

ORIGINAL

Diag. Cht. No. 8860-2 & 8802
Form 504
U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT
Type of Survey Topographic
T-9972
Field No. Ph-34 (48) Office No. T-9974
LOCALITY
State Ala bk a
Aleutien Talenda For
General locality Aleutian Islands, Fox Islands, Krenitzin Islands
Locality Akun Island
<u> 194 .51</u>
CHIEF OF PARTY
Div of Photogrammetry, Washington, D.
LIBRARY & ARCHIVES
DATE 101_191955
DATE 1012
. B-1870-) (I)

DATA RECORD

Т9972, 9973, 9974

T-9974 = BILLINGS HEAD Project No. (II): Ph-34(48) Quadrangle Name (IV): T-9973 = LITTLE 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):

Copy filed in Division of Photogrammetry (IV)

.None

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

Manuscript Scale (III): 20,000

Stereoscopic Plotting Instrument Scale (III): 8500

Photograph Scale = 41,000 Pantograph Reduction = 8500 to 20,000

Date received in Washington Office (IV): DEC 1 8 1952

Applied to Chart No.

Date:

Date registered (IV): 6-21-15

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 $(\underline{5})$ refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III):

Lat.:

Long.:

Adjusted Minadilestrek

Plane Coordinates (IV):

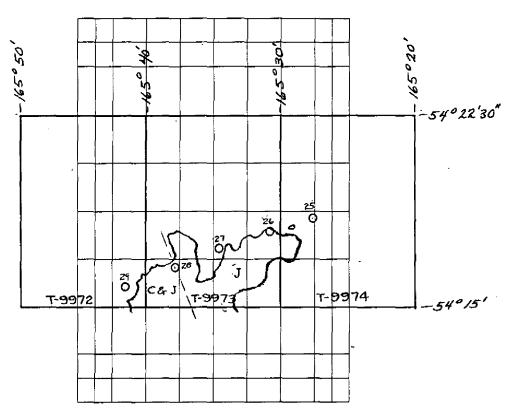
State:

Zone:

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, model "B", by:

J = Ivan R.Jarrett

C&J = Bernard J. Colner and Ivan R. Jarrett

INDEX OF TOPOGRAPHIC SURVEYS AND HYDROGRAPHIC SURVEYS

Shoreline (----) = T-4931 and H-5970 Shippeline (----) = T-6601 and H-6319

DATA RECORD

Field Inspection by (II):

None

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 on these manuscripts is dated 1951 since theyphotographs used for the instrument delineation were taken in 1951.

Projection and Grids ruled by (IV):	Doeding Duling	Date:	6	jun	52
Jack Allen on the Projection and Grids checked by (IV):	Howard D. Wolfe	Date:	6	Jun	52
Control plotted by (III):	David F.Romero	Date:	16	Jun	52
Control checked by (III):	Louis J.Reed	Date:	16	Jun	52
Radial:Blot or Stereoscopic Control extension by (III):	Ivan R.Jarrett and Bernard C. Colner	Date:	18	Jul	52
delineation Stereoscopic Instrument composition (II	Planimetry II): Ivan R. Jarrett and Bernard C. Colner Contours				
Colocasopic installment contribution (ii			Tg	Jul	52
compiled Manuscript deligeated by (III):	John B. McDonald	Date;	2	Dec	52
Photogrammetric Office Review by (III)	Louis J. Reed and William D. Harris	Date:	12	Dec	52
Elevations on Manuscript checked by x1) (III):	Louis J. Reed and William D. Harris	Date:	12	Dec	52

Form T-Page 3

M-2618-12(4)

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

PHOTOGRAPHS (III)					
Number	Date	Time	Scale	Stage of Tide	
025-03V thru 029-03V	19 Jun 51	2324 Z	<u>н</u> 1,000	2ft below MSL 3ft below MHHW	

NOTE:

Tide data computed by Mr Wilcox of Tides and Currents, 10 Dec 52.

Tide (III)	Ratio of	di: Mean	irna Semi
	Ranges	Range	Range
		2.2	3.7
	0.8	1.6	3.0

Reference Station:

Dutch Harbor

Subordinate Station:

Akun

Subordinate Station:

Washington Office Review by (IV):

Date:

Final Drafting by (L)

Date:

Drafting verified for reproduction by (IV):

2-21-55 Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): T-9972 = 0.5 sq mi; T-9973 = 14 sq mi; T-9974 = 0.9 Shoreline (More than 200 meters to opposite shore) (III): T-9972 = 2 mi; T-9973 = 22; 9974 = 3Shoreline (Less than 200 meters to opposite shore) (III): None

Control Leveling - Miles (II): None

Number of Triangulation Stations searched for (II): None

Recovered:

Identified:

Number of BMs searched for (II): Mone

Recovered:

(dentified:

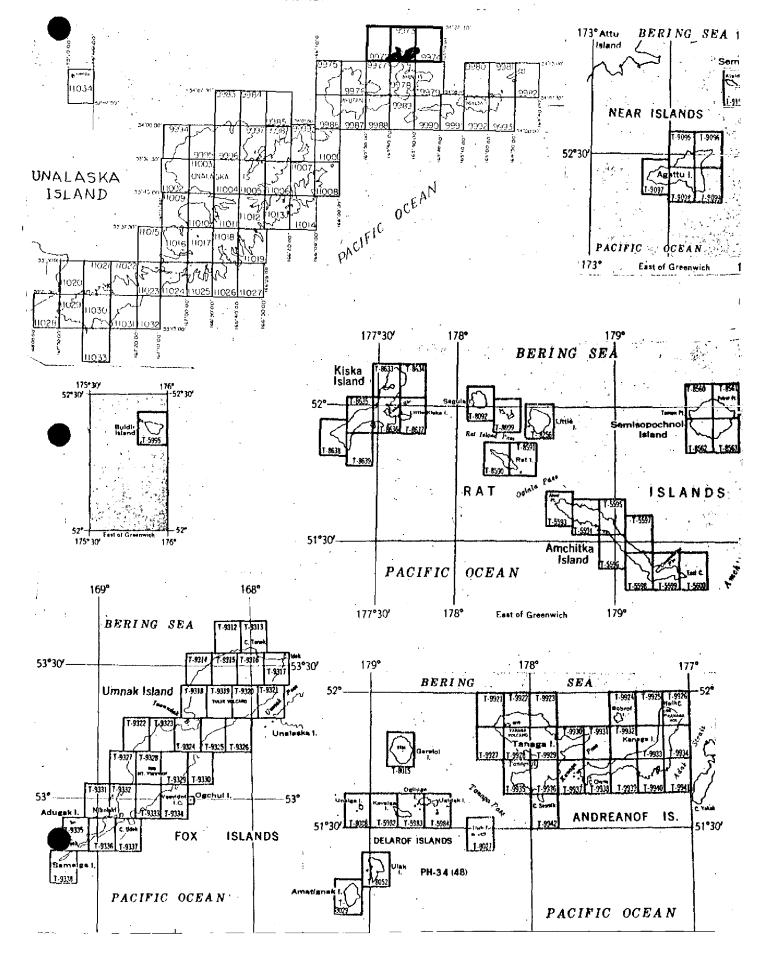
Number of Recoverable Photo Stations established (III): None

Number of Temporary Photo Hydro Stations established (III):None

Remarks:

TOPOGRAPHIC MAPPING PROJECT PH-34 (48) Page 5

ALASKA-BERING SEA Aleutian Islands



Summary

T-9972, T-9973, and T-9974

These maps are three 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 on these maps. 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 poblication.

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

31. Delineation:

In the absence of field inspection or control identification for this project, 1935 topo and hydro surveys have served both purposes. Therefore no field inspection report is written as a part of this report; only the reports with each topo and hydro survey are involved. Filed in Bureau Archives

No Radial Plot Report is included as a part of this report since no radial plot was required by the compilation process employed. Delineation was accomplished on the Kelsh Plotter by directsetting of each model to the topo survey of the area of each model. Established triangulation was first plotted on the manuscript sheets, and while holding this same control on the topo sheet, two stations at a time, the shoreline and offshore rocks/tere transferred the stations at a time, the control for establishing the scale and orientation of each model. Offshore rocks in the near vicinity of each station were considered the more stable control and were given preference when conflicts occurred. For leveling each model for contouring purposes, the sea-level datum at the shoreline was used, with occasional checks on inland elevations established during the platetable operations. A great deal of shoreline existed in each model and therefore each model was established separately, both horizontally and vertically. The entire land area of these three quads has been mapped.

32. Control:

Twentyone triangulation stations exist in the area of the three quads of this report, a majority of then being along the shoreline. Several hydro signals were established along the shoreline also, between the primary control stations. No identification cards exist for any of these control points; The triangulation stations were described in the printed Description List, No 21. Hydrographic Signals are not shown or map. As stated in side-heading 31 above, vertical control man were the state of t

consisted of sea-level at the shoreline and points of

elevation fixed during the field topo survey.

Both horizontal and vertical control was sufficient for controlling this compilation. Very few of the permanent stations were held directly because of lack of identification, but the great number of detail points near each station permitted a choice or selection of control points such that a majority of the group were held to.

33. Supplemental Data:

a. Hydro Surveys:

H-5970: AKUTAN BAY & NORTH COAST AKUN ISLAND, ALEUTIAN ISLANDS, 20,000 scale, 1935 season, USC&GS Ship SURVEYOR, A.M. Sobieralski comdg.

33. Supplemental Data (continued):

a. Hydro Surveys (continued):

H-6319: AKUN COVE, AKUN ISLAND, ALEUTIAN ISLANDS, 1937-8, 1:20,000, USC&GS SHIP SURVEYOR, A.M. Soberalski comdg

b. Topo Surveys:

T-4931: NORTH COAST OF AKUN ISLAND, ALEUTIAN ISLANDS, Alaska, 1:20,000, 1935 season, USC&GS SHIP SURVEYOR, A.M. Soberalski comdg.

T-6601: AKUN COVE, AKUN ISLAND, ALEUTIAN ISLANDS, ALASKA, 1:20,000, 1937 season, USC&GS SHIP SURVEYOR, A.M. Soberalski comdg.

34. Contours and Drainage:

The photographic quality of the photographs used was only average, yet satisfactory except in shadow areas caused by extreme high and steep terrain. Only questinable contours could be mapped in these shadow areas and they can be identified on the manuscript as dashed contours.

35. Shoreline and Alongshore Details:

In the absence of field inspected shoreline, the shoreline transferred from the topo surveys to the manuscript or instrument worksheets served as a guide during instrument delineation of the shoreline. The entire shoreline was recompiled because the tendency was for the majority of it to need remapping; changes were never very great in distance, mostly in shaping. All offshore details shown on the Topo or Hydro surveys were investigated in the models; if visible they were detailed. After compilation, a comparison was made with the hydro surveys and all unmapped details thereon that had not been seen and detailed were added to the manuscripts in red ink; these details included a few rocks, most of the rocks awa manken rocks, and kelp. The shoreline and alongshore details as shown on the mansucripts, the combination of both instrument details in black and those from the hydro surveys in red, are not in disagreement with the soundings and depth curves on

- 36. Offshore Details: Covered in side-heading 35 above.
- 37. Landmarks and Aids: None recommended Billings Head Light not visible in photographs.
- 38. Control for Future Surveys: Not applicable.

39. Junctions:

the hydro sheets.

Maps joining the three maps of this report are shown on the map layout sketch, page5. 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 set up by map accuracy standards for maps of that scale and interval.

46. Comparison with Existing Maps:

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

"UNIMAK, Alaska Reconnaissance Topographic Series, Third Judicial Division", USGS, 1:250,000, 1951 edition.

147. Comparison with Nautical Charts:

The largest scale chart covering the north portion of Akun Island that falls within the three sheets of this report is: "KRENITZIN ISLANDS", No 8720, 1:80,000, June 1943(1st edition), last correction date of 1 January 1952.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY = None
ITEMS TO BE CARRIED FORWARD = Billings Head Light

- 45. Geographic Name List: See page 10.
- 49. Notes for the Hydrographer: Not applicable.
- 50. Compilation Office Review: See page 11.

Submitted by

Stanley W. Trow, Chief,

Single Lens Plotting Instrument Unit

Approved by

Louis J. Rzed/Chief Stereoscopic Mapping Section

Photogrammetric Engineer

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PHOTOGRAMMETRIC OFFICE REVIEW

T. 9972, 73, 74

1. Projection and grids2. Title3. Manuscr	ipt numbers4. Manuscript size
CONTROL STAT	IONS
5. Horizontal control stations of third-order or higher accuracy_	
than third-order accuracy (topographic stations)7. Ph	
9. Plotting of sextant fixes 10. Photogrammetric plot	,
5. Floring of Sexial tixes	- eheched
ALONGSHORE A	REAS N=non-equa
(Nautical Chart	Data)
12. Shoreline13. Low-water line14. Rocks,	shoals, etc15. Bridges16. Aids
to navigation17. Landmarks18. Other alon	gshore physical features 19. Other along -
shore cultural features	
_/	
PHYSICAL FEAT	JRES
20. Water features 21. Natural ground cover	22. Planetable contours23. Stereoscopic
instrument contours 24. Contours in general 🗸 🛎	25. Spot elevations26. Other physical
features ———	
CULTURAL FEAT	JRES
27. Roads 28. Buildings 29. Railroads	2 30. Other cultural features
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BOUNDARIE	3
31. Boundary lines32. Public land lines	
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MISCELLANEO	us .
33. Geographic names34. Junctions35. Le	gibility of the manuscript 36. Discrepancy
overlay 27 37. Descriptive Report 38. Field ins	
Reviewer (Supervisor, Review Section or Unit
da Barracka (see albertad also C	Louis J. Reed, Chief
41. Remarks (see attached sheet)	Stereeseepie Mapping Section
	Photogrammetric Engineer
FIELD COMPLETION ADDITIONS AND CORP	
42. Additions and corrections furnished by the field completion manuscript is now complete except as noted under item 43.	survey have been applied to the manuscript. The
Compiler	Supervisor
43. Remarks:	M-2623-12

Review Report

T-9972, T-9973, and T-9974

62. Comparison with Registered Topographic Surveys .-

T-2546	1:40,000	1901
T-4931	1:20,000	1935
T-6601	1:20,000	1937

T-4931 and T-6601 were used to supplement the photogrammetric compilation. See items 31 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

1:250,000

1951

Scale difference makes comparison impractical.

64. Comparison with Contemporary Hydrographic Surveys .-

H-5970 1:20,000 1935 H-6319 1:20,000 1937-38

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

65. Comparison with Nautical Charts .-

Chart No. 8720

1:80,000

1943

Billings head light was not visible on the photographs and is not shown on T-9973.

66. Adequacy of Results .- These maps is edequate for use in hydrographic surveys and nautical chart construction.

Reviewed by:

C. Theurer

APPROVED

Chief, Review Branch

Div. of Photogrammetry

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hief, Div. of Coastal Surveys

Chief, Nautical Chart Branch Division of Charts CFU

Chief Div. of Photogrammetry

July 5, 19

- 3,

History of Hydrographic Information Quadrangle T-9972 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 at mean lower low water and originate with the following surveys:

H-5970 (1935) 1:20,000 H-5971 (1935) 1:20,000

Depth curves are shown at 5 and 10 fathoms. Hydrography compiled by C. Theurer and checked by O. Svendsen 14 May 1954.

C. Theurer

Div. of Photogrammetry 5/4/54

History of Hydrographic Information Quadrangle T-9973 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 at mean lower low water and originate with the following surveys:

H-5970 (1935) 1:20,000 H-5971 (1935) 1:20,000

Depth curves are shown at 1,3,5, and 10 fathoms. Hydrography compiled by C. Theurer and checked by O. Svendsen 14 May 1954.

C. Theurer

Division of Photogrammetry 5/5/54

History of Hydrographic Information Quadrangle T-9974 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 at mean lower low water and originate with the following surveys:

H-5761 (1934-35)1:40,000 5971 (1935) 1:40,000 6319 (1937-38)1:20,000

Depth curves are shown at 3,5, and 10 fathoms. Hydrography compiled by C. Theurer and checked by O. Svendsen 14 May 1954.

C. Theurer

Div. of Photogrammetry

5/14/54

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO, 5. 9972,

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.

4		,	г. — — — — — — — — — — — — — — — — — — —	recommendations made under Comparison with Charts in the Review
	CHART	DATE	CARTOGRAPHER	REMARKS
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				Drawing No. Examined only no corrections made
	<u> </u>			at thin time MR 11/13/64.
T-4473	8720			Fall Part Before After Verification Review Inspection Signed Via
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T-9974	8720			End! Part Before After Verification Review Inspection Signed Via
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