

6432

~~CONFIDENTIAL~~

8762

Form 504
Ed. June, 1923

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. Patton, Director

State: ALASKA

DESCRIPTIVE REPORT

Topographic } Sheet No. " K " 6432-
~~Hydrographic~~

LOCALITY

BEAVER INLET

UNALASKA ISLAND

ALUTKIAN ISLANDS

1935

CHIEF OF PARTY

H. B. Campbell

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

APR 8 1936

Acc. No.

6432

~~CONFIDENTIAL~~

T

Applied to drawing of Chart No 8860

S.B. Mays June 25 1937

Applied to drawing of Chart No 8802

S.B. Mays June 1937

Applied to Chart Comp. 9018

H.E. MacSwan June 17, 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. " K "

REGISTER NO. T6432

State Alaska

General locality Unalaska Island, ¹⁹ Aleutian Islands

Locality Beaver Inlet ¹¹

Scale 1:20,000 Date of survey August-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 MHW to ground ~~to tops of trees~~ ***

~~Contours, Approximate contours~~, Form line interval 100 feet

Instructions dated April 13, 1934

Remarks: Project No. H T- 177

Authority

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

Purpose

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

Limits

This sheet takes in all the topographic features of the southwestern end of Beaver Inlet from the topographic signal "Pot" ($\frac{1}{8}$ mile west of Δ LONG, 1901-1934) around to the topographic signal "Mex" ($\frac{1}{3}$ mile north-east of Δ DOG, 1901-1934). It also includes the western end of Uniktali Bay from Δ BLUE, 1934, to Δ ROPE, 1934 .

General Description

In the main the topography is quite rugged and barren except for a short grass and reindeer moss which covers the the lower elevations(generally below the 1000 foot elevation). Considerable snow remains in the higher elevations well into July. In some of the higher gulley~~s~~ and ravines the snow remains throughout the season. New snow appears~~about~~ the first of October.

The shoreline is quite rugged and broken with very little beach, which consists mostly of boulders and gravel. At the head of each bay there is quite an extent of low valley land with several joining streams. These valleys have a considerable growth of tall grass and a few stunted willows.

Cliffs and rocky outcrops have been depicted on the sheet wherever they occur.

Control

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

Survey Methods

Standard plane table survey methods , as prescribed in the Topographic Manual , 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 .

Junctions with Previous Work

A satisfactory junction was made with the previous seasons work at Δ BLUE, 1934 and Δ ROPE, 1934 ; at topographic signal " Pot " (recovered whitewash) ; and at topographic signal " Mex " (recovered whitewash). Topographic signal " Mac " and the shoreline between "Mac" and "Mex" were relocated as the transfer seemed to disagree. This was probably due to the fact that this portion of last years sheet had been unavoidably marred. (See " Remarks ", descriptive report accompanying topographic sheet " C ", season 1934).

Form Lines

Form lines were drawn with sufficient accuracy by means of numerous determined elevations to peaks , center lines of saddles and well identified knolls . Two hundred fifty-nine elevations were determined on the sheet.

Landmarks

There are no landmarks of particular importance. Long Island (Δ LONG, 1901-1934) was noted in last seasons report for sheet " C ".

Anchorage

All anchorages on this sheet are properly covered in the Alaska

Anchorage (cont'd)

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

Four magnetic meridians were obtained at well distributed points on the sheet. A variation of approximately $3\frac{3}{4}^{\circ}$ was noted between values. Compass declinometer observations were made at Δ ERSK, 1934 and Δ YAB, 1934 (see Magnetic Observations, Report of U. S. S. DISCOVERER, 1935). Compass declinometer observations were made at Δ KISS, 1934 and Δ LONG, 1901-1934, the previous season.

Discrepancies and Comparisons with Previous Surveys

In general, a cursory examination of the shoreline of the 1901 survey (as shown on the bromide of Register No. 2544) compared very well with the new survey. The form lines , however, as shown on the bromide, do not agree very well in elevation , although the general configuration of them seem to agree fairly well. The differences in elevation cannot be accurately determined, in as much as there are no elevations shown on the bromide and could only be approximated. All elevations shown on the sheet " K " were determined from several intersections and check elevations and should be considered final.

Recoverable Plane Table Positions

A list of recoverable plane table positions is appended.

Statistics

Statute miles of shore line -----	40.0
Area, square statute miles -----	43.0
Number of elevations determined -----	259

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 " K "

Object & Description	Lat.		D.M. meters	Long.		D.M. meters	Height feet	Remarks
	^o	[']		^o	[']			
"Hoe" (small stack on shack)	53	47	147	166	33	87		Old, trapper shack
"Cap" (small islet)	53	44	355	166	35	970	3	Top, center
"Go" (small islet)	53	44	429	166	35	443	8	"
"Dud" (small detached rock)	53	44	360	166	33	411	3	center
"End" (small detached pinnacle rock)	53	44	289	166	32	1075	9	top
"Five" (small detached rock)	53	43	1606	166	32	1075	5	top
"Ant" (small, low, sharp pinnacle)	53	42	836	166	34	784		top
" Pinnacle Rock "	53	42	1482	166	34	163	41	top(eagle nest)
"Ban" (sharp, pointed rock)	53	42	1727	166	32	384	11	top
"Gig" (flat, detached rock)	53	42	542	166	32	616	4	center

Remarks

Decisions

1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. 6432

GEOGRAPHIC NAMES										
Survey No. 6432										
Name on Survey	<div>On Chart No. 8860</div> <div>On previous survey No.</div> <div>On U. S. quadrangle Maps</div> <div>From local information</div> <div>USBCN</div> <div>USBCN</div> <div>USBCN</div> <div>USBCN</div> <div>USBCN</div> <div>USBCN</div>									
	A	B	C	D	E	F	G	H	K	
Unalaska Island ✓	*					✓		✓	✓	1
Uniktali Bay ✓	*					✓		✓		2
Erskine Bay ✓	*					✓		✓	✓	3
Beaver Inlet ✓	*					✓		✓		4
Kisselen Bay ✓	*				✓	✓		✓		5
Final Bay ✓	*							✓		6
										7
										8
										9
										10
										11
										12
										13
										14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Names underlined in red approved

4/29/36

by [Signature]

M 234

Names underlined in red approved
by *[Signature]* on 4/29/36

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT } No. H
~~PHOTOSTAT OF~~ } No. T 6432

{ 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			
K 40	<i>Smr</i>		<i>Magnetic - page 4 P R</i>
62			
63			
82			
83			
88			
90			

RETURN TO

82	
----	--

C. K. Green April 16 - '36

REVIEW OF TOPOGRAPHIC SURVEY No. 6432

Title (Par. 56) *Beaver Inlet, 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 *Aug. - 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.
Insufficient number of recoverable stations established to permit resurvey
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.)
Asufficient number of elevations were taken
5. The delineation of ~~contours~~-~~formlines~~- is satisfactory. (Par. 49, 50.) *Relief very well executed*
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 made too small*
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.

T2544 (1901)

The present survey, in general, is in good agreement with T2544. Since the present survey is ~~executed on~~ twice the scale of T2544 much more detail is shown. The points, islets and rocks are far more accurately delineated on the present survey than on T2544. Differences in form lines are discussed on page 4 of the Descriptive Report.

Chart 8860

The present survey is in fair agreement as to shore line. Since the chart was not compiled with the present survey, it does not contain the detail as discussed under T2544 above. Elevations are also different as noted in the Descriptive Report.

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.) *No note of having checked declinaire
Difference in declination at various stations discussed on Page 4 of Descriptive Report*
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.
*Joris T 6269 (1934) on the East. On the West there is a
holiday between this survey and T 6424*
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.) ~~Legends are not carefully drawn
Rat symbols are too small and poorly made - Lettering is not uniform~~
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

Chas. R. Bush Jr. June 5, 1936.

Examined and approved:

C. H. Green
Chief, Section of Field Records*L. O. Pollock*
Chief, Division of Charts*Fred. L. Peacock*
Chief, Section of Field Work*G. H. Wade*
Chief, Division of Hyd. and Top.