

4918

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

APR 9 1935

Acc. No.

Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. PATTON, Director

State: S. W. ALASKA

DESCRIPTIVE REPORT

Topographic
~~Hydrographic~~

Sheet No. KP-34

LOCALITY
Aleutian Islands
Eastern Part of AKUN ISLAND

~~ALEUTIAN ISLANDS~~

19 34

CHIEF OF PARTY

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

U. S. GOVERNMENT PRINTING OFFICE: 1921

4918

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

P.B. Gault.

Applied to compilation chart 8720.

Mar. 17, 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. KF-34 4918

REGISTER NO. 4918

State S. W. ALASKA

General locality ALEUTIAN ISLANDS

Locality Eastern Part of AKUN ISLAND

Scale 1:20,000 Date of survey JULY - AUGUST, 19 34

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, Approximate Contours~~, Form line interval 100 feet

Instructions dated APRIL 13, 1934

Remarks:

DATUM:

The topographic work in the vicinity of the Krenitzén 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 AKUN ISLAND

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

SEASON - 1934

AUTHORITY:

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

EXTENT:

The sheet covers the southeast portion of Akun Island including the south shore of Akun Cove, Aleutian Islands.

GENERAL DESCRIPTION:

The island is mountainous and entirely grass and moss covered except on the cliffs, slides, and rocky outcrops. Cliffs are general along the shores.

SEREDKA BAY is an open body of water on the south side of Akun Island 3 miles west of Round Head. It affords protection from northerly and westerly weather but is wide open to the south and east.

CROSS BAY is an open bight 1 mile southwest of Seredka Bay and separated from it by a bold point about 3/4 miles in length terminating in a vertical cliff 145 feet high. This bay affords better protection than Seredka but is exposed to the southeast.

TANGIK ISLAND forms the southern boundary of Cross Bay. It is small with precipitous sides. It is used as a fox farm.

POA ISLAND, 305 feet high, is nearly flat on top. It is encircled by nearly vertical cliffs except at its northwestern end where a small valley affords the only access to the top. It is used as a fox farm. There is a shack at the northwestern end of the island.

ROUND HEAD is the southeastern tip of Akun Island. It is remarkable for the uniform layers of basalt forming its seaward sides. It is 485 feet high with nearly vertical sides. There is a prominent cone-shaped pinnacle rock lying 300 yards southwest and another higher pinnacle in the shape of a obelisk 1/3 of a mile north.

TANGINAK ISLAND, lying 3 miles W. N. W. of Round Head is composed of two islets separated by a narrow channel. They are grass covered with precipitous sides. Great numbers of sea fowl nest there.

METHOD OF SURVEY:

The plane table and stadia were used with no deviation from standard methods.

The several short traverses run closed within allowable limits.

ELEVATIONS:

Elevations of prominent objects may be relied upon within a few feet.

MAGNETIC DECLINATION:

A local disturbance was found at Tall Twin Pinnacle 1901. Several observations with the declinatoire were taken in the immediate vicinity and are shown on the sheet, being referenced by numbers.

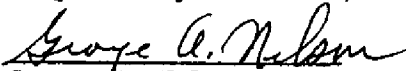
In addition, observations with the compass declinometer were obtained at Bit 1934, Oar 1924, and Guf (Topo signals).

Taken in their entirety, these observations showed the disturbance to be confined to the immediate vicinity of the islet upon which Tall Twin Pinnacle 1901 is located.

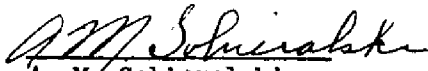
STATISTICS:

Statute miles shoreline.....19.5
Area in square statute miles.....17.

Respectfully submitted,


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

Approved & forwarded:


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

Survey No. T4918

Date. April 16, 1935

GEOGRAPHIC NAMES

S. W. ALASKA

Chart No. 8860

Diagram No. 8860

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. 4918

Title (Par. 56) *Eastern Part of Akun Island, S.W. Alaska*Chief of Party *A.M. Sobieralski* Surveyed by *G.A. Nelson* Inked by *G.A. Nelson*Ship *Surveyor* Instructions dated *April 13-1934* Surveyed in *July-August, 1934*

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 for a revision survey
3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
4. The amount of vertical control that the Manual specifies for ~~-con-~~
~~teurs-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.)
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

T2546 (1901)

The present survey in general agrees with T2546. However T4918 is much more in detail since it is on a scale of 1:20,000 whereas T2546 was on a scale of 1:40,000. T4918 supersedes T2546 in part.

Chart 8860

The chart is no doubt taken from the present survey which is more in detail than the previous survey (T2546) as noted above.

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 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 DPs, 68.) *2 cards submitted with car.*
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
 See Descriptive Report Page 2 for differences in declination*
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 6241 (1934) on the S.W.
 No junction as yet on the N.W. side*
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: *This survey is more in detail than previous surveys*

Reviewed in office by *Chas. R. Bush Jr.*

Examined and approved:

E. F. Green
 Chief, Section of Field Records

L. O. Polk
 Chief, Division of Charts

Fred. L. Peacock
 Chief, Section of Field Work

Stude
 Chief, Division of Hyd. and Top.