

11542

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-11542

LOCALITY

State Alaska

General locality Andreanof Islands

Locality Atka Island

1954-58

CHIEF OF PARTY

E.H.Kirsch, Chief of Field Party

L. W. Swanson, Div. Of Photo. Wash., D.C.

LIBRARY & ARCHIVES

DATE May 1963

USCOMM-DC 5087

11542

DATA RECORD

T- 11542

Project No. (II): PH-34

Quadrangle Name (IV):

Field Office (II): Ship "Explorer"

Chief of Party: E. H. Kirsch

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

Officer-in-Charge: L. W. Swanson

Instructions dated (II) (III):

Project Instructions 16 Dec 1954
 Supp " 10 Nov 1955
 " " 1 Oct 1956
 Compilation " 5 Nov 1957

Copy filed in Division of
 Photogrammetry (IV)

Office files

Method of Compilation (III): *shoreline:* Graphic Compilation

*Contours:
 Reading Nine Lens Plotter*

Manuscript Scale (III): 1:20,000

Stereoscopic Plotting Instrument Scale (III): *1:20,000*

Scale Factor (III): 1.0

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

16 Aug 1960

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

Unadjusted

Plane Coordinates (IV): *UTM*

State: *Alaska*

Zone: *I*

Y=

X=

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)
(II) (III)

DATA RECORD

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Field Inspection by (II): R. E. Williams

Date: 1957 + 1958

Planetable contouring by (II): None

Date:

Completion Surveys by (II): None

Date:

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

Identified by stereoscopic examination on photographs taken
Sept. 1954

Projection and Grids ruled by (IV): *Hastings*

Date: 2 Dec 1957

Projection and Grids checked by (IV): "

Date: "

Control plotted by (III): H. Lucas

Date: Nov. 1957

Control checked by (III): F. Wisiecki

Date: Nov. 1957

Radial Plot or Stereoscopic J. Battley, Jr.
Control extension by (III):

Date: Dec. 1957

Stereoscopic Instrument compilation (III):
Planimetry
C. Misfeldt
Contours

Date: *March, 1960*
Date:

Manuscript delineated by (III): G. Amburn, *shoreline*
C Misfeldt

Date: 2/4/58
March 1960

Photogrammetric Office Review by (III): E. Ramey, *shoreline*
L. Levin, Contours

Date: 21 Mar 1958
May 1960

Elevations on Manuscript
checked by (II) (III): *L. Levin*

Date: *May 1960*

Camera (kind or source) (III):

C&GS 9-lens

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
45985		1310	1:20,000	1.6
45989-90	6 Sept '54	1320	"	1.8
46043-44	"	1425	"	2.4

Tide (III)

Reference Station: Sweeper Cove, Adak I.
Subordinate Station: Bechevin Bay, Atka I.
Subordinate Station: Sagchudak 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 Ranges	Mean Range	Spring Range	Time	
			H	L
	3.7			
0.9	3.3		+0:10	+0:05
1.2	4.6		-1:25	-2:25

Date:

Date:

Date:

Date:

Recovered:

Recovered:

Identified:

Identified:

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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 nine-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 1958 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.

July 1960

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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.

MAP T. 11542

PROJECT NO. PH-34

SCALE OF MAP..... 1:20,000

SCALE FACTOR

[illegible]

1 FT. = 3048006 METER
COMPUTED BY: F. Wisiecki
G. Walker

DATE	Nov. 1957
	Jan. 1956

CHECKED BY: *H. Lucas*
D. Carrier

DATE Jan. 1956
NAV. 1957

COMM-DC-57843

COMPILATION REPORT
T-11542

31. DELINEATION:

Shoreline and foreshore features were delineated from stereoscopic interpretation with the aid of 9-lens field-inspected photographs at 1:20,000 scale numbered 46045, 45984 and 45988 thru 45990.

This manuscript was initially compiled in 1957 as a "Preliminary" survey. Numerous revisions have been made by this survey.

32. CONTROL:

See radial plot report attached to descriptive report T-11540.

33. SUPPLEMENTAL DATA:

Planetable sheets Nos. 6920 and 6917, 1:20,000, 1943 were used as a guide in the interpretation of shoreline features on the photographs.

34. CONTOURS AND DRAINAGE:

35. SHORELINE and ALONGSHORE FEATURES:

Little, if any, field identification of shoreline was done but generally the shoreline was readily identified on the photographs. The shoreline is extremely intricate in some areas and difficult to delineate in its true shape and position. This applies especially to rocks and ledge areas.

36. OFFSHORE DETAILS:

The areas of foul and kelp were generalized by the field party with no clear limit shown between them. Slight differences exist between the 1957 field work and the 1943 surveys.

37. LANDMARKS AND AIDS:

None

38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS:

North and South; no contemporary survey, East;
T-11543 and West T-11541.

40. HORIZONTAL AND VERTICAL ACCURACY:

a. Horizontal - No deficiencies were noted

b. Vertical

46. COMPARISON WITH EXISTING MAPS:

T-6917, 1:20,000, 1943 and T-6920, 1:20,000, 1943
Numerous differences exist in the delineation of shore-
line features. In general, an attempt was made to re-
concile differences. Only minor ones exist.

~~Naut. Ch.~~

47. COMPARISON WITH NAUTICAL CHARTS:

Chart No. 8862 scale 1:300,000, corrected 10-15-51

9137

49,000

11/5/51


ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:


Garnett S. Amburn

Approved:


Everett H. Ramey
Chief, Graphic Compilation Unit

GEOGRAPHIC NAMES LIST

Andreanof Islands (Title)

*Atka Island

*Bering Sea

Kovurof Bay

Kovurof Point

Mt. Sergief

Pacific Ocean

Podsopochni Bay

Podsopochni Point

Sergief Bay

Tillamook Cove

Wall Bay

* B.G.N. Decision



GEOGRAPHIC NAMES SECTION
21 JUNE 1960

COMPILATION REPORT

Topographic

T- 11542

31. Delineation

The interior detail was compiled on the Reading Nine-lens Plotters directly onto the shoreline manuscript.

32. Control

Water elevation, corrected from observed tide data, was used for vertical control. No additional vertical control was established by the field parties.

34. Many of the elevations on planetable survey T-6921 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.

Submitted by

C. Misfeldt
Clarence Misfeldt

Approved by

Louis Levin
Louis Levin, Chief
Nine-lens Stereo Unit

REVIEW REPORT OF
TOPOGRAPHIC MANUSCRIPTS T-11540 THRU T-11543
July 1960

62. Comparison with Registered Topographic Surveys:

T-6917 ^b	1:20,000	1943
T-6920	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.

2.

64. Comparison with Contemporary Hydrographic Surveys:

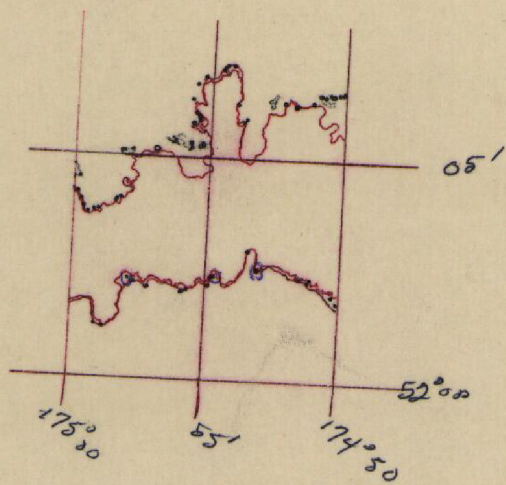
H-6846	1:20,000	1943
H-6847	1:20,000	1943
H-6848	1:20,000	1943
H-8438	1:20,000	1957
H-8439	1:20,000	1958
H-8474	1:20,000	1958

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 discrepancies with subject surveys. The scale of chart 8862 does not permit a conclusive comparison.



From T-11542
Chd-8862

Notes to Reviewer:

The Metrogon photography by the Navy on 7/21/51 was used as a final check of the interpretation of the shoreline area.

Despite the poor definition of the Metrogon lens, the 2x enlargements were valuable because of better shadow detail, low water and calm seas. With the superior definition of the Wilde or Tine lens cameras added to the demonstrated advantages of low water, calm seas and high sun, excellent photo interpretation could be obtained. With a few more improvements, the meager but expensive field inspection could be eliminated.

Lodge, as drawn on the manuscript, was not extended to cover the area indicated on the Navy photography

C.M.