Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey: Topographic

Field No. Ph-34 (48) Office No. T-9978

LOCALITY

State: Alaska

General locality: Aleutian Islands, Fox Islands, Krenitzin Islands.

Locality: Akun Island

1945

CHIEF OF PARTY

I.J. Reed, Div. of Photogrammetry, Wash., D.C.

LIBRARY & ARCHIVES

DATE: November 21, 1955
DATA RECORD

T-9978, 9979

T-9978 = LOST HARBOR
T-9979 = SEREDKA BAY

Project No. (II): Ph-34(48) Quadrangle Name (IV): T-9979 = SEREDKA BAY

Chief of Party:

Louis J. Reed, chief
Stereomap Section

Copy filed in Division of
Photogrammetry (IV)

Field Office (II):

Photogrammetric Office (III): Washington, D.C. Officer-in-Charge:

Instructions dated (II) (III): None

Method of Compilation (III): Single lens - Kelsh Plotter, with pantograph

Manuscript Scale (III): 1:20,000

Scale Factor (III): Photograph scale = 1:41,000

Pantograph reduction = 1:8500 to 1:20,000

Date received in Washington Office (IV):

JAN 2 1953

Date reported to Nautical Chart Branch (IV): JAN 7 1953

Date registered (IV):

OCT 25 1955

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): NA 1927

Vertical Datum (III):
Mean sea level except as follows:

Elevations shown as (0) refer to mean high water
Elevations shown as (0) refer to sounding datum
I.e., mean low water or mean lower low water

Reference Station (III):

Lat.: Long.: Adjusted

Plane Coordinates (IV):

State: Zone:

Y= X=

MILITARY GRID = UTM, Zone 3, 2500 meter interval

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.
Areas contoured by various personnel
(Show name within area)

Compiled on the Kelsh Plotter, by:
P.&L. = Lt. Parkinson and Frank J. Lesslie on "A" plotter
C.&J. = Bernard J. Colner and Ivan R. Jarret on "B"
DATA RECORD

Field Inspection by (II): Date:

Planetary contouring by (II): None Date:

Completion Surveys by (II): None Date:

Mean High Water Location (III) (State date and method of location):
MHWL is dated 1951 since the photographs used for instrument delineation were taken then.

Projection and Grids ruled by (IV): Jack Allen Date: 20 June 52
on the Reading Ruling machine

Projection and Grids checked by (IV): Howard D. Wolfe Date: 23 June 52

Control plotted by (III):
David F. Romero Date: 23 Jun 52

Control checked by (III):
Stanley W. Trog Date: 23 Jun 52

Stereoscopic Control extension by (III):
Morton Keller Date: 15 Jul 52

Delineation Planimetry (III):
Lt. Parkinson & Frank J. Leslie Date: 6 Aug 52
Contours Bernard J. Colmer
Ivan R. Jarret

compiled
Manuscript checked by (III):
John B. McDonald Date: 22 Dec 52

Photogrammetric Office Review by (III):
William D. Harris Date: 2 Jan 53

Elevations on Manuscript checked by (IV) (III):
William D. Harris Date: 2 Jan 53
PHOTOGRAPHS (III)

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<th>Scale</th>
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<td>0016 Z</td>
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NOTE:
Tide data computed by Mr. Wilcox of tides and currents, 10 Dec 52

Tide (III)

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Reference Station: Dutch Harbor
Subordinate Station: Akun

Washington Office Review by (IV):

Date: Date: Date:

Final Drafting by (IV): M.Charity T-9979 Jan 18, 55 - Mar 3, 55
Drafting verified for reproduction by (IV):

Date: Date: Date:

Land Area (Sq. Statute Miles) (III): T-9978 = 38 sq. mi.; T-9979 = 10 sq. mi.

Shoreline (More than 200 meters to opposite shore) (III): T-9978 = 20 mi. T-9979 = 16 mi.
Shoreline (Less than 200 meters to opposite shore) (III): None
Control Leveling - Miles (III): None
Number of Triangulation Stations searched for (II): None Recovered: None Identified: 0
Number of BMs searched for (II): None Recovered: Identified: None
Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III): None

Remarks:
Summary

T-9978 and T-9979

These maps are two of seven 7.5 x 10 minute quadrangles that cover Akun Island in the Aleutian Islands and are part of Project Ph-34. This project will be discussed in its entirety in the Project Completion Report when all of the maps are registered.

These maps were compiled by Kelsh Plotter from 1:40,000 scale Navy photographs taken in 1951. There was no field inspection or field edit. Topographic and hydrographic surveys completed 1934 to 1937 were used for control identification and as an aid in delineating foreshore features. The compilation is at 1:20,000 scale with a contour interval of 50 feet with an occasional 25 foot supplementary contour where needed.

Depth curves, soundings and all available hydrographic information will be added to the map manuscripts from hydrographic surveys for publication.

Cloth-backed lithographic prints of each map at compilation scale will be registered with the Descriptive Reports in the Bureau Archives. After publication by the Army Map Service, a cloth-backed color print of each map will also be registered.
31. Delineation:
Delineation was accomplished as described under side-heading 31. of the Descriptive Report for T-9972, 73, 74 with the following exception: A bridge of 4 models (photographs 047 thru 067) was made with the stereoplanigraph to obtain control for delineation with the Kelsh plotters.

With THE EXCEPTION OF THE TIP OF AKUTAN ISLAND which falls in the lower left corner of t-9978, the entire land area of these two quadrangles has been mapped. In addition, that portion of Akutan Island which falls in quadrangles T-9977 & 9969 has also been mapped and is reported here. This portion of Akutan Island was compiled by Stereoplotting Sec., April 10, 1954. These maps Twenten triangulation stations exist in the area. For a more detailed discussion see side-heading 32 of the Descriptive Report for quadrangles T-9972, 73, 74.

32. Control: are not complete.

33. Supplemental data:

a. Hydrographic Surveys:
H-5744: AVATANAk STRAIT, ALEUTIAN ISLANDS, ALASKA
1:20,000 scale, 1934 season, USC&GS Surveyor
A.M. Sobiersalski comdg.

H-5762: AKUN STRAIT, TOLSAHAN BAY & VICINITY S. W. OF ROOTOK ISLAND. 1:20,000 scale, 1935 season,
USC&GS Surveyor, A.M. Sobiersalski comdg.

H-5970: AKUTAN BAY & NORTH COAST OF AKUN ISLAND, ALASKA
1:20,000 scale, 1935 season,
USC&GS Surveyor, A.M. Sobiersalski comdg.

H-6319: AKUN COVE, AKUN ISLAND, ALEUTIAN ISLANDS, ALASKA
1:20,000 scale, 1937-38 season,
USC&GS Surveyor, A.M. Sobiersalski comdg.

b. Topographic Surveys:
T-4918: EASTERN PART OF AKUN ISLAND, ALEUTIAN ISLANDS;
1:20,000 scale, 1934 season,
USC&GS Surveyor, A.M. Sobiersalski comdg.

T-4930: AKUN BAY, ALEUTIAN ISLANDS, ALASKA,
1:20,000 scale, 1935 season,
USC&GS Surveyor, A.M. Sobiersalski comdg.

T-4931: NORTH COAST OF AKUN ISLAND, ALEUTIAN ISLANDS,
1:20,000 scale, 1935 season,
USC&GS Surveyor, A.M. Sobiersalski comdg.

T-6241: ROOTOK ISLAND & SOUTHERN PART OF AKUN ISLAND,
1:20,000 scale, 1934 season,
USC&GS Surveyor A.M. Sobiersalski comdg.

T-6601: AKUN COVE, AKUN ISLAND, ALEUTIAN ISLANDS, ALASKA
1:20,000 scale, 1937 season,
USC&GS Surveyor A.M. Sobiersalski comdg.
34. **Contours and Drainage:**

The photographic quality of the photographs was only average, yet satisfactory.

35. **Shoreline and alongshore Details:**


The shoreline and alongshore details shown on these manuscripts are in agreement with the Hydrographic surveys except at the tip of ROUND HEAD (lat. 54°11' long. 165°24') where the aerial photographs were locally controlled by triangulation stations. It is believed that the position of the sounding line should be adjusted to agree with the manuscript.

36. **Offshore Details:** See side-heading 35.

37. **Landmarks and Aids:**

One landmark "LOST HARBOR STACK, 1935" and one Aid "AKUN STRAIT LIGHT" are located in the area. They are both triangulation stations and are shown on Chart 8720.

38. **Control For Future Surveys:** Inapplicable.

39. **Junctions:**

Maps joining the two maps of this report are shown on the Map Layout Sketch, page 5. All junctions are in agreement since the total area of Akun Island was mapped as one project.

40. **Horizontal and vertical Accuracy:**

The scale of these maps is 1:20,000 and the contour interval is 50ft. They meet the requirements of the National Standards of Map Accuracy for maps of that scale and contour interval.

46. **Comparison with Existing Maps:**

No maps of comparable scale exist; the following map does cover the area:

47. Comparison with Nautical Charts:

The Western side of Akun Island is covered by the scale by:
Chart No. 9005, 1:20,000 scale, Published 21 Apr 1943, last edition 29 Jan 1951.

The entire area is covered by:
Chart No. 5720, 1:80,000 scale, Published June 1943, last edition 1 Jan. 1952.

ITEMS TO BE APPLIED TO NAUTICAL CHART IMMEDIATELY — None

ITEMS TO BE CARRIED FORWARD — none

48. Geographic Name List: See page 10

49. Notes for the Hydrographer: Inapplicable


Submitted by

[Signature]
Stanley W. Trow, Chief
Single Lens Plotting Instrument Unit

Approved by:

[Signature]
Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer.
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<tr>
<td></td>
<td>27</td>
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</tr>
</tbody>
</table>
PHOTOGRAMMETRIC OFFICE REVIEW

T.


CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy ✔  6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) ✔  7. Photo hydro stations ✔  8. Bench marks ✔

ALONGSHORE AREAS (Nautical Chart Data) ✔


PHYSICAL FEATURES


CULTURAL FEATURES


BOUNDARIES

31. Boundary lines ✔  32. Public land lines ✔

MISCELLANEOUS


40. William L. Harris
Reviewer

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler

Supervisor

43. Remarks:
Review Report  
Topographic Maps T-9978 and T-9979  
April 20, 1954

62. **Comparison with Registered topographic surveys.**

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-2546</td>
<td>1:40,000</td>
<td>1901</td>
</tr>
<tr>
<td>T-4918</td>
<td>1:20,000</td>
<td>1934</td>
</tr>
<tr>
<td>T-4930</td>
<td>&quot;</td>
<td>1935</td>
</tr>
<tr>
<td>T-4931</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>T-6241</td>
<td>&quot;</td>
<td>1934</td>
</tr>
<tr>
<td>T-6201</td>
<td>&quot;</td>
<td>1937</td>
</tr>
</tbody>
</table>

The 1934 through 1937 surveys were used to supplement and control the photogrammetric compilation. See Items 31, 33, and 35 of the Compilation Report. These surveys are superseded by the map manuscripts for nautical charting purposes.

63. **Comparison with maps of other Agencies.**

<table>
<thead>
<tr>
<th>Map</th>
<th>Scale</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unimak (USGS)</td>
<td>1:250,000</td>
<td>1951</td>
</tr>
</tbody>
</table>

Scale difference makes comparison impractical.

64. **Comparison with Contemporary Hydrographic Surveys.**

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>H-5744</td>
<td>1:20,000</td>
<td>1934</td>
</tr>
<tr>
<td>H-5762</td>
<td>&quot;</td>
<td>1935</td>
</tr>
<tr>
<td>H-5970</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>H-6319</td>
<td>&quot;</td>
<td>1937-38</td>
</tr>
</tbody>
</table>

There are no discrepancies between the map manuscripts and these surveys.

The shoreline at Round Head was changed to agree with H-5744. Steep cliffs alongshore made photogrammetric compilation of the shoreline impossible. See Item 35 of the Compilation Report.

65. **Comparison with Nautical Charts.**

<table>
<thead>
<tr>
<th>Chart No.</th>
<th>Scale</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>8720</td>
<td>1:80,000</td>
<td>1943</td>
</tr>
<tr>
<td>9005</td>
<td>1:20,000</td>
<td>1943</td>
</tr>
</tbody>
</table>

No discrepancies were noted between the map manuscript and the nautical charts except for contours and drainage.

66. **Adequacy of Results.**

These maps are adequate for use in hydrographic surveys and nautical chart construction.

Reviewed by:  

[Signature]

C. Theurer
APPROVED:

Le Lande
Chief, Review Branch
Div. of Photogrammetry

Chief, Div. of Photogrammetry
18 Nov. 1955

Chief, Nautical Chart Branch
Division of Charts & F.

Earl C. Heaton
Chief, Division of Charts
Coastal Surveys
History of Hydrographic Information
Quadrangle T-9978
Akun Island, Alaska

Hydrography was applied to the map manuscript of this quadrangle in accordance with Division of Photogrammetry General Specifications dated 18 May 1949 and Army Map Service TM 45-14, Chapter 14.

The depths are in fathoms and originate with the following surveys:

<table>
<thead>
<tr>
<th>Depth Mark</th>
<th>Date</th>
<th>Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>H-5744</td>
<td>1934</td>
<td>1:20,000</td>
</tr>
<tr>
<td>5762</td>
<td>&quot;</td>
<td>&quot;</td>
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<td>5970</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>6319</td>
<td>1937-38</td>
<td>&quot;</td>
</tr>
</tbody>
</table>

USCGS Chart 9005 51-1/29 1:20,000 - Unalaska Datum

Depth curves are shown at 1, 3, 5, and 10 fathoms. Hydrography compiled by K. N. Maki and checked by O. Svendsen.

K. N. Maki
Div. of Photogrammetry
5/28/54
History of Hydrographic Information
Quadrangle T-9979
Akun Island, Alaska

Hydrography was applied to the map manuscript of this quadrangle in accordance with Division of Photogrammetry General Specifications dated 18 May 1949 and Army Map Service TM 45-14, Chapter 14.

The depths are in fathoms and originate with the following surveys:

<table>
<thead>
<tr>
<th>H-5744</th>
<th>(1934)</th>
<th>1:20,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>5761</td>
<td>(1935)</td>
<td>1:40,000</td>
</tr>
<tr>
<td>6319</td>
<td>(1937,38)</td>
<td>1:20,000</td>
</tr>
</tbody>
</table>

Depth curves are shown at 1, 3, 5, and 10 fathoms. Hydrography compiled by K. N. Maki and checked by O. Svendsen.

K. N. Maki
Div. of Photogrammetry
5/28/54
**INSTRUCTIONS**

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

<table>
<thead>
<tr>
<th>CHART</th>
<th>DATE</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-970</td>
<td>10-20-64</td>
<td>George Myers</td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
<tr>
<td>T-970</td>
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