): State: Zone:

Y= X=

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)
(II) (III)

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

Field Inspection by (Il): Oglivisa and Skagul Is.: L. C. Wilder -- July-Aug. 1944
Kavalga: R.F.A. Studds -- July 1945

Completion Surveys by (Il): None

Mean High Water Location (Il): (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 (Il): Ruling Machine
Projection and Grids checked by (Il): Wheatley E. Ward Jr.
Control plotted by (Il): Clarence E. Misfeldt
Control checked by (Il): John B. McDonald

Stereoscopic Control by (Il):

Stereoplanigraph

Manuscript delineated by (Il):
John B. McDonald

Photogrammetric Office Review by (Il):

Elevations on Manuscript checked by (Il):
Louis J. Reed

Date: 10 Feb. 1949
Date: 15 Dec. 1948
Date: 18 May 1949
Date: 20 April 1949
Date: 9 May 1949
Date: 22 June 1949
Date: 24 June 1949
PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>48-0-453</td>
<td></td>
<td>--------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>thru</td>
<td></td>
<td>10:00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>48-0-462</td>
<td>Sept</td>
<td>19</td>
<td>27:500</td>
<td>1.5' above MLLW</td>
</tr>
<tr>
<td>48-0-478</td>
<td></td>
<td>1948</td>
<td></td>
<td></td>
</tr>
<tr>
<td>thru</td>
<td></td>
<td>11:00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tide (III)

Reference Station: Sweeper Cove
Subordinate Station: Ulak Island

Land Area (Sq. Statute Miles) (III): 13 sq. mi.
Shoreline (More than 200 meters to opposite shore) (III): 43 miles
Shoreline (Less than 200 meters to opposite shore) (III): none
Control Leveling - Miles (II): none
Number of Triangulation Stations searched for (II): (111) 26
Number of BMs searched for (II): none
Number of Recoverable Photo Stations established (III): 18
Number of Temporary Photo Hydro Stations established (III): none

Remarks:

Date: 10-18-49
Date: 5-16-50
Date: 5-17-50

Form T-Page 4
Topographic map T-5983 is one of 40 similar maps in Project Ph-34(48). It covers all of Kavalga Island except its western extremity, the west end of Ogliagga Island and other small islands and rocks in their proximity. Field inspection was done on 1934 Navy five lens photographs and consisted of the identification of control points. Shoreline inspection was limited to a small section on the southwest tip of Ogliagga Island. Field operations for Kavalga and Ogliagga Islands were carried out by parties operating from the U.S.C. & G.S. Ships SURVEYOR and PATTON.

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 ("C") 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
10/13/49
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, Oglinga, 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".

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, Ogliuga, and E. half of Kavalga</td>
</tr>
<tr>
<td>1945</td>
<td>C.D. Meaney</td>
<td>SURVEYOR</td>
<td>H-7033</td>
<td>1:10,000</td>
<td>Pass between Skagul and Ogliuga</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. Meaney</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. Meaney</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-6992</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. It is recommended that the east edge of T-5934 be extended to include longitude W178° 30' - W178° 29' which will permit showing the ten fathom curve east of Ugidak Island. "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.

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>
</tr>
</thead>
<tbody>
<tr>
<td>Alaska</td>
<td>✓</td>
<td></td>
<td></td>
<td>(for title)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Aleutian Islands</td>
<td></td>
<td></td>
<td></td>
<td>n</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
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<td>Peralis Islands</td>
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<td>Pacific Ocean</td>
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<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Bering Sea</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>USGS</td>
<td></td>
<td>5</td>
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<tr>
<td>Oglunca Island</td>
<td></td>
<td></td>
<td></td>
<td>n</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
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<tr>
<td>Kovalga Island</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>Oglunca Pass</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8</td>
</tr>
</tbody>
</table>

Names underlined in red are approved. 7-7-49.

T. Heck

5-17-50 A. J.
62. Comparison with Registered Topographic Surveys

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-697/30</td>
<td>1:20,000</td>
<td>1945</td>
</tr>
<tr>
<td>T-6982</td>
<td>1:20,000</td>
<td>1944</td>
</tr>
<tr>
<td>T-6983</td>
<td>1:20,000</td>
<td>1945</td>
</tr>
</tbody>
</table>

These surveys are superseded for nautical charting purposes by T-5983.

64. Comparison with Contemporary Hydrographic Surveys

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>H-7033</td>
<td>1:40,000</td>
<td>1945</td>
</tr>
<tr>
<td>H-7039</td>
<td>1:20,000</td>
<td>1945</td>
</tr>
<tr>
<td>H-7050</td>
<td>1:40,000</td>
<td>1945</td>
</tr>
<tr>
<td>H-7051</td>
<td>1:40,000</td>
<td>1944-45</td>
</tr>
<tr>
<td>H-7052</td>
<td>1:20,000</td>
<td>1945</td>
</tr>
</tbody>
</table>

These surveys were compared with T-5983 and they are in agreement.

65. Comparison with Nautical Charts

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Date</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-5983, 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 of Kavalla and Oglina 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:
Trot  1945
Shag  1945
Punt  1945
Rush  1945
Cook  1945
Bump  1945
Gull  1945
Azimuth  1945 (U.S.E.)
Cove  1945

Reviewed by:

K. N. Maki
K. N. Maki

Approved by:

S. V. Griffin  3/24/40
Chief, Review Section
Division of Photogrammetry

[Signature]
Chief, Nautical Chart Branch
Division of Charts

O. S. Reading
Chief, Div. of Photogrammetry

[Signature]
Chief, Div. of Coastal Surveys
HISTORY OF HYDROGRAPHIC INFORMATION

T-5983

Kavalga Island and west end of Ogliuga Island, Delarof Islands, Aleutian Islands

Hydrography was applied to this topographic manuscript in accordance with general specifications of May 18, 1949, issued by the 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-7052 (1945) 1:20,000
H-7039 (1945) 1:20,000
H-7050 (1945) 1:40,000
H-7051 (1944-45) 1:40,000
H-7038 (1945) 1:40,000

The reliability of these surveys is considered good and complete except in large areas adjacent to the shore and in several detached areas in depths less than 10 fathoms where development was prevented by dangerous rocks and dense growth of kelp.

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