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Form 504 Rev. Dec. 1933	
DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY R. S. PATTON, Director	
DESCRIPTIVE REPORT	
Topographic <del>HYDROGRAPHIC</del>	Sheet No. T-6711
U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES AUG 15 1940 Acc. No. ....	
State <u>ALASKA Aleutian Is.</u>	
LOCALITY	
<u>UMNAK ISLAND</u>	
<u>CAPE SAGAK and</u>	
<u>Adugak Is.</u>	
1939	
CHIEF OF PARTY	
<u>RAY L. SCHOPPE</u>	<u>H. &amp; G. E.</u>

U. S. GOVERNMENT PRINTING OFFICE: 1934

DECLASSIFICATION BY NOAA  
PURSUANT TO DOC SYSTEMATIC REVIEW  
GUIDELINES AS DESCRIBED IN SECTION  
3.3 (a), EXECUTIVE ORDER 12356

Applied to chf. 8802 J.M.A. Nov. 1940

" " Completion 8861 J.M.A. Feb. 5, 1942

" " " 9025 J.M.A. Mar. 1942

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. G-39

Project HT-218

REGISTER NO. T-6711

State ~~Alaska~~ Aleutian Islands

General locality Unnak Island

Locality Cape Sagak and <sup>26</sup>Adugeta Is.

Scale 1:20,000 Date of survey June & July, 19 39

Vessel Ship SURVEYOR

Chief of party Ray L. Schoppe

Surveyed by J. M. Smook & J. C. Partington

Inked by H. J. Oliver

Heights in feet above MHW to ground ~~to tops of trees~~

~~Contours, approximate contours~~ Form line interval 100 feet

Instructions dated February 3, 19 38

Remarks: \_\_\_\_\_

## DESCRIPTIVE REPORT

to accompany

Topographic Sheet, Field No. G-39, Register No. T-6711. (1939)

Cape Sagak, Ummak Island, Alaska.

U.S.C. & G.S. Ship SURVEYOR

RAY L. SCHOPPE, Comdg.

### INSTRUCTIONS

This survey was accomplished in accordance with the Director's instructions dated Feb. 3, 1938, Project HT-218.

### GENERAL DESCRIPTION

This sheet covers the southwest end of Ummak Island and Adugak Island. Cape Sagak extends in a southwesterly direction. It is generally low with rolling hills which are entirely grass covered. The area of this sheet is used as grazing land for sheep and cattle. The shores are mostly rocky with short stretches of sand beach.

### CONTROL

This sheet is controlled by second and third order triangulation accomplished in 1938 and 1939. Station HOOK was established and marked in 1939 by a field party from the ship SURVEYOR. Station LOAF 1939 was also located by the same party. LOAF is an unmarked intersection station located by intersections from SAGAK 1939 and HOOK 1939. It is the highest point of Breadloaf Island.

### SURVEY METHODS

The topography of Adugak Island was accomplished by Lieut. J.M. Smock and the remainder of the sheet was done by the writer. The sheet was done entirely by plane-table methods, except for a portion of the low water line which was located by sextant fixes and estimated distances.

High water line was located by stadia from plane-table set-ups along the shore; at the same time elevations were obtained by vertical angles and cuts. The outer limits of ledges and reefs were located at the time of low water except for the ledge on the south shore of the cape at the eastern end of the sheet. In this area the outer edge of the rocky ledge was located at the lowest stage which the tide reached during a period of about two weeks; although this was not extreme low water. The dashed line shown outside the ledge symbol was located from a boat by sextant fixes and estimated distances to the line of breakers. At the time it was possible to approach the breakers within 100 to 200 meters.

The only traverse run on this sheet was between triangulation stations NIKOL and LAKE. The traverse closed with an error of two meters and no adjustment was made. Along the north shore from triangulation station NIKOL to triangulation station SAGAK, the position of the plane-

See Rev.  
Part 1a

SURVEY METHODS (Cont'd)

table was obtained by solving the three point problem, and no traverses were necessary. The positions of the topographic stations on the south shore of Cape Sagak were obtained by cuts from triangulation stations and by resections. This method was used from triangulation station SAGAK to triangulation station HOOK. From triangulation station HOOK to the eastern limit of the sheet a combination of cuts, resections, and solutions of the three point problem were used to locate the plane-table.

The shoreline of the two lakes was obtained by stadia methods from plane-table set-ups after solving the three point problem.

Form lines were sketched in the field as the survey progressed.

COMPARISON WITH CHARTS

On account of the difference in scale no detailed comparison was made between this sheet and chart 8802.

*See Hydrog. Ship Chart 8802  
In regard to Samken rocks  
between C Sagak and Samalga*

JUNCTION WITH CONTEMPORARY SURVEYS

The east end of this sheet joins topographic sheet T-6712 and the junction is satisfactory. *(1939)*  
*See Rev., par. 1a*

Geographic NAMES

All geographic names shown on this sheet were taken from chart 8802 with the exception of Breadloaf Island. This is a small island not named on the chart, about 70 feet high, which has somewhat the appearance of a loaf of bread when viewed from seaward. The name Breadloaf Island is suggested by the field party. The other names are in local use.

MAGNETIC OBSERVATIONS

Magnetic meridians were observed at three triangulation stations with declinoaire No. 232. This declinoaire was checked on April 11, 1940 at the magnetic station at Seward Park, Seattle, Wash. Its index correction was found to be plus 0° 41.5% easterly.

STATISTICS

Statute miles of shoreline - - - - - 30.7  
Square statute miles of area - - - - - 4.5

Respectfully submitted,

*J. C. Partington*  
J. C. Partington, Jr. H. & G. E.  
Topographer

Examined and approved

*Ray L. Schoppe*  
RAY L. SCHOPPE H. & G. E.  
Chief of Party

*Inspected & forwarded*  
*A. M. Sobiralski*  
Officer in Charge,  
Seattle Processing Office

## Remarks.

## Decisions

1		525690
2		VS6B
3	Do not LNK pending VS6B. decision	525690
4		525690
5		VS6B
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## GEOGRAPHIC NAMES

Survey No.

T6711

GEOGRAPHIC NAMES											
Survey No. T6711											
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		
<u>Adugak Island</u>										1	
<u>Bering Sea</u>										2	
Breadloaf Island										3	
<u>Cape Sagak</u>										4	
<u>Umnak Island</u>										5	
<u>Idaliuk Pt.</u>										6	
Names underlined in red approved by L. Heck on 9/4/40										7	
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# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT  
PHOTOSTAT OF

~~No. H~~

No. T T6711

received Aug. 15, 1940  
registered Aug. 16, 1940  
verified  
reviewed  
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
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RETURN TO

82	T. B. Reed
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✓ *TBR*

DIVISION OF CHARTS

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6711 (1939) FIELD NO. G-39

Aleutian Islands, Umnak Island, Cape Sagak and Adugak Island  
Surveyed in June and July 1939, Scale 1:20,000  
Instructions dated February 3, 1938 (SURVEYOR)

Plane Table Survey

Aluminum Mounted

Chief of Party - R. L. Schoppe.  
Surveyed by - J. M. Smook and J. C. Partington.  
Inked by - H. J. Oliver.  
Reviewed by - Harold W. Murray, August 21, 1940.  
Inspected by - H. R. Edmonston.

1. Junctions with Contemporary Surveys.

- a. The junction on the northeast with T-6712 (1939) is satisfactory. There is some difference, however, in the delineation of the ledge detail on the south side of the island. T-6712 shows a rocky ledge symbol extending 400 m. offshore. The present survey shows a ledge extending only 200 m. offshore. An extreme low water line shown in black and located by sextant angles and distances from a boat falls an additional 200 m. further offshore where it coincides with the ledge limits of the adjoining sheet. For charting purposes, the ledge limits on the present survey should be considered as extending out to the above mentioned low water line.
- b. The south west limits of the present survey represent the continental limit of Umnak Island, T-6710 (1939), however, covers Samalaga Island about 2 miles southwest of the present survey.

2. Comparison with Prior Surveys.

No prior surveys have been made in this area by this Bureau.

3. Comparison with Chart 8802 (New Print dated Dec. 21, 1939).

a. Topography.

Topography shown on the chart originates with miscellaneous sources and as charted is shown about 2 miles southwest of the present survey position. The present survey covers the essential features and supersedes this miscellaneous information.

b. Magnetic Meridian.

The magnetic meridians determined at three triangulation stations agree closely with the interpolated charted value. The descriptive report, page 2, states that the declinatoire was checked at the beginning of the next season's work and found to have an index correction of plus 0° 41.5'.

4. Condition of Survey.

- a. The inking of the shoreline and other topographic details is satisfactory. On Adugak Island, the elevations were inked with a mechanical lettering set. It is preferable that these elevations be inked in small freehand lettering as was done on the main body of the sheet. Two elevations of 105 and 160 feet on the west side of this island group are unaccompanied by the 100 foot form line interval. It is assumed that the form line is too small for charting purposes and has been omitted.
- b. The descriptive report is clear and satisfactorily covers all matters of importance.

5. Compliance with Instructions for the Project.

The plan, character and extent of the survey satisfy the instructions for the project. Two additional recoverable stations, however, should have been established along the south shore to comply with the requirement (par. 15b of Instructions) that such stations be established along the open coast at approximately one mile intervals.

6. Additional Field Work Recommended.

This is a satisfactory survey and no additional field work is required.

7. Superseded Surveys.

None.

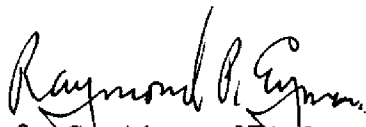
Examined and approved:



T. B. Reed,  
Chief, Section of Field Records.



Chief, Division of Charts.



Chief, Section of Field Work.



Chief, Division of H. & T.