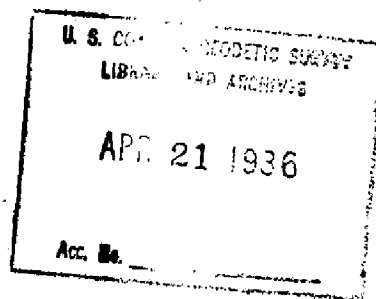


4932



4932

Form 504 Ed. June, 1928	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
R. S. PATTON, Director	
State: <u>ALASKA</u>	
DESCRIPTIVE REPORT	
Topographic <del>Hydrographic</del>	Sheet No. <u>K - C - 35</u>
LOCALITY	
<u>NORTH &amp; WEST SIDES AKUTAN ISLAND</u>	
<u>ALEUTIAN ISLANDS</u>	
<u>Flat Bight to North Head</u>	
<u>19 35</u>	
CHIEF OF PARTY	
<u>A. M. SOBIERALSKI, H. &amp; G. E.</u>	

Applied to drawing of Chart No. 8860 J.B. Maize Jan 15 1937

Applied to drawing of Chart No 8802 J.B. Maize June 1937  
(extended).

Applied to new compilation of Chart No. 9007, L.R. Aug 1938

Applied to compilation of Chart 87.20 Mar. 22, 1943 J.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 - G - 35 4932

REGISTER NO.

State ALASKA

General locality ~~ALUTIAN ISLANDS~~ Akutan Island

Locality ~~NORTH & WEST SIDES AKUTAN ISLAND~~ Flat Right to N. Head

Scale 1:20,000 Date of survey MAY - AUG., 1935

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

Chief of Party A. M. SOBIERALSKI

Surveyed by K. S. ULM & H. C. APPLEQUIST

Inked by K. S. ULM & H.C. APPLEQUIST

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-C-35 - AKUTAN ISLAND  
SEASON - 1935

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

Authority:

This survey was made under the Director's Instructions dated April 13, 1934.

Extent:

This sheet covers the north and west sides of Akutan Island.

General Description:

The island is mountainous and in general covered with grass and moss. Cliffs are general along the shore.

Reef Point is the most westerly point of Akutan Island. Directly north of it about a mile is a large kelp covered reef with numerous rocks which bare up to 3 feet at low tide.

Lava Point is a fairly flat lava bed varying in elevation from 150 feet along the shore to 300 feet at the base of the hill in back of it. The cliffs all around the point are nearly vertical except in places where they have broken down. There are numerous tunnels under the cliffs. No attempt was made to determine the depths of these tunnels. Directly in back of Lava Point is a prominent hill whose N. W. side is concave and very steep. It appears to be the remains of a volcano. Along the north slope of this hill is a crater about 250 feet in depth.

North Head, the northeast end of the island is prominent with high steep cliffs.

Akutan Peak, the highest peak on the island is a sharp peak on the south rim of a crater about 1-1/4 miles in diameter. Steam was observed rising from the crater during the summer of 1935. The peak is 4244 feet in elevation, rising about 600 feet above the rim of the crater.

Survey Methods:

The plane table and stadia were used throughout on this sheet.

Survey Methods: Continued.

A long traverse from A Lava to A North Head closed satisfactorily for distance. The two stations are not intervisible and an approximate position of C Imp. obtained by sextant angles was plotted on the sheet and used for orientation. Later it was found necessary to swing that portion of the traverse from A Lava to C Imp. about 28 meters at C Imp.

Names:

No new names have been applied to any features on this sheet. ✓

Junctions:

A satisfactory junction was made with topographic sheet K-A-35 at North Head.

At the south end of the sheet junction was made with topographic sheet K-D-35 at C Tom with a discrepancy of about 12 meters in distance. This was distributed proportionately between the two sheets.

Comparison with Hydrographic Sheet:

The hydrographer and topographer collaborated in comparing the off-shore detail shown on this sheet and the hydrographic sheet covering this area.

Respectfully submitted,

H. C. Applequist  
H. C. Applequist, Aid.

Approved & Forwarded:

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

## Remarks

## Decisions

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M 234		

## GEOGRAPHIC NAMES

Survey No. **T4932**

GEOGRAPHIC NAMES									
Survey No. T4932									
Name on Survey	<div>On Chart No. 8860</div> <div>On previous survey No. T2545</div> <div>On U.S. quadrangle Maps 8802</div> <div>From local information</div> <div>On local Maps 3486</div> <div>P.O. Guide or Map 4302</div> <div>Rand McNally Atlas</div> <div>U. S. Light List</div> <div>Geog. Dict. of Alaska</div>								
	A	B	C	D	E	F	G	H	
North Head	*	—	✓			✓	—		1
Bering Sea	*		✓			✓	✓	✓	2
Lava Pt.	*	✓	✓				✓		3
Akutan Island	*	✓	✓			—	✓	✓	4
Reef Pt.			✓	✓	*				5
Flat Bight	*	✓	✓						6
Akutan Pass	*	✓	✓			—	✓	✓	7
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Names underlined in red approved by J.S.D. on 6/11/36

M 234

Names underlined in red approved  
by *[Signature]* on 6/11/36

## REVIEW OF TOPOGRAPHIC SURVEY No. 4932

Title (Par. 56) *Akutai Island, S.W. Alaska*Chief of Party *A.M. Sobieralski* Surveyed by <sup>*H.S. Ulm*</sup>~~*H.C. Applegust*~~ Inked by <sup>*H.S. Ulm*</sup>~~*H.C. Applegust*~~Ship *Surveyor* Instructions dated *April 13, 1934* Surveyed in *May - Aug. 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. ✓
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.)  
*Insufficient number of elevations taken shown.*
5. The delineation of ~~contours-formlines-~~ is satisfactory. (Par. 49, 50.) ✓
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 - Grass line not shown*

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.

Paragraph 9

T2545 (1901)

The present survey is on a scale of 1:20000, whereas T2545 is on 1:40000. The two surveys are in good agreement generally. Due to the difference in scale the present survey is executed much more in detail as to shore line, rocks and islets.

A sunken rock is shown on T2545 just West of the 2' bare rock at Lat.  $54^{\circ}-06'.5$  - Long.  $165^{\circ}-06'.5$ . The present survey does not show this sunken rock nor does the contemporary hydrographic survey, H5966.

The bare rock at Lat.  $54^{\circ}05'.8$  - Long.  $166^{\circ}05'.9$  shown on T2545 is not shown on the present survey nor the contemporary hydrographic survey, H5966. No mention is made of this rock on the boat sheet or in the sounding records for H5966. It is not brought forward to the present survey.

T4932 supersedes T2545 in part.

Chart 8860

The present survey agrees with Chart 8860 in a general way, except for the bare rock mentioned under T2545 above which appears on the chart. It should be deleted from Chart 8860.

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.) ✓
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 DP's, 68.) *6 cards submitted*
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) *None submitted*
17. The magnetic meridian was shown ✓ and declination was checked. (Par. 17, 52.) *No note of having checked declination  
Declination at A Lora checks chart within 2°*
18. The geographic datum of the sheet is *Unalaska (Unadjusted)* and the reference station is correctly noted. (Par. 34.) ✓  
*Field Computations Values used*
19. Junctions with contemporary surveys are adequate. ✓  
*Joins T 4930 (1935) on the North and East  
Joins T 6459 (1935) on the South*
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>Fair</sup> ~~good~~. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) *Rock symbols too small  
References to rocks are not correct*
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:

Reviewed in office by *Chas. P. Bush Jr.* June 11, 1936.

Examined and approved:

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

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

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

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

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT  
~~PHOTOSTAT OF~~

No. ~~H~~

No. T 4932

received APR 21 1936  
registered MAY 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.

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RETURN TO

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C. K. Green

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