

4140

Form 504	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
State: <u>SW Alaska</u>	
11-5613	
DESCRIPTIVE REPORT.	
Top: _____	Sheet No. <u>4140</u>
LOCALITY:	
<u>Alaska Peninsula</u>	
<u>C. Kumliun</u>	
1925	
CHIEF OF PARTY:	
<u>C. L. Garner</u>	

4140

## DESCRIPTIVE REPORT

to accompany  
TOPOGRAPHIC SHEET NO. 3, CAPE KUMLIUN AND OFFLYING ISLANDS  
AND ROCKS; SOUTHWEST ALASKA  
Director's Instructions to Commanding Officer dated March 25, 1925

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### 1. AREA COVERED

This sheet covers the shore line and included area of Cape Kumliun, Univikshak Island and adjacent islets, rocks and reefs. It is a continuation of the topographic work in Hook Bay of the preceding season and is carried into Sitkum Bay as far as triangulation station LOON.

### 2. GENERAL DESCRIPTION

The hill, upon the summit of which is located triangulation station KUMLIUN, is the most conspicuous object in this vicinity. Looking at this hill from the east it presents a regular grassy slope flanked on both sides by valleys choked with alder growth. Its top is hidden in fog and clouds much of the time.

Along the south shore of Cape Kumliun westward of topographic signal MAN runs a high range of hills. The shore line here is rugged and steep with evidences of landslides. The shore line for a mile northwest of topographic signal SIG is marked by a pronounced and steep length of cliff. The rest of the eastern and northern shore consists mostly of a series of low bluffs alternating with stretches of sandy beach. Back from these bluffs and beaches extend flat and rolling grassy lands for a short distance to the hillside slopes. In several places, however, the coastline is marked by precipitous cliffs.

Univikshak Island is hilly and grass covered. The highest point, marked by triangulation station SHAK, is on the northern part of the island. A saddle lies across the center of the island between the ~~island between the~~ northern and southern high areas. The western shore consists of low bluffs and a boulder beach a short distance north and south of hydrographic signal WOOD. The eastern shore is mostly precipitous.

### 3. LANDMARKS

Besides the hills marked by triangulation station KUMLIUN and triangulation station SHAK mentioned in the general description, the principal landmarks are various offshore rocks. The rock whose center is triangulation station FLAT TOP is a vertical sided, flat topped rock which is quite distinctive and will be picked up by ships approaching Cape Kumliun from the southwest or southeast. Topographic signal DAN is a rocky reef with gently sloping sides,  $\frac{3}{4}$  mile east of FLAT TOP. Triangulation station RAG is a rock easily distinguished by ships approaching from any direction. It is a jagged, inclined column.

#### 4. INSHORE DANGERS AND ANCHORAGES

Due to a very broken coast line bordered by many reefs and rocks showing at low water the shore of Cape Kumliun should be approached with caution.

Conspicuous and most important among these rocks and reefs are the following: A rock is awash at high tide 900 meters distant  $229^{\circ}$  (true) from topographic signal ARCH; the group of rocks locally called Gull Island ranging from 20 to 40 feet in height, laying one mile offshore,  $325^{\circ}$  (true) from topographic signal ABE on the south shore of Cape Kumliun, blend with a hilly background and are not noticeable unless particularly watched for. There is a jagged line of reefs which lay a mile off the southeast shore of Cape Kumliun and which extend for one fifth of a mile seaward. The most conspicuous rock of this group is the one marked triangulation station RAG. A reef dangerous to navigation, since it lies in apparently clear water and since it appears only at the lowest stages of the tide, lies one half mile,  $55^{\circ}$  (true) from triangulation station RAG. A reef in Lat.  $56^{\circ} 32' 45''$ , Long.  $157^{\circ} 47' 50''$ ,  $\frac{3}{4}$  of a mile off northeast shore of Cape Kumliun bares at  $\frac{1}{2}$  tide. There is a shoal indication (kelp patch) in Lat.  $56^{\circ} 33' 18''$ , Long.  $157^{\circ} 47' 30''$  a mile offshore, which should be avoided. In Sitkum Bay,  $\frac{3}{4}$  of a mile offshore north of topographic signal NICK, is a reef which bares at low tide.

There is an anchorage off the western shore of Unvikshak Island, offering protection from southeastern weather. This, however, is of little value when the wind is from any other quarter. It is  $\frac{1}{4}$  mile west of topographic signal WOOD in 14 fathoms of water, broken bottom.

#### 5. SURVEY METHODS

A traverse was run from Triangulation station LOON to a point in Lat.  $56^{\circ} 33' 40''$ , Long.  $157^{\circ} 49' 15''$ . Here a three point fix was taken and an error of about 60 meters was found. This was adjusted back to a point in about Lat.  $56^{\circ} 34' 53''$ , Long.  $157^{\circ} 51' 45''$ . The traverse was continued to triangulation station EASY where it checked out. The rest of the shore line was done by traverse and resection and required no adjustment. A traverse was run around Unvikshak Island from topographic signal UN to topographic signal FOUL. The northeast shore and offlying rocks were surveyed by resection and prosection. The survey of the groups of rocks around FLAT TOP and signal DAN was made by Mr. Partington. Signal DAN was located by resection and occupied and the shore rodded in. Other rocks were determined by intersection.

#### 6. BEACHES AND LANDING PLACES.

Because of the many headlands and protecting reefs, beaches may be found where small boats can land on Cape Kumliun in any weather. Small boats can land on Unvikshak Island either near signal WOOD or near signal SILVER.

7. WATERING PLACES, BUILDINGS, ETC.

All the streams of this locality are small and of no importance commercially. The two largest streams of these are, the one inshore from signal CANS and the one between signals ORE and WASH. There are two cabins on Univikshak Island, one at signal WOOD and one at signal SILVER, occupied by two fox farmers. This fox farm is the only industry in this locality.

Respectfully submitted,

*Leonard S. Hubbard.*

Leonard S. Hubbard, Jr. H. & G. E.

Approved and forwarded.

*Clem L. Garner*

Clem L. Garner, H. & G. E.  
Chief of Party.

Object & Description	Lat.	D.M. m.	Long.	D.P. m.	Height feet	Remarks
Arch, natural arched bridge, green tipped	56° 30'	105	157° 59'	464	60	highest pt.
Sm. round, brown rock projecting from cliff	56° 29'	1269	157° 58'	119	75	" "
Island off pt. marked by Bal <sub>2</sub>	56° 29'	730	157° 57'	675	25	" "
Se. point of head land	56° 29'	319	157° 56'	248	7	" "
Un, " " "	56° 29'	421	157° 55'	540	5	" "
Izzy, " " "	56° 29'	207	157° 54'	959	15	" "
Muk, rock 80m. from shore	56° 28'	1458	157° 54'	40	5	" "
Root, rock 80m. " "	56° 28'	800	157° 53'	305	16	" "
Sig, south face of steep rock close to shore	56° 28'	808	157° 51'	900	53	
Man, reef, 390 m. offshore	56° 28'	1300	157° 51'	72	17	center
Bone, reef, 960 m. "	56° 28'	1438	157° 50'	525	3	highest pt.
Cans, southeast face of rock grass top	56° 29'	736	157° 50'	484	20	
Eastern of two grass covered islets	56° 29'	1683	157° 49'	646	45	
Columnar, sharp, steep rock grassy tip	56° 30'	1586	157° 48'	534	30	highest pt.
Mon, rock close to shore	56° 31'	550	157° 49'	210	12	
Grassy Islet	56° 31'	878	157° 48'	772	35	center
Low ragged reef	56° 32'	385	157° 48'	253	12	
Wash, south face of small round islet, 80 ft. high	56° 32'	1708	157° 49'	719	10	
Cal, grassy islet 300 m. from shore	56° 33'	2	157° 48'	819	35	center
Eastern of 2 long low rocky reefs	56° 33'	1168	157° 48'	825	20	
Tabled shaped rock near shore	56° 34'	35	157° 50'	82	80	center
Tower shaped islet close to shore	56° 33'	1715	157° 51'	314	45	"
Spout, small waterfall	56° 33'	1630	157° 52'	63	15	
Small bare rock	56° 34'	628	157° 53'	380	8	center
Dan, rock 1½ miles south of Univikshak Id.	56° 27'	534	157° 43'	708	25	highest pt.
Nip, tip of southern pt. Uni vik-Id.	56° 29'	2	157° 43'	1009	15	
Vik, grassy nub on hill	56° 29'	129	157° 44'	35	100	highest pt. of hill
Fox, highest point of islet	56° 30'	498	157° 41'	684	153	
Silver, north gable of cabin	56° 30'	893	157° 43'	192	22	peak
Stag, reef 550 m. offshore	56° 30'	1458	157° 42'	808	15	highest pt.
Un, large w.w. on northwestern pt. of island	56° 30'	1364	157° 43'	864	16	
Wood, west gable of cabin	56° 30'	618	157° 43'	557	13	peak

Statistics for SHEET No. 3:

29½ statute miles of shore line.

27½ sq. statute miles covered by form lines.

ADDRESS THE DIRECTOR  
U. S. COAST AND GEODETIC SURVEY

AND REFER TO NO. 4-DRM

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

January 23, 1926.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4140

Cape Kumliun, Alaska Peninsula

Surveyed in 1925

Instructions dated March 25, 1925.

Chief of Party, C. L. Garner.

Surveyed and inked by L. S. Hubbard.

1. The records as well as the plan and character of the work conform to the requirements of the General Instructions.
2. The plan and extent of the survey satisfy the specific instructions.
3. The usual field drafting was done by the field party.
4. The junctions with the adjoining sheets are satisfactory, except for some differences in the form lines from those shown on T. 4081.
5. No further surveying is required.
6. The character and scope of the surveying and field drafting are excellent.
7. Reviewed by E. P. Ellis, January, 1926.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

4140

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. (3) 4140

State SW. Alaska

General locality . South West Alaska Peninsula

Locality . Cape Kumliun

Chief of party . Clem L. Garner

Surveyed by L.S. Hubbard

Date of survey August, 1925

Scale 1 - 20,000

Heights in feet above Mean High Water

Contour interval 100 feet.

Inked by L.S. Hubbard . Lettered by L.S. Hubbard

Records accompanying sheet (check those forwarded): Photographs,

\* Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet none

Remarks: