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

State: ALASKA

DESCRIPITIVE REPORT

Topographic
Hydrographic | Sheet No. K - A - 35

LOCALITY
Akutan Bay
NORTH COAST OF AKUTAN ISLAND,

WEST COAST OF AKUN ISLAND,

ALEUTIAN ISLANDS,

ALASKA.

1935.

CHIEF OF PARTY
A. M. SOBERALSKI, H. & C. E.
Applied to drawing of Chart No. 8860  S.B. March 15 1937

Applied to drawing of Chart No. 8802  S.B. March 1937

"Compilation"  9005  D.M.A. March 1943

8720  I.M.S. March 1943
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. E - A - 35

REGISTER NO. 4930

State.............................................. ALASKA

General locality.................................. ALEUTIAN ISLANDS

Section of...................................... 14

Locality........................................ NORTHERN COAST OF AKUTAN ISLAND, WEST COAST OF AMUN ISLAND

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

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

Chief of Party................................. A. M. SOBIERALSki

Surveyed by.................................... C. J. WAGNER & K. S. ULm

Inked by........................................ K. S. ULm

Heights in feet above ½ H W to ground to tops of trees

Contours: Approximate contour, Form line interval 100 feet

Instructions dated APRIL 13, 1934

Remarks:

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OGO
DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET K-A-35

AKUTAN AND AKUN ISLANDS, ALEUTIAN ISLANDS, ALASKA.

Authority:

Authority for this survey was the Director's Instructions for Project No. H. T. 176, to the Commanding Officer, U. S. C. & G. S. S. SURVEYOR, dated April 13, 1934.

Limits:

The shore line on Akuten Island extends east from triangulation station "North Head", Latitude 54°- 13.7', Longitude 165°- 56.3' to hydrographic station Ze, latitude 55°- 09.2', Longitude 165°- 44.2'. The shore line on Akun Island extends south from triangulation station "Kren", Latitude 54°- 11.9', Longitude 165°- 38.3' to hydrographic signal Cab, Latitude 54°- 08.8', Longitude 165°- 38.1'.

General Description of the Coast:

Akuten and Akun Islands are mountainous and are 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 is generally steep rocky bluffs with the exception of heads of bights and bays. The beach between mean high water and the foot of the bluffs varies between ten and twenty meters in width and usually consists of large boulders and gravel.

Open Bight is just east of North Head. At the head of this bight is a large valley in which there is a fair sized lake. The beach at the head of this bight is sand and gravel.

The north point of entrance of Hot Springs Bay is a high rocky cliff. The south point of entrance is Ridge Point which is a narrow ridge about three hundred feet high which has bare rock cliff on the west side, on the east side grassy slopes. There are three grassy valleys in the head of the bay. The center valley has hot springs about a mile up stream. This bay offers protection from southerly and westerly weather. At the head of the bay there is a sandy beach which is about fifty meters in width.

Sandy Cove is a small bight east of Hot Springs Bay and is exposed to northeasterly weather. At the head of this cove is a large valley with a sand and gravel beach.
General Description of the Coast - continued:

Surf Bay is exposed to northerly and westerly weather. However, it affords good protection from southerly and easterly weather. There is a valley at the northeast end of the bay. North of the bay the slopes rise to an elevation of fifteen hundred feet while south of the bay the terrain is generally rolling with comparatively low elevations. On the east side of the bay is a sand beach about a mile long and about sixty meters in width.

Character of Control Used:

Triangulation stations, based on the Unalaska Datum, 1934 Field Computations, and spaced approximately two miles apart along the coast furnished adequate control for the survey.

The shore line and signals were located by intersection cuts and plane table stadia traverse. In Hot Springs Bay, on account of lack of control, the long traverse involved slight discrepancies in location of hydro signals which caused jumps in the position of the hydrographic lines. These positions were later adjusted from sextant cuts and additional set ups. All other traverses run were well within the prescribed limits and were adjusted as directed in the "Topographic Manual". Standard practice was followed through the sheet.

Verification of form lines from offshore:

The formlining was accomplished by the topographers in the field by obtaining the elevation of all peaks which could be identified and located.

Junction with Former or Adjacent Work:

Junction is made with topographic sheet K-C-35 at triangulation station "North Head", with topographic sheet K-D-34 at hydrographic signals "Ze" and "Ceb" and with topographic sheet K-D-35 at triangulation station "Kren". All junctions satisfactory.

Control: Control for the survey was furnished by third order triangulation established by this party in 1934 and 1935.

New Geographic Names:

No new geographic names were assigned to this sheet. All names used were taken from Chart No. 8660.

Evidence of changing:

None noted.
Distortion:

There is considerable distortion in this sheet in an easterly and westerly direction.

Statistics:

Statute miles of shore line............22.3

Area in square statute miles............24.0

Respectfully submitted,

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

Kenneth S. Ulm,
Aid

Approved & forwarded:

A. M. Sobierski,
Commanding Officer,
U. S. C. & G. S. S. SURVEYOR
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Names underlined in red approved by [signature] on [date]
MEMORANDUM
IMMEDIATE ATTENTION

☑ SURVEY
☑ DESCRIPTIVE REPORT
PHOTOGRAPH

No. T 4930

received Mar. 30, 1936
registered Apr. 3, 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
25

☑

ći. date: April 6, 36
REVIEW OF TOPOGRAPHIC SURVEY No. 4930

Title (Par. 56) Akutan Bay S.W. Alaska

Chief of Party A.M. Sobolewski Surveyed by C.J. Wagner 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.) Not sufficient number of elevations on west end of sheet for form lines.

2. The character and scope of the survey satisfy the instructions. Not sufficient number of recoverable stations for resurvey.

3. The control and closures of traverses were adequate. (Par. 12, 29.)

4. The amount of vertical control that the Manual specifies for general form lines was accomplished. (Par. 18, 19, 20, 21, 22, 23.) Not sufficient number of elevations.

5. The delineation of form lines is satisfactory. (Par. 49, 50.) The form lines are very poorly drawn.

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. 16, 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.) Legends for rocks afloat not very clear.

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 shown on this survey.

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.

R-317
T2546 (1901)

The present survey is much more in detail than T2546. The general shore line is somewhat the same but the points, islets and rocks awash are much more in detail on the present survey.

T2545 (1901)

The present survey is also much more of a detailed survey than T2545. Many rocks and reefs are shown which are not shown on T2545. T4930 supersedes T2545 and T2546 in part.

Chart 8860

The latest edition of this chart did not use T4930 and hence is not in perfect agreement, lacking much of the detail shown on the present survey.
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 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.) 3 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 showing declination.

18. The geographic datum of the sheet is United States 1868 (unadjusted) and the reference station is correctly noted. (Par. 34.)

19. Junctions with contemporary surveys are adequate.  
   J 7402 on the NE.  
   J 7432 on the NW.  
   J 06242 on the SE & W

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.) H.W. & A.W. lines are poor.  
   Form lines are poor.  
   Rock symbols are too small.  
   Magnetic meridian incorrectly drawn.

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  

[Signature]
Chief, Division of Hyd. and Top.

Examined and approved:

[Signature]  
Chief, Section of Field Records

[Signature]  
Chief, Division of Charts

[Signature]  
Chief, Section of Field Work