

11544

11544

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	Topographic
Field No.	Office No. T-11544
LOCALITY	
State	Alaska (Aleutian Islands)
General locality	Andreanof Islands
Locality	Atka Island
19 54-59	
CHIEF OF PARTY	
E. H. Kirsh, Chief of Party	
L. W. Swanson, Washington Office	
LIBRARY & ARCHIVES	
DATE	

# DATA RECORD

T-11544

Project No. (II): 24050

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 December 1954  
Supplemental " 10 November 1955  
" " 1 October 1956  
Compilation " 5 November 1957

Copy filed in Division of  
Photogrammetry (IV)  
Office Files

Method of Compilation (III): Graphic (shoreline) Reading Nine-Lens Plotter (contours)

Manuscript Scale (III): 1:20,000

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):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III):

N. A. 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): Universal Transverse Mercator State: Alaska

Zone: 1

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.


C. Misfeldt

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

## DATA RECORD

Field Inspection by (II): R. E. Williams (Kobakov Bay) Date: 7/1957  
 E. B. Brown (West of Kobakov Bay) 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): Identified by office interpretation on 1954 photographs.

Projection and Grids ruled by (IV): J. Chaconas Date: 1/25/57

Projection and Grids checked by (IV): Date:

Control plotted by (III): G. Amburn Date: 1/20/57  
 F. Wisiecki Nov. 1958

Control checked by (III): H. Lucas Date: 1/22/57  
 Nov. 1958

Radial Plot or Stereoscopic J. Battley Date: 6 Jan. 1958  
~~Control extension by (HI):~~

Stereoscopic Instrument compilation (III): Planimetry Date:  
 C. Misfeldt July 1960  
 Contours Date:

Manuscript delineated by (III): J. Battley (shoreline) Date: 29 Jan. 1958  
 C. Misfeldt (contours) July 1960

Photogrammetric Office Review by (III): E. Ramey (shoreline) Date: 14 Feb. 1958  
 L. Levin (contours) July 1960

Elevations on Manuscript L. Levin Date: July 1960  
 checked by (II) (III):

Camera (kind or source) (III): C. & G. S. 9-lens

Number	Date	Time	Scale	Stage of Tide
45993	9/6/54	1326	1:20,000	1.3
45981	9/6/54	1301	1:20,000	1.4
45982	9/6/54	1302	1:20,000	1.4
45983 (T-11543)	9/6/54	1303	1:20,000	1.4
46009	9/6/54	1345	"	1.7

### Tide (III)

Reference Station: Sweeper Cove, Adak I  
 Subordinate Station: Nazan Bay, Atka I  
 Subordinate Station: Sagchudak I, Atka I

Ratio of Ranges	Mean Range	Spring Range	Time
	3.7		
0.89	3.3		+0:20 +0:20
1.24	4.6		-1:25 -2:25

Washington Office Review by (IV): K. N. Maki

Date: Oct. 1971

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

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):

Recovered:

Identified:

Number of BMs searched for (II):

Recovered:

Identified:

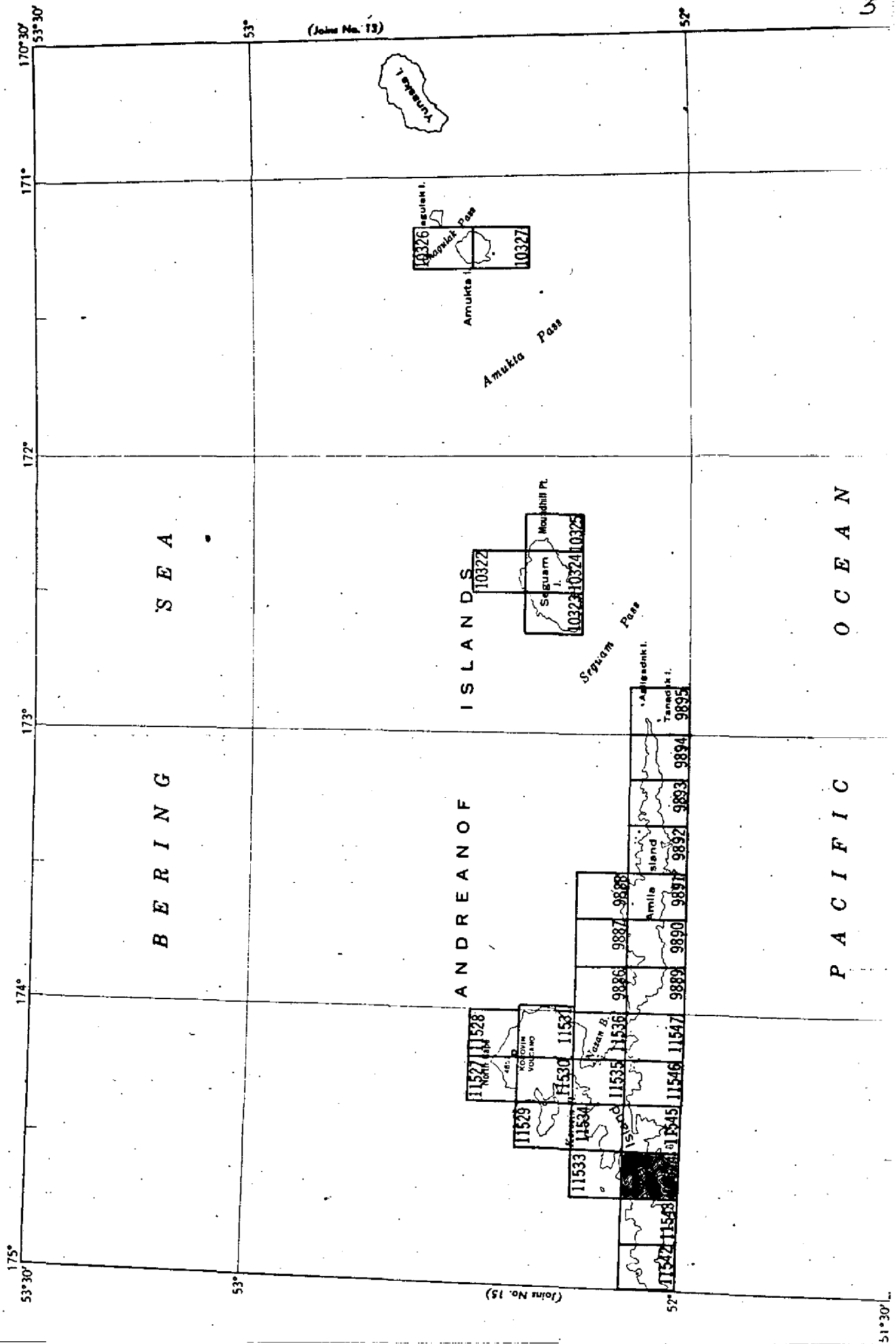
Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:

# TOPOGRAPHIC MAPPING PROJECT PH-34P

## Aleutian Islands ALASKA Part C



## Summary to Accompany Descriptive Report T-11544

Topographic map T-11544 is one of a series of similar maps covering a part of PH-34, Part C, Andreanof Island group, Aleutian Islands, Alaska. T-11544 covers that area of Atka Island that includes Deep Bay on the north or Bering Sea side and Beaver Bay to Kobakof Bay on the south or Pacific Ocean side of the island.

The field operations preceding compilation were limited to the recovery of horizontal control and the determination of elevations to control the nine-lens stereoplotter project vertically. Field inspection notes were restricted to the area of Kobakof Bay and west of Kobakof Bay.

The nine-lens compilation of contours was preceded by a graphic compilation of shoreline, foreshore and offshore features for hydrographic survey needs based on the field recovery of horizontal control with limited field inspection of shoreline and related features.

Contours were compiled on the Reading nine-lens stereoplotter. The contour interval is 50 feet with a first 25-foot contour where contour spacing permitted and where better expression of nearshore <sup>terrain</sup> configuration could be obtained.

The registered copy under T-11544 will consist of a cronaflex positive and a Descriptive Report.

Photogrammetric Plot Report

This report covers the plot for surveys T-11533 through T-11536 and T-11544 through T-11547. It is filed as part of the Descriptive Report for T-11533.



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COMPILATION REPORT  
Project PH-34 Atka 1  
T-11544

31. DELINEATION

The manuscript was compiled by graphic methods from field inspection data and office interpretation of photographs.

Kobakof Bay, on the southeastern limits of the manuscript was the only area that had field inspection. All other areas were compiled from office interpretation of the nine-lens photographs (see item 33 below).

West of Kobakof Bay was field inspected in June 1959. Applied in 1960

There was a shift in datum, (See Jan. 1958 plot report attached), of the preliminary shoreline in the area of Beaver Bay. This area has been recompiled and adjusted to the final plot positions.

32. CONTROL

The horizontal control is considered adequate with reference to density and accuracy of identification. (See the photogrammetric plot report for details).

33. SUPPLEMENTAL DATA

T-6919 at a scale of 1:20,000 surveyed in June 1943, was used to aid in the interpretation of shoreline delineation in the area of Deep Bay on the north side of Atka Island. No surveys were available for the south shore of Atka.

34. CONTOURS AND DRAINAGE

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

35. SHORELINE AND ALONGSHORE FEATURES

~~As mentioned in item 31 of this report, shoreline inspection was not complete for this survey.~~ <sup>See</sup> The photographs were taken near the time of high water, making a good interpretation of the MHW line possible. The shoreline in general is rocky and intricate in detail with numerous offshore rocks and ledges. ~~A complete shoreline inspection would have been desirable for more accurate compilation.~~

36. OFFSHORE DETAILS

See item 35 above.

37. LANDMARKS AND AIDS

Inapplicable

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Junctions were made with adjoining manuscripts T-11543, T-11544 and T-11533.

40. HORIZONTAL AND VERTICAL ACCURACY

a. Horizontal - No deficiencies in accuracy are indicated.

b. Vertical - Water elevation, corrected from tide data, was used for vertical control

41. COMPARISON WITH EXISTING MAPS

T-6919,            1:20,000            1943

Not all features on T-6919 were visible on T-11544 and thus are not shown. ~~Otherwise no discrepancies exist.~~

45. COMPARISON WITH NAUTICAL CHARTS

8862, corrected to 51 10/15  
9136, corrected to 52 1/28

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

NONE

Submitted by

Jeter P. Battley, Jr.  
Jeter P. Battley, Jr.  
Cartographer

Approved

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

Topographic section of report  
submitted by:


Clarence Misfeldt  
Clarence Misfeldt  
Cartographer

Approved

Louis Levin  
Louis Levin  
Chief, Nine Lens Stereo Unit

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

Segments of the shoreline were re-delineated 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. Ramey  
Chief, Graphic Compilation Unit

T-11544

48. Geographic Names List

- Andreanof Islands (title)
- Atka Island
- Beaver Bay
- Bering Sea
- Deep Bay
- Kobakof Bay
- Pacific Ocean
- Explorer Bay

PREPARED BY

*Frank W. Fickett*  
CARTOGRAPHIC TECHNICIAN

APPROVED BY

*A. Joseph Wraight*  
CHIEF GEOGRAPHER

Review Report  
T-11544  
Topographic Map

61. General Statement

Graphic compilation of shoreline was completed in 1958 to fulfill hydrographic survey needs. This shoreline compilation was followed by a separate contouring operation done on the Reading nine-lens plotter and completed in 1960. The additional field inspection of June 1959 was applied to the map during the contouring phase. The contour interval was 50 feet with a first 25-foot contour.

62 through 65. Comparison with Other Surveys

The map manuscript was compared with all prior registered topographic surveys, maps of other agencies, contemporary hydrographic surveys and nautical charts during compilation. Discrepancies and conflicts between the map manuscript and the prior surveys were resolved at the time comparisons were made.


66. Adequacy of Results and Future Surveys

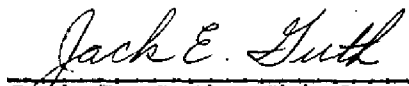
Shoreline and related features, including contours, are considered to be delineated adequately, although field work, except for a few areas (see item 31), was limited mainly to photo-identification of horizontal and vertical control.

Reviewed by:

  
K. N. Maki 10/8/71

Approved by:

  
Charles Theurer, Chief  
Photogrammetric Branch

  
Jack E. Guth, Chief  
Coastal Mapping Division