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Form 504  
Rev. April 1935  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

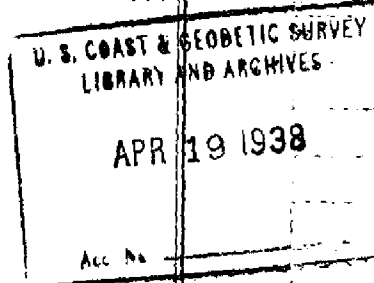
**DESCRIPTIVE REPORT**

Topographic }  
~~Hydrographic~~ } Sheet No. AL-37

State Aleutian Islands  
~~ALASKA~~

LOCALITY  
~~ALEUTIAN ISLANDS~~  
AKUN ISLAND  
AKUN COVE

1937  
CHIEF OF PARTY  
A. M. SOBIERALSKI



applied to chart 8860 Dec. 1, 1938

J.G.L.

" " Compilation 9005 Mar. 1943

F.M.A.

" " " 8720 " "

G.H.S.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEYU. S. COAST & GEODETIC SURVEY  
LIBRARY & ARCHIVES

APR 20 1938

REG. NO.

## TOPOGRAPHIC TITLE SHEET

Acc. No.

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

Field Letter AL-37 T-6601

REGISTER NO.

State ~~ALASKA~~ Aleutian Islands  
General locality ~~ALEUTIAN ISLANDS~~ Akun Island  
Locality AKUN COVE - AKUN ISLAND  
Scale 1:20,000 Date of survey August, 19 37  
Vessel U. S. C. & G. S. S. SURVEYOR  
Chief of Party A. M. SOBIERALSKI  
Surveyed by F. A. RIDDELL  
Inked by F. A. RIDDELL  
Heights in feet above MHW to ground ~~to tops of trees~~  
Contour ~~Approximate contour~~ Form line interval 100 feet  
Instructions dated April 13, 19 34  
Remarks:



DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET No. A.L. 37 T-6601AKUN ISLAND, ALASKASEASON 1937

U.S.C.&amp;G.S.S. SURVEYOR

A. M. Sobieralski, Com'd'g.

AUTHORITY:

The Director's Instructions dated April 13, 1934.

EXTENT:

This sheet covers Akun Cove on the east side of Akun Island from the northeast tip of the island (triangulation station NEAT) to triangulation station BITE, Latitude  $54^{\circ} 12' 19''$ , Longitude  $165^{\circ} 30' 1''$ .

GENERAL DESCRIPTION:

Rugged rocky cliffs rise abruptly from the waters edge. They are fringed with large boulders, reefs and thick kelp. The three lakes or lagoons are separated from the outer coast by low strands of sand and gravel beach. They have no visible outlets but apparently maintain a certain level by seepage through the dyke like beach. Most of the valleys are semicircular, <sup>bowl</sup> ~~basin~~-like in shape, and are lined with a thick mat of grass. The peaks are sharp, flat sided and rocky.

SURVEY METHODS:

The plane table and stadia were used with no deviation from standard practice. Short traverses, which in all cases closed flat, were run between triangulation stations. The control was such that the location of nearly all topographic signals could be checked by intersecting cuts. Streams, ridge lines and the delineation of the shoreline around the lakes were obtained from the air photographs.

The magnetic meridian was observed at triangulation station MID where observations for the magnetic declination were made with the compass declinometer.

JUNCTIONS:

This sheet joins topographic sheet <sup>T-4931</sup> K.B. 35 on the north at triangulation station NEAT. The form lines on sheet K.B. 35 were rather sketchy so with aid of the air photographs they were revised, until a satisfactory junction was reached. As this portion of the island was not actually viewed by this topographer the form lines are shown as dashed lines.

On the south this sheet joins sheet <sup>T-4918</sup> K.F. 34 at triangulation <sup>station</sup> BITE. A slight revision of the form lines was necessary in order to make a junction.

CONTROL:

The control for this survey consisted of well located second and third order triangulation. ✓

COMPARISON WITH PREVIOUS SURVEYS:

This sheet was compared with sheet T 2546 - 1901 and it was noted that the general configuration of the shoreline and features was the same. However, because of the difference in scale of the two surveys no detailed comparison was made. ✓

NAMES:

The name BILLINGS HEAD is suggested for the northeast point of Akun Island in honor of Captain Joseph Billings, an Englishman, who commanded a scientific exploring expedition for the Russian government. (See Bancroft's "History of Alaska", vol. XXXIII.) ✓



LIST OF TOPOGRAPHIC SIGNALS

<u>NAME</u>	<u>DESCRIPTION</u>
Able - - - - -	Whitewash on offshore rock
Ace	Whitewash
Apt - - - - -	Whitewash on pinnacle rock
Bad	Whitewash
Band	Whitewash
Can	Whitewash
Cast	Whitewash
Dash	Whitewash
Deb	Whitewash
Elk	Whitewash
Ever	Whitewash
Fish	Whitewash
Fun	Whitewash
Gas	Whitewash
Gold	Whitewash
Ham	Whitewash
Hank	Whitewash
Ice	Whitewash
Item	Whitewash
Jagged - - - - -	Highest point on ridge
Jar	Whitewash
Joke	Whitewash
Keg	Whitewash
Kick	Whitewash
Lap	Whitewash
Land - - - - -	Whitewash on face of Sphinx-like rock
Milk	Whitewash
Mud	Whitewash
Nit	Whitewash
Navy - - - - -	Whitewash on large offshore rock
Oak	Whitewash
Only	Whitewash
Pant	Whitewash
Pay	Whitewash
Pike - - - - -	Top of Peak
Quit	Whitewash
Rake	Whitewash
Rot	Whitewash
Set	Whitewash
Slim	Whitewash
Tax	Whitewash
Tell	Whitewash
Uke	Whitewash
Ugly - - - - -	Whitewash on offshore rock
Very	Whitewash
Vet	Whitewash
What	Whitewash
Win	Whitewash
Xray	Whitewash
Zany	Whitewash
Zeb	Whitewash

STATISTICS:

Statute miles of shore line	12.2
Area in square statute miles	29
Number of elevations	156

Respectfully submitted

*Fred A. Riddell*  
FRED A. RIDDELL  
Jr. H.&G.E.

Approved and Forwarded

*A. M. Sobieralski*  
A. M. SOBIERALSKI  
Commanding Officer  
U.S.C.&G.S.S. SURVEYOR

# GEOGRAPHIC NAMES

Survey No. T-6601

Name on Survey	<div style="display: flex; justify-content: space-between; font-size: small;"> <div>On Chart No. <b>8860</b></div> <div>On previous survey No. <b>T-2546</b></div> <div>On U. S. quadrangle Maps</div> <div>From local information</div> <div><b>Bakers Dict</b> <del>On local Maps</del></div> <div>P. O. Guide or Map</div> <div>Rand McNally Atlas</div> <div>U. S. Light List</div> </div>										
	A,	B,	C,	D	E	F	G	H	K		
✓ <u>Bering Sea</u>	✓									1	
✓ <u>Akun Cove</u>	✓	✓			✓					2	
✓ <u>Akun Island</u>	✓									3	
<i>Billings Head</i>										4	
										5	
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<div style="border: 1px solid black; padding: 5px; display: inline-block;"> Names underlined in red approved  by <u>GLE</u> on <u>5/31/38</u> </div>										26	
										27	



## Remarks

## Decisions

1	USGB decision	
2		
3	USGB decision	
4	Left in pencil until approval by USGB Name recommended by field party	Submitted to USGB
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27	by                      on	
M 234		

18

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT  
~~PHOTO STAT COPY~~

~~No. 111~~

No. T -6601

received April 19, 1938  
registered May 24, 1938  
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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✓ JBR



Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6601 (1937) FIELD NO. AL-37

Akun Cove, Akun Island, Alcutian Islands.

Surveyed in August 1937, Scale 1:20,000.

Instructions dated April 13, 1934 (SURVEYOR)

Plane Table Survey.

Aluminum Mounted.

Chief of Party - A. M. Sobieralski.

Surveyed by - F. A. Riddell.

Inked by - F. A. Riddell.

1. Condition of Survey.

The survey is neat and legible and conforms to the requirements of the Topographic Manual.

The Descriptive Report is clear and satisfactorily covers all items of importance except that it contains no statement as to whether there are chartable landmarks in this area. Page 3 of the Descriptive Report containing an alphabetical list of topographic signals with a brief descriptive of each is a commendable addition.

2. Compliance with Instructions for the Project.

The plan, character and extent of the survey satisfy the instructions for the project.

3. Junctions with Contemporary Surveys.

- a. The junction with T-4930 (1935) in lat.  $54^{\circ}12'$ , long.  $165^{\circ}35'$  is satisfactory.
- b. Junctions are made with T-4931 (1935) on the north and west and with T-4918 (1934) on the southeast. The formline area common to the present survey and the others is quite extensive in that it comprises approximately 9 square statute miles. Good agreement in identical formlines exists in but a few places since differences of as much as 650 m. are noted. The topographer (see Descriptive Report, Page 1) was aware of these discrepancies in the field and has extended and revised the formlines with the aid of air photographs until a satisfactory junction was made. For charting purposes, the present survey should be used to its limits and charting then continued from the adjacent 1934-35 surveys. In several instances, however, it will be necessary for the compiler to make arbitrary adjustments as for example at the south tip of the ridge in lat.  $54^{\circ}11.7'$ , long.  $165^{\circ}30.9'$ .

- c. In the vicinity of lat.  $54^{\circ} 11'$ , long.  $165^{\circ} 33'$ , an inland holiday of approximately  $3\frac{1}{2}$  square statute miles exists between the junction of the present survey with T-4918 (1934) on the east, T-6241 (1934) on the south and T-4930 (1935) on the west. For charting purposes, this area may be generalized by using as a guide, the form lines on T-2546 (1901) which covers this area.

4. Comparison with Prior Surveys.

T-2546 (1901) scale 1:40,000.

This survey covers the entire area of the present survey.

a. Shoreline

The shoreline agrees closely with the present survey except that in a few areas and particularly in the vicinities of lat.  $54^{\circ} 13'$ , long.  $165^{\circ} 30'$  and lat.  $54^{\circ} 17.5'$ , long.  $165^{\circ} 28.7'$  differences of 50 to 275 m. are noted. Differences of 300 m. are also noted in the delineation of the inland lakes.

b. Formlines.

Formline agreement is very poor since consistent differences amounting in some cases to 400 m. are noted in identical form lines. Several of the peaks although not accompanied by elevations on the old survey agree closely with the present survey positions but others differ as much as 450 m. in position. The excessive differences noted above are probably due to the lack of sufficient control on the old survey.

The larger scale present survey should supersede this survey in the common area in future charting.

5. Comparison with Chart 8860 (New Print dated Jan. 12, 1938).

Topography shown on the chart originates entirely with surveys discussed in previous paragraphs of this review and no further consideration is necessary.

6. Field Drafting.

The inking of the topographic features and lettering is excellent. It is suggested, however, that a mechanical lettering set be used wherever practicable.

7. Additional Field Work Recommended.

No additional field work is required. Attention is called, however, to the fact that AKUN ISLAND is entirely covered by modern 1934-37 topographic surveys except for an inland holiday of approximately  $3\frac{1}{2}$  square statute miles in lat.  $54^{\circ} 11'$ , long.  $165^{\circ} 33'$  existing between the present survey and T-4918 (1934), T-6241 (1934) and T-4930 (1935). This area is covered by T-2546 (1901) but adjustments of 300 to 1100 m. are necessary in order to smooth out the form lines.



8. Superseded Prior Surveys.

Within the area covered, the present survey supersedes the following survey for charting purposes:

T-2546 (1901) In part.

9. Reviewed by Harold W. Murray, November 26, 1938.

Inspected by J. A. McCormick.


Examined and approved:




Thos. B. Reed  
Chief, Section of Field Records



K.T. Adams  
Chief, Division of Charts



Fred. L. Peacock  
Chief, Section of Field Work



G. H. Hilde  
Chief, Division of Hydrography  
and Topography