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

DESCRIPTIVE REPORT

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Topographic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td>Office No.</td>
</tr>
<tr>
<td></td>
<td>T-9886-95</td>
</tr>
</tbody>
</table>

LOCALITY

<table>
<thead>
<tr>
<th>State</th>
<th>Alaska</th>
</tr>
</thead>
<tbody>
<tr>
<td>General locality</td>
<td>Aleutian Islands</td>
</tr>
<tr>
<td>Locality</td>
<td>Amlia Island</td>
</tr>
</tbody>
</table>

19-C3-58

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

LIBRARY & ARCHIVES

DATE

USCOMM-DC 5087
DATA RECORD

T-9886

Project No. (III): PH-34

Field Office (III): Ship EXPLORER

Chief of Party: E.H. Kirsh (1957)

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

G.C. Mast (1958)

Instructions dated (III) (III):

Copy filed in Division of

Project Instructions 16 Dec. 1954

Photogrammetry (IV)

Supplemental Instructions 10 Nov. 1955

Office files

Supplemental Instructions 1 Nov. 1956

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):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Mean sea level except as follows:

Elevations shown as (2) 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): UTM State: Alaska Zone: 2

Yw

Xw

Roman numerals indicate whether the item is to be entered by (III) 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)
<table>
<thead>
<tr>
<th>File</th>
<th>Name</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-9886</td>
<td>J.P. Battley, Jr.</td>
<td>Jan. 1959</td>
</tr>
<tr>
<td>9887</td>
<td>G. Amburn</td>
<td>Feb. 1959</td>
</tr>
<tr>
<td>9888</td>
<td>&quot;</td>
<td>Feb.</td>
</tr>
<tr>
<td>9890</td>
<td>&quot;</td>
<td>Feb.</td>
</tr>
<tr>
<td>9891</td>
<td>&quot;</td>
<td>Feb.</td>
</tr>
<tr>
<td>9892</td>
<td>&quot;</td>
<td>April</td>
</tr>
<tr>
<td>9893</td>
<td>H. Lucas</td>
<td>April</td>
</tr>
<tr>
<td>9894</td>
<td>J.P. Battley, Jr.</td>
<td>April</td>
</tr>
<tr>
<td>9895</td>
<td>&quot;</td>
<td>April</td>
</tr>
</tbody>
</table>
DATA RECORD

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

Planetale 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

Control checked by (III):
F. Wisiecki
Date:  10-9-58
Date:  10-10-58
Date:  12-15-58

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

Stereoscopic instrument compilation (III):
Contours
V. McNeel
Date:  Jan.-Mar. 1970

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  M-2618-12(4)
<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>57913-57924</td>
<td>7-1-58</td>
<td>1344-1350</td>
<td>1:20,000</td>
<td>0.4' below MLLW</td>
</tr>
<tr>
<td>57834-57859</td>
<td>7-1-58</td>
<td>1139-1151</td>
<td>1:20,000</td>
<td>1.2' below MLLW</td>
</tr>
<tr>
<td>51811-57821</td>
<td>7-1-58</td>
<td>1117-1122</td>
<td>1:20,000</td>
<td>1.2' below MLLW</td>
</tr>
<tr>
<td>57925-57941</td>
<td>7-1-58</td>
<td>1356-1404</td>
<td>1:20,000</td>
<td>0.4' below MLLW</td>
</tr>
<tr>
<td>58900-58906</td>
<td>9-18-58</td>
<td>1002-1005</td>
<td>1:20,000</td>
<td>2.7' above MLLW</td>
</tr>
<tr>
<td>58888</td>
<td>9-18-58</td>
<td>0950</td>
<td>1:20,000</td>
<td>2.7' above MLLW</td>
</tr>
<tr>
<td>58909</td>
<td>9-18-58</td>
<td>1008</td>
<td>1:20,000</td>
<td>2.7' above MLLW</td>
</tr>
<tr>
<td>42240-42250</td>
<td>10-8-53</td>
<td>1222-1235</td>
<td>1:20,000</td>
<td>2.5' above MLLW</td>
</tr>
</tbody>
</table>

**Tide (III)**

Reference Station: Sweeper Cove  
Subordinate Station: Nazan Bay

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

Diurnal

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>37</td>
<td></td>
</tr>
</tbody>
</table>

Date: Jan. 1972

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:
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 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.
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:

[Signature]
Jeter F. Battley, Jr.

Approved by:

[Signature]
Everett H. Ramey
Chief, Graphic Compilation Unit
Photo grammetric Plot Sketch
Amlia Island, Alaska
Ph-34
△... control held
△... control not held
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION</th>
<th>LATITUDE OR Y COORDINATE</th>
<th>LONGITUDE OR X COORDINATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUIT, 1958</td>
<td>T-9893</td>
<td>5769.916.5</td>
<td>1916.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>345 151.5</td>
<td>1151.5</td>
</tr>
<tr>
<td>NIKOF, 1958</td>
<td>T-9892</td>
<td>5767.540.2</td>
<td>1540.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>335 879.6</td>
<td>1879.6</td>
</tr>
<tr>
<td>HAYSTACK ROCK, 1943</td>
<td>T-9889</td>
<td>5771.243.7</td>
<td>1243.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>298 790.9</td>
<td>790.9</td>
</tr>
<tr>
<td>SHARP, 1958</td>
<td>T-9890</td>
<td>5770.078.3</td>
<td>78.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>317 371.8</td>
<td>1371.8</td>
</tr>
<tr>
<td>PUNT, 1958</td>
<td>T-9889</td>
<td>5769.543.9</td>
<td>1543.9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>305 477.9</td>
<td>1477.9</td>
</tr>
<tr>
<td>NEAT, 1958</td>
<td>T-9889</td>
<td>5771.727.3</td>
<td>1727.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>299 357.1</td>
<td>1357.1</td>
</tr>
<tr>
<td>PEAK 1300, 1958</td>
<td>T-9889</td>
<td>5773.357.5</td>
<td>1357.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>300 530.2</td>
<td>530.2</td>
</tr>
<tr>
<td>PUNT sub.</td>
<td>T-9889</td>
<td>5769.557.6</td>
<td>1557.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>305 5729</td>
<td>1572.9</td>
</tr>
<tr>
<td>SHARP sub.</td>
<td>T-9890</td>
<td>5770.069.9</td>
<td>69.9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>317 379.6</td>
<td>1379.6</td>
</tr>
<tr>
<td>NEAT sub.</td>
<td>T-9889</td>
<td>5771.797.6</td>
<td>1797.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>299 500.3</td>
<td>1500.3</td>
</tr>
<tr>
<td>AMLIA E. BASE, 1941</td>
<td>T-9895</td>
<td>5773.099.1</td>
<td>1099.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>365 904.6</td>
<td>1004.6</td>
</tr>
<tr>
<td>MIL, 1941</td>
<td>T-9895</td>
<td>5773.258.9</td>
<td>1258.9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>365 918.1</td>
<td>1918.1</td>
</tr>
</tbody>
</table>

COMPUTED BY G. Amburn  DATE 12-15-58
CHECKED BY F. Wisiecki DATE 12-15-58
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION</th>
<th>DATUM</th>
<th>LATITUDE OR Y COORDINATE</th>
<th>SCALE FACTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLUE, 1958</td>
<td>T-9892</td>
<td>5767</td>
<td>076.9</td>
<td>1.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>328</td>
<td>959.5</td>
<td>1040.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5772</td>
<td>631.9</td>
<td>1368.1</td>
</tr>
<tr>
<td>TIP, 1941</td>
<td>T-9895</td>
<td>365</td>
<td>330.2</td>
<td>669.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5770</td>
<td>594.4</td>
<td>1405.6</td>
</tr>
<tr>
<td>TAN, 1941</td>
<td>T-9895</td>
<td>365</td>
<td>954.2</td>
<td>45.8</td>
</tr>
<tr>
<td>TUND, 1948</td>
<td>T-9886</td>
<td>5780</td>
<td>119.8</td>
<td>1880.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>032</td>
<td>054.8</td>
<td>1945.2</td>
</tr>
<tr>
<td>BRAT, 1958</td>
<td>T-9894</td>
<td>5775</td>
<td>191.9</td>
<td>808.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>844</td>
<td>844.3</td>
<td>1155.7</td>
</tr>
<tr>
<td>AMLIA WEST BASE, 1941</td>
<td>T-9895</td>
<td>5772</td>
<td>578.9</td>
<td>1421.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>364</td>
<td>506.5</td>
<td>1493.5</td>
</tr>
<tr>
<td>SMOG, 1957</td>
<td>T-9887</td>
<td>5779</td>
<td>542.1</td>
<td>1457.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>516</td>
<td>555.7</td>
<td>1444.3</td>
</tr>
<tr>
<td>IDA, 1941</td>
<td>T-9886</td>
<td>5780</td>
<td>586.0</td>
<td>1414.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>127</td>
<td>124.6</td>
<td>875.4</td>
</tr>
<tr>
<td>ROUND, 1941</td>
<td>T-9886</td>
<td>5781</td>
<td>125.7</td>
<td>874.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>303</td>
<td>094.0</td>
<td>906.0</td>
</tr>
<tr>
<td>RAIN, 1958</td>
<td>T-9887</td>
<td>5779</td>
<td>428.8</td>
<td>571.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>310</td>
<td>640.8</td>
<td>1359.2</td>
</tr>
<tr>
<td>SAG, 1958</td>
<td>T-9894</td>
<td>5764</td>
<td>111.8</td>
<td>1888.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>352</td>
<td>151.7</td>
<td>1848.3</td>
</tr>
<tr>
<td>DONNA, 1958</td>
<td>T-9893</td>
<td>5769</td>
<td>780.0</td>
<td>220.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>779</td>
<td>779.0</td>
<td>1221.0</td>
</tr>
</tbody>
</table>
31. **Delineation**

Graphic methods were used to compile the shoreline, foreshore 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 vertical 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

- Andreanof Islands (title)
- Amlia Island
- Bering Sea
- Hungry Bay

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

- Andreanof Islands (title)
- Amlia Island
- Bering Sea
- Pacific Ocean
- Cape Misty

T-9894

- Andreanof Islands (title)
- Amlia Island
- Bering Sea
- Pacific Ocean
- Sagigik Island

T-9895

- Andreanof Islands (title)
- Amlia Island
- Aligadak Island
- Aligadak Reefs
- Bering Sea
- Pacific Ocean
- Seguam Pass
- Tanadak Island

Jan. 27, 1972

PREPARED BY
Frank M. Trickett
CARTOGRAPHIC TECHNICIAN

APPROVED BY
A. Joseph Wight
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

Approved by:

Charles Theurer, Chief
Photogrammetric Branch

Jack E. Guth, Chief
Coastal Mapping Division