Form 604
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>T-10322, 10323</td>
</tr>
<tr>
<td>Office No.</td>
<td>10324 &amp; 10325</td>
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</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>Seguam Island</td>
</tr>
</tbody>
</table>

1958-59

CHIEF OF PARTY
E. B. Brown, Chief of Party
L. W. Swanson, Washington Office

LIBRARY & ARCHIVES

DATE

USCOM-DC 5087
DATA RECORD

T - 10322-10325

Project No. (II): PH-34 Quadrangle Name (IV): T-10322, 10323, 10324 & 10325


Instructions dated (II) (III):
- Project Instructions 16 Dec. 1954
- Supplemental Instructions 10 Nov. 1955
- Supplemental Instructions 1 Nov. 1956
- Compilation Instructions 5 Nov. 1957

Copy filed in Division of Photogrammetry (IV)
Office Files

Method of Compilation (III): Graphic
Contours: A-7 Autograph Stereoplotter

Manuscript Scale (III): 1:20,000
Stereoscopic Plotting Instrument Scale (III):

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): 1927 North American

Vertical Datum (III):
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):

UTM

Lat.:
Long.:

Adjusted
Unadjusted

Plane Coordinates (IV): UTM State: Alaska Zone: 2

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):  E. B. Brown  
Date:  31 July 1959

Planetable 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. J. Dempsey  
Date:  10 Sept. 1959

Projection and Grids checked by (IV):  Shoup  
Date:  10 Sept. 1959

Control plotted by (III):  F. Wisiecki  
Date:  26 Jan. 1960

Control checked by (III):  R. Sugden  
Date:  28 Jan 1960

Radial Plot or Stereoscopic  

Planimetry  

Stereoscopic Instrument compilation (III):  R. Sugden  
Date:  Feb. 1960

Contours  V. McNeil  
Date:  March 1970

Manuscript delineated by (III):  G. Amburn  T-10323 & T-10324  
H. Lucas  T-10322 & T-10325  
Date:  March 1960  
May 1960

Photogrammetric Office Review by (III):  
J. P. Battley, Jr.  
Date:  May 1960

Elevations on Manuscript  
checked by (II) (III):  K. N. Maki (contours)  
Date:  Jan. 1972
Number \hspace{1cm} \text{Date} \hspace{1cm} \text{PHOTOGRAPHS (III)} \hspace{1cm} \text{Time} \hspace{1cm} \text{Scale} \hspace{1cm} \text{Stage of Tide}

\begin{align*}
57890 & \text{to} & 98 & \text{July 1958} & 1312:1316 & 1:20,000 & 0.9 \text{ below MLLW} \\
57900 & \text{to} & 12 & \text{"} & 1327:1333 & " & 0.9 " " \\
57786 & \text{to} & 57796 & \text{"} & 1041:1046 & " & 1.1 " " \\
\end{align*}

Tide (III)

\begin{tabular}{|c|c|}
\hline
Reference Station: & Sweeper Cove \\
Subordinate Station: & Finch Cove - Seguam Island \\
\hline
\end{tabular}

Diurnal

\begin{tabular}{|c|c|}
\hline
\text{Ratio of} & \text{Mean} \\
\text{Ranges} & \text{Spring} \\
\hline
.67 & 3.2 \\
\hline
\end{tabular}

Date: February 1972

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

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

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):

\begin{align*}
\text{Recovered:} & \hspace{1cm} \text{Identified:} \\
\end{align*}

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-10322 thru T-10325

Topographic maps T-10322 thru T-10325 are four maps of a series of similar maps covering a part of PH-34, Part C, Andreanof Islands group, Aleutian Islands, Alaska. These four maps cover all of Seguam Island.

The field operations preceding compilation were limited to the recovery of horizontal control.

Because both Reading nine-lens plotters were dismantled prior to the start of contouring on Seguam 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-10322 thru T-10325 will consist of one cronaflex positive of each of the four maps and a single combined Descriptive Report.
PHOTOGRAMMETRIC PLOT REPORT
Job PH-34
Seguam Island, Alaska
February 1960

21. **Area Covered**

This report discusses the radial plot covering Seguam Island in its entirety. The manuscripts are T-10322 thru T-10325.

22. **Method**

The plot was laid on vinylite manuscripts ruled at 1:20,000 scale with projections and 2000 meter UTM grid. The manuscripts were joined together holding to the grid lines.

The nine-lens metal-mounted photographs of the area were prepared and templets were made using a master templet for correction of paper distortion and transforming errors. (See photogrammetric plot sketch for the layout of manuscripts, photographs and distribution of control.

The field identified control was supplemented by office identified control for better control coverage to strengthen the plot. Because of the concentration and the coverage of nine-lens photographs, the solution to the central section of the plot was first obtained. With the addition of the office identified control, extension of the plot to the outer edges was achieved resulting in a satisfactory solution of the graphic radial line plot.

23. **Adequacy of Control**

Six office identified control stations were added in the plot to supplement the field identified control. The field identification of some of the stations could not be substantiated by office stereo examination of the photographs. In these instances, the field photograph position was used although the object, as described, could not be identified.

Seven of the eight field identified stations were held in the plot and three of six office identified stations were held.

Field station TURF 1941 is described as a white tripod over station. At 1:20,000, the tripod is not visible. The station
was missed 3.0 mm east of the plotted position and is apparently misidentified. Office identified station PIKE 1941, which is a sharp tip of a rock island and well defined, held in the plot nearby. Both office identified stations RUE 1941 and CRATER 1941, which were missed by 0.7 mm east and 1.0 mm east, respectively, could have been identified on detail which would have placed them in correct geographic position. Station BOS 1941, which fell 1.0 mm northwest of the plotted position, was also misidentified in the office. Detail fitting the published description would have held in the plot. LAVA 1941 held nearby and was better defined.

24. **Supplemental Data**

Inapplicable

25. **Photography**

Photography was adequate in all respects for the plot except for clouds in the vicinity of station AIR 1941. In order to use this station to advantage in the plot, photographs 46093 and 46094 were added.

26 thru 30.

Inapplicable

Respectfully submitted:

R. L. Sugden

Approved by:

J. P. Battley, Jr.

J. P. Battley, Jr.
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>LATITUDE OR Y COORDINATE</th>
<th>LONGITUDE OR X COORDINATE</th>
<th>SCALE FACTOR</th>
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Computed by: Wisiecki  Date: 1/26/60
Checked by: Sugden  Date: 1/26/60
<table>
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<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
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<th>LATITUDE OR X COORDINATE</th>
<th>DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 FT = 30.48006 Meters)</th>
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</table>

COMPUTED BY: Wisiecki  DATE: 1/26/60  CHECKED BY: Sugden  DATE: 1/22/60
31. **Delineation**

Manuscripts at 1:20,000 scale were compiled by graphic methods from 9-lens metal-mounted office photographs. The reflecting projector was used to adjust the photointerpreted detail to the manuscript scale.

32. **Control**

See Photogrammetric Plot Report

33. **Supplemental Data**

Hydrographic surveys H-6696 and H-6697, scale 1:20,000, August-September 1941.

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**

The mean high water line was interpreted from 9-lens photography. Offshore rocks, ledges, etc., were compared with hydrographic surveys H-6696 and H-6697.

36. **Offshore Details**

Rocks that bare, rocks awash, islands, etc., were included with data or material mentioned in item 35. Hydrographic sheets were used to check offshore rocks and islands.

37. **Landmarks and Aids**

Inapplicable

38. **Control for Future Surveys**

No comment
39. **Junctions**

Junctions have been made with adjoining manuscripts.

40. **Horizontal and Vertical Accuracy**

See Photogrammetric Plot Report

41. thru 45.

Inapplicable

46. **Comparison with Existing Maps**

USC&GS hydrographic surveys H-6696 and H-6697, dated August-September 1941.

47. **Comparison with Nautical Charts**

USC&GS charts No. 8862 and No. 9102, dated October 1951. No difference evident.

Items to be applied to nautical charts immediately: None

Items to be carried forward: None

Submitted by:

Henri Lucas

G. Amburn

Approved by:

J. P. Battley Jr.

J. P. Battley
48. Geographic Name List

T-10322
- Andreanof Islands (title)
- Bering Sea
- Finch Cove
- Finch Point
- Seguam Island

T-10323
- Andreanof Islands (title)
- Bering Sea
- Pacific Ocean
- Seguam Island
- Seguam Pass
- Turf Point
- Pure Peak
- Saddleridge Point

T-10324
- Andreanof Islands (title)
- Bering Sea
- Finch Cove
- Lava Cove
- Lava Point
- Pacific Ocean
- Seguam Island

T-10325
- Andreanof Islands (title)
- Amukta Pass
- Bering Sea
- Moundhill Point
- Pacific Ocean
- Seguam Island
- Wharf Point

APPROVED BY

[Signature]
CHIEF GEOGRAPHER

PREPARED BY

[Signature]
CARTOGRAPHIC TECHNICIAN
61. **General Statement**

Graphic compilation of shoreline was completed in 1960 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 Seguam Island was compiled 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 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 to photoidentification of horizontal control.

Reviewed by:

K. N. Maki

Approved by:

Charles Theurer, Chief
Photogrammetric Branch

Jack E. Guth, Chief
Coastal Mapping Division