

6434

~~CONFIDENTIAL~~

Form 504
Ed. June, 1923

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

APR 8 1936

State: ALASKA

Acc. No.

DESCRIPTIVE REPORT

Topographic

~~Hydrographic~~

Sheet No. " M "

LOCALITY

~~BEAVER INLET~~

UNALASKA ISLAND

~~ALEUTIAN ISLANDS~~

Amugul Bay

1935

CHIEF OF PARTY

H. B. Campbell

U. S. GOVERNMENT PRINTING OFFICE: 1928

6434

~~CONFIDENTIAL~~

Applied to drawing of chart No 8860

S. B. Maize Jan 25 1937

Applied to drawing of chart No 8802

S. B. Maize June 1937

Applied to Chart Comp. No 9018

H. MacEwen June 20, 1939

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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 ~~BEAVER INLET~~ Amugul Bay ¹⁰

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 ~~xxxxxx~~

~~xxxxxx~~ Form line interval 100 feet

Instructions dated April 13, 1934, 19

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 Δ Amug, 1934 to Δ 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 rodged 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 Δ 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 .

A satisfactory^{junction} was made at the northeast end of the sheet , at Δ FAKE, 1934, with Topographic Sheet U-D-35, Project H T No.176, U.S.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 Ronnd Island which was described in the previous seasons 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 practise had been discontinued.*

MAGNETIC MERIDIANS

MAGNETIC meridians were obtained with the declinoire at Δ ROUND , 1901 - 1934, and at Δ LAP , 1934 . Compass declinometer observations were made at Δ CLIFF, 1901-1934, Δ ROUND, 1901-1934, and at Δ LAP, 1934 . A difference of approximately $4\frac{1}{2}^{\circ}$ was noted between the declinometer and declinoire readings taken at Δ ROUND, 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 declinoire 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 declinoire 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
Ross A. Gilmore ,
Jr. H. & G. Engineer.

Approved and forwarded:

H. B. Campbell
H. B. Campbell, H. & G. Engr.,
Chief of Party

RECOVERABLE PLANE TABLE POSITIONS - SHEET " M "

Object & Description	Lat.	D.M. meters	Long.	D.M. meters	Height feet	Remarks
"Cam" (sharp detached rock)	53° 48'	560	166° 20'	925	6	top
"Let" (prominent pin- nacle rock)	53 48	209	166 21	350		center
"Del" (prominent tooth like rock)	53 45	1072	166 22	689		top
"Wal" (small islet)	53 44	644	166 22	690		highest pt. (small cairn)

40

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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

Ship DISCOVERER

Seattle, Washington
April 30, 1936.

CKG
1936 MAY - 6 - AM 11:58

MAY 2 1936

MAY 2 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:

Declinaire	Correction
#174	- 10 min.
No number	0 min.
Declinaire with Alidade #162	-08 min.
" " " #164	+ 02 min.
" " " #171	- 04 min.

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



Jack Senior

Jack Senior,
Lt. Comdr., C. & G. S.,
Commanding, Ship DISCOVERER.

Remarks

Decisions

1		
2		
3		
4	<i>found underscored on chart 8860</i>	<i>Round Island</i>
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GEOGRAPHIC NAMES

Survey No. 6434

Name on Survey	Source										No.
	A	B	C	D	E	F	G	H	I		
	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List			
<u>Unalaska Island</u> ✓	*				✓		✓	✓	✓	1	
<u>Beaver Inlet</u> ✓	*						✓	✓		2	
<u>Amugul Bay</u> ✓	*				✓		✓			3	
<u>Round Island</u> ✓	*									4	
										5	
										6	
										7	
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Names underlined in red approved
by *[Signature]* on 4/20/36

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT } No. H
 PHOTOSTAT OF } 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. The complete original records are available if desired. 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.

ROUTE		Initial	Attention called to
20			
22			
24			
25			
26			
30			
✓ 40	<i>fmr</i>		<i>Magnetic - page 3 - D.R.</i>
62			
63			
82			
83			
88			
90			

RETURN TO

82	
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G. H. Green April 16-36

REVIEW OF TOPOGRAPHIC SURVEY No. 6434

Title (Par. 56) *Amugul Bay, S.W. Alaska*Chief of Party *H.B. Campbell* Surveyed by *R.A. Gilmore* Inked by *R.A. Gilmore*Ship *Discoverer* Instructions dated *April 13, 1934* Surveyed in *Sept. 1935*

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 ~~con-~~
~~tours-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~~
grass 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 8860

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. 16d, e, 60.) *None submitted*
17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) *Declination differences noted in Descriptive Report Page 3*
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.
Joins T 4935 (1935) on the N.E. Joins form lines with T 4934 (1935) on the East (see reverse side)
Joins T 6269 (1934) 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 ^{Fair} ~~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 rock symbols. They are entirely too small and not clear.*
22. No additional surveying is recommended. ✓ *not clear.*
23. The Chief of Party inspected and approved the sheet and the descriptive report after review by ✓
24. Remarks:

Reviewed in office by *Char. R. Bush Jr.* June 5, 1936.

Examined and approved:

C. H. Green
 Chief, Section of Field Records
L. O. Lobbert
 Chief, Division of Charts

Fred. L. Peacock
 Chief, Section of Field Work
G. H. Wade
 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.