

6859

U. S. COAST & GEODETIC SURVEY

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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

L.O. Colbert, Director

State: ALASKA

DESCRIPTIVE REPORT

Topographic

~~Hydrographic~~

Sheet No. "J" 1940-41

LOCALITY

UNIMAK ISLAND (North side)

St. Catherine Cove

19 40-41

CHIEF OF PARTY

Harold A. Cotton

6859

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 16859

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 Letter "J" 1940-41

REGISTER NO.

State SW. AlaskaGeneral locality side North Coast of Unimak IslandLocality St. Catherine CoveScale 1:20,000 Date of survey August & Sept. 1940
May & June, 1941Vessel Ship GUIDEChief of Party H. A. CottonSurveyed by F. X. PopperInked by C. A. SchoeneHeights in feet above MHW to ground ~~to tops of waves~~Contour Approximate contour Form line interval 100 feetInstructions dated March 8, 1939Remarks: Project HT-231

DESCRIPTIVE REPORT

T6859

To Accompany

TOPOGRAPHIC SHEET FIELD LETTER "J" 1940-41

AUTHORITY: Authority for this survey is contained in the Director's Instructions dated March 8, 1939. Project H.T. 231.

SCALE: The scale of this survey is 1:20,000.

LIMITS: This sheet covers the north coast of Unimak Island from a north-south ridge that separates St. Catherine Cove from Swanson Lagoon (Longitude 163 - 33) to Chunak Pt. (Longitude 163 - 27) and all the shoreline of St. Catherine Cove.

GENERAL DESCRIPTION OF AREA: The shoreline on this sheet is characterized by a sandy beach. In St. Catherine Cove, the area between the high-water line and the low-water line is a combination of mud and sand. The cove is very shallow and large areas of it are bare at low tide. The long narrow spit between the Bering Sea and St. Catherine Cove is covered with low grassy dunes and ridges. The east end of the spit is covered with shifting sand and a few patches of grass. From the shores of St. Catherine Cove there are tundra covered foothills extending south and southwest to the higher snow covered peaks. Mike's Creek is the only stream of any size in this area.

CONTROL: This survey is based on a scheme of triangulation executed by the "GUIDE" in 1940 and 41 on the Unalaska Datum and a survey made in 1923-24 on the same datum. The positions were plotted from unadjusted field computations carried north from the old triangle WIND- ISLAND - VIN. In 1941 this scheme of triangulation was completed around the entire circumference of Unimak Island and the tie was made on the line WIND - KATY. The positions of WIND and KATY as computed from both directions differ by approximately $3\frac{1}{2}$ meters in latitude and zero meters in longitude, an amount which is barely plottable on this scale.

SURVEY METHODS: The planetable and stadia were used with no deviation from standard practice. All traverses closed within the allowable limits.

CLOSING ERRORS OF TRAVERSES:

Traverse	Distance	Year	Closing Error
MUST to BEACON	1.3 Stat. Miles	1941	3 M. in distance
BEACON to CHUNAK 2	3.3 " "	1940	4 M. " "
WIND to BEACON	3.5 " "	1940	7 M. " "
			7 M. in azimuth

These errors were proportionally adjusted between triangulation stations.

FORM LINES AND ELEVATIONS: Due to the fact that the 1941 Season of the "GUIDE" was cut short by special orders, there were not sufficient elevations determined to draw form lines on this sheet. The elevations on this sheet are shown in red ink and represent feet above mean high water.

JUNCTIONS: There is a good junction with the 1924 Topographic Survey in the vicinity of triangulation station WIND where the shoreline is rocky and does not change rapidly. There has apparently been a great change in the shoreline of the Bering Sea between Chunak Pt. and Longitude 163 - 32. This stretch of shoreline is sandy and has probably been eroded by wind and sea. The shoreline has been built out into the Bering Sea approximately 250 meters at a point about $\frac{1}{8}$ mile north of Chunak Pt. In the vicinity of triangulation station CHUNAK 1924 approximately 200 meters of shoreline has been eroded away.

The junction between this sheet and sheet "I" 1940-41 is satisfactory. There are no other topographic sheets joining this sheet.

GEOGRAPHIC NAMES: MIKES CREEK - A local name.

LANDMARKS: Triangulation station BEACON 1924, elevation 73 ft. is an excellent landmark. It was charted in 1924. There is a low cone-shaped sand hill covered with grass, 37 ft. in elevation, approximately 1 mile east of BEACON. It is a prominent landmark for vessels close in to shore and should be put on the chart.

DECLINATOIRE OBSERVATIONS: Declinatoire observations were made at five triangulation stations on this sheet. There was no indication of any appreciable local magnetic attraction in this area.

STATISTICS: 18.6 stat. miles of shoreline.
4.4 " " of lagoon and river shoreline.
6.8 square stat. miles of area surveyed.

TOPOGRAPHIC SIGNALS: The points on this sheet on the shoreline of the Bering Sea marked by red circles are not signals but 2 x 4 stakes driven in the ground which can be recovered at some time in the future. On the shoreline of St. Catherine Cove the red circles indicate the locations of topographic signals.

Respectfully submitted:

Charles A. Schoene
Charles A. Schoene,
Aid, C. & G. Survey.

Topographic Sheet Field Letter "J" - 1940-41, and the descriptive report pertaining thereto have been examined by me and are approved and forwarded.

Harold A. Cotton
Harold A. Cotton
Chief of Party, C. & G.S.
Commanding Ship "GUIDE".

Remarks

Decisions

1		550 630 V-S-G-B
2		"
3		"
4		545 640 U.S.G.B
5	Do not ink pending action by U.S.G.B. Baker apparently calls this Red River or Creek.	550 635
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GEOGRAPHIC NAMES
Survey No. **T6859**

Name on Survey	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	
	A,	B,	C,	D	E	F	G	H	K
<u>Bechevin Bay</u>									1
<u>Chunak Point</u>									2
<u>St. Catherine Cove</u>									3
<u>Unimak Island</u>									4
<u>Mikes Creek</u>									5
									6
Names underlined in red approved									7
by L. Heck on 3/13/42									8
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MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
~~PHOTOSTAT OF~~

~~No. 111~~

No. T T6859

received January 13, 1942
registered January 20, 1942
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			
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90			

RETURN TO

82	R. W. Knox
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RWK