9978 9979

9979

9978

Diag. Cht. Nos. 8802 & 8860-2

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 T-9979

LOCALITY

State Alaska

General locality Aleutian Islands, Fox Islands, Krenitzin Islands.

Locality Akun Island

194 51

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

DATE November 21, 1955

8-1870-1 (1)

DATA RECORD

T-9978, 9979

Project No. (II): Ph-34(48)

Quadrangle Name (IV): T-9978 = LOST HARBOR
T-9979 = SEREDKA BAY

Field Office (II):

Chief of Party:

Photogrammetric Office (III): Washington, D.C.

Officer-in-Charge: Louis J.Reed, chief Stereomap Section

Instructions dated (II) (III): None

Copy filed in Division of Photogrammetry (IV)

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

Manuscript Scale (III): 1:20,000

Stereoscopic Plotting Instrument Scale (III): 1:8500

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

Applied to Chart No.

Date:

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 (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III):

Lat.:

Long.:

Adjusted
~~XXXXXXX~~

Plane Coordinates (IV):

State:

Zone:

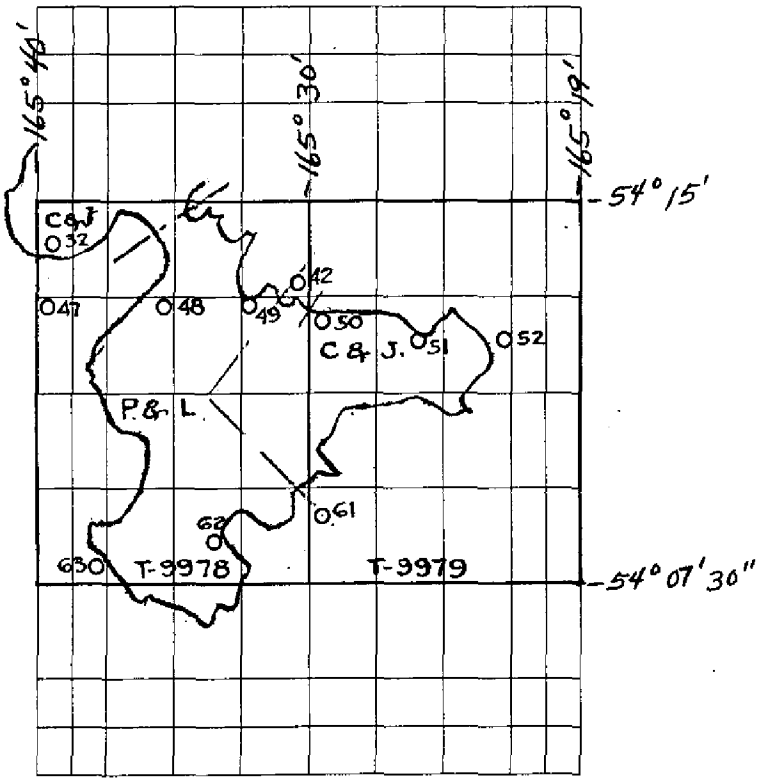
Y=

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)
(☒ (III)

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:

Planetable 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 on the Reading Ruling machine Date: 20 June 52

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

Control plotted by (III): Date:

David F. Romero 23 Jun 52

Control checked by (III): Date:

Stanley W. Trott 23 Jun 52

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

Stereoscopic Instrument ~~compilation~~ Delineation (III): Planimetry & Contours Lt.Parkinson, Frank J.Lesslie, Bernard J.Colner, Ivan R.Jarret Date: 6 Aug 52

Manuscript ~~drafted~~ compiled 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 (~~II~~ X) (III): William D. Harris Date: 2 Jan 53

M-2618-12(4)

Camera (kind or source) (III): U S Navy 6" wide-angle

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
032-04V	19 Jun 51	2332 Z	1:41,000	All approx.
042-05V	"	2352 Z	"	2 ft. below MSL
047thru052-06V	"	0003 Z	"	or
061thru063-07V	20 Jun 51	0016 Z	"	3 ft. below MHHW

NOTE:
Tide data computed by Mr. Wilcox of tides and currents, 10 Dec 52

Tide (III)

	Ratio of Ranges	Mean Range	Diurnal ~~Spring~~ Range
Reference Station: Dutch Harbor		2.2	3.7
Subordinate Station: Akun	0.8	1.6	3.0
Subordinate Station:			

Washington Office Review by (IV): Date:

Final Drafting by (IV): M.Charity T-9979 Jan.18,55 - Mar.3,55 M.Charity T-9978 Date: 19 May 55 - 25 May 55

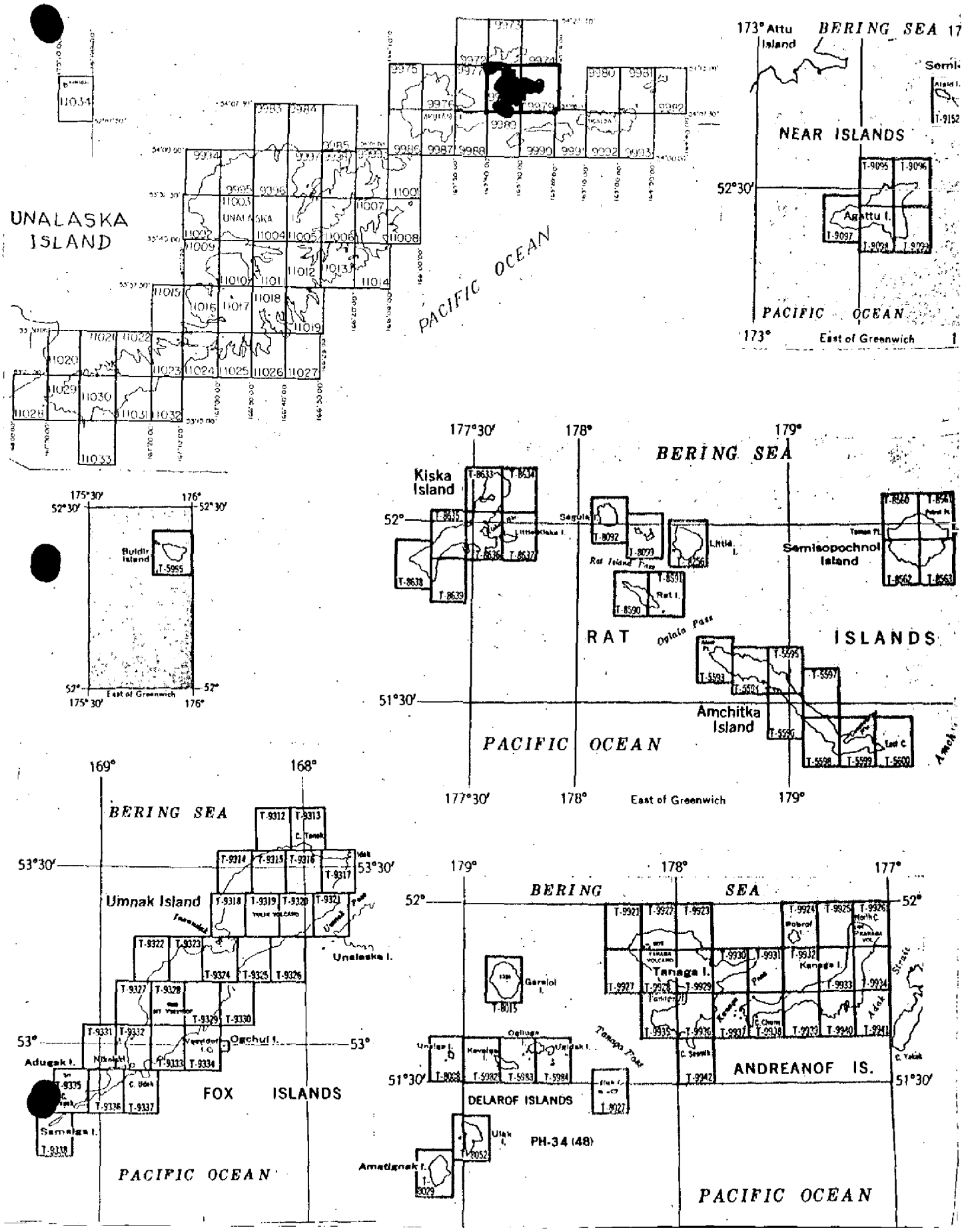
Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): 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 = 18 mi.
Shoreline (Less than 200 meters to opposite shore) (III): None
Control Leveling - Miles (II): None
Number of Triangulation Stations searched for (II): None Recovered: Identified: 0
Number of BMs searched for (II): None Recovered: Identified:
Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

ALASKA-BERING SEA Aleutian Islands



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.

COMPILATION REPORT T-9978, 79

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 thru051-06V) 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 Akun Island which falls in quadrangles T-9977 & 9989 has also been mapped and is reported here.~~ This portion of Akutan Island was compiled by Stero Mapping Section April 19, 1954. These maps are now complete.

32. Control:

Twentyfive 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.

33. Supplemental data:

a. Hydrographic Surveys:

H-5744: AVATANAK STRAIT, ALEUTIAN ISLANDS, ALASKA
1:20,000 scale, 1934 season, USC&GSS Surveyor
A.M. Sobieralski comdg.

H-5762: AKUN STRAIT, TOLSABANA BAY & VICINITY AS.W. OF ROOTOK ISLAND. 1:20,000 scale, 1935 season,
USC&GSS Surveyor, A.M. Sobieralski comdg.

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

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

b. Topographic Surveys:

T-4918: EASTERN PART OF AKUN ISLAND, ALEUTIAN ISLANDS,
1:20,000 scale, 1934 season,
USC&GSS Surveyor, A.M. Sobieralski comdg.

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

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

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

T-6601: AKUN COVE, AKUN ISLAND, ALEUTIAN ISLANDS, ALASKA
1:20,000 scale, 1937 season,
USC&GSS Surveyor A.M. Sobieralski comdg.

34. Contours and Drainage:

The photographic quality ofthe photographs was only average, yet satisfactory.

35. Shoreline and alongshore Details:

See side-heading 35 of the Descriptive Report for quadrangles T9972-73-74.

See Review Report

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 statins. It is believed that ~~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 ~~XXXXXXXX~~ 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:
"UNIMAK, Alaska Reconnaissance Topographic Series, Third Judicial Division" USGS 1:250,000, 1951 edition.

47. Comparison with Nautical Charts:

The Western side of Akun Island is covered by the same 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. 8720, 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 Hyrographer: Inapplicable

50. Compilation Office Review: See page 11.

Submitted by

Stanley W. Trow

Stanley W. Trow, chief,
Single lens Plotting Instrument Unit

Approved by:

Louis J. Reed

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

GEOGRAPHIC NAMES

Survey No.

T-9978, 79

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
T-9978										1
AKUN BAY ✓										2
AKUN ISLAND ✓										3
AKUN STRAIT ✓										4
AKUTAN BAY ✓										5
AKUTAN ISLAND ✓										6
HELIANTHUS COVE ✓										7
LOST HARBOR ✓										8
POA ISLAND ✓										9
RACE ROCKS ✓							Names approved 5-5-54 a.f.w.			10
SURF BAY ✓										11
TRIDENT BAY ✓										12
T9979										13
AKUN ISLAND ✓										14
AKUN BAY ✓										15
AVATANAK STRAIT ✓										16
BERING SEA ✓										17
CROSS BAY ✓										18
POA ISLAND ✓										19
ROUND HEAD										20
SEREDKA BAY ✓							Names approved 5-5-54 a.f.w.			21
TANGIK ISLAND ✓										22
TANGINAK ISLAND ✓										23
										24
										25
										26
										27

GEOGRAPHIC NAMES

Survey No.

T-9978, 79

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
T9977 (Akun Island only)										1
AKUN ISLAND										2
AKUTAN BAY										3
										4
T-9989 (Akun Island only)										5
AKUN ISLAND										6
JACKASS POINT										7
EASY COVE										8
AKUN STRAIT										9
										10
										11
										12
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										14
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										26
										27

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T-

1. Projection and grids ✓ 2. Title ✓ 3. Manuscript numbers ✓ 4. Manuscript size ✓

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 N
9. Plotting of sextant fixes N 10. Photogrammetric plot report N 11. Detail points N

ALONGSHORE AREAS

(Nautical Chart Data) N = None or inapplicable

12. Shoreline ✓ 13. Low-water line ✓ 14. Rocks, shoals, etc. ✓ 15. Bridges N 16. Aids to navigation ✓ 17. Landmarks ✓ 18. Other alongshore physical features ✓ 19. Other alongshore cultural features ✓

PHYSICAL FEATURES

20. Water features ✓ 21. Natural ground cover N 22. Planetable contours N 23. Stereoscopic instrument contours ✓ 24. Contours in general ✓ 25. Spot elevations ✓ 26. Other physical features ✓

CULTURAL FEATURES

27. Roads N 28. Buildings ✓ 29. Railroads N 30. Other cultural features N

BOUNDARIES

31. Boundary lines N 32. Public land lines N

MISCELLANEOUS

33. Geographic names ✓ 34. Junctions ✓ 35. Legibility of the manuscript ✓ 36. Discrepancy overlay N 37. Descriptive Report ✓ 38. Field inspection photographs N 39. Forms ✓
40. William D. Harris — Reviewer; Louis J. Reed — Supervisor, Review Section or Unit

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:

M-2623-12

Review Report
Topographic Maps T-9978 and T-9979
April 20, 1954

62. Comparison with Registered topographic surveys.-

T-2546	1:40,000	1901
T-4918	1:20,000	1934
T-4930	"	1935
T-4931	"	"
T-6241	"	1934
T-6601	"	1937

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.-

Unimak (USGS) 1:250,000 1951
Scale difference makes comparison impractical.

64. Comparison with Contemporary Hydrographic Surveys.-

H-5744	1:20,000	1934
H-5762	"	1935
H-5970	"	"
H-6319	"	1937-38

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.-

Chart No.	8720	1:80,000	1943
	9005	1:20,000	1943

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:

Charles Theurer

C. Theurer

APPROVED:

L C Lande
Chief, Review Branch
Div. of Photogrammetry

Chief, Nautical Chart Branch
Division of Charts GFJ

Chief, Div. of Photogrammetry
18 Nov. 1955

Earl B. 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:

H-5744	(1934)	1:20,000
5762	(1934)	"
5970	(1935)	"
6319	(1937,38)	"

USC&GS 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

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:

H-5744	(1934)	1:20,000
5761	(1935)	1:40,000
6319	(1937,38)	1:20,000

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

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

FORM C&GS-8352
(3-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-9978 - T-9979

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.

	CHART	DATE	CARTOGRAPHER	REMARKS
T-9979	8720	10-20-64	George Myers	~~Full~~ (Part) ~~Before~~ (After) Verification Review Inspection Signed Via Drawing No. MR
T-9978	"	"	" "	~~Full~~ Part ~~Before~~ After Verification Review Inspection Signed Via Drawing No. MR
				Full Part Before After Verification Review Inspection Signed Via Drawing No.
				Full Part Before After Verification Review Inspection Signed Via Drawing No.
				Full Part Before After Verification Review Inspection Signed Via Drawing No.
				Full Part Before After Verification Review Inspection Signed Via Drawing No.
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