

5984

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-5984

LOCALITY

State Aleutian Is. - Alaska

General locality Delarof Islands

Locality Ogliuga, Skagul, Ugidak and Tag Islands

194 4-'48

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

DATE

April 12 - 1950

B-1870-1 (1)

# DATA RECORD

T -5984

Project No. (II):

Ph-34(48)

Quadrangle Name (IV): Skagul Island

Field Office (II): Ships SURVEYOR, DERICKSON, Chief of Party: C. D. Meaney  
E. LESTER JONES, and PATTON

Photogrammetric Office (III):

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 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):

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 (25) refer to mean high water  
Elevations shown as (5) refer to sounding datum  
i.e., mean low water or mean lower low water

GUL, 1944

Reference Station (III):

G.P. Vol. 5, P. 201

Lat.:

Long.:

~~Adjusted~~  
~~Normal~~

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. Misulia  
 on  
 the Stereoplanigraph

# DATA RECORD

Field Inspection by (II):

Date:

Oglivga 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. Maki*

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**

~~Horizontal~~ Stereoscopic

**Michael G. Misulia**

Date: **20 April 1949**

Control extension by (III):

**Stereoplanigraph**

Planimetry

Date:

~~Stereoscopic~~ Instrument compilation (III):

**Michael G. Misulia**

**9 May 1949**

Contours

Date:

<sup>9</sup>  
Manuscript delineated by (III):

**John B. McDonald**

Date: **22 June 1949**

Photogrammetric Office Review by (III):

Date:

Elevations on Manuscript  
checked by (II):

**Louis J. Reed**

Date: **24 June 1949**

Camera (kind or source) (III): USC&GS "O" Camera, 6" metrogon, cartographic

PHOTOGRAPHS (III)

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

Tide (III)

Reference Station: **Sweeper Cove**  
Subordinate Station: **Ulak Island**  
Subordinate Station:

Diurnal

Ratio of Ranges	Mean Range	Spring Range
		<del>XXXX</del> 3.8

Washington Office Review by (IV): *K.N. Maki*  
Final Drafting by (IV): *M. Wabber, J. Battley*  
Drafting verified for reproduction by (IV): *C. Kupiec*  
Proof Edit by (IV):

Date: *10-21-49*  
Date: *5-22-50*  
Date: *5-22-50*  
Date:

Land Area (Sq. Statute Miles) (III): **13 sq. mi.**  
Shoreline (More than 200 meters to opposite shore) (III): **43 miles** - 7-5982, 3 + 4  
Shoreline (Less than 200 meters to opposite shore) (III): **none**  
Control Leveling - Miles (II): **none**  
Number of Triangulation Stations searched for (II): **none**  
Number of BMs searched for (II): **13**  
Number of Recoverable Photo Stations established (III): **13**  
Number of Temporary Photo Hydro Stations established (III): **none**

Recovered: **13**  
Recovered:

Identified: **13**  
Identified:

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 Ogliŋga 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*  
K. N. Maki  
10/21/49



## Field Inspection Report

### L. 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 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 chocked 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.*

COMPILATION REPORT  
T-5982, T-5983, T-5984

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:

<u>Date</u>	<u>Name</u>	<u>Ship</u>	<u>No.</u>	<u>Scale</u>	<u>Area Covered</u>
1944	C.D.Meaney	SURVEYOR	H-7039	1:20,000	Inshore around Skagul, Ogliuga, and E. half of Kavalga



29. Supplemental Data: (continued)

<u>Date</u>	<u>Name</u>	<u>Ship</u>	<u>No.</u>	<u>Scale</u>	<u>Area Covered</u>
1945	C.D.Meanev	SURVEYOR	H-7033	1:10,000	Pass between Skagul and Ogluga
1945	C.D.Meanev	SURVEYOR	H-7052	1:20,000	Inshore, Kavalga and Unalga

(b) Graphic Control Surveys:

1944	L.C.Wilder	DERICKSON	T-6980	1:20,000	Skagul & Ogluga Islands
1945	C.D.Meanev	SURVEYOR	T-6976	1:20,000	Ogluga Island
1945	R.F.A.Studds	PATTON	T-6999a	1:20,000	Kavalga Island

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.

  
Louis J. Reed, Chief  
 Stereoscopic Mapping Section

# GEOGRAPHIC NAMES

Survey No. T-5984

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K
✓ Alaska ✓			(for title)						1
✓ Aleutian Islands ✓			"						2
✓ Delarof Islands ✓			"						3
✓ Pacific Ocean ✓									4
✓ Bering Sea ✓								USGB	5
									6
✓ Ogluga Island ✓								USGB	7
✓ Skagul Pass ✓									8
✓ Skagul Island ✓								USGB	9
✓ Tag Island ✓									10
✓ Ugidak Island ✓									11
✓ Tenaga Pass ✓									12
									13
Constantine Harbor			Since there is a much better known						14
			Constantine Harbor only a short distance to						15
			the westward (SE end of Amchitka I), the						16
			duplication of the name is not advisable						17
									18
									19
									20
									21
									22
									23
									24
									25
									26
									27

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

L. Heck

5-22-50

a. j. w.

Review Report T-5984  
Topographic Map  
21 October 1949

62. Comparison with Registered Topographic Surveys

T-6976	1:20,000	1945
T-6980	1:20,000	1944

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

64. Comparison with Contemporary Hydrographic Surveys

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

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

65. Comparison with Nautical Charts

8863	1:300,000	1945, Corr. to 3/7/49
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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 Ogliinga, Skagul, Ugidak 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

Page 2.

Review Report T-5984

The towers of an abandoned radio range station in the northeast part of Oglinga Island at approximate latitude  $51^{\circ}36.3'$  and longitude  $178^{\circ}37.3'$  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. Maki  
K. N. Maki

Approved by:

S. V. Higgins  
Chief, Review Section  
Division of Photogrammetry *DSH*

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

O. S. Reading  
Chief, Div. of Photogrammetry

W. M. Acaife  
Chief, Div. of Coastal Surveys *ep*

# HISTORY OF HYDROGRAPHIC INFORMATION

T-5984

Ogliuga, Skagul, Ugidek and Tag Islands Quadrangle  
Delarof 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