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DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY
State: S.W. Alusks
DESCRIPTIVE REPORT. 4155 Topographis Sheet No. 5
LOCALITY:
Alaska Peninsula
Cape Kumlik 4 Vic.

191 2 5
CHIEF OF PARTY:
Clem. L. Garner, H.& G.E.

Note:

It should be explained that there is apparently a discrepancy in the position of triangulation station BRAM. In carrying on hydrographic work in this vicinity positions which did not include station BRAM were slightly to the westward of those when BRAM was used as one of the objects. Mr. Davy reported that a three point location of BRAM on that topographic sheet differed from the computed station. However, one of his objects was not a computed position and its accuracy is itself doubted.

The position of this group of rocks are shown relative to the computed position of BRAM on all sheets since it has been impossible to determine any sufficient discrepancy in the computed position. The determination is from three stations and although the intersections are rather acute the positions check as well as could be expedted from the topography of the rock.

However, it is recommended that this station be more accurately determined by the next party working in this vicinity and the topography made to fit the true position if there is found to be a change.

Clem L. Garner.

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DESCRIPTIVE REPORT

to accompany
TOPOGRAPHIC SHEET NO. 5, CAPE KUMLIK, SOUTHWEST ALASKA
Instructions dated March 25, 1925

GENERAL DESCRIPTION OF COAST

The coast of Cape Kumlik, as viewed from the sea is rugged and mountainous. The peaks do not vary greatly in height, and are for the most part low - the maximum elevation being about 2400 feet. The Southeast point of the cape terminates in a small, flat plateau 1100 feet in elevation. This plateau breaks abruptly down to the sea forming a sheer, massive precipice extending for several miles North and East of hydrographic signal ROK.

From hydrographic signal ROK to the end of the sheet at triangulation station KUJU the coast is a series of bold rocky bluffs of from 50 to 90 feet elevation, with an occasional stretch of sandy beach where a valley makes down from the hills. Numerous rocky islets lay a short distance off the beach.

OUTLYING DANGERS AND ISLANDS

o A small rocky islet, 55 feet in height, laysin Lat. 56 $35\frac{1}{2}$ ' and Long. 157 $26\frac{1}{2}$ '. The top of the island is flat and grass coveredand is bounded by bold rocky bluffs.

A breaker, breaking at half tide in moderate swells lays in Lat 56^0 $36\frac{1}{4}$ and Long. 157^0 $25\frac{1}{2}$.

A group of islets are in Lat. 55° 36', long. 157° 29', These islets are connected at low water by a sandy beach. From this say beach sheer bluffs of weathered sandstone rise to heights varying from 50 to 80 feet. The tops of the islets are flat and grass covered. The second islet from the beach bears triangulat ion station CLAY.

A group of rocky islands ,which from a distance appear as a single long narrow saw tooth island are in Lat. 56° 33°_{4} , Long. 157° 33° . The Morthern islets are very low, but the higght of the others gradually increases till the Southermost islet reaches a height of 105 feet. A reef makes out for a quarter of a mile North of these islands.

Several groups of rocky islets of 50 to 60 feet elevation lay in the vicinity of Lat. 56° 36°_{2} , Long 157° 41°_{2} . From the most southerly group of islands a reef makes out in a South westerly direction for several miles to a point beyond the limits of this sheet. This forms a serious obstruction to the safe navigation of Sitkum Bay.

A small rocky islet layes in Lat. 56° $39\frac{1}{2}$, Long. 157° $46\frac{1}{6}$. From the islet a series of reefs extend to the beach. Vessels should not pass inshore of this islet.

An islet lays in Lat. 56° 38°_{2} , Long. 157° 49°_{2} . From this islet to the beach at triangulation station KUJU is a series of reefs and small islets.

LANDMARKS



- Onnapproaching the coast the most prominent landmarks are: (1) A dark cone peak, elevation 1970 feet, with a great white scar formed by a land slide. The top of this peak is triangulation station MID, in Lat. 56° 35% Long. 1570 36°
- (2) A bare reddish colored range rising from the small flat plateau at the end of the cape. The maximum elevation of this range is 2400 feet.
- (3) The long jagged group of islands mentioned in a previous paragraph and which lay in Lat.56 $33\frac{1}{4}$, Long. 1570 33 may, be easily identified.

INSHORE DANGERS

Practically the entire coastline included on this sheet is foul and rocky and should be approached with caution. Isolated rocks and reefs make out from all the rocky points, and the small bights in the coastline are for the most part foul. The majority of these dangers are marked by kelp.

ANCHORAGES

There are no good anchorages along this shore. Shelter may be had in Northwesterly weather in a small hight $\frac{3}{2}$ milesNortheast of triangulation KUJU, in 7 fathoms, sandy bottom.

SURVEY METHODS

The control of this sheet was furnished by triangulation of the third order. Triangulation stations KUJU, LIK, and CLAY are marked, while numerous rocks and peaks were cut in by theodolite.

From triangulation station KUJU to triangulation station HOLE a plane table traverse was run and cuts taken on easily identified objects along the beach from station HOLE to triangulation stationLIK. Station HOME is not visible from the beach from the direction of station KUJU. In passing HOME a side shot was taken on it. This checked within 5 meters.

* See next page

From station HOME to station LIK a combination of traverse and resection was used. Numerous points had been established by prosection from the plane table traverse previously mentioned. As this shore line was chiefly determined by independent positions, there was no closing error on station LIK.

A plane table traverse was then run to topo. signal STUB. The traverse was ended here and work resumed at station CLAY.

Triangulation station CLAY was occupied and the surrounding islands traversed in. From this traverse cuts were taken of numerous points along the beach of the mainland, and their position determined. These points were then occupied and the shoreline between them traversed. A travers point on the rocky point just west of signal ISLE was checked by cuts on stations CLAY, CAP, JULE, and MID. From this point an azimuth line was drawn to a reef just south of signal CALSO. This reef was then occupied and resection made on the signals from which the previous position had been checked. The reef just south of signal AGUA was located in the same manner. Fro these two reefs the shore line cut in in great detail. From signal NUT a traverse was carried to signal STUB, to con.ect with the previous work. The closing error on STUB was about 20 meters. This was distributed on both sides of the signal.

The island surrounding BRAM were occupied and traversed in, as were the islands South west of signal CAP.

 $\,$ No new place names were given to any of the territory covered by this sheet.

Respectfully submitted,

T.T. Davey, Deck Officer,

Topographer.

Approved,

Clem. L. Garner, H.& G.E.

Commanding.

This landslide was not shown on the sheet when received in the office. Its location was indicated by Capt. Garner on a photostat sent to him. On the photostat he noted that it is a "Conspicuous slide of gray rock."

His accompanying letter dated July 19, 1926 stated. "This is from memory and is therefore only approximate, yet I am reasonably certain that some part of the slide occupies the position shown and I do, not believe that any difference in position could be noted on a chart of reduced scale from the topographic sheet."

August 11, 1926.

E. P. Eening

PLANE TABLE POSITIONS

to accompany

TOPOGRAPHIC SHEET NO. 5, CAPE KUMLIK, SOUTHWEST ALASKA Instructions dated March 25,1925

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Object Description	•	at.	D.M. meters	0	ong.	D.P. meters	Ht. feet	Remarks
	••••	••••	• • • • • • • • • •	*****			*****	
MIKE, W.W.	56	39	1669	157	43	883	15	On rockpt.
HAT, rock pinnacle.	56	36	1340	157	38	732	12	Sharp pinnac rock, top.
STUB, round grassy point	56	37	450	157	36	572	85	Grass c over e dome; top.
AGUA, waterfall	56	37	486	157	33	675	0	Base of fall
CALSO, waterfall	56	37	421	157	32.	890	0	Base of fall
ISLE, rock islet	56	36	1492	157	31	582	20	Lone islet
IRI, rock bluff	56	37	32	157	31	108	. 25	Triangularout crop on cliff
ROK, rock off shor	e 55	37	715	157	28	711	4	Lone rock
PARA, rocky point	56	37	943	157	27	1020	30	High Point
SLOPE, pinnacle on beach	56	37	1291 1291	157	27	652	35 1	Top of grass ^y pinnacle
FIRE, pinnacle	56	36	500	157	29	166	28	Top of slende pinnacle

STATISTICS FOR SHRET NO.5

Miles of topography: 24.4 statute miles

Area 57 square statute miles

AND REFER TO NO. 4-DRM

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

February 19, 1926.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4155

Cape Kumlik and Vicinity, Alaska Peninsula

Surveyed in 1925

Instructions dated February 25, 1925.

Chief of Party, C. L. Garner.

Surveyed and inked by T. T. Davey.

- 1. The records, as well as the plan and character of the survey, conform to the requirements of the General Instructions.
- The plan and extent of the survey satisfy the specific instructions.
- 3. The junctions with the adjoining surveys are adequate except for quite a few discrepancies in formlines with those over-lapping T. 4154.
- 4. The usual field drafting was done by the field party. The drafting was good except for the representation of rocks, which was very carelessly done. Some were indistinct and in some cases it was difficult to distinguish between sunken and awash rocks.
- 5. As noted in the descriptive report the accuracy of triangulation point Bram is questionable, and the point should be relocated by triangulation. Otherwise no further surveying is required.
- 6. The character and scope of the surveying was good and the field drafting fair.
- 7. Reviewed by E. P. Ellis, January, 1926.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 5 4155 SW. Masi Alaska. General locality . . . Alaska Paninsula Locality Case Kunlik and Vicinity Chief of party . . Clem. L. Garner, H.& G.Z. Date of survey . . . August - September, 1925 Scale 1 / 20,000 Heights in feet above . Mean and High Water . . Form Line Contour interval , 199 , feet. Inked by T.T. Davey . . . Lettered by .T.T. Davey Records accompanying sheet (check those forwarded): Photographs, Descriptive report, Horizontal angle books, Field computations, Data from other sources affecting sheet . None.

Remarks: During the period of this mork

The Dany was attached to the Discoverer for
which was away from the Discoverer for
from Its 10 days of the time. This sheet

was thoroughly examined and inspected which

I those times. The contours are not as accurate
to they should be but in ground are very representative.

I preserved the approval of this that Clear L. Harner