

8005

Diag Cht. No. 8863-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey PHOTOGRAMMETRIC SHORELINE

Field No. _____ Office No. T-8005

LOCALITY

State ALASKA

General locality DELRORF ISLANDS

Locality KAVALGA, OGLIUGA, AND SKAGUL ISLANDS

194 4 & 45

CHIEF OF PARTY

Photogrammetry, Wash., D. C.
C. D. Meaney, Chief of Party, Division

LIBRARY & ARCHIVES

DATE August 10, 1951

DATA RECORD

T- 8005

Quadrangle (II):

Project No. (II):

Field Office:

Chief of Party: L. C. Lande, Chief
Graphic Compilation

Compilation Office:

Chief of Party: K. T. Adams

Washington, D. C.

Instructions dated (II III):

~~Copy filed in Descriptive~~
~~Report No. T (VI)~~

None

Completed survey received in office: July 1946

Reported to Nautical Chart Section: July 1946

Reviewed: 12-8-50 Applied to chart No. Date:

Redrafting Completed:

Registered: 7/16/50

Published: _____

Compilation Scale: 1:20,000

Published Scale: _____

Scale Factor (III): 1.00

Geographic Datum (III): Unalaska

Datum Plane (III): M.H.W.

Reference Station (III): Kavalga, 1944

Lat.: [REDACTED]

Long.: [REDACTED]

Adjusted
Unadjusted

State Plane Coordinates (VI):

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
453-469 inclusive	1934		1:24,000 (approx.)	Unknown

Tide from (III):

Mean Range: _____ Spring Range: _____

Camera: (Kind or source) Navy - five-lens camera

Field Inspection by: M.V.E. Lester Jones (Skagul) date: 1944
(Ogliuga)

M.V. Patton (Kavalga) 1945
Field Edit by: *C.D. Meadney, L.C. Wilder* date:

Date of Mean High-Water Line Location (III):

Projection and Grids ruled by (III) S. R. date: 6-13-46

" " " checked by: K. N. Maki date: 6-13-46

Control plotted by: Trans. ^{form} Graphic date: June 1946
Control sheets

Control checked by: date:

Radial Plot by: K. N. Maki date: June 1946

Detailed by: K. N. Maki date: July 1946

Reviewed in compilation office by: *G.B. Willey* date: *July 1946*

Elevations on Field Edit Sheet
checked by: Not applicable date:

STATISTICS (III)

Land Area (Sq. Statute Miles):

Shoreline (More than 200 meters to opposite shore):

Shoreline (Less than 200 meters to opposite shore):

Number of Recoverable Topographic Stations established:

Number of Temporary Hydrographic Stations located by radial plot:

Leveling (to control contours) - miles:

Roman numerals indicate whether the item is to be entered by, (II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname and initials (not initials only).

Remarks:

T-8005
Compilation Report

26. Control

The control for the radial plot consisted of triangulation stations, topographic stations, offlying rocks and short sections of rodded shoreline, transferred from graphic control sheets T-6999a, T 6976 and T-6980. The control used is summarized by the respective island it falls on as follows:

Kavalga Island - Triangulation station Kavalga, 1944 and ^aLog, = L29 1944 were held. Triangulation station Off, 1944 was not held. This station appears to be picked in error on the field inspection photographs. Topographic stations Rock, Wad, Gab, Gull, Sal, Jar, Cook, Rush, Shag, Beehive Pinnacle, Out and Wee were held. The last four named stations were held only fair. In addition topographic stations Lak, Top, Dag and Dip, identified from office inspection of the photographs, were held. Four rocks located on the Graphic Control sheet were also held. The above control was transferred from T-6999a. *This sta. replotted in correct position. Original plotted position in error. K.H.M. 12/4/50*

Ogliuga Island - Triangulation station Bac, 1944, Cab, 1944, Fad, 1944, Tog, 1944 and Item, 1944 were held. The last named station was identified from office inspection of the photographs. Triangulation station Had, 1944 was not held. The intersection of rays fell approximately 0.5 mm north of the station. Topographic stations Daf, Abe, Twin, Egg and Ulm were held. Station Ulm was held only approximately as identification of the station was indefinite. No rocks or other features taken from the Graphic Control Sheets were held. The above control was transferred from T-6976 and T-6980.

Skagul Island - Triangulation station Cab 1944, Tag 1944, and Item 1944 were held. Station Item, 1944 was identified from office inspection of the photographs. Topographic stations Daf, Abe, Twin, Ulm and Egg were held. Station Ulm was held only approximately. The above control was transferred from T-6976 and T-6980.

27. Radial Plot

The radial plot was a continuous celluloid templet plot covering Kavalga Island, Oliuga Island and Skagul Island. The control density and control identification was considered adequate. This was offset to some extent by the quality of the photographs and the position of the flight lines in relation to the islands.

The 1934 Navy five lens photographs used in making the plot were subject to paper shrinkage and movement from true alignment on their cardboard mounts.

The flights ran along one side of the islands with photo centers generally in the water. This eliminated giving weight to the flight

lines which are an important aid in carrying a plot forward and since the control fell on one side of a photograph a very positive fix could not be obtained for the majority of the photographs. The statement above that the control density and identification was adequate means that due to the arrangement of the flight lines additional control would not have greatly affected the fix of any particular photograph. The templets covering the eastern end of Kavalga Island and the water area between Kavalga and Ogliuga Islands were the most difficult to lay. All intersections were considered fairly good but these were not based on too strong fixes especially in the water area where only a few rocks and very small islands were available for pass points and triangulation was at a minimum.

Despite the shortcomings of the photographs and coverage the radial plot was considered generally good.

28. Detailing

The quality of the photographs for purposes of detailing was considered only fair. The smaller scale (1:24,000 approx.) and the foggy appearance made interpretation and transfer of detail somewhat difficult. Only a small percentage of the area had field inspection of shoreline and off lying rocks. Much of the office interpretation of shoreline was based on what little field inspection had been made. Small sections of shoreline and low water line had been rodded in on the Graphic Control sheets. This, compared with the photographs, also furnished a basis for correct interpretation. In a few instances there was some question as to the limits of the shoreline, and what to classify as ledge beyond the mean high water line. However, if there should be a discrepancy in interpretation of actual conditions, the position of the feature would be correct, the only difference being whether its outer limit is indicated in a solid line for shoreline or with an indented line for ledge formation.

The south shore of Kavalga Island was the least clear and most difficult to detail due to shadows cast by the bluffs bordering it. The detail fell in the wing chambers on the photographs.

All features on the Map Manuscript shown in red acetate ink were transferred directly from the Graphic Control sheets. These sheets are listed in the control summary for the respective islands. No attempt was made to change the shape or interpretation shown in red other than to add additional rocks or small bits of shoreline in black ^{acetate} ink wherever their presence was evident on the photographs.

All three islands are bordered by bluffs. Those on Kavalga appear high and steep diminishing in height somewhat at the eastern end of the island. The bluff line is very definitely on Ogliuga Island but much more moderate than Kavalga Island. Skagul Island is also marked by a bluff-like rim which appears quite moderate in height and steepness. These bluff lines are shown as dashed lines on the Map Manuscript. The more prominent drainage is included.

29. Supplemental Data

Graphic Control sheets T-6999a, T-6976 and T-6980 were used to supplement the photographs. They are all at a scale of 1:20,000 and their use in connection with this compilation has been noted in the body of this report. All features such as shoreline, rocks, reefs, and man made structures shown on the Graphic Control sheets have been accepted as correct and all additional detail has been adjusted or tied to this previous field work. This sheet ^{sedg}superseeds the detail shown in green ink on T-6976.

30. Mean High-Water Line

The mean high-water line has been interpreted from a combination of field inspection, plane table location and office inspection. The mean high-water line has been shown as a full heavy-weight black ^{acetate}ink line.

31. Low Water and Shoal Lines

The low-water line has been indicated where evident by the symbol for rocky ledges, the low-water line being the offshore edge of the symbol. Where the low water line has been rodded in, it is shown as a dash-dot line in red ^{acetate}ink.

Foul areas have been shown by a dashed black ^{acetate}ink line with the word "Foul" printed in the area.

32. Details Offshore from the High-Water Line

Details offshore have been shown with the conventional symbols.

33. Wharves and Shoreline Structures

Wharves and shoreline structures were not apparent and none are shown.

35. Hydrographic Control

No additional hydrographic control was located by radial plot.

36. Landing Fields and Aeronautical Aids

A radio range station and a landing strip have been shown on Ogliuga Island. This data was transferred from the Graphic Control Survey.

44. Comparison with Existing Topographic Quadrangles

No topographic maps are available for comparison in the area of this Map Manuscript.

45. Comparison with Nautical Charts

An approximate comparison was made with Nautical Chart No. 8863, scale 1:301,800, 1945. No particular discrepancies noted due to large scale difference.

Hydrographic Survey No. 7033, scale 1:5,000, 1944 covers the area of Skagul Pass. No evident discrepancies are present between the Map Manuscript and the Hydrographic Survey unless they be of a very minute nature. When the Hydrographic sheet becomes available, it will be compared with this manuscript. Indicated changes or additions will be made on this manuscript in green ^{acetic} acid ink, after which T-8005 will ^{red}superseed graphic control sheets T-6999a, T-6980 and T-6976. *

Approved by:

G. B. Willey
G. B. Willey

Submitted by:

K. N. Maki
K. N. Maki

7/3/46

* Due to lack of detailed field inspection notes, the ledge and rocks awash (details outside of high water line) are subject to errors in office interpretation and for this reason are not considered complete until the inshore hydrographic surveys are available for comparison. This manuscript will be held in the Div. of Photogrammetry as an incomplete manuscript until this comparison is made and necessary corrections made to details below M.H.W. as stated above.

W. J. Jones
7/23/46

T-8005 (Supplemental)

45 Comparison with Nautical Charts

Sheet T-8005 was compared with the most recent Hydrographic Surveys of the area. None of these surveys were found to conflict with the shoreline and offshore features as shown on Sheet T-8005.

The following Hydrographic Surveys were compared with Sheet T-8005:

H-7038	1:40,000	1945
H-7050	1:40,000	1945
H-7051	1:40,000	1945

Submitted:

K. N. Maki
K. N. Maki 5-1-46

Approved:

L. C. Lande

All of the hydrography in this area is not yet in and comparisons remain to be made with the remaining hydrography.

*See complete
list in Review Report
K.N.M.*

B. G. Jones 8-2-46

GEOGRAPHIC NAMES

Survey No.

T 8005

Name on Survey

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
A	B	C	D	E	F	G	H	K	
Skagul I.									1
Skagul Pass									2
Oglinga I.									3
Oglinga Pass									4
Kavalga I.									5
Delarof Is.									6
Aleutian Is.									7
									8
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									M 234

Names approved

12-7-50

A. J. W.

Review Report T-8005
Shoreline Map
8 December 1950

62. Comparison with Registered Topographic Surveys.-

T-6999a,	1:20,000	1945
T-6976,	1:20,000	1945
T-6980,	1:20,000	1944

T-8005 supersedes these surveys for nautical charting purposes. More recent surveys in this area which supersede all previous maps are the following topographic quadrangles.

T-5982,	1:20,000	1948
T-5983	1:20,000	1948
T-5984	1:20,000	1948

63. Comparison with Maps of other Agencies.- None

64. Comparison with Contemporary Hydrographic Surveys.-

H-7033	1:5,000	1944
H-7038	1:40,000	1945
H-7039	1:20,000	"
H-7049	1:60,000	"
H-7050	1:40,000	"
H-7051	1:40,000	1944-45
H-7052	1:20,000	1945

There are no critical differences between T-8005 and the hydrographic surveys. A number of rocks awash and small reefs, generally close inshore, are shown on H-7039 but not on T-8005.

65. Comparison with Nautical Charts.-

8863	1:300,000	Ed. 1945
9102	1:1,126,303	Ed. 1948, Corr. 3-8-48

There are no significant differences between T-8005 and the nautical charts.

66. Adequacy of Results and Future Surveys.- This map is adequate as a shoreline base for hydrographic surveys and the construction of nautical charts. Later surveys T-5982-83-84, as noted under item 62, are now available.

This map is classified "Restricted".
Reviewed by:

K. N. Maki
K. N. Maki

APPROVED

L. V. Griffith
Chief, Review Section
Div. of Photogrammetry

OS Reading
Chief, Div. of Photogrammetry

H. Edmonston
Chief, Nautical Chart Branch
Division of Charts

W. M. Laife
Chief, Div. of Coastal Surveys
A.H.