

4930

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

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. PATTON, Director

State: ALASKA

DESCRIPTIVE REPORT

Topographic } Sheet No. K - A - 35  
Hydrographic }

LOCALITY

Akutan Bay

~~NORTH COAST OF AKUTAN ISLAND,~~

~~WEST COAST OF AKUTAN ISLAND,~~

ALEUTIAN ISLANDS,

ALASKA.

1935.

CHIEF OF PARTY

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

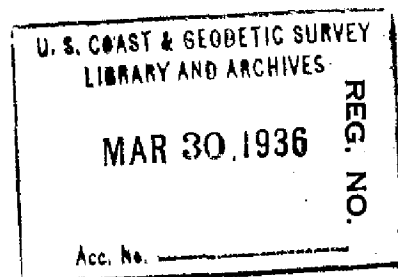
Applied to drawing of Chart No. 8860 . . . S.B. Maize Jan 15 1937

Applied to drawing of Chart No. 8802 . . . S.B. Maize June 1937

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

" " " 8720 G.H.S. March 1943

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. K - A - 35

REGISTER NO. 4930

State ALASKA

General locality ALEUTIAN ISLANDS <sup>74</sup>  
~~Section of~~

Locality NORTH COAST OF AKUTAN ISLAND, WEST COAST OF AKUN ISLAND.  
<sup>Bay 75</sup>

Scale 1:20,000 Date of survey JUNE - SEPTEMBER 19 35

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 M H W to ground ~~to tops of trees~~

~~Contour, Approximate contour,~~ Form line interval 100 feet

Instructions dated APRIL 13, 19 34

Remarks:

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

General Description of the Coast:

Akutan 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 the entrance of Hot Springs Bay is a high rocky cliff. The south point of the 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 "Cab" and with topographic sheet K-B-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. 8860.

Evidence of changing:

None noted.

*Handwritten notes:*  
west  
of  
the  
bay  
is  
a  
valley  
at  
the  
northeast  
end  
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.

Distortion:

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

Statistics:

Statute miles of shore line.....22.3

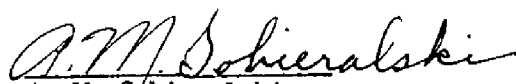
Area in square statute miles.....24.0

Respectfully submitted,

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

  
Kenneth S. Ulm,  
Aid

Approved & forwarded:

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

## Remarks

## Decisions

|    |                    |  |
|----|--------------------|--|
| 1  |                    |  |
| 2  |                    |  |
| 3  |                    |  |
| 4  | Not Hotsprings Bay |  |
| 5  |                    |  |
| 6  |                    |  |
| 7  |                    |  |
| 8  |                    |  |
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| 24 |                    |  |
| 25 |                    |  |
| 26 |                    |  |
| 27 |                    |  |

# GEOGRAPHIC NAMES

Survey No. T4930

| GEOGRAPHIC NAMES                        |   | Survey No. T4930 |   |   |   |   |   |   |   |    |  |
|---|---|------------------|---|---|---|---|---|---|---|----|--|
| Name on Survey                          | <div>On Chart No. 8860</div> <div>On previous survey No. T-545</div> <div>On U. S. quadrangle Maps</div> <div>From local information</div> <div>On local Maps</div> <div>P. O. Guide or Map</div> <div>Rand McNally Atlas</div> <div>U. S. Light List</div> <div>Coast Pilot</div> <div>Dictionary of Alaska</div> <div>Baker</div> |                  |   |   |   |   |   |   |   |    |  |
|   | A   | B                | C | D | E | F | G | H | K |    |  |
| <u>Bering Sea</u> ✓                     | ✓   | ✓                |   |   |   |   | ✓ |   | ✓ | 1  |  |
| <u>North Head</u> ✓                     | ✓   | ✓                | ✓ |   |   |   | ✓ | ✓ |   | 2  |  |
| <u>Open Bight</u>                       | ✓   | ✓                | ✓ |   |   |   |   |   |   | 3  |  |
| <u>Hot Springs Bay</u> ✓                |   | ✓                | ✓ |   |   |   |   | ✓ |   | 4  |  |
| <u>Ridge Point</u> ✓                    | ✓   | ✓                |   |   |   |   |   | ✓ |   | 5  |  |
| <u>Akutan Bay</u> ✓                     | ✓   | ✓                | ✓ |   |   |   |   |   | ✓ | 6  |  |
| <u>Sandy Cove</u> ✓                     | ✓   | ✓                | ✓ |   |   |   |   |   |   | 7  |  |
| <u>Akutan Island</u> ✓                  | ✓   | ✓                | ✓ |   |   |   |   |   | ✓ | 8  |  |
| <u>Surf Bay</u> ✓                       | ✓   | ✓                | ✓ |   |   |   |   |   | ✓ | 9  |  |
| <u>Akun Island</u> ✓                    | ✓   | ✓                | ✓ |   |   |   |   |   | ✓ | 10 |  |
|   |   |                  |   |   |   |   |   |   |   | 11 |  |
|   |   |                  |   |   |   |   |   |   |   | 12 |  |
|   |   |                  |   |   |   |   |   |   |   | 13 |  |
| Names underlined in red approved        |   |                  |   |   |   |   |   |   |   | 14 |  |
| by <u>Keshigian</u> on <u>Apr. 1936</u> |   |                  |   |   |   |   |   |   |   | 15 |  |
|   |   |                  |   |   |   |   |   |   |   | 16 |  |
|   |   |                  |   |   |   |   |   |   |   | 17 |  |
|   |   |                  |   |   |   |   |   |   |   | 18 |  |
|   |   |                  |   |   |   |   |   |   |   | 19 |  |
|   |   |                  |   |   |   |   |   |   |   | 20 |  |
|   |   |                  |   |   |   |   |   |   |   | 21 |  |
|   |   |                  |   |   |   |   |   |   |   | 22 |  |
|   |   |                  |   |   |   |   |   |   |   | 23 |  |
|   |   |                  |   |   |   |   |   |   |   | 24 |  |
|   |   |                  |   |   |   |   |   |   |   | 25 |  |
|   |   |                  |   |   |   |   |   |   |   | 26 |  |
|   |   |                  |   |   |   |   |   |   |   | 27 |  |

M 234



# MEMORANDUM

## IMMEDIATE ATTENTION

✓ SURVEY  
 ✓ DESCRIPTIVE REPORT  
 PHOTOGRAPH OF

~~NO. T 4930~~

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.

| ROUTE |  | Initial           | Attention called to       |
|-------|--|-------------------|---------------------------|
| 20    |  |                   |                           |
| 22    |  |                   |                           |
| 24    |  |                   |                           |
| ✓ 25  |  | <i>[initials]</i> | <i>Top page 2 - D. R.</i> |
| 26    |  |                   |                           |
| 30    |  |                   |                           |
| 40    |  |                   |                           |
| 62    |  |                   |                           |
| 63    |  |                   |                           |
| 82    |  |                   |                           |
| 83    |  |                   |                           |
| 88    |  |                   |                           |
| 90    |  |                   |                           |
|       |  |                   |                           |
|       |  |                   |                           |

RETURN TO

|    |  |
|----|--|
| 82 |  |
|----|--|

C. K. Green

*April 6, '36*

## REVIEW OF TOPOGRAPHIC SURVEY No. 4930

Title (Par. 56) *Akuton Bay, S.W. Alaska*Chief of Party *A.M. Sobieralski* Surveyed by *C.J. Wagner*  
*K.S. Ulm* 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 ~~contours~~ *form lines* was accomplished. (Par. 18, 19, 20, 21, 22, 23.)  
*Not sufficient number of elevations*
5. The delineation of ~~contours~~ *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. 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.) *legends for rocks awash not very clear*  
*symbols*
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.

T2546 (1901)

The present survey is much more in detail than T2546. The general shore line is <sup>MUCH</sup> 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 DMs and DP's, 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 having checked the declinator*  
*The declinator at A Falls is 4°30' West of that at A Surf*
18. The geographic datum of the sheet is *Unalaska 1934 (Unadjusted)* and the reference station is correctly noted. (Par. 34.) —
19. Junctions with contemporary surveys are adequate.  
*Joins T4931 on the N.E. Joins T4932 on the N.W.*  
*Joins T6242 on the S.E. & S.*
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~~ <sup>poor</sup>. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) *H.W. & L.W. lines are poor*  
*Form lines are poor, rock symbols are too smooth. 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 *Chas. P. Bush Jr. June 3, 1936*

Examined and approved:

*E. H. Green*  
Chief, Section of Field Records

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

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

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