DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. "M"

REGISTER NO. T6434

State................................................. ALASKA

General locality. UNALASKA ISLAND, ALEUTIAN ISLANDS

Locality................................................. BAY

Scale.1:20,000 Date of survey. September, 1935

Vessel................................................. U. S. S. DISCOVERER

Chief of party...................................... H. B. Campbell

Surveyed by........................................... Ross A. Gilmore

Inked by.............................................. Ross A. Gilmore

Heights in feet above M. H. W. to ground Form line interval 100 feet

Instructions dated April 13, 1934

Remarks: Project H T No. 177

...
DESCRIPTIVE REPORT
TO ACCOMPANY
TOPOGRAPHIC SHEET "M".
U. S. C. & G. S. S. DISCOVERER H. B. CAMPBELL, Commanding
Season of 1935 Project H.T. No. 177
AUTHORITY

This survey was made in accordance with the Director's instructions dated April 13, 1934, for Project H. T. No. 177.

PURPOSE

The purpose of this survey was to produce a detailed delineation of the shoreline together with the determination of the elevation of sufficient peaks and critical points so as to draw reasonably accurate form lines, and also to furnish sufficient control for a complete hydrographic survey.

LIMITS

This sheet takes in all the topographic features on the southeastern side of Beaver Inlet, from Amug, 1934 to Fake, 1934, including Amugul Bay and Round Island.

CONTROL

The topography was controlled by recovered second and third order triangulation of the 1901 and 1934 field seasons. Sufficient stations were recovered to give ample control.

SURVEY METHODS

Standard survey methods as prescribed by the Topographic Manual for plane table surveys were used. In general, the topographic signals were located by cuts and resections from recovered triangulation stations and well located topographic signals and verified by rod readings when the shoreline and details were rodded in. No traversing was necessary.

GENERAL DESCRIPTION

The general description covering Sheet "K", Beaver Inlet, applies to this sheet. The south and eastern sides of Amugul Bay are particularly steep and rugged, with numerous jagged peaks, especially on the southern end.
JUNCTIONS WITH PREVIOUS WORK

A satisfactory junction was made with the previous seasons' work at Amug. A slight difference was noted at "Bow". This may have been due to faulty transfer or the previous seasons' whitewash might not have been recovered. The present location should be considered final. The locations of topographic signals "Cod" to "Let" on this sheet should be considered final. Some of these signals had been located on Sheet "C", season 1934, from across the inlet and should be disregarded, inasmuch as the cuts taken to them were slim and some of the signals were not exactly recovered.

Junction
A satisfactory junction was made at the northeast end of the sheet, at FAKE, 1934, with Topographic Sheet U-D-35, Project H T No.176, U.S. Surveyor.

FORM LINES

FORM lines were drawn with sufficient accuracy by means of numerous well determined elevations to peaks, centerlines of saddles and well defined knolls and scars. One hundred eleven elevations were determined on the sheet.

LANDMARKS

THERE are no landmarks of particular importance in the area covered by the sheet, except Round Island which was described in the previous season's report. (See Descriptive Report accompanying Sheet "C", 1935).

ANCHORAGES

ALL anchorages on this sheet are properly covered in the Alaska Coast Pilot, Part II, and in the coast pilot notes for 1934 and 1935 submitted by the U. S. S. DISCOVERER.

NAMES ASSIGNED by FIELD OFFICERS

NO new names were assigned by the field officers. All names are as they appear on existing charts. Names were inked in on the sheet prior to learning that that practice had been discontinued.
MAGNETIC MERIDIANS

MAGNETIC meridians were obtained with the declinatoire at AROUND, 1901 - 1934, and at ALAP, 1934. Compass declinometer observations were made at A CLIFF, 1901-1934, AROUND, 1901-1934, and at ALAP, 1934. A difference of approximately $41^\circ$ was noted between the declinometer and declinatoire readings taken at AROUND, 1901-1934. Both readings were taken on the afternoon of the same day. It is believed that there must be a magnetic disturbance in this vicinity inasmuch as a previous declinatoire reading at ROUND (1934 season) was practically the same as this year's, yet there was generally only about a degree difference in comparative readings of the declinatoire and declinometer at other stations.

DISCREPANCIES and COMPARISONS with PREVIOUS SURVEYS

THE same general conditions apply to this sheet as stated under "Discrepancies" for sheet "K", Beaver Inlet, 1935 season. However, on this sheet, on the eastern half of Amugul Bay, the general form line elevations are in better agreement.

RECOVERABLE PLANE TABLE POSITIONS

A list of recoverable plane table positions is appended.

STATISTICS

Statute miles of shore line ------------------------------- 16.0
Area, square statute miles -------------------------------- 16.0
Number of elevations determined ------------------------ 111

Respectfully submitted,

Ross A. Gilmore
Jr. H. & G. Engineer.

Approved and forwarded:

H. B. Campbell, H. & G. Engr.;
Chief of Party
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<th>Object &amp; Description</th>
<th>Lat.</th>
<th>D.M.</th>
<th>Long.</th>
<th>D.M.</th>
<th>Height</th>
<th>Remarks</th>
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<tr>
<td>&quot;Cam&quot; (sharp detached rock)</td>
<td>53 48</td>
<td>510</td>
<td>166 20</td>
<td>925</td>
<td>6</td>
<td>top</td>
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<tr>
<td>&quot;Let&quot; (prominent pinnacle rock)</td>
<td>53 48</td>
<td>209</td>
<td>166 21</td>
<td>350</td>
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<td>center</td>
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<tr>
<td>&quot;Del&quot; (prominent tooth like rock)</td>
<td>53 45</td>
<td>1072</td>
<td>166 22</td>
<td>690</td>
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<td>top</td>
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<tr>
<td>&quot;Wal&quot; (small islet)</td>
<td>53 44</td>
<td>644</td>
<td>166 22</td>
<td>690</td>
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<td>highest pt.</td>
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<td></td>
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<td>(small cairn)</td>
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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
Ship DISCOVERER

Seattle, Washington
April 30, 1936.

To: The Director,
U. S. Coast and Geodetic Survey,
Washington, D. C.

Through: The Inspector, Seattle Field Station.

From: Commanding Officer, Ship DISCOVERER.

Subject: Declinatoires.

Reference: Your letter dated April 24, 1936, 40-EMM.

All declinatoires on board the DISCOVERER were tested at the Green Lake Magnetic Station on April 28, 1936. The following results were noted:

Declinatoire Correction

#174 - 10 min.
No number 0 min.
Declinatoire with Alidade #162 - 06 min.
" " " #164 + 02 min.
" " " #171 - 04 min.

The declinatoire with alidade #171 is the one that was used on the topographic sheet of Amugul Bay. It's correction is - 04 min.

Jack Senior,
Lt. Comdr., C. & G. S.,
Commanding, Ship DISCOVERER.
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<td>4 found underscored on chart 8860 <strong>Round Island</strong></td>
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<td>6</td>
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<td>Amugul Bay</td>
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<tr>
<td>Round Island</td>
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Names underlined in red approved on 7/30/36.
MEMORANDUM
IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT
PHOTOSTAT OF No. H
No. T 6434

received April 9, 1936
registered April 14, 1936
verified
reviewed
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

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RETURN TO
82

Grilled
April 16-36
REVIEW OF TOPOGRAPHIC SURVEY No. 6434

Title (Par. 56) Amogil Bay, S.W. Alaska


1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.)

2. The character and scope of the survey satisfy the instructions.

3. The control and closures of traverses were adequate. (Par. 12, 29.)

4. The amount of vertical control that the Manual specifies for -contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.)

5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.) Note paragraph 19

6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) None submitted.

7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)

8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) Rock symbols are very poorly drawn

9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) See reverse side

10. The span, draw and clearance of bridges are shown. (Par. 16c.)

11. Locations and elevations of summits are given. (Par. 19, 51.) Frequent elevations taken

12. The tree line was shown on mountains. (Par. 16g.)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.
Paragraph 9

T2544 (1901)

The present survey is in good agreement with T2544 in general. The present survey, however, is on a 1:20,000 scale whereas T2544 is 1:40,000. Hence the present survey is much more in detail as to shore line, rocks and islet.

T6434 should supersede T2544 in part.

Chart 8850

The present survey is in much more detail than Chart 8860. The chart is no doubt taken from T2544.
13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.)

14. The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.

15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par 29, 30, 57, 67 except scaling of DMs and DPs, 68.) None submitted.

16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16, e, 60.) None submitted or verified.

17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) Declination differences noted in Descriptive Report Pages.

18. The geographic datum of the sheet is Unalaska (Unadjusted) and the reference station is correctly noted. (Par. 34.)

19. Junctions with contemporary surveys are adequate.

 Join T 4935 (1935) on the N.E.
 Join T 6575 (1935) on the N.W.

20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.)

21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) Drafting is good except

very poor drawing of such symbols. They are too small and

22. No additional surveying is recommended.

23. The Chief of Party inspected and approved the sheet and the descriptive report after review by.

24. Remarks:

Reviewed in office by: July 5, 1936.

Examined and approved:

C. L. Green
Chief, Section of Field Records

Fred. L. Peacock
Chief, Section of Field Work

L. D. Holbert
Chief, Division of Charts

G. D. A. Stilley
Chief, Division of Hyd. and Top.
Paragraph 19

The junctions of the form lines are not very good with T4934 (1935). Since T6434 is on an aluminum mounted sheet and comparatively more elevations were taken it is to be accepted where elevations conflict.