11543

Diag. Cht. No. 8862.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-34 Office No. T-11543

LOCALITY

State Alaska

General locality Andreanof Islands

Locality Atka Island

19_54-59

CHIEF OF PARTY
E.H.Kirsch, Chief of Field Party
L.W.Swanson, Div. of Photo, Wash.,D.C.

LIBRARY & ARCHIVES

ATF August 14, 1962

USCOMM-DC 5087

T-11543

Project No. (II): Ph-34 Quadrangle Name (IV): Chief of Party: E. H. Kirsh Field Office (II):Ship EXPLORER Photogrammetric Office (III): Washington, D. C. Officer-in-Charge; L. W. Swanson Instructions dated (II) (III): Copy filed in Division of Project Instructions 16 December 1954 Photogrammetry (IV) Instructions 10 November 1955 Supp. Office files Instructions 1 October Supp. 5 November 1957 Compilation Inst. (Shoveline) (conteurs) Reading Nine-lens plotter Method of Compilation (III): Graphic Stereoscopic Plotting Instrument Scale (III): 1: 20000 1:20,000 Manuscript Scale (III): Scale Factor (III): 1.0 Date received in Washington Office (IV) R^{R} Date reported to Nautical Chart Branch (IV): Date registered (IV): 16 day 1960 Applied to Chart No. Date: Publication Scale (IV): Publication date (IV): N A 1927 Geographic Datum (III): Vertical Datum (III): Radial Plot 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

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.

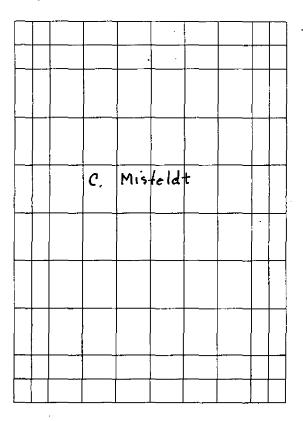
Plane Coordinates (IV): Universal Transverse Mercatostate:

Y=

X=

Unadjusted

Zone:



Areas contoured by various personnel (Show name within area)
(II) (III)

DATA RECORD

Field Inspection by (11): R. E. Williams southern shore, Wof & GreenDate: 7/1957

E. B. Brown East of A Green 6/1959

Planetable contouring by (II): None Date:

Completion Surveys by (II): None Date:

Mean High Water Location (III) (State date and method of location):

Stereoscopic examination of photographs taken 6 September 1954

Projection and Grids ruled by (IV): Haskins Date: 12/3/57

Projection and Grids checked by (IV): Haskins Date: 12/3/57

Control plotted by (III): B. Hale Date: 1/18/56

Control checked by (III): G. Walker Date: 1/20/56

Radial Plot or Stereoscopic J. Battley Jr. Date: Dec. 1957

Control extension by (III):

checked by (II) (III):

Planimetry Date:

Stereoscopic Instrument compilation (III): C. Misteldt June 1960
Contours Date:

Manuscript delineated by (III): R. Sugden (shoreline) Date: Dec. 1957
C. Misteldt (contours) June 1960

Photogrammetric Office Review by (III): E. Ramey (shore line) Date: Mar. 1958

L. Levin (contours) June 1960

Elevations on Manuscript

L. Levin

Camera (kind or source) (iII): C&GS Nine-Lens

Number	Date	Time	Scale	Stage of Tide
45984 45991 - 2 46041-2	6 Sept.54 6 Sept.54 6 Sept.54	1307 1323 1422	1:20,000 1:20,000 1:20,000	1.7 1.9 2.4

Tide (III)

Reference Station:

Sweeper Cove, Adak I.

Subordinate Station: Subordinate Station: Bechewim Bay, Atka I. Sagchodak I., Atka I

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III):

Shoreline (More than 200 meters to opposite shore) (III):

Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:

Ratio of Mean | Ranges Range Range

Date:

Date:

Date:

Identified:

Recovered:

Recovered:

Identified:

SUMMARY

to Accompany Topographic Map Manuscripts T-11540 thru T-11543.

These four (4) topographic surveys are part of Project Ph-34 (B & C). They cover the western portion of Atka Island from Cape Kigun eastward to Island Point near Bluefox Bay. Atka Island belongs to the Andreanof Islands group in the Aleutians of the state of Alaska.

Shoreline, foreshore and offshore were compiled graphically from December 1957 to March 1958 from nane-lens photography of 1954 and 1957 and furnished as preliminary manuscripts for hydrographic surveys. The four compilations were completed as topographic manuscripts from January to June 1960 on the Reading Plotter.

A limited field inspection was accomplished during seasons of 1957 and 1959 and the results applied to the manuscripts. This limited field inspection covered the south shore of Atka Island only since the plane-table surveys of the north shore of said island from 1943 were deemed adequate. At the request of the "Explorer" a number of the field-inspection photographs were returned to that ship and unfortunately not available to the reviewer during final review.

Cronar film positives at manuscript scale of 1:20,000 and the Descriptive Reports will be registered and filed in the Bureau Archives.

Photogrammetric Plot Report

This report covers the plot for surveys T-11540 through T-11543 and T-11552. It is filed as part of the Descriptive Report for T-11540.

FORM 164 (4-23-54)

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY CONTROL RECORD

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Compilation Report Project Ph-34 Atka Island T-11543

31. Delineation:

The manuscript was compiled by graphic methods to the new datum established by the January 1958 radial plot. Except for the addition of field inspection, the preliminary shoreline was not greatly changed.

Delineation of shoreline was accomplished by stereoscopic examination. The only field inspection on the manuscript is west of Cape Tadluk on the south shore. Planetable work was used to aid in the interpretation of shoreline on the north shore.

Field inspection east of Cape Tadluk was done in June 1959. Applied in 1960 This survey was initially compiled in 1957 as "Proliminary". Numerous revisions have been made by this survey.

32. Control:

The horizontal control is considered adequate as to density and accuracy of identification. (See photogrammetric plot report filed with Descriptive Report T-11540.)

33. Supplemental Data:

T-6917 b and T-6919, 1943, 1:20,000

These surveys were used as a guide in the stereoscopic examination of shoreline not covered by the 1957 field inspection.

34. Contours and Drainage:

Many of the elevations on planetable surveys T 6917b and T 6919 were in good agreement with the stereo instrument delineation. Where spot elevations agreed within five feet, the planetable elevation was retained as an unchecked field elevation

35. Shoreline and Alongshore Features:

The only field inspection was west of Cape Tadluk on the south shore (see item 31 above). As the photography was of good quality and near high water datum the HWL is well defined; the only exception being the south and east shore of Cape Tadluk, (shown as approximate MHWL) where the coverage was poor. This shoreline might be better defined during contouring.

Offshore breakers presented some difficulty in delineating offshore features. These were partially resolved by field inspection but as stated in the field report was also a problem to the field party.

The field inspection which was done appeared complete as to rock elevations. The limits of foul and kelp areas were uncertain from field inspection.

The shoreline in general is rocky and intricate in detail with many adjoining ledges. The southern shore is foul with rocks and kelp.

36. Offshore Details:

A foul area lies northeast of Island Point.

37. Landmarks and Aids:

None

38. Control for Future Surveys:

None

39. Junctions:

Junctions were made with adjoining manuscripts T-9142 and T-914.

40. Horizontal and Vertical Accuracy:

- a. Horizontal No deficiencies in horizontal position were noted.
- b. Vertical Water elevation, corrected from observed tide data, was used for vertical control.

யு. Comparison with Existing Maps:

T-6917 1:20,000, 1943 T-6919, 1:20000, 1943

T-11543 agrees generally with these surveys, but there are numerous differences in position and shape of shoreline features.

45. Comparison with Nautical Charts:

8862, 1:300,000 corrected to 51/10-15 Items to be applied to charts immediately:

Items to be carried forward:

Submitted by:

Robert L. Sugden Cartographer

Approved:

Everett H. Ramey, Chief Graphic Compilation Unit

Topographic section of separt submitted by:

Clarence Misfeldt

Approved:

GEOGRAPHIC NAMES LIST

Andreanof Islands Atka Island

Beaver Bay Bering Sea Bluefox Bay

Cape Tadluk

Island Point

Pacific Ocean

GOGRAPATO NAMES SECTION 12 JULY 1960

REVIEW ROPORT OF TOPOGRAPHIC MANUSCRIPTS T-11540 THRU T-11543

July 1960

62. Comparison with Registered Topographic Surveys: T-6917^b 1:20,000 1943 T-6921 1:20,000 1943 T-6922 1:20,000 1943

The shoreline is in good agreement between these surveys. Some forshore information from the north shore of Atka Island was transferred from the 1943 T-sheets to subject manuscripts since that part was not field-edited and some of this information was not clearly defined on the photography. However, the intricate shoreline of subject manuscripts indicates complete detailing of its present condition and T-11540 thru T-11543 are to supersede above listed registered topographic surveys for nautical charting purposes of common areas.

63. Comparison with Maps of Other Agencies:

ATKA, ALASKA, 1:250,000 U. S. Geological Survey, 1952 Agreement is as well as scale difference allows.

64.	Comparison with	Contemporary	Hydrographic	Surveys:
	н-6846	1:20,000		1943
	н-6847	1:20,000	•	1943
	н-6848	1:20,000		1943
	н-8438	1:20,000		1957
	H-8439	1:20,000		1958
	H-8474	1:20,000		1958

There are some shoreline and foreshore differences between the 1943 hydrographic surveys and subject surveys, none of which appear to interfere with the hydrographic information shown. Advance shoreline and control of subject T-sheets was furnished for hydrographic surveys H-8438, H-8439 and H-8474. However, minor changes resulting from field inspection, adjustments in the application of contours by instruments and final review should be considered for application prior to completion of these hydrographic surveys.

65. Comparison with Nautical Charts:

9136	1:40,000	Revised to	52	1/28	(Preliminary	Chart)
9137	1:40,000	Revised to	51	11/5	(Preliminary	Chart)
8862	1:300,000	Revised to	60	6/6		

Charts 9136 and 9137 are based on 1943 hydrographic surveys (listed under item No. 64) and indicate similar descrepancies with subject surveys. The scale of chart 8862 does not permit a conclusive comparison.

66. Adequacy of Results and Future Surveys:

A limited field inspection was confined to the south shore of Atka Island. Some of the field inspection photographs were not available during final review. Other than these, no deficiencies in accuracy or adequacy are indicated.

Reviewed by:

Approved;

Drafting Section Chief, Review and Draf Div. Of Photogrammetry

NAUTICAL CHARTS BRANCH

SURVEY NO. **T-115**43

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
6/1/66	8862	SMª Miller Harols Scharol	Before After Verification and Review Gyam. No Critical
ļ		1	come part applied
11/13/68	9136	Harold Scharof	Before After Verification and Review
			Lully repid.
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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}			Before After Verification and Review
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			Before After Verification and Review
			Before After Verification and Review
	 	<u> </u>	
			M.2168.1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

M-2168-1