



C. & G. CUA. . 7, LIEBARY AND ARCHIVES APR = 3 1914 Acc. No.

Department of Commerce and Labor COAST AND GEODETIC SURVEY Tangami Superintendent. State: Claskal DESCRIPTIVE REPORT. Sheet No. 3429 LOCALITY: 1913,

### DEPARTMENT OF COMMERCE

### Coast and Geodetic Survey

0. H. Tittmann, Supt.

#### ALASKA

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# Shumagin Islands

original topographic sheet  $\times 3429$  popof strait, northern end.

Surveyed in June July, 1913 by the party on the C. & G. S. Str.

## PATTERSON

James B. Miller, Assistant, C. & G. Survey, Chief of Party William V. Hagar, Aid, C. & G. Survey, in charge of topographic party.

SCALE 1: 10,000

AREA 9 1/2 SQ. STAT. MILES.

INKED by William V. Hagar.

### DEPARTMENT OF COMMERCE Coast and Geodetic Survey,

O. H. Tittmann, Supt.

SOUTHWEST ALASKA

Shumagin Islands

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET X. 3429

Surveyed by the Steamer PATTERSON, June and July, 1913.

#### 1. REPORT, LIMITS, SCALE, METHODS, OBSERVER,

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I have the honor to report as follows upon topographic sheet A, which shows the topography of Humboldt Harbor, and the northern part of Popof Strait, Shumagin Islands, Southwest Alaska, as done in June and July, 1913, by a party from the Steamer PATTERSON. On the north and east the sheet connects with sheet H on the north and west with sheet C, and to the south it connects with sheet B. The scale is 1:10000 meters. The plane table was used exclusively in the survey. The work was done by a party in charge of William V. Hagar, Aid, C. & G. Survey.

#### 2. CONTROL, TRAVERSES, CONTOURS, HEIGHTS,

The traverses were closed upon triangulation stations and a proportional linear adjustment made. The greatest error was 40 meters at © "Cap". No other error of closure was over 15 meters. The amount of adjust ment for error of closure for each hydrographic signal is shown in the list of positions of plane table signals. In plotting distances in the field, allowance was made for expansion or contraction of the sheet. All heights and elevations are above the high water level. The heights were all obtained by means of the plane table. The land is not covered with trees nor otherwise obscured from the shore line and the contours were sketched with especial attention to accuracy. The contour interval is 50 feet.

## 3. DETAILED DESCRIPTION OF SHORE, PROMINENT POINTS.

East Head is a broad grass-covered point at the extreme northwest point of Popof Island. It rises in a bluff about thirty feet high from the beach. Back of this bluff there is a very general slope upward toward the interior of the island. To the eastward of East Head the shore is very rocky and the bluff gradually increases in height until at A Green it is 275 feet high. About a mile from East Head and directly beneath A Green, is Popof Rock, a large offlying rock which shows up very prominently. It is 70 meters from shore and 31 feet high. Range Island. Directly opposite East Head in Popof Strait is Range Island. This island is 300 meters long and 130 meters wide at the widest part. It is nearly flat on top with steep banks leading down to the shore. The top and banks are covered with grass except at the northern end where the island ends in a rocky bluff. The highest point of the island is 30 feet above high water level. Near the

center of the island a low earth wall is to be found enclosing a small plot of ground, evidently the attempt of some one to start a garden. The water between Range Island and East Head is shallow and full of kelp. South of East Head about half a mile is a large but shallow bight. The shore line all the way from East Head to Sand Point is rocky with low bluffs from ten to thirty feet in height from which there is a gentle slope upward toward the interior of the island. About a mile south of East Head is another but smaller bight. At the head of this bight is an occupied house. About one eighth of a mile west from Sand Point Wharf is a broad point from which the ground slopes up rather steeply to a hill 110 feet high back of Sand Point. 25 meters off the point is a small rocky island five feet above high water. Sand Point Valley is located on the west shore of a narrow bight. At the head of the bight is a small stream of water. South and west of Sand Point the shore continues to be rocky but with very steep grass covered banks rising to a height of from fifty to a hundred feet. About a mile from Sand Point en a low sand spit half a mile in length and shaped much like an equilateral triangle with the apex off shore. From the sand spit the shoreline bears toward the southeast. South of the sand spit is a dark colored slightly overhanging bluff 90 feet high at the highest point and about a third of a mile in length. Arch Rock. At the southern end of the bluff is a narrow rocky point 30 feet high projecting out 80 meters from main body of land. The outer end of the point has been honey-combed by the action of the surf and waves and presents an arched effect. South of Arch Rock is a narrow valley about an eighth of a mile in width. Beyond the valley the shore is bordered by high bluffs of a rather reddish color. The bluffs rise rapidly to a height of 440 feet and extend past the limits of the sheet. West Head is a dark rocky promontory 40 feet high about midway between Popof Strait and Zachary Bay. To the west of West Head the bluffs get higher but with numerous valleys which give to the bluffs the general appearance of a transverse section of a series of waves. About half a mile east of West Head is a conspicuous black bluff 300 feet high with a somewhat rounded top. From here the bluff rapidly decreases to a height of from fifty to a hundred feet and presents lphaterrace like appearance. Opposite Range Island is a small promontory with bluff ninety feet in height. The shore from the north and western limits of the sheet to this promontory is very rocky. To the south of the promontory the bluffs gradually growclower. About three quarters of a mile to the north is a low point at which the shore line turns and bears nearly west. <u>Unga Reef</u> is a rocky reef located 500 meters off this point. It bares at extremely low tides only. Inshore from the reef is a small rocky island about ten feet above high water level. Westward of Unga Reef the beach is sandy with steep grass covered banks inland. Half a mile west of Unga Reef is a rocky point with steep grass covered bank about 70 feet high surmounted by a vertical bluff rising to a total height of 110 feet. West of this point is another sand beach 3/4 of a mile in length. Just inland from the sand beach are a number of sand dunes averaging about forty feet in height. Near the middle of the sand beach the shore line turns and bears nearly south again. Immediately south of the sand beach is a dark bluff 140 feet in height. About three fourths of a mile south of the sand beach is a very conspicuous whitish bluff 160 feet in height and 500 meters in length. Beyond the white bluff the shoreline is generally rocky with steep grass covered banks. Half a mile below 🥝 Cloth is a rocky point with a small sandy bight on either side. In the bight to the north of this point is a rancher's house and one or two barns. South of the point is a rocky open bight terminating in the point upon which is the  $\Delta$  Beef, which is the southern limit of the sheet.

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SETTLEMENTS: WHITE, NATIVE, RESOURCES: MINING: FISHING: FARMING, COMMERCE. There is only one settlement and half a dozen scattered houses within the limits of the sheet. Sand Point is a white settlement consisting of half a dozen houses, store, post office, road house, wharf and warehouses. It is located in a bight with a small hill just north of it which shuts it off from view when approaching from the north until close by. From the south, however, it is visible for some distance. The scattered houses in the general neighborhood of Sand Point are all occupied by white men. There is at present no mining or fishing within the limits of the sheet. Considerable gold was taken from the beach south of the sand spit several years ago and some prospecting is at present being done in the hills back of the reddish bluff at the southeastern limits of the sheet, but there are no active mining operations. There is also a cod fishing station planned to be placed on the sand spit south of Sand Point but all that had been done toward it up to the past fall was to drive location stakes. About half a mile north of A Beef on the east coast of Unga Island lives a rancher with about a dozen head of cattle. Sand Point is a regular stopping place for the mail steamer. There is a wharf at Sand Point and sufficient water at low tide for vessels up to 14 feet draught. The store is headquarters for supplies for the fishermen and trappers on the adjacent peninsula as well as those on the islands, and carries quite an extensive stock. There are several small power and sailing boats which make irregular trips to the nearby villages and fishing stations, and do a general coasting trade. There is little outgoing shipping from Sand Point.

GEOGRAPHIC NAMES: AUTHORITIES: LIST. Below is given a list of geographic names of the most prominent points. The authorities taken were the old charts and names obtained by inquiry among the older residents. In the latter case care was taken to verify the names by asking several people. Considerable difficulty was met with in getting names due to the fact that the natives did not have local names except for the most prominent points.

> East Head Popof Rock Range Island West Head Sand Point Unga Island Popof Island Unga Reef Popul Strait

MAGNETIC DECLINATION.

The magnetic declination was carefully determined with the table in orientation at West Base and the declination was found to be 18 - 31' east.

At Sea, Nov. 10, 1913.

Respectfully submitted,

Milliam V. Hagar Aid, C. & G. Survey.

APPROVED:

Assistant, C. & G. Survey, Chief of Party

To the Superintendent, Coast and Geodetic Survey,

Washington, D. C.

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	•	Ау		19	993 863	993 863		31	232 826	232 826	W.W.		
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	Bun		21	380 147.6	358 149'8		50	519 538	525 532	W.W.
			_21	1407	427 1429		30	502 555	508 549	w.w.
	Rum		21	1149. 707.	1122 734		30	95 962	103 954	W.W.cairn
	Ram		21	998 _ 858	9.66 _890_		29	350 707	358 699	Cloth signal over a rock
-	Cap			1115 741	10.81 <u>-</u> 77.4		28	712 345	721	W.W. on Popof
	Bluff_		20_		2114		33		121.2 436.4	
-  -	House	- · · ·	19	1440	1440 416		34	809 249	809 249	L. Hand window
	Wash		19	857_ 999_	857 999		34	829 229	829_ 229	W.W.
-	Cloth		18	232 1624	231,6		35	248_ 811_	248.2 810,4	Intersection station
	Bar .		17	_996	1000 856		35	999	6 <u>8</u> 991	L. Hand near cor. of barn
	Gun		17	1088	1092_ _7.64_		34	696 363	704 355	W.W.
	How		17	1848	16 1840		34	435 624	451 608	W.W.
	Beef_		17	5 . 1851	13.9		.34	443 616	459,3 592.8	Intersection station
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De]		20	925 1 <b>5</b> 28	925.	32		1007	43 3 A L		    -
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Ве	-	20	1088 768	1088 768	32	250 808	250 808	W.W.o	n outly-	
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Win		22	1570	1570	31	797	797-	.W.W.		_
Wet	<u> </u>	22	1476 380	1476	31	932 124	932_ 124_	Mouth stream		
Haw	· · · · · · · · · · · · · · · · · · ·	22	1761	1761	32	.65	65	w.w.		-
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