

# 11541

Diag. Cht. No. 8862.

Form 594

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-34 Office No. T-11541

### LOCALITY

State Alaska (Aleutian Islands)

General locality Andreanof Islands

Locality Atka Island

19 54-58

### CHIEF OF PARTY

E.H.Kirsch, Chief of Party

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

### LIBRARY & ARCHIVES

DATE August 14, 1962

USCOMM-DC 5087

# 11541

# DATA RECORD

T-11541

Project No. (II): PH (34) Quadrangle Name (IV):

Field Office (II): Ship EXPLORER

Chief of Party: E. H. Kirsh

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

Instructions dated (II) (III):

Project instructions 16 Dec. 1954

Copy filed in Division of  
Photogrammetry (IV)

Supplemental " 10 Nov. 1955

" " 1 Oct. 1956

Office files

Compilation " 5 Nov. 1957

Method of Compilation (III):

*shaded line*  
Graphic

*Contours*  
*Reading Nine Lens Plotter*

Manuscript Scale (III): 1:20000

Stereoscopic Plotting Instrument Scale (III): 1:20000

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):

12/16/60

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:

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.

# DATA RECORD

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

Date: 1957 + 1958  
Field Season

Planetable contouring by (II): None

Date:

Completion Surveys by (II): None

Date:

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

Identified on 1954 photographs by stereoscopic interpretation

Projection and Grids ruled by (IV): ~~A. Riley~~ Hoskins

12/2/57  
Date: 10/24/55

Projection and Grids checked by (IV): " "

Date: " "

Control plotted by (III): B. Hale  
J Battley

Date: 1/16/56  
1/58

Control checked by (III): Donald Carrier

Date: 1/23/56 ✓

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

1/6/58  
Date: 8/8/56

Stereoscopic Instrument compilation (III):  
Planimetry

Date:

Contours C Misfeldt

Date: 2/15/60

Manuscript delineated by (III): G. Amburn  
C Misfeldt; Contours

Date: 1/21/58  
2/15/60

Photogrammetric Office Review by (III): E. Ramey  
L. Levin

Date: Feb. 1958  
Feb 1960

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

Date: Feb 1960

*C. misfeldti*

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

Camera (kind or source) (III):

C&GS 9-lens

Number	Date	Time	Scale	Stage of Tide
46045-46	6 Sept. '54	1426	1:20000	2.4
45987-88	"	1318	"	1.8
57-2 1899-1903	13/sept/ 1957	15:45	1:20,000	2.8

Tide (III)

Reference Station: Sweeper Cove, Adak I.

Subordinate Station: Bechevin Bay, Atka I.

Subordinate Station: Sagchudak 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) (II):

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:

Diurnal			Time	
Ratio of Ranges	Mean Range	Spring Range	H	L
	3.7			
0.9	3.15		+0:10	+0:05
1.2	4.6		-1:25	-2:05

Date:

Date:

Date:

Date:

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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-11549 and T-11552. It is filed as part of the Descriptive Report for T-11540.**



U.S. DEPARTMENT OF COMMERCE  
DESCRIPTIVE REPORTCOAST AND GEODETIC SURVEY  
CONTROL RECORD

MAP T. 11541

PROJECT NO. PH-34

SCALE OF MAP 1:20,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		TOTAL ADJUSTMENT	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
AD (W.W. ROCK) 1943	V155	N.A. 1927	52 04	51.423			1854.5	1589.4	265.1	
			175 01	43.720			1142.6	832.6	310.0	
HEAD 1943	V146	N.A. 1927	52 04	46.560			1854.5	1439.1	415.4	
			175 01	39.034			1142.7	743.4	399.3	
FOG (W.W. ROCK) 1943	V154	N.A. 1927	52 03	38.266			1854.5	1182.7	671.8	
			175 08	26.958			1143.2	513.6	629.6	
SADE 1943	V148	N.A. 1927	52 03	22.119			1854.5	683.7	1170.8	
			175 06	53.326			1143.3	1016.1	127.2	
BETTY 1957 845	Field Comp. Unjust.	N.A. 1927	52 01	31.181 188			1854.5	964.0	890.5	
			175 01	31.698 704			1144.0	604.5	539.5	
BETTY 1957 Sub. Pt.		N.A. 1927	52 01				1854.5	923.6	930.8	
			175 01				1144.0	562.1	581.9	
SANDY 1957 845	Field Comp. Unjust.	N.A. 1927	52 00	11.275 374			1854.5	348.4	1508.0	
			175 05	32.855 102			1144.6	612.4	532.2	
SANDY 1957 Sub. Pt.		N.A. 1927	52 00				1854.5	343.4	1511.1	
			175 05				1144.6	610.8	533.8	
BALDY 1957 845	Field Comp. Unjust.	N.A. 1927	52 03	25.633			1854.5	792.2	1062.3	
			175 08	19.003			1143.2	362.1	781.1	
BALDY 1957 Sub. Pt.		N.A. 1927	52 03				1854.5	804.8	1049.7	
			175 03				1143.2	368.3	774.9	
HEAD 1943 Sub. Pt.		N.A. 1927	52 04				1854.5	1462.4	392.1	
			175 01	25.091			1142.7	760.1	382.6	
WINDY 1957 845	Field Comp. Unjust.	N.A. 1927	52 00	24.996			1854.5	745.5	1079.9	
			175 00	51.147			1144.5	975.6	182.6	

1 FT. = 3048006 METER

COMPUTED BY: G. Walker

DATE Jan. 1956

CHECKED BY: D. Carrier

DATE

Jan. 1956

COMM. DC-57843



COMPILATION REPORT  
T-11541

31. DELINEATION:

The manuscript was compiled by graphic methods using the projector when necessary to adjust the work sheets to the scale of the manuscript. The shoreline and along-shore detail was delineated by office interpretation and field inspection notes.

This manuscript was compiled in 1957 as a "Preliminary Manuscript." Positions changed from the "Preliminary" manuscript as much as 60 meters.

32. CONTROL

The control was considered adequate. For further discussion of the control see photogrammetric plot report which is filed with the descriptive report for T-11540.

33. SUPPLEMENTAL DATA:

Single lens infra-red photographs Nos. 57L-1900 thru 1902 were used in conjunction with nine-lens photographs for delineating features on the north shore westward of triangulation station "SADE". These photographs were helpful in delineating shoreline and kelp in areas which were in shadow or overhang on the nine-lens photographs.

Planetable survey sheets Nos. T-6920 and T-6921 dated July and August 1943 were used as an aid in interpreting shoreline and alongshore features.

34 THROUGH 38: INAPPLICABLE

39. JUNCTIONS:

East T-11542, West T-11540, north <sup>T-11034</sup> and south no contemporary survey.

40. HORIZONTAL AND VERTICAL ACCURACY:

See photogrammetric plot report.

41 THROUGH 45: INAPPLICABLE



46. COMPARISON WITH EXISTING MAPS:

T-6920 (1943) 1:20,000 and T-6921 (1943) 1:20,000  
Some features shown on these surveys were not visible  
on the photographs. Otherwise no discrepancies exist.

47. COMPARISON WITH NAUTICAL CHARTS:

Chart No. 9137, scale 1:40,000 corrected 11-5-51.  
Items to be applied to nautical charts immediately : None  
Items to be carried forward: None

48. GEOGRAPHIC NAMES:

Bering Sea

Bechevin Point

Sergief Bay

*See separate listing*

Portage Lagoon

Bechevin Bay

White Point

Atka Island

Pacific Ocean

Submitted by:

*Garnett S. Amburn*  
Garnett S. Amburn

Approved:

*Everett H. Ramey*  
Everett H. Ramey  
Chief, Graphic Compilation Unit

ADDENDUM TO COMPILATION REPORT  
T-11540, T-11541, T-11544, T-11545 and T-11546  
9 October 1958

Segments of shoreline were redelineated on these manuscripts to incorporate a slight shift in datum which resulted from changes in positions of basic control. All changes are shown in red on the manuscripts and represent shifts in position up to approximately 0.6 mm. For a detailed discussion of the changes in position, see the appropriate photogrammetric plot reports filed as part of the Descriptive Reports for the above surveys.

  
\_\_\_\_\_  
Everett H. Ramsey  
Chief Graphic Compilation Unit

COMPILATION REPORT

Topographic

T- 11541

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

Louis Levin

Louis Levin, Chief  
Nine-lens Stereo Unit

GEOGRAPHIC NAMES LIST

Andreanof Islands (Title)  
\*Atka Island

Bechevin Bay  
Bechevin Point  
\*Bering Sea

Pacific Ocean

Sergief Bay

White Point

\* B.G.N. Decision

*George M. Ball*  
GEOGRAPHIC NAMES SECTION  
21 JUNE 1960

REVIEW REPORT OF

TOPOGRAPHIC MANUSCRIPTS T-11540 THRU T-11543

July 1960

62. Comparison with Registered Topographic Surveys:

T-6917 <sup>b</sup>	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.

3.

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:

*Josef J. Streifler*  
Josef J. Streifler

Approved;

*L. C. Lunde*  
Chief, Review and Drafting Section  
Div. Of Photogrammetry

*Marvin T. Paulson*  
Chief, Div. of Nautical  
Charts

*J. E. Waugh 8/13/62*  
Chief, Div. of Photogrammetry

*Max E. Smith*  
Chief, Coastal Surveys Div.  
Operations

## NAUTICAL CHARTS BRANCH

SURVEY NO. T-11541

## Record of Application to Charts

[illegible]

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.