**U.S. COAST AND GEODETIC SURVEY**
**DEPARTMENT OF COMMERCE**

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>TOPOGRAPHIC</th>
</tr>
</thead>
</table>

**Field No.**

**Office No.**

**LOCALITY**

<table>
<thead>
<tr>
<th>State</th>
<th>Aleutian Islands, Alaska</th>
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<tbody>
<tr>
<td>General locality</td>
<td>Delarof Islands</td>
</tr>
<tr>
<td>Locality</td>
<td>Kävelga Island (western extremity)</td>
</tr>
</tbody>
</table>

**194 4-148**

**CHIEF OF PARTY**

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

**LIBRARY & ARCHIVES**

**DATE**

April 18, 1954
DATA RECORD

T-5982

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

Quadrangle Name (IV): Kavalga Island

Chief of Party: C. D. Meaney

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

Photogrammetric Office (III): Washington

Officer-in-Charge: Louis J. Reed, Chief, Stereoscopic Mapping Section

Instructions dated (II) (III): 16 April 1943
19 June 1945
8 April 1948

Copy filed in Division of Photogrammetry (IV)

Office Files

Method of Compilation (III): Stereoplanigraph

Manuscript Scale (III): 1:20,000

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

Scale: Plot: 27,500: 20,000: 20,000

Scale Factor (III): Photo: Instrument

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

Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date:

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 (2) refer to mean high water
Elevations shown as (2) refer to sounding datum
i.e., mean low water or mean lower low water

T-5982 - OFF, 1944

Reference Station (III): GP Vol. 5 p. 203

Lat.: Long: 33° 57' 24" N

Plane Coordinates (IV):

State: Washington

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.

Form T-Page 1
<table>
<thead>
<tr>
<th>LAST NAME</th>
<th>FIRST</th>
<th>MIDDLE INITIAL</th>
<th>LOCATION</th>
<th>EXTENSION</th>
</tr>
</thead>
<tbody>
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<table>
<thead>
<tr>
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<th>REPORT (✓)</th>
<th>HYDROGRAPHIC SHEET NUMBER</th>
<th>REPORT (✓)</th>
<th>OTHER MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-5982</td>
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<tr>
<td>T-5983</td>
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</tr>
<tr>
<td>T-5984</td>
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<td></td>
</tr>
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</table>

☐ Classified Material - Authorization: This is to certify that the above named employee is authorized to use the classified material listed hereon.

SIGNATURE OF AUTHORIZED OFFICIAL

Received for Delivery

Signature of Requester

Received for Return to Vault

ESSA FORM 62-3
(3-69)
PRESCRIBED BY C&GS
OFFICE CIRCULAR 63-1

VAULT MATERIAL RECEIPT
OPERATIONS & REQUIREMENTS DIVISION
U.S. DEPARTMENT OF COMMERCE
ESSA- COAST AND GEODETIC SURVEY

(See Instructions on Reverse)
INSTRUCTIONS

1. PRINT name of Requester, location (room and building) and phone.

2. Write Only Consecutive Numbers on this form.

3. Use a separate form for requesting Classified Material. (See 6 below).

4. Use blue for Hydrographic surveys and reports, pink for Topographic surveys and reports and white for all other material.

5. Copy number 1 (original) for Vault Numerical File - must be Signed and dated by Requester. Copy number 2 will be stamped "Canceled" and returned to Requester by Vault when Requester surrenders material. Copy number 3 for Vault Alphabetical File.

6. For withdrawal of Classified Material check the Classified Material Box and have an authorized official sign the Authorization.

ESSA FORM 62-3 (3-69) SUPERSEDES FORM C&GS-8359
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<thead>
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<tbody>
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<table>
<thead>
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<th>REPORT</th>
<th>HYDROGRAPHIC SHEET NUMBER</th>
<th>REPORT</th>
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<tbody>
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<td>T-8088</td>
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<thead>
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</thead>
</table>

<table>
<thead>
<tr>
<th>SIGNATURE OF AUTHORIZED OFFICIAL</th>
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</table>

<table>
<thead>
<tr>
<th>SIGNATURE</th>
<th>DATE</th>
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</tbody>
</table>

Received for Delivery

Signature of Requester

Received for Return to Vault

VAULT MATERIAL RECEIPT

(See Instructions on Reverse)
INSTRUCTIONS

1. PRINT name of Requester, location (room and building) and phone.
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ESSA FORM 62-3 (3-69) SUPERSEDES FORM C&GS-8359
Areas contoured by various personnel
(Show name within area)
(II) (III)

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

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

Planetable contouring by (II):

Completion Surveys by (II): None

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 Grid checked by (IV):
Wheatley E. Ward Jr.
K.N. Nakai

Control plotted by (III):
Clarence L. Misfeldt

Control checked by (III):
John B. McDonald

Radar Plotter Stereoscopic: Michael G. Misulia
Control extension by (III):

Stereoplanigraph:

Planimetry: Michael G. Misulia
Contours

Manuscript delineated by (III):
John E. McDonald

Photogrammetric Office Review by (III):

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

Date: 10 Feb. 1949
Date: 22 Mar. 1950
Date: 15 Dec. 1948
Date: 18 May 1949
Date: 20 April 1949
Date: 9 May 1949
Date: 22 June 49
Date: 24 June 49
**Camera (kind or source) (III):** USC&GS "O" Camera, 6" metrogon, cartographic

<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>
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<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>19</td>
<td></td>
<td>27:500</td>
<td>1.5' above</td>
</tr>
<tr>
<td>and</td>
<td>Sept</td>
<td></td>
<td></td>
<td>MILLW</td>
</tr>
<tr>
<td>48-0-478</td>
<td>1948</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>thru</td>
<td></td>
<td>11:00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>48-0-490</td>
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<td></td>
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</table>

**Tide (III)**

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>3.8</td>
</tr>
</tbody>
</table>

Reference Station: Sweeper Cove  
Subordinate Station: Ulak Island  

Washington Office Review by (IV): K.N. Maki
Final Drafting by (IV): Day, Hatty
Drafting verified for reproduction by (IV): Kupiec

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 13 sq. mi.
Shoreline (More than 200 meters to opposite shore) (III): 43 miles = 7.5982, 34.4
Shoreline (Less than 200 meters to opposite shore) (III): none
Control Leveling - Miles (ii): none
Number of Triangulation Stations searched for (ii): (111) 1/7 Recovered: 1/7 Identified: 1/7
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:
Topographic map T-5982 is one of 40 similar maps in project Ph-34(42). It covers the west end of Kavalga Island of the Delarof Group in the Aleutian Islands. Field inspection was done on 1934 Navy five lens photographs and consisted of the identification of control points. No shoreline inspection was furnished on the photographs with the exception of a few offshore rocks. Field operations for Kavalga Island were carried out by parties operating from the U.S.C. & G.S. Ship 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 ("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
10/14/49
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, Ogliga, and Skagul, plus several small rocky islands near by.

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 a 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 surveys filed in the Bureau Archives.

See N-7052 for graphic control report.
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 WREE 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-5005, 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>
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</table>
### 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-7033</td>
<td>1:10,000</td>
<td>Pass between Skagul and Ogliluga</td>
</tr>
<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; Ogliluga 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>Ogliluga Island</td>
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<tr>
<td>1945</td>
<td>R.F.A. Studds</td>
<td>PATTON</td>
<td>T-6998</td>
<td>1:20,000</td>
<td>Kavalga Island</td>
</tr>
</tbody>
</table>

### 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.

### Offshore Details:

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

### 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.

### 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
Stereoscopical 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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<td></td>
<td>6</td>
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</table>

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

L. Heck

52° 17' 50" N
70° 41' 0" W
Review Report T-5982
Topographic Map
14 October 1949

62. Comparison with Registered Topographic Surveys

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>T-6999</td>
<td>1:20,000</td>
<td>1945</td>
</tr>
<tr>
<td>T-8905</td>
<td>1:20,000</td>
<td>1946</td>
</tr>
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</table>

These surveys are superseded for nautical charting purposes by T-5982.

64. Comparison with Contemporary Hydrographic Surveys

<table>
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<tr>
<th>Survey</th>
<th>Scale</th>
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</thead>
<tbody>
<tr>
<td>H-7038</td>
<td>1:40,000</td>
<td>1945</td>
</tr>
<tr>
<td>H-7050</td>
<td>1:40,000</td>
<td>1945</td>
</tr>
<tr>
<td>H-7052</td>
<td>1:20,000</td>
<td>1945</td>
</tr>
</tbody>
</table>

These surveys were compared with T-5982 and they are in agreement.

65. Comparison with Nautical Charts

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

66. Adequacy of Results and Future Surveys.—This map, T-5982, 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 authoritative complete and accurate topographic map of record for the area covered on Kavala Island 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 has been submitted for the following marked recoverable topographic station and is filed in the Division of Photogrammetry General Files:

Andy, 1945
Reviewed by:

K.N. Makri

Approved by:

S.V. Griffin
Chief, Review Section
Division of Photogrammetry

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

O.T. Readly
Chief, Div. of Photogrammetry

W.M. Seife
Chief, Div. of Coastal Surveys
HISTORY OF HYDROGRAPHIC INFORMATION

T-5982

Kavalga Island (western extremity) Quadrangle
Delerof Islands, Aleutian Islands

Hydrography was applied to this topographic manuscript in accordance with general specifications of May 18, 1949, 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-7050 (1945) 1:40,000
H-7038 (1945) 1:40,000

The reliability of these surveys is considered good and complete except inshore 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
Neautical Chart Branch
December 8, 1949