

11547

11547

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| Form 504 | |
| U. S. DEPARTMENT OF COMMERCE | |
| COAST AND GEODETIC SURVEY | |
| DESCRIPTIVE REPORT | |
| Type of Survey | Topographic |
| Field No. | Office No. T-11547 |
| LOCALITY | |
| State | Alaska (Aleutian Islands) |
| General locality | Andreanof Islands |
| Locality | Eastern part, Atka Is. |
| 1954-58 | |
| CHIEF OF PARTY | |
| E. H. Kirsh, Chief of Party | |
| L. W. Swanson, Washington Office | |
| LIBRARY & ARCHIVES | |
| DATE | |

DATA RECORD

T 11547

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):

| | |
|--------------------|--------------|
| Proj. 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):

Manuscript Scale (III): 1:20,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III):

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):

State:

Zone:

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 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 by office interpretation of photographs taken 1954

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

Control checked by (III): H. Lucas

Date: 1-22-57

Radial Plot or Stereoscopic

Date: 1-6-58

Control extension by (III): J. Battley

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours C. Misfeldt
V. McNeelDate: 1960
Jan. 1970

Manuscript delineated by (III): H. Lucas

Date: 29 Apr 1958

Photogrammetric Office Review by (III): E. Ramey

Date: 5 May 1958

Elevations on Manuscript
checked by (II) (III): L. Levin
K. N. MakDate: July 1960
Oct 1971

Camera (kind or source) (III): C&GS 9-lens

| PHOTOGRAPHS (III) | | | | |
|-------------------|--------------|------|----------|---------------|
| Number | Date | Time | Scale | Stage of Tide |
| 46004 | 6 Sept. 1954 | 1339 | 1:20,000 | 1.7 |
| 58909 | 18 " 1958 | 0947 | " | |

Tide (III)

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

| Ratio of Ranges | Mean Range | Spring Range |
|-----------------|------------|--------------|
| | 3.7 | |
| 0.89 | 3.3 | |
| | | |

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:

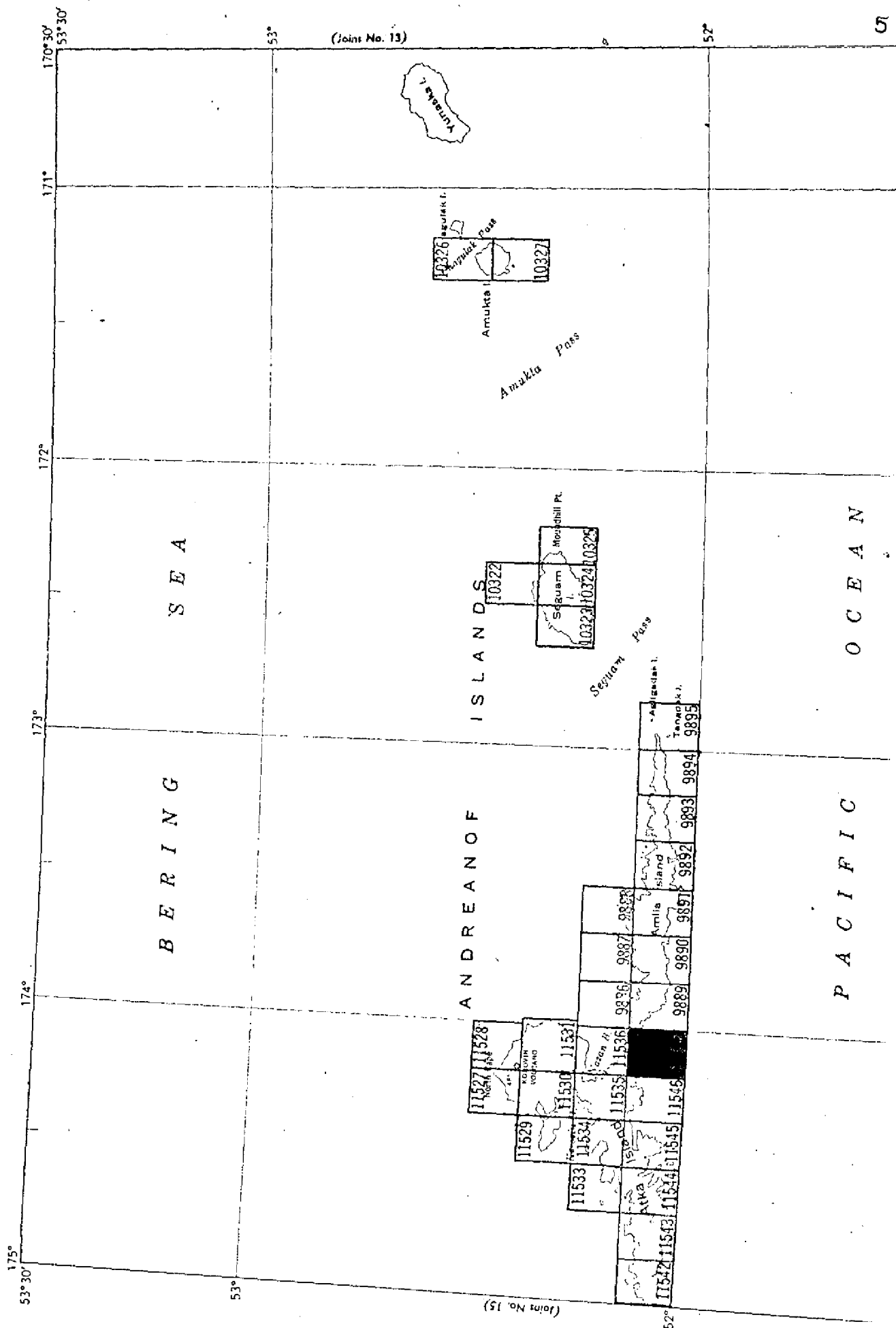
Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:

TOPOGRAPHIC MAPPING PROJECT PH-34

Aleutian Islands **ASKA** Part C



Summary to Accompany Descriptive Report T-11547

Topographic map T-11547 is one of a series of similar maps covering a part of PH-34, Part C. Andreanof Island group, Aleutian Islands, Alaska. T-11547 covers Cape Udalug, the southeast end of Atka Island, the south portion of Amlia Pass and the extreme southwest end of Amlia Island.

The field operations preceding compilation consisted of the recovery of horizontal control and the determination of elevations to control the nine-lens stereoplotter project vertically.

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 very limited field inspection of shoreline and related features.

Contours compiled with the nine-lens plotter were incomplete for the area of Atka Island and none were compiled for the area of Amlia Island. These areas left uncontroled after the dismantling of the last or second Reading nine-lens stereoplotter were completed on the Wild A-7 Autograph. The contour interval is 50 feet with a first 25-foot contour where contour spacing permitted and where better expression of near shore terrain configuration could be obtained.

The registered copy under T-11547 will consist of a cronaflex positive and Descriptive Report.

Photogrammetric Plot Report

PH-34 - Amlia I. Alaska

January 1959

21. Area Covered

The radial plot covers Amlia Island in its entirety. The manuscripts are T-9886 thru T-9895. The western tip of Amlia I. extends on to manuscripts T-11536 and T-11547. These manuscripts were included in the plot.

22. Method

The plot was laid on four vinylite base sheets with a ruled 2000-meter U.T.M. grid.

The photographs used were metal-mounted, nine-lens. As it was determined at the printing stage that there were no significant transformer errors or paper shrinkage errors a master calibration templet was not used in preparing templets.

The plot was begun at its western extremity. A satisfactory junction was ~~here~~ made with the Atka I. plot previously laid to the west (see attached sketch). It was then extended eastward to complete the island.

The attached sketch shows photographs and control used in the plot.

23. Adequacy of Control

Twenty-one triangulation stations were identified by the field party. Of these, nineteen were used in the plot. The two stations not used were RAIN 1958 and SAG (highest point of Sagigik I.) 1958. Reasons are as follows: RAIN 1958... the description and field photo identification was so indefinite for this station that it was considered doubtful and also of little value in controlling the plot. Other well-identified control held nearby. SAG 1958... this station could not be identified on the photographs used in the plot. The station can be identified on photographs 57811 and 57812. These photographs were not used in the plot as they were centered over water and would not have aided in extending the plot. The photographs can be resected on the manuscript for compilation purposes.

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23. Of the 19 field-identified triangulation stations, 18 held within 0.3 mm. (See plot sketch.) TUND 1958 did hold in the plot and is discussed herein: TUND 1958....1.8 mm NW of plotted position. The field photograph position was used in the plot, as the CSI card stated that the white pole with banner boards was pricked on the field photo. Reference measurements taken from the published description did not agree with the field photo position. The field identification is evidently in error. Station ROUND 1941 held nearby.

The control used in the plot was 1941, 1943 published positions and 1958 unadjusted field positions.

24. Supplemental data:

None

25. Photography

Due to excessive cloud conditions on the photographs, more than the usual amount of photography was used to assure adequate coverage for control and compilation. (See plot sketch).

Submitted by:

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

Approved by:

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

SCALE FACTOR

1 FT. = 3048008 METER
COMPUTED BY: C. A. Anderson
DATE: Jan 1957
* Computed by Wisiecki, ✓ Lucas 27 Nov. 57
CHECKED BY: F. Ramey
DATE: Jan. 1957
COMM. DC-57843

SCALE FACTOR

1 FT. = .3048006 METER

CHECKED BY: J. Battley

DATE NOV. 1957

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COMPILATION REPORT
T-11547

31. Delineation

The manuscript was compiled by graphic method using the projector when necessary to adjust work sheets to manuscript. The foreshore rocks, ledges, kelp and other navigational hazards were applied as shown on field inspection nine-lens photos. No field inspection was done on Amlia Island.

This manuscript was formerly compiled as a "Preliminary" manuscript. A new radial plot has been performed and new pass point positions west of Amlia Island (only .25 mm shift west approx.) were transferred to a new manuscript. New work sheets were made and applied to this new manuscript. With the addition of contours and corrections from a final review, the manuscript will be in final form.

32. Control

See radial plot report filed with T-11533.

33. Supplemental Data

Planetable survey number 6923c, scale 1:10,000, dated September 1943 was used as a reference to apply field inspection data for the east shore of Atka Island and Swift Point on Amlia Island.

34. Contour and Drainage

35. Shoreline and Alongshore Features

No field identification of the shoreline was done except to point out ledges, beach composition and foreshore rocks etc. The shoreline is extremely intricate and difficult to delineate. This is due to numerous bluffs and generally a rocky shoreline with high bluffs, shadows and overhanging or almost vertical cliffs.

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36. Offshore Details

The areas of foul and kelp were generalized by the field party and several exposed rocks were inspected.

37. LANDMARKS AND AIDS - None

38. Control for Future Surveys - None

39. Junctions

T-11536, T-11546 and T-9889. Junctions are in agreement.

40. Horizontal and Vertical Accuracy

a. Horizontal - No deficiencies were noted.

b. Vertical

46. Comparison with Existing Maps

T-6923, 1:10,000, 1943. Differences in rocks and alongshore features of lesser significance.

47. Comparison with Nautical Charts

8862, 1:300,000 corrected 10-15-51 and 9010, 1:20,000 corrected 9-3-51.

Submitted by

Henri Lucas
Henri Lucas
Graphic Compilation Unit

Approved

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

T-11547

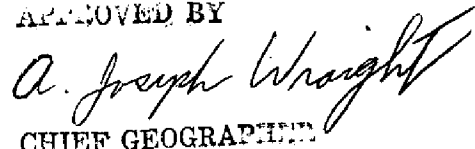
48. Geographic Name List

Amlia Island ←
Amlia Pass ←
Andreanof Islands (title) ←
Atka Island ←
Cape Utalug ←
Pinnacle Point ←
Swift Point ←

PREPARED BY


CARTOGRAPHIC TECHNICIAN

APPROVED BY


CHIEF GEOGRAPHER

Review Report
T-11547
Topographic Map

61. General Statement

Graphic compilation of shoreline was completed in 1958 to fulfill hydrographic survey needs. Once the need for shoreline topography for support of hydrographic surveys had been fulfilled, work on compilation of contours became intermittent. The dismantling of the last of the two Reading nine-lens stereoplotters in 1965 caused a delay until 1967, when compilation of contours, originally begun and nearly completed with the nine-lens plotter, was resumed with the Wild A-7 Autograph stereoplotter. This was made possible by the photographic reduction of the nine-lens photographs to accommodate the 9 x 9 inch format of the A-7 plotter.

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

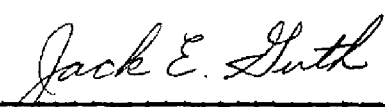
Shoreline and related features, including contours, are considered to be delineated adequately, although field work was limited almost entirely to photoidentification of horizontal and vertical control.

Reviewed by:


K. N. Maki

Approved by:


Charles Theurer, Chief
Photogrammetric Branch


Jack E. Guth, Chief
Coastal Mapping Division