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U. & G. SURVEY L. & A. -JAN 30-1917--Aco. Mo.

Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
State;
11-5613
DESCRIPTIVE REPORT.
Lop. Sheet No. 3635.
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LOCALITY:
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CHIEF OF PARTY:

Coast and Geodetic Survey,

E. Lester Jones, Superintendent,

A Descriptive Report to Accompany Topographic Sheet "#4"

Port Bazan - Waterfall Bay.

West Coast of Prince of Wales Island.

S. E. Alaska.

August - September 1916

By Party on Steamer "EXPLORER"

F. H. Hardy, Assistant, Chief of Party.

Limits: -

This sheet covers that part of the shore line of the western coast of Dall Island, included between Port Bazan and Capp Augustine. The scale is 1:20000.

General Character of the country: -

This country as it appears on approaching it is very rough and rugged. The mountain tops, the highest of which is slightly over twenty-six hundred feet, are very definite and show up exceptionally well from the outside. During the summer months, these peaks are entirely free from snow. Throughout the island are found numerous ravines and slides, the latter being for the most part wooded chec. These two factors, combined with a generous amount of undergrowth, make mountain climbona hard proposition. As the trails, there are none except for a few belonging to the wild animals that abide there. Of these it may be said that deer are, by far, the most plentiful but there are also a few representatives of the bear and wolf families.

The mountains including the peaks, are generally covered with trees, extending down to the high water line or, as in some cases, to within a few feet of it. There are a few bare peaks and occasionly a small patch of grass is seen, usually on a ridge. The trees on the Island cosist of spruce, hemlock and cedar, the latter making up about one half of the whole supply. Then, too, there are a few specimens of the yellow cedar. The size of the trees varies and it would seem that they are smaller near the coast and assume larger proportions further in-land.

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General Chartacter of the Coast:

The shore line of the outside coast cosists of printipally of rocky cliffs varying in height from a very few feet to perhaps forty or fifty. This part of the shore-line is completely exposed to the westerly swell and wind and, except during fine weather, landings, if able to be made at all, are made with great difficulty. In the bays, the shore-line is for the most part rocky but there are no high cliffs similar to those found outside. On the south shore of Gold Harbor, there is small bight about half way between the entrance and head of the bay and here is found a small sand beach. At the head of Goose Neck, too, some sand can be seen on the beach but, aside from these two places, the shore-line is composed entirely of rocky formations.

There are only a few off-lying rocks or islands along the coast except for the small bays just south of Goose Weck and here they are quite numerous. On these vegetation is scarcely noticeable, the islands for the most part being composed of solid rock.

There are several indications of marble around this part of the Island, there being deposits both near the triangulation station "Marble" and at the head of Waterfall Bay. Hear the latter place a marble claim has been staked out. It is impossible to say of what quality this marble is or to what extent it is found but the fact, that for several years assessments have been paid uponthis claim, would show that there is evidently some value attached to it.

Dangers: -

Of the dangers along this coast, perhaps the most prominent one is the breaker in the entrance of Gooseneck Harbor. It is located about one hundred and seventy five meters from the small island lying just off the southern shore of the bay and bears about w. ½ N. (true) from that island. This breaker being surrounded with kelp when the survey was made, could be seen easily. It breaks only over a very small area and bares at low water springs. When entering the bay the breaker should always be left on the starboard hand.

The head of Gooseneck, beginning with the signals Shak and Bak, is very foul. Shoal water extends over this entire area with rocks frequently occuring. Did not even take the launch into this part of the bay but used the skiff entirely.

Along the entire coast of this stretch of the country, kelp is of common occurence as shown on the sheet. The largest bed occurs in the entrance of Gold Harbor, extending from the north shore perhaps five hundred meters out into the bay. This area is very fourthere being found here several rocks which bare at certain stages of the tide. Here too, the skiff was used entirely.

In the summer months the prevailing winds along this coast are westerly, switching to south-east very suddenly and quite frequently

Descriptive Report to Accompany Topographic Sheet "#4"

However, in the winter months, th south winds are common. Fog, throughout the summer, is of frequent occurence.

Land marks:-

There are, on this sheet two land marks that stand out very prominently, namely, the slide at Gold Harbor and the two bare mountain peaks between the heads of Gold Harbor and Waterfall Bay.

The slide at Gold Harbor is located on the north shore of the bay, just a short distance from the entrance. The slide is absolutely bare and shows up very prominently when approaching it from the southerly direction. It can probably be seen for fifteen miles. The slide is about three hundred meters inshore, perhaps one hundred meters wide and approximately three hundred meters in length. The elevation of the top of the slide is one thousand five hundred and sixty feet.

The two mountain peaks, referred to as "Twin" Peaks, are about midway between the heads of Waterfall Bay and Gold Harbor. They are nearly five hundred meters apart and are both devoid of all vegetation. The more western one is the higher, its elevation being two thousand, six hundred and twenty two feet, while the other has one of two thousand six hundred and three. Both peaks are very sharply defined and can be seen from all directions at sea for miles. The formation of these peaks consist of solid rock and this appears to extend down to about the seventeen hundred foot contour, when the country becomes densely wooded. These two peaks are the highest ones along the coast between Capes Huzon and Augustine.

At the head of Gooseneck Harbor a wooden building is located belonging to Mr. Roy Thompston of Ketchikan. The building is used as a saltery during the fishing season. There is also a landing in connection with the building and launches drawing perhaps six feet can safely get along side. Pipe lines bring water from a near by stream to the saltery, affording it an excellent place for small craft to take water.

While doing the topographic work in Gooseneck, the saltery was used as a camp, making it very comfor table for all concerned and doing away with the necessity of pitching tents.

In waterfall Bay, at the extreme head, is a good sized shack owned by those interested in the marble claim spoken of previously in this report. While doing work in this vicinity, the shack was used as a cook house, there being a small stream of water near by. In this bay, the prominent waterfall shown on the sheet on the north side of the bay, not far from the entrance, is a very good place to water up.

Methods used: -

On this sheet the control was excellent. The signals were determined by intersections and were so numerous that little traversing was necessary.

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In Gooseneck azimuths to a great number of the stations were taken from signals "To" and "Sate" which gad previously been determined from by intersections from triangulation stations "Goose" and "Neck" and of course checked by rod readings.

In Gold Harbor, the station "Rut" was determined by intersections from triangulation signals "Marble" and "Gold" checked. by rod readings and from this station, azimutha were taken to practically all the signals in the bay, even to those at the extredme head.

At Waterfall the tringulation signals could not be seen much further than the large wooded Isl-and but, the control was good, due to the closeness of the stations.

Gooseneck Harbor was worked during rainy weather but the remaining work of the sheet was done during favorable weather conditions. The two mountain peaks at the head of Gooseneck were marked indefinite because very poor intersections were obtained, the angles being extremely accute. The one hundred foot contour was used throughout the sheet.

Respectfully Submitted,

W.H. Clark

Aid, Coast & Ceodetic Survey,

Approved and Forwarded.

Assistant, C. & G. Survey,

Commanding Stmr. "EXPLORER"

STATIONS OF HYDROGRAPHIC SHEET No. 4

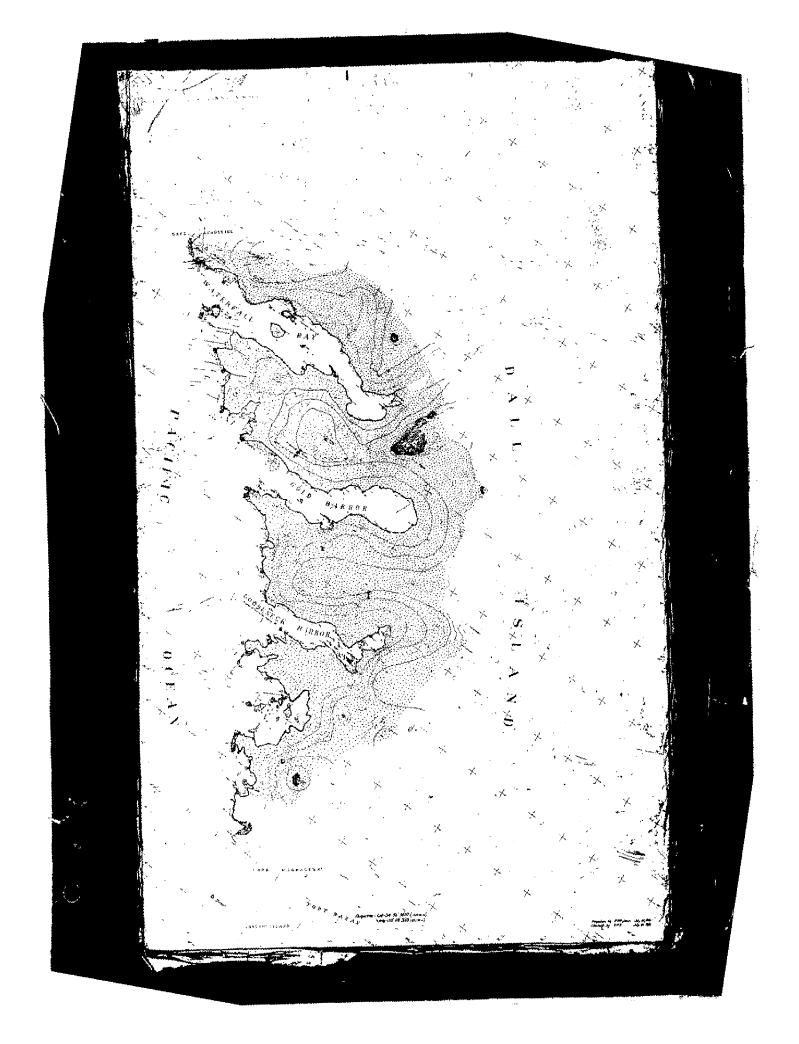
West Coast Dall Island, S. E. Alaska.

Party on Steamer "EXPLORER" Season 1916

	F.	H.	Hardy,	Commanding.	
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Stations	. Lat	. D M's		Long		. DP's	Remarks
Ah	54 56	1300		133	09	568 🗸	
Al	54 56					50 - 674	Marked
Am	54 5			133		430	
Ant	54 5!			133		10	
As	54 50			133		1055	
Bal	54 53			132		940	
Bak	54 5			133	00	300	Marked
Ban	54 5			133	01	375	
Base	54 53	3 1125		132	59	1020 -	
Bay	54 50	6 1457		133	09	784	Triangulation "
Ве	54 5	6 1405		133	09	221	
Ben	54 5	6 1345		133	03	302	
Big	54 5	6 1605		133		535	
Bib	54 5	5 1282		133	01	828	Marked
Bill	54 50	0 636		133	00	939	Marked
Bob	54 5	3 90		133	01	945	
Bug	54 5	5 745		133		885	
Brik	54 5	6 1162		133		410	
Brod	54 5	6 575		133		245	
Bre	54 5			133		480	
Bub	54 5	2 1555_		133		650	
Buc	54 5	3 888		133		134	Marked
Bun .	54 5			133		210	marked
Bur	54 5			133		880	
But	54 5			133		755	marked
Ву	54 5			133		185	
Cal	54 5			133		495	
Can	54 5			133		25	Marked
Cape	54 5			133		1017	Triangulation "
Cot	54 5			133		692	marked
Cen	54 5			133		770	
Core	54 5			133		200	
Cro	54 5			133		350	
Dau	54 5			133		955	
Day	54 5			133		435	
Def	54 5			133		380	
Den	54 5			133		90 -	252-2
Do	54 5			133			Marked
Don	54 5			133		365	
Dot	54 5			133		600	
Dub	54 5			133		310	
Dun	54 5			133		930	
Er	54 5			133		475	Morrisod
Ex	54 5	56 1590		133	04	680	Marked

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West Coast Dall Island, S. E. Alaska.

Party on Steamer "EXPLORER" Season 1916

F. H. Hardy, Commanding.

					7		T	D!-		Damasina
	Stations .	Lat	•	D M's	. Long		. D	P's	•	Remarks
	73-7	54 56		1465	133	03		345		
	Fal			145	133			135		
	For	54 55						972		Triangulation
	Foul	54 55		359	133					
	Fus	54 53		748	133			655		Marked -
	Gam	54 53		13555	133			255		73 * - 3 * 1
	Gold	54 54		813	133			254		Triangualtion
	Goose	54 52		1005	133			125		Triangualtion
	Gum	54 56		495	133			680		
	Ha	54 56		1460	133			985		
	Hig	54 56		945	133			780		
	High	54 55		1555	133			945		Marked
	Hut	54 53		1040	133	00		495		
	In	54 54		1275	133			745		
T	t Isle 54-56	54 56	535	1570 T3	3-06133	06	05	853		Marked
	Kat	54 56		1540		07		212		
	Ke	54 53		325	133	00		405		
	Ke1	54 55		85	133			485		
	Ko	54 53		450	133			772		Marked
	100	54 51		1535	133			170		
L	ar Lam	54 52		580	133			490		
L	em Let	54 56		465	133			1015		
	Lip	54 55		550	133			1015		
	Lit	54 57		90	133			1024		
		54 57		105	133			270		
	Log	54 55		1395	133			735		
	Low			785	133			745		
	Mag	54 53			133					
	May	54 53		490				675		
	Met	54 54		1190	133			580		
	Mis	54 56		1250	133			190		
	My	54 53		1125	133			340		(Day 2 and 2 and 2 and
	Marble	54 54		1846	133		52	532		Triangulation
	Na	54 53		470	133			300		
	Nab	54 58		1325	133			445		35
	Nar	54 56		1305	133			915		Marked
	Neck	54 53		590	133			338		Triangulation
	Net	54 53		685	133			950		
No	b Nip 54-54	54 55	57		33-05133	03	00	290		Marked
	On	54 56		595	133			580		
	Pan	54 51		80	133 133	01		245		
	Pat	54 54		12,75						m • T • 1 •
Pe	k Patch 54-52				33-02133		90	1059		Triangulation
	Pen	54 54		490	133			560		
	Pil	54 55		730	133			400		
	Pile	54 55		275	133			740		
	Pit	54 52		475	133			995		
	Point	54 56		890	133	05		580		
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	7			(concru	uou /					

West Coast Dall Island, S. E. Alaska.

Party on Steamer "EXPLORER" Season 1916

F. H. Hardy, Commanding.

s	tations .	Lat .	D M's	Long	. DPs:	Remarks
	Pol	54 56	1485	133 04	370	
	Pow	54 55	30	133 04	540	Marked
	Puk	54 5 3	1535	133 00	10	••
	Pan	54 51	725	133 01	1025	
Rek	-244	54 56	660	133 08	160	
	Ris	54 55	745	133 02	515	
	Rock	54 56	1244	133 05	975	Marked
	Run	54 56	800	133 04	55	Marked
	Rut	54 54	1200	133 04	1040	Marked
	Sam	54 56	578	133 06	840	. ,
	Sap	54 54	1035	133 04	715	
	Sat	54 56	1255	133 06	572	
	Sate	54 53	582	133 02	273	Marked
	Sau	54 54	1400	133 03	835	* •
,	Say	54 53	650	133 02	615	
	Shak	54 56	1545	133 02	915	
	Sig	54 56	965	133 04	405	•
	Som	54 53	1010	133 01	285	
	Spot	54 55	1348	133 04	119	Triangulation
Ter	Stake 54 56	54 56 I652	1185 133-0	3133 03	1849 945	
	Tin	5 4 5 3	1070	133 03	7 80	
	\mathtt{Tip}	54 51	677	132 59	94 9	Triangulation
	To	5 4 5 3	6 3	133 02	312	Marked
Tol	Tod 54-51	<u>54 55 I500</u>			580 105	
	\mathtt{Top}	54 54	1215	13 3 04	130	
	${ t Tooth}$	54 56	1115	133 04	750	
	${f Tre}$	54 51	1680	133 01	865	
	Tri	54 55	852	133 00	942	Marked
	Tuk	54 55	1466	133 03	40	Marked
	$\mathtt{U}\mathbf{p}$	54 53	1552	133 04	55 /	Marked
	Vas	54 50	1395	133 01	330	Marked
	Water	54 56	194	133 08	719	Triangulation
	White	54 56	1175	133 03	230	
	Ψу	54 53	43 0	133 00	250	
	Yat	54 53	565	133 01	130	
	Yes	54 53	280	133 01	52 0	
	Yu	54 53	235	133 00	300	

レえ. C.W.

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.

Register No. (4) 36.35

State Alaska, South East.

General locality West Coast Dall Island,

Locality From Port Bazan North to Cape Augustine.

Chief of party F. H. Hardy, Ass't. C. & G. Survey.

Surveyed by H. B. Campbell, Ass't. and W. H. Clark, Aid.

Date of survey August 1st, to September 11th, 1916.

Scale 1 to 20,000

Heights in feet above Mean High Water.

Contour interval 100 feet.

Inked by W. H. Clark, Lettered by W. H. Clark,

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Remarks: List of D.M. and D.P. of Stations located for hydrographic use attached.