

4919

U. S. COAST & GEODETIC SURVEY
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Form 504
Ed. June, 1923

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. PATTON *Director*

State: S. W. ALASKA

DESCRIPTIVE REPORT

Topographic } Sheet No. KE-34
~~Hydrographic~~

Aleutian Islands
LOCALITY
Akutan Island -

~~VULCAN COVE - AKUTAN ID.~~
SARANA BAY

ALEUTIAN ISLANDS.

19.34

CHIEF OF PARTY

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

4919

Applied to Chart 8860. 8802 + 9302 Oct 10 - 1935

P.B. Lockett

Applied to compilation 9005 March 1943 Z.M.A.

" " " 8720 " " J.K.S.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

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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. KE-34

REGISTER NO. 4919

State S. W. ALASKA

General locality ALEUTIAN ISLANDS

Locality Akutan Island -
SARANA BAY ~~VULCAN COVE~~ ~~AKUTAN ISLAND~~

Scale 1:20,000 Date of survey JULY, 1934

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

Chief of Party A. M. SOBIERALSKI

Surveyed by G. A. NELSON

Inked by G. A. NELSON

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

~~Contours by approximate method~~ Form line interval 100 feet

Instructions dated APRIL 13, 1934

Remarks: _____

DATUM:

The topographic work in the vicinity of the Krenitzin 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. KE-34

- -

VULCAN COVE

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

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 $4\frac{1}{2}$ 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. McGlashan, 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.

Approved & forwarded:

A. M. Sobieralski
A. M. Sobieralski,
Comdg., Str. SURVEYOR.

Respectfully submitted,

George A. Nelson
George A. Nelson,
Jr. H. & G. Engr.

Survey No. T4920

Chart No. 8860

Diagram No. 8860

GEOGRAPHIC NAMES

Date. April 16, 1935 S. W. ALASKA

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

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

Under investigation. Q

[illegible]

REVIEW OF TOPOGRAPHIC SURVEY No. 4919

Title (Par. 56) *Atutan Island - Vulcan Cove*Chief of Party *A.M. Sobierulski* Surveyed by *G.A. Nelson* Inked by *G.A. Nelson*Ship *Surveyor* Instructions dated *April 13, 1934* Surveyed in *July, 1934*

1. The survey and preparation for it conform 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.
Not sufficient recoverable stations given for resurvey
3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
No control was available at start of survey
4. The amount of vertical control that the Manual specifies for ~~con-~~
~~tours-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, 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 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. 64, 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 IMs and DPs, 68.) *4 Cards Submitted*
16. A list of landmarks for charts was furnished on Form 567 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°30' East of that shown on chart 8860
18. The geographic datum of the sheet is *Unalaska (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 ^{Unal.} on the East and North
Joins T 6459 (1935) on the West
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 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. R. Bush Jr. June 3, 1936

Examined and approved:

E. H. Green
Chief, Section of Field Records

L. O. Lobert
Chief, Division of Charts

John L. Peacock
Chief, Section of Field Work

G. W. de
Chief, Division of Hyd. and Top.