DESCRIPTIVE REPORT

Type of Survey: Topographic
Field No.: Office No.: T-11545

LOCALITY
State: Alaska (Aleutian Islands)
General locality: Andreanof Islands
Locality: Atka Island

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

DATE

LIBRARY & ARCHIVES
DATA RECORD

T-11545

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

Field Office (II): Ship "EXPLORER"
Chief of Party: E. H. Kirsch

Photogrammetric Office (III): Wash. D.C.
Officer-in-Charge: L. W. Swanson

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

Copy filed in Division of Photogrammetry (IV)
Office Files

Method of Compilation (III):
Graphic (shoreline) Reading Nine-lens Plotter (contours)

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 (2S) refer to mean high water
Elevations shown as (2E) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III):
Lat.:
Long.: Adjusted
Unadjusted

Plane Coordinates (IV): Universal Transverse
Mercator
State: Alaska Zone: 1

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
T-11545

Field Inspection by (II): R. E. Williams
Date: July-Aug-Sept 1957

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 stereoscopic examination 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 of Stereoscopic Contours by (II):
Date: 1-6-58
J. Battley

Stereoscopic Instrument compilation (III):
Date: Sept. 1960
C. Misfeldt
Contours

Manuscript delineated by (III): G. Amburn (shoreline)
Date: 4-28-58
C. Misfeldt (contours)
Date: Sept. 1960

Photogrammetric Office Review by (III): E. Ramey
Date: 5-5-58

Elevations on Manuscript L. Levin
checked by (II) (III):
Date: July 1960

Form T-Page 3
M-2618-12,4
T-11546

Camera (kind or source) (III): C&GS 9-lens

Number | Date | Time | Scale | Stage of Tide
---|---|---|---|---
45979 | 6 Sept 54 | 1300 | 1: 20,000 | 1.7 (predicted)
45980 | " | 1301 | " | 3.3 (observed)
46007 | " | 1342 | " | 3.4 (observed)
46008 | " | 1344 | " |
46009 (T-11544) | " | 1345 | " |

Tide (III)

Reference Station: Sweeper Cove, Adak l.
Subordinate Station: Nazan Bay
Subordinate Station: Sagchudak Island, Atka Island

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):
Number of BMs searched for (II):
Number of Recoverable Photo Stations established (III):
Number of Temporary Photo Hydro Stations established (III):

Remarks:

Ratio of Ranges | Mean Range | Spring Range | HW | LLW
---|---|---|---|---
3.7 | 0.89 | 1.24 | 4.6 | 1:25-2:25

Date: Oct. 1971

Date:

Date:

Date:

Form T-Page 4
Summary to Accompany Descriptive Report T-11545

Topographic map T-11545 is one of a series of similar maps covering a part of PH-34, Part C, Andreanof Island group, Aleutian Islands, Alaska. T-11545 covers the area of Atka Island from Kobakof Bay on the west to Vasilief Bay on the east. Off-lying islands to the south of Atka Island include Sagchudak Island, Sadatanak Island, Amtagis Islands and Vasilief Islands.

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 were compiled on the Reading nine-lens stereoplotter. The contour interval is 50 feet with a first 25-foot contour where contour spacing permitted and where better expression of nearshore configuration could be obtained.

The registered copy under T- will consist of a cronaflex positive and Descriptive Report.
PHOTOGRAMMETRIC PLOT REPORT

This report covers the plot for surveys T-11533 through T-11536 and T-11544 through T-11547. It is filed as part of the Descriptive Report for T-11533.
<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>DATUM CORRECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROCKY 1957</td>
<td>Field Comp. Unadj.</td>
<td>52 06 41.305</td>
<td>1276.7 577.8</td>
<td>510.8 631.0</td>
</tr>
<tr>
<td>ROCKY 1957</td>
<td>&quot;</td>
<td>52 06</td>
<td>1271.7 582.8</td>
<td>517.9 623.9</td>
</tr>
<tr>
<td>Sub Pt 1957</td>
<td>&quot;</td>
<td>52 06</td>
<td>1271.7 582.8</td>
<td>517.9 623.9</td>
</tr>
<tr>
<td>CLIMB 1957</td>
<td>Field Comp. Unadj.</td>
<td>52 03 56.266</td>
<td>1793.4 115.1</td>
<td>341.5 801.5</td>
</tr>
<tr>
<td>CLIMB 1957</td>
<td>&quot;</td>
<td>52 03</td>
<td>1735.4 119.1</td>
<td>336.3 806.7</td>
</tr>
<tr>
<td>Sub Pt</td>
<td>&quot;</td>
<td>52 01 04.371</td>
<td>135.1 1719.4</td>
<td>154.9 989.3</td>
</tr>
<tr>
<td>MARCY 1957</td>
<td>Field Comp. Unadj.</td>
<td>52 05 18.122</td>
<td>560.1 1294.4</td>
<td>124.7 1017.7</td>
</tr>
</tbody>
</table>

1 FT = 0.3048006 METER
COMPUTED BY: F. Wisiecki
DATE: Nov. 1957
COMPUTED by Wisiecki, Lucas 11/27/57
CHECKED BY: H. Lucas
DATE: Nov. 1957
COMPILATION REPORT

31. Delineation:

Shoreline and foreshore features were delineated from stereoscopic interpretation with the aid of 9-lens field-inspected photographs at 1:20,000 scale numbered 45979, 45980 and 46007.

32. Control:

See radial plot report attached to descriptive report T-11533.

33. Supplemental Data:

None

34. Contours and Drainage:

Water elevation, corrected from tide data, was used for vertical control.

35. Shoreline and Alongshore Features:

Little, if any, field identification of shoreline was done but generally the shoreline was readily identified on the photographs. The shoreline is extremely intricate in some areas and thus difficult to delineate in its true shape and position.

36. Offshore Details:

Offshore details were compiled as field-inspected.

37. and 38. Inapplicable.

39. Junctions:

40. Horizontal and Vertical Accuracy:
   A. Horizontal - No deficiencies in horizontal accuracy are indicated.
   B. Vertical - No deficiencies

46. Comparison with Existing Maps: None
47. Comparison with Nautical Charts:
   8362  1944  corrected to 51-10-15
   Items to be applied to nautical charts immediately: none
   Items to be carried forward: none

Approved:
Everett H. Ramey, Chief
Graphic Compilation Unit

Submitted by
Garnett S. Amburn

Typographic section of report submitted by:
Clarence Misfeldt
Cartographer
ADDENDUM TO COMPILATION REPORT
T-11540, T-11541, T-11544, T-11545 and T-11546
9 October 1958

Segments of the shoreline were re-delineated on these manuscripts to incorporate a slight shift in datum which resulted from changes in positions of basic control. All changes are shown in red on the manuscripts and represent shifts in position up to approximately 0.6 mm. For a detailed discussion of the changes in position, see the appropriate photogrammetric plot reports filed as part of the Descriptive Reports for the above surveys.

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

Amtagis Islands
Andreeof Islands (title)
Atka Island
Kobakof Bay
Pacific Ocean
Sadatarnak Island
Sagchudak Island
Vasilief Bay
Vasilief Islands
Review Report
T-11545
Topographic Map

61. General Statement

Graphic compilation of shoreline was completed in 1958 to fulfill hydrographic survey needs. This shoreline compilation was followed by a separate contouring operation done on the Reading nine-lens plotter and completed in 1960. The contour interval was 50 feet with a first 25-foot contour.

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 considered to be delineated adequately, although field work was limited mainly to photoidentification of horizontal and vertical control.

Reviewed by:

K. N. Maki

Approved by:

Charles Theurer, Chief
Photogrammetric Branch

Jack E. Guth, Chief
Coastal Mapping Division