DEPARTMENT OF COMMERCE
U.S. COAST AND GEOGRAPHIC SURVEY
R.S. PATTON
Director

State: S.W. ALASKA

DESCRcriptive REPORT
Topographic
Sheet No. KE-34

Aleutian Islands
LOCALITY
Akutan Island
VULCAN OVEA - AKUTAN I.D.
SARANA BAY
ALEUTIAN ISLANDS.

1934

CHIEF OF PARTY
A.M. Sobieralski, H. & G. E.
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

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. KE-34

REGISTER NO. 4919

State
S. W. ALASKA

General locality
ALEUTIAN ISLANDS

Locality
Akutan Island -

AKUTAN ISLAND

VULCAN COVE -

SARANA BAY

Scale 1:20,000
Date of survey JULY 1934

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

Chief of Party
A. M. SOBERALSKI

Surveyed by
G. A. NELSON

Inked by
G. A. NELSON

Heights in feet above M. H. W. to ground

Form line interval 100 feet

Instructions dated APRIL 13 1934

Remarks:

GFO
The topographic work in the vicinity of the Krenitsyn group was started using the 1901 geographic positions, and the positions of supplemental stations were computed from the 1901 lines as a base. These preliminary positions were used to control the topography.

Later in the season, the whole scheme of triangulation was recomputed from a newly measured base resulting in changes which amounted to from 2 to 5 meters in the vicinity of Unalga Pass to a maximum of about 10 m. in the eastern limits of the work. As a result, the triangulation stations as plotted will not agree exactly with the 1934 field computations, as submitted to the office. That is, the recovered 1901 stations are plotted from the original geographic positions, but the 1934 stations are plotted from preliminary positions which are not in strict accordance with the positions resulting from the final field computations as submitted in the list of geographic positions. The difference will correspond approximately to the difference between the 1901 and 1934 positions of recovered stations in the vicinity.

To eliminate these discrepancies, a slight change in the projection is necessary, but it is difficult to show the small correction, so that it has been indicated only on the sheets where it exceeds 5 m. The correction to the projection brings the sheet to the Unalaska Datum as determined by the 1934 field computations.
DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET No. KR-34 -- VULCAN COVE


SEASON - 1934

AUTHORITY:

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

EXTENT:

This sheet covers Vulcan Cove and immediate vicinity, Aleutian Islands.

GENERAL DESCRIPTION:

The cove is an open body of water exposed to the southward. The head is a flat bight about a mile wide having a smooth flat beach of unusually fine sand. A large stream enters the cove near the western end of the sand beach. The valley extends northward about a mile.

On either side of the head of the cove, the cliffs, characteristic of the islands, continue.

The rocky coasts are bordered with rocks and fringed with kelp.

METHOD OF SURVEY:

This survey was made with plane table and stadia. No triangulation control was available at the time of the survey. Accordingly a blank sheet was used and traverses run from Vulcan to Slide and from Vulcan to Fal. These were transferred to a projection when the triangulation became available. The traverse Vulcan to Slide, two miles in length, required an adjustment of 10 m. which was made.

No adjustment was needed on the traverse Vulcan to Fal, distance 4½ miles.

JUNCTION WITH PREVIOUS SURVEYS:

There were none.
ELEVATIONS:

Elevations are expressed in feet above M. H. W. They may, in general, be relied upon within 5 feet.

NAMES:

The name Vulcan Cove is not accepted by the natives and residents in this vicinity. H. McGlashen, postmaster at Akutan, a man of about 45 states that it is invariably referred to as Sarana Bay and always has been so called. He lived in Akutan his entire life.

The bay west of Battery Point, noted as Sarana Bay on the present charts is known only by the names of its two Bights, namely Cascade and Broad Bight. The name Vulcan Cove is not applied to any other feature in this vicinity.

STATISTICS:

Statute miles shoreline..............8.8
Area in square statute miles.........10.

Respectfully submitted,

George A. Nelson,

Approved & forwarded:

A. M. Sobieralski,
Comdg., Str. SURVEYOR.
LANDMARKS FOR CHARTS

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

Seattle, Washington Dec. 3, 1934

Superintendent, U. S. Coast and Geodetic Survey:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted:


<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>POSITION</th>
<th></th>
<th></th>
<th>Method of determination</th>
<th>Charts affected</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Latitude</td>
<td>Longitude</td>
<td>Datum</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>D. M. mks</td>
<td>D. F. mks</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sharp Peak (1623 ft)</td>
<td>54°02'</td>
<td>165°53'</td>
<td>473.7</td>
<td>Unalaska</td>
<td>✔</td>
</tr>
<tr>
<td>Akutan I.-Battery Pt.</td>
<td></td>
<td></td>
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</tbody>
</table>

NOTE: These objects should be given prominence when the topographic survey affected is applied to the chart.

Copy forwarded under separate cover.

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A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to chart.
# Geographic Names

**Survey No.** 14919

**Date.** April 16, 1935

**Chart No.** 8860

**Diagram No.** 8860

Approved by the Division of Geographic Names, Department of Interior. X

Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

<table>
<thead>
<tr>
<th>Status</th>
<th>Name on Survey</th>
<th>Name on Chart</th>
<th>New Names in local use</th>
<th>Names assigned by Field</th>
<th>Location</th>
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<tbody>
<tr>
<td></td>
<td>Akutan Island</td>
<td>Same</td>
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</tr>
<tr>
<td></td>
<td>Sarana Bay</td>
<td>R</td>
<td>Do not adopt U.S. G. &amp; B. Decision 7-8-38 L.H.</td>
<td></td>
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<tr>
<td></td>
<td>Milvan Cove</td>
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<td></td>
<td>Battery Point</td>
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</tbody>
</table>

**Under Secretary**

[Signature]

[Signature]
REVIEW OF TOPOGRAPHIC SURVEY No. 4910

Title (Par. 56) ANTON ISLAND - VULCAN CAVES


Ship Surveyor Instructions dated April 13, 1934. Surveyed in July, 1934

1. The survey and preparation for it conformed to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) The triangulation is plotted and verified by the same person.

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.)

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, 45, 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 open, 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 locality.

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.
T2545 (1901)

In general the present survey is in good agreement with T2545 except for detail. Many rocks and reefs are shown on the present survey which are not shown on T2545. The details of points and bare rocks are also much better on the present survey.

T4919 (1934) should supersede T2545 in part.

Chart 8860

The present survey was used in compiling the latest edition of Chart 8860 and so is in perfect agreement.
13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 54, 65, 66, 67.)

No points shown for checking distortion

14. The descriptive report also contains additional information required in aero-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 DMs and DP, 68.) 4 Cards Submitted.

16. A list of landmarks for charts was furnished on Form 557 and plotting checked. (Par. 16d, e, 60.)

17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) No note of having checked declination Declination 1°50' East of that shown on chart 6860.

18. The geographic datum of the sheet is Utah (Adjusted) and the reference station is correctly noted. (Par. 34.)

See Datum Note in Descriptive Report.

19. Junctions with contemporary surveys are adequate.

Joins T 6242 on the East and North
Joins T 6349 (1935) on the West

20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 68k.)

21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.)

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. D. Bush June 3, 1936

Examined and approved:

Fred L. Peacock
Chief, Division of Hyd. and Top.

E. H. Green
Chief, Section of Field Records

L. O. Rollins
Chief, Division of Charts