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

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Office No. T-9886-95

LOCALITY
State Alaska
General locality Aleutian Islands
Locality Amlia Island

1953-58

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

LIBRARY & ARCHIVES

DATE
DATA RECORD

T - 9886

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

                 Washington, D.C.  G.C. Mast (1958)
                 Officer-in-Charge: L.W. Swanson

Instructions dated (III) (III):
Project Instructions  16 Dec. 1954  Copy filed in Division of
Supplemental Instructions 10 Nov. 1955  Photogrammetry (IV)
Supplemental Instructions 1 Nov. 1956  Office files
Compilation Instructions 5 Nov. 1957

Method of Compilation (III): Graphic  Contours: A-7 Autograph stereoplotter
Manuscript Scale (III): 1:20,000  Stereoscopic Plotting instrument Scale (III): 1:20,000
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):

Geographic Datum (III): N.A. 1927  Publication date (IV):

Vertical Datum (III):
Mean sea level except as follows:
Elevations shown as (s) refer to mean high water
Elevations shown as (g) 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: Alaska Zone: 2

Y m
X m

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)
| T-3886 | J. P. Battley, Jr. | Jan. 1959 |
| 3887   | G. Amburn        | Feb. 1959 |
| 3888   | "                | Feb. "    |
| 3889   | J. P. Battley, Jr.| Jan. "    |
| 3890   | "                | Feb. "    |
| 3891   | "                | Feb. "    |
| 3892   | "                | April "   |
| 3893   | H. Lucas         | April "   |
| 3894   | J. P. Battley, Jr.| April "   |
| 3895   | "                | April "   |
DATA RECORD

Field Inspection by (II): E.H. Kirsh
                          G.C. Mast control only
Date: June-Aug., 1957
       June-Sept. 1958

Planetability contouring by (II): None
Date:

Completion Surveys by (II): None
Date:

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

Projection and Grids ruled by (IV):
P. Dempsey
Projection and Grids checked by (IV):
Shoup
Control plotted by (III):
G. S. Amburn
Date: 10-9-58
Date: 10-10-58
Date: 12-15-58

Control checked by (III):
F. Wisiecki
Date: 12-15-58

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

Planimetry

Stereoscopic Instrument compilation (III):
Contours
V. McNeel

Manuscript delineated by (III):
Graphic: J. P. Battley, Jr.
       (see opposite page)

Photogrammetric Office Review by (III):
R. Sugden T-9893-5
E. Ramey T-9886, 88-92
J. Battley T-9887

Elevations on Manuscript
checked by (II) (III):
K. N. Maki (contours)

Date: 1959

Form T-Page 3

R-2618-12(4)
### PHOTOS (III)

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### Tide (III)

Reference Station: Sweeper Cove  
Subordinate Station: Nazan Bay

**Diurnal**

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Date: Jan. 1972

**Remarks:**
Summary to Accompany Descriptive Report
T-9886 thru T-9895

Topographic maps T-9886 thru T-9895 are ten maps of a series of similar maps covering a part of PH-34, Part C, Andreanof Islands group, Aleutian Islands, Alaska. These ten maps cover all of Amlia Island except the extreme western end which falls on maps T-11536 and T-11547.

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.

Because both Reading nine-lens plotters were dismantled prior to the start of contouring on Amlia Island, contours were compiled on the Wild A-7 Autograph stereoplotter. The Wild A-7 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 no field inspection of shoreline and related features.

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-9886 thru T-9895 will consist of one cronaflex positive of each of the ten maps and a single combined 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 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.
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
Chief, Graphic Compilation Unit
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COMPUTED BY G. Amburn DATE 12-15-58

CHECKED BY F. Wisiecki DATE 12-15-58
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Computed by: G. Amburn Date: 12-15-58

Checked by: F. Wisiecki Date: 12-15-58
31. Delineation

Graphic methods were used to compile the shoreline, fore-
shore and offshore features. No field inspection was
accomplished on Amlia Island. Compilation relied entirely
on office interpretation of the photography.

32. Control

Refer to the Photogrammetric Plot Report, a part of this
Descriptive Report.

33. Supplemental Data

None

34.Contours and Drainage

Water elevation, corrected from tide data, was used for verti-
cal control. Contours were compiled on the Wild A-7 Autograph
stereoplotter. The contour interval is 50 feet with a first
25-foot contour.

35. Shoreline and Alongshore Details

No special problems were encountered in delineating shoreline
and alongshore details. This phase was done graphically from
the photography without benefit of field inspection. The
shoreline is very intricate and is delineated with a broken
line where obscured by shadow overhang or surf.

36. Offshore Details

Offshore details were compiled from office interpretation
of the photography.

37 and 38.

Not applicable

39. Junctions

All junctions between the subject maps have been made.
40. **Horizontal and Vertical Accuracy**

No deficiencies were noted.

46. **Comparison with Existing Maps**

None

47. **Comparison with Nautical Charts**

8862       1:30,000       corrected to 10-15-51.

Items to be Applied to Nautical Charts immediately: None

Items to be Carried Forward: None

Submitted by:

[Signature]

J. P. Battley, Jr.
48. Geographic Name List

T-9886, T-9887, T-9888

- Andreaof Islands (title)
  - Amelia Island
  - Bering Sea
  - Hungry Bay

T-9889, T-9890, T-9891, T-9892, T-9893

- Andreaof Islands (title)
  - Amelia Island
  - Bering Sea
  - Pacific Ocean
  - Cape Misty

T-9894

- Andreaof Islands (title)
  - Amelia Island
  - Bering Sea
  - Pacific Ocean
  - Sagigik Island

T-9895

- Andreaof Islands (title)
  - Amelia Island
  - Agligadak Island
  - Agligadak Reefs
  - Bering Sea
  - Pacific Ocean
  - Seguam Pass
  - Tanadak Island

Jan. 23, 1972

PREPARED BY
Frank W. Pickett
CARTOGRAPHIC TECHNICIAN

APPROVED BY
A. Joseph Wright
CHIEF GEOGRAPHER
61. General Statement

Graphic compilation of shoreline was completed in 1959 to fulfill hydrographic survey needs. As a result of the dismantling of the last of the two Reading nine-lens plotters in 1965, prior to the beginning of contouring, the entire contouring phase for Amelia Island was done with the Wild A-7 Autograph stereoplotter. This was accomplished by the use of photographic reductions 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, including contours, are considered to be delineated adequately, although field work was limited to photoidentification of horizontal control.

Reviewed by:

K. N. Maki

K. N. Maki

Approved by:

Charles Theurer, Chief
Photogrammetric Branch

Jack E. Guth, Chief
Coastal Mapping Division