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

Project No. (II): PH-34

Field Office (II): Ship EXPLORER

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

Instructions dated (II) (III):

Proj. Instructions 16 Dec. 1954
Supp. " 10 Nov. 1955
Compilation " 5 Nov. 1957

Method of Compilation (III):

Manuscript Scale (III): 1:20,000

Scale Factor (III):

Date received in Washington Office (IV):

Applied to Chart No. Date:

Publication Scale (IV):

Geographic Datum (III): N. A. 1927

Vertical Datum (III):

Mean sea level except as follows:
Elevations shown as (26) 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

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

Field Inspection by (II): R. E. Williams  Date: 1957 Field Season

Planetary 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

Stereoscopic Instrument compilation (III): Planimetry
Contours C. Misfeldt†  Date: 1960
V. McNeel  Jan. 1970

Manuscript delineated by (III): H. Lucas  Date: 29 Apr 1958

Photogrammetric Office Review by (III):  Date: 5 May 1958
E. Ramey

Elevations on Manuscript  Date: July 1960
checked by (II) (III): L. Levin  Oct 1971
K. N. Mak.
### PHOTOS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>46004</td>
<td>6 Sept. 1954</td>
<td>1339</td>
<td>1:20,000</td>
<td>1.7</td>
</tr>
<tr>
<td>50909</td>
<td>28 &quot; 1958</td>
<td>0947</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Tide (III)

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

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

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.89</td>
<td>3.3</td>
<td></td>
</tr>
</tbody>
</table>

Date: **Oct. 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): Recovered: Identified:
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-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 Utalug, 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 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 copy under T-11547 will consist of a cronoflex 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 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 Sagik 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.
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. Rumey
Chief, Graphic Compilation Unit
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>LATITUDE OR y-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>INT 1943</td>
<td>V 149</td>
<td>52 06 42.048</td>
<td>1299.6 554.9</td>
<td>1126.5 15.3</td>
</tr>
<tr>
<td>FOX 1943</td>
<td>V 156</td>
<td>52 07 21.79</td>
<td>673.5 1181.0</td>
<td>1012.9 128.7</td>
</tr>
<tr>
<td>PIN 1943</td>
<td>V 156</td>
<td>52 06 40.670</td>
<td>1257.0 597.5</td>
<td>1012.9 128.7</td>
</tr>
<tr>
<td>Pinnacle Butte</td>
<td>V 156</td>
<td>52 06 40.670</td>
<td>1257.0 597.5</td>
<td>1012.9 128.7</td>
</tr>
<tr>
<td>AMLIA PASS, SE corner highest part of pin 1934</td>
<td>V 144</td>
<td>52 06 40.57</td>
<td>1253.9 600.6</td>
<td>45.5 1096.3</td>
</tr>
<tr>
<td>RIP 1943</td>
<td>V 149</td>
<td>52 07 22.773</td>
<td>703.9 1150.6</td>
<td>45.5 1096.3</td>
</tr>
<tr>
<td>*Sub Pt INT 1943</td>
<td>V 149</td>
<td>52 06 40.57</td>
<td>1253.9 600.6</td>
<td>45.5 1096.3</td>
</tr>
<tr>
<td>Field comp. unadj.</td>
<td>V 149</td>
<td>52 06 40.57</td>
<td>1253.9 600.6</td>
<td>45.5 1096.3</td>
</tr>
</tbody>
</table>

1 FT. = 0.3048006 METER

* Computed by Wisiecki, Lucas 27 Nov. 57

O. Amburn DATE Jan. 1957

E. Ramey DATE Jan. 1957
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>LATITUDE OR Y-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>SCALE FACTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>FORWARD (BACK)</td>
<td>FORWARD (BACK)</td>
<td></td>
</tr>
<tr>
<td>SUSAN 1957</td>
<td>NA</td>
<td>52 06</td>
<td>967.4 887.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sub Pt</td>
<td>1927</td>
<td>174 05</td>
<td>1027.9 113.9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RIP 1943</td>
<td></td>
<td>52 07</td>
<td>727.8 1126.7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sub Pt</td>
<td></td>
<td>174 04</td>
<td>992.6 149.0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 FT = 0.3048006 METER

COMPUTED BY: F. Wisiecki  DATE: Nov. 1957  CHECKED BY: J. Battley  DATE: Nov. 1957
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 Amia Island.

This manuscript was formerly compiled as a "Preliminary" manuscript. A new radial plot has been performed and new pass point positions west of Amia 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

Planetary 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 Amia 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.
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

[Signature]

Henri Lucas
Graphic Compilation Unit

Approved

[Signature]

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

Amlia Island
Amlia Pass
Andreasof Islands (title)
Atka Island
Cape Udalug
Pinnacle Point
Swift Point

PREPARED BY

APPROVED BY

FRANK WILLIAMS
CARTOGRAPHIC TECHNICIAN

A. JESSE WHITFIELD
CHIEF GEOGRAPHER
61. General Statement

Graphic compilation of shoreline was completed in 1958 to
fulfill hydrographic survey needs. Once the need for shore-
line 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 com-
pilation or contours, originally began 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 con-
sidered to be delineated adequately, although field work
was limited almost entirely to photoidentification of hori-
Zental and vertical control.

Reviewed by:

K. N. Maki

Approved by:

Charles Theurer, Chief
Photogrammetric Branch

Jack E. Guth, Chief
Coastal Mapping Division