

4931

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES

APR 6 1936

Acc. No. \_\_\_\_\_

Form 504  
Ed. June, 1923

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. PATTON, Director

State: ALASKA

DESCRIPTIVE REPORT

Topographic

~~Hydrographic~~

Sheet No. K-B-35

LOCALITY

~~SECTION OF~~ NORTH COAST OF AKUN

ISLAND, ALEUTIAN ISLANDS.

19 35

CHIEF OF PARTY

A. M. SOBIERALSKI, H. & G. E.

Applied to drawing of Chart No. 8860

S.B. Maize Jan 15 1937

Applied to drawing of Chart No. 8802

S.B. Maize June 1937

Applied to compilation chart 9005

S.M. A. Mar. 1943

" " " " 8720

G.H.S. " "

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. K-B-35

REGISTER NO. T4931

State ALASKA

General locality ALEUTIAN ISLANDS<sup>14</sup>

Locality SECTION OF NORTH COAST OF AKUN ISLAND.

Scale 1:20,000 Date of survey JUNE TO SEPTEMBER, 1935

Vessel U. S. C. & G. S. S. SURVEYOR

Chief of Party A. M. SOBIERALSKI

Surveyed by C. J. WAGNER AND K. S. ULM

Inked by K. S. ULM

Heights in feet above M H W to ground to tops of trees

Contour, Approximate contour, Form line interval 100 feet

Instructions dated APRIL 13, 1934

Remarks:

DESCRIPTIVE REPORT  
to accompany  
TOPOGRAPHIC SHEET K-B-35  
AKUN ISLAND, ALEUTIAN ISLANDS,  
ALASKA

A. M. SOBIERALSKI, COMMANDING      -o-      U. S. C. & G. S. S. SURVEYOR

Authority:

Authority for this station was the Director's Instructions for Project No. HT-176 to the Commanding Officer, U. S. C. & G. S. S. SURVEYOR, dated April 13, 1934.

Limits:

The shoreline extends from triangulation station "Kren", latitude 54 - 11.9, longitude 165 - 38.3 to triangulation station "Neat", latitude 54 - 17.6, longitude 165 - 28.6.

General Description of the Coast:

Akun Island is mountainous and is covered with tundra and grass. The higher peaks for the most part are bare while there are various rock outcroppings on the slopes.

The coast, with the exception of Lost Harbor and Little Bay, is steep rocky bluffs. The beach at the foot of these bluffs is about thirty meters wide and is composed of large boulders and gravel. These boulders often times extend off shore for thirty or forty meters. Sulphur deposits are found in the mountains north of Lost Harbor.

Lost Harbor affords fairly good protection, but in northwest weather a considerable swell rolls into the bay. On the north side of the bay are some buildings of an abandoned sulphur mine. The wooden buildings have reached an advanced state of decay, parts of the brick walls of the building where the retorts were used are still standing. The concrete foundations for the buildings are in good condition. The only building shown on the sheet is in fair condition. Plans are underway to resume operations at this mine. The stack which is given as a land mark in this report will probably be utilized if the mine resumes operations as it and its foundation are in excellent condition.

At the head of the bay there is a sand beach, also low passes to Akun Cove and Little Bay.

In Little Bay a gravel spit makes off from the western shore. The area south of the spit is closed off by a rocky bar. Only boats drawing a few feet can enter the bay.

General Description of the Coast - continued:

Akun Head is flat topped, 1632 feet high, with steep bluffs on the northern and western sides marked by rust colored stratification.

Prominent Features:

Triangulation station "Jac" a pinnacle rock, 74 feet high, about a mile and a half north of Lost Harbor, is prominent from the north and south.

Triangulation station "Wag" a pinnacle rock, 22 feet high, about a half mile northwest of the entrance to Lost Harbor, is prominent from the north and south.

Hydrographic signal "Cam" is a pinnacle rock on a point about a mile east of Little Bay and is about eighty feet high. This is prominent from an easterly and westerly direction.

Akun Head is a prominent headland. (See general description of this report).

Character of Control Used:

Triangulation stations spaced approximately two miles apart along the coast furnished adequate control for the survey. This triangulation was established by this party in 1934 and 1935 and is of third order accuracy.

Methods:

The shore line and signals were located by intersection and plane table stadia traverse. All traverses run were within the prescribed limits and were adjusted as directed in the "Topographic Manual". Standard practice was followed throughout the sheet.

Form Lines:

Elevations and locations of peaks east of longitude 165°- 33' were obtained by sextant cuts from the SURVEYOR. The remaining elevations and locations were obtained by usual plane table methods.

Junction with former or adjacent work:

Junction is made with topographic sheet K-A-1935 at triangulation station "Kren".

New Geographic Names:

Billings Head. The northeastern headland of Akun Island should be designated by a name, and the name Billings Head is suggested. Joseph Billings was in command of an elaborate surveying expedition for the Russian Government in 1785-1792 (Bancroft, Vol. XXXIII ). His name does not appear along the Alaska Coast, probably because he was an Englishman in the service of Russia.

All other names used were taken from Chart #8860.

Evidence of Changing:

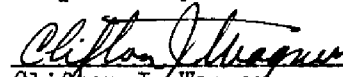
None noted.

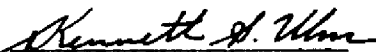
Statistics:

Statute miles of shore line..... 29.0

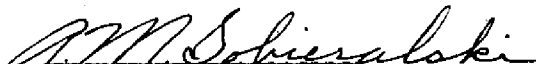
Area in square statute miles..... 18.7

Respectfully submitted,

  
Clifton J. Wagner,  
Jr. M. & G. E.

  
Kenneth S. Ulm,  
Aid.

Approved & forwarded:

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

## Remarks

## Decisions

1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
M 234		

# GEOGRAPHIC NAMES

Survey No. T4931

GEOGRAPHIC NAMES											
Survey No.T4931											
Name on Survey											

Names underlined in red approved  
by G.R.D. on 4/20/36



# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
 DESCRIPTIVE REPORT } ~~NO. 4931~~  
 PHOTOSTAT OF } No. T 4931

{ received April 6, 1936  
 { registered April 20, 1936  
 { 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
20			
22			
24			
25			
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	
----	--

On file Bureau Apr. 20-36

## REVIEW OF TOPOGRAPHIC SURVEY No. 4931

Title (Par. 56) *North Coast of Akur Island, S.W. Alaska*

Chief of Party *A.M. Seberalski* Surveyed by *C.J. Wagner*  
*K.S. Ulm* Inked by *K.S. Ulm*

Ship *Surveyor* Instructions dated *April 13, 1934* Surveyed in *June-Sept. 1935*

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓
2. The character and scope of the survey satisfy the instructions.  
*Not sufficient recoverable stations*
3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
4. The amount of vertical control that the Manual specifies for ~~-contours-~~ *formlines-* was accomplished. (Par. 18, 19, 20, 21, 22, 23.)  
*Not sufficient number of elevations taken to establish form lines*
5. The delineation of ~~-contours-~~ *formlines-* is satisfactory. (Par. 49, 50.) *Form lines very poorly delineated*
6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) *None submitted*
7. High water line ~~on marshy and mangrove coast~~ is clear and adequate for chart compilation. (Par. 16a, 43, 44.) ✓
8. The representation of low water lines, reefs, ~~coral reefs~~ and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) ✓
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.)  
*See reverse side*
10. ~~The span, draw and clearance of bridges are shown.~~ (Par. 16c.)
11. Locations and elevations of summits are given. (Par. 19, 51.) ✓
12. The tree line was shown on mountains. (Par. 16g.)  
*No trees in this area*

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

T2546 (1901)

The present survey checks the general outline of T2546. However, rocks, points, islets and other features are surveyed much more in detail of the present survey than on T2546.

Chart 8860

The present survey has not been applied to the chart. For this reason the chart is not drawn in detail as it no doubt used T2546, the only available survey at the time of compilation. The differences are in detail shown as mentioned under a discussion of T2546.

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.) *No points given to check distortion.*
14. ~~The descriptive report also contains additional information required in aere-topography relative to type of photographs, method of compilation and type of ground control.~~
15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of IMs and DPs, 68.) *None Submitted*
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) *1 landmark submitted*
17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) *No note of having checked declination - Meridian not drawn correctly. Declination 2° East of that shown on chart 8860*
18. The geographic datum of the sheet is *Unalaska 1934 (Unadjusted)* and the reference station is correctly noted. (Par. 34.) ✓
19. Junctions with contemporary surveys are adequate. ✓  
*Joins T 4930 (1935) on the South*  
*No other junction made*
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) ✓
21. The quality of the drafting is <sup>Poor</sup> *good*. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) *Form lines poorly drawn - Rocks drawn too small - Lettering not uniform - Degree and Minute symbols omitted*
22. No additional surveying is recommended. ✓
23. The Chief of Party inspected and approved the sheet and the descriptive report ~~after review by~~
24. Remarks: *This is no doubt a very accurate survey but is poorly drafted. gives it a very sloppy appearance*

Reviewed in office by *Chas. R. Bush Jr.* June 4, 1936.

Examined and approved:

*C. K. Green*  
Chief, Section of Field Records

*L. O. Polhut*  
Chief, Division of Charts

*Fred. L. Pearson*  
Chief, Section of Field Work

*Stuude*  
Chief, Division of Hyd. and Top.