Form 504
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Topographic

T-11527 thru

Field No. Office No. T-11531

LOCALITY

State Alaska (Aleutian Islands)

General locality Andreanof Islands

Locality Atka Island

1952

CHIEF OF PARTY
W. H. Bainbridge, Chief of Party
L. W. Swanson, Washington Office

LIBRARY & ARCHIVES

DATE

USCORS-DC 5087
DATA RECORD

T-11527 through T-11531

Project No. (II): PH-34

Field Office (II): Pioneer

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

Supp. Instructions 10 Nov. 1955

Supp. Instruction 1 Oct. 1956

Compilation Instructions 5 Nov. 1957

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:20,000

Scale Factor (III): 1.0

Data received in Washington Office (IV): 4-8-58

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date: Date registered (IV):

Publication Scale (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW

Mean sea level except as follows:
Elevations shown as (2) refer to mean high water
Elevations shown as (3) refer to sounding datum
i.e., mean-low-water or mean lower low water

Reference Station (III):

Lat.: Long.: Adjusted

Adj. Unadjusted

Plane Coordinates (IV): UTM State: Alaska Zone: I

Y = X =
Areas contoured by various personnel
(Show name within area)
(II) (III)
DATA RECORD

Field Inspection by (II): \textit{W. H. Bambridge} \hspace{1cm} \text{Date: May-June, 1953}

Planetable contouring by (II): \textit{None} \hspace{1cm} \text{Date:}

Completion Surveys by (II): \textit{None} \hspace{1cm} \text{Date:}

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

\textbf{Identified on photographs taken 1953 and 1954 using predicted tides.}

Projection and Grids ruled by (IV): \textit{J. Chaconas} \hspace{1cm} \text{Date: 1 Nov. 1956}

Projection and Grids checked by (IV): \textit{H. Wolfe} \hspace{1cm} \text{Date: 7 Nov. 1956}

Control plotted by (III): \textit{H. Lucas} \hspace{1cm} \text{Date: 4 Jan. 1957}

Control checked by (III): \textit{G. Amburn} \hspace{1cm} \text{Date: 5 Jan. 1957}

Radial Plot or Stereoscopic Control extension by (III): \textit{J. P. Battley, Jr.} \hspace{1cm} \text{Date: 30 Apr. 1957}

\textbf{Stereoscopic Instrument compilation (II): \textit{C. Misfeldt, W. Heinbaugh, Contours V. E. McNiel}} \hspace{1cm} \text{Date: 1960 - 1969}

T-11527 - G. Amburn \hspace{1cm} \text{7 May 1957}

T-11528 - G. Amburn \hspace{1cm} \text{14 May 1957}

T-11529 - J. Battley \hspace{1cm} \text{7 May 1957}

T-11530 - G. Amburn \hspace{1cm} \text{10 May 1957}

T-11531 - R. Sugden \hspace{1cm} \text{6 May 1957}

\textbf{Photogrammetric Office Review by (III): \textit{E. Ramey, shoreline, K. N. Maki, Contours}} \hspace{1cm} \text{Date:}

Elevations on Manuscript checked by (II) (III): \hspace{1cm} \text{Date:}
PHOTOGRAPHS (III)

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<th>Scale</th>
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Tide (III)

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

Diurnal

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Date: July 1971

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:
Summary to Accompany Descriptive Report
T-11527 through T-11531

Topographic maps T-11527 through T-11531 are a series of five maps covering a part of PK-34, Part C, Andreanof Island group, Aleutian Islands, Alaska. These five maps cover the area of Atka Island from latitude 52°15' to latitude 52°30', and include the island's northernmost extremity of North Cape. East-west coverage extends from longitude 173°59', Cape Shaw to longitude 174°30', Cape Korovin.

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. The few field inspection notes were restricted to general descriptions of foreshore and beach characteristics.

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 little or no field inspection of shoreline and related features.

Contours were compiled, for the most part, on the Reading nine-lens stereoplotter. Several areas on T-11531 that were left uncontoured 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 copies under T-11527 through T-11531 will consist of one cronaflex positive of each of the five maps and a single combined Descriptive Report.
Photogrammetric Plot Report
Project 24050 (Aleutian Island)
Atka Island

21. Area Covered.

This report discusses the photogrammetric plot for five surveys numbered T-11526 through T-11531 all at a scale of 1:20,000. These surveys cover the Northeastern part of Atka Island. The five manuscripts are incomplete pending field inspection of details.

22. Method.

The plot was laid on vinylite manuscripts ruled with polyconic projection and UTM 1000-meter grid. The grid lines were used to junction the manuscripts.

Metal-mounted nine-lens photographs taken in 1953 and 1954 were used in the plot. Master calibration templets. A paper print for each photograph in the plot was prepared with pass points and radial lines for field use.

The attached sketch shows photographs, control stations and tolerances in positions for the plot. The plot is considered accurate in position in its entirety and junctioned satisfactory with a previous plot to the South.

23. Adequacy of control.

Triangulation stations were identified in the field in 1953 on U. S. Navy single-lens photographs at an approximate scale of 1:25,000 taken in 1951. The distribution of control is shown on the appended sketch.

Eighteen field-identified control stations were used to control the plot. Of these, 16 held within 0.3 mm and two could not be held and are discussed below:

Spot 1943 sub. sta. (0.35 mm E of plotted position). This station fell 0.4 mm S.E. of plotted position in the previous plot. With the additional control and stronger fix the station held closer in this plot but was still considered doubtful in identification. Other better identified control held nearby.

Razor 1953 sub. sta. (0.6 mm N.W. of plotted position). The position of this station was determined by traverse computations. The field notes were not available but either an error in the field data or in the field photograph identification is suspected as numerous nearby well-defined stations held.


None
25. **Photography**

The photography was considered adequate as to coverage and overlap. A few of the photographs were tilted, but only one photograph, 42014, was tilted enough to necessitate computing a new center. There were not enough points of known elevation to determine the tilt. A good radial intersection was obtained in the plot for this center, and was drilled and rung up on the manuscript. Field-identification of vertical control should furnish enough positions to determine the tilt and the photograph could then be added to the plot.

Submitted by:

[Signature]

J.P. Battley Jr.
Cartographer

Approved by:

[Signature]

E. Ramey
Supervisory Cartographer
Project 24050
NE section of ATKA ISLAND
Photogrammetric Plot
Sketch

△ CONTROL HELD
△ CONTROL NOT HELD

KLINK sub pt. 1953
WHITE 1953
EXTRA 1953 sub pt.

ROVIN 1953
N. CAPE LT 1953
VOROK 1953

CANOL 1953

WASH 1953
SHAW 1941
SUM 1941

VIN 1943
SKI 1943

SPOT (USN) 1943
CLIFF 1941

KUDUGNAK 1934
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<th>LATITUDE OR $y$-COORDINATE</th>
<th>DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>N.A. 1927 - DATUM CORRECTION</th>
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1 FT. = 0.094606 METER
COMPUTED BY G. Amburn
DATE February 1957
CHECKED BY G. B. Willey
DATE February 1957
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Scale of Map 1:20,000
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1 FT = 0.3048006 METER

31. Delineation:

Shoreline and foreshore features were delineated from stereoscopic interpretation of nine-lens photographs at 1:20,000 scale without benefit of field inspection.

32. Control:

See the attached radial plot report.

33. Supplemental Data:

None

34. Contours and Drainage:

Sufficient field determined elevations combined with water level datum were available to control the vertical datum for compilation of contours. Areas not fully visible because of cloud cover are depicted by approximate dashed line contours, on T-11534.

35. Thru 38:

Not applicable

39. Junctions:

Manuscripts junction to the south with T-11534 thru T-11536 and between each other on all east-west junctions and all north-south junctions.

40. Horizontal and Vertical Accuracy:

a. Horizontal - No deficiencies were detected.

b. Vertical -
41. Thru 45:

Not applicable.

46. Comparison with Existing Maps:

No. 9010 scale 1:20,000 first edition 1935, corrected 9/3/51
No. 8962 scale 1:300000 first edition 1943, corrected 1/15/51

Items to be applied to charts immediately. None
Items to be carried forward. None

Submitted by:

Garnett S. Amburn

Approved:

Everett H. Ramey, Chief
Graphic Compilation Unit
48. Geographic Name List

T-11527
Atka Island ←
Bering Sea ←

T-11528
Atka Island ←
Bering Sea ←
North Cape ←
Korovin Volcano ←

T-11529
Atka Island ←
Bering Sea ←
Cape Korovin ←
Korovin Bay ←

T-11530
Atka Island ←
Bering Sea ←
Korovin Bay ←

T-11531
Atka Island ←
Bering Sea ←
Cape Shaw ←

Names approved
July 22, 1971

[Signature]
61. General Statement

The completion of the five topographic maps, T-11527 through T-11531, was accomplished in 1969. Shoreline compilation was completed in May 1957. 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 manuscripts were 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 manuscripts and the prior surveys were resolved at the time comparisons were made.

66. Adequacy of Results and Future Surveys

Shoreline and related features are considered to be delineated adequately, although field work was limited almost entirely to photo identification of horizontal and vertical control. Note Item 34, p.16 on cloud cover.
Reviewed by:

K. N. Maki

Approved by:

Charles Theurer, Chief
Photogrammetric Branch

Jack E. Guth, Chief
Coastal Mapping Division