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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State:

DESCRIPTIVE REPORT.

Typ. Sheet No. 3 5 37.

LOCALITY:

191

CHIEF OF PARTY:

CGQ

3537

DESCRIPTIVE REPORT

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ACCOMPANY TOPOGRAPHIC SHEET No. 35-37.

of

PONDS BAY, CAT PASSAGE, CAT ISLAND, REEF HARBOR,
DANGER PASSAGE, AND SOUTH SIDE OF MARY ISLAND,
SOUTHEASTERN ALASKA.

WORK DONE UNDER INSTRUCTIONS FROM
THE SUPERINTENDENT,
DATED MARCH 24, and APRIL 30, 1915.

SEASON 1915.

Party of U S S McARTHUR,.

C. G. Quillian, Assistant, C. & G. Survey,

Chief of Party.

TOPOGRAPHY BY
Revoe C. Briggs, Aid, C. & G. Survey.

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DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET No._____OF PONDS BAY, CAT PASSAGE, CAT ISLAND, REEF HARBOR,

DANGER PASSAGE, and SOUTH SIDE OF MARY Id.

The topography on this sheet is done on a 1/10,000 scale, and is included between parallels 54° 57', and 55° 04'; and meridians 131° 09', and 131° 21'.

- GENERAL DESCRIPTION -

The territory shown on this sheet is for the most part low, thickly wooded with fir timber, and possesses a very broken shoreline. The peninsula forming the northeastern corner of Duke Island has the highest elevation shown on the sheet. Its surface consists of rounded hills and knolls all heavily wooded. Grave Hill, with an elevation of 510 feet to tree tops, is the highest of these.

cat Island is uniformly low and thickly timbered. The higher tree tops at the north end of the island have an elevation of about 190 feet.

Cat Passage, between Duke Island and Cat Island, and Danger Passage, between the latter and Mary Island, contains several small islands, numerous rocks and reefs, and should not be attempted by any except small boats piloted by some one with local knowledge.

Pond's Bay, separating Dog Island from Duke Island, on the southeastern side of the former, is well protected, offers good anchorage, and is deep enough for any ship. However, it is of small importance except to small craft on account of the dangerous approach. The entrance into Dog Bay bares about two feet at low tide, and the north entrance opens into Cat Passage with its numerous rocks and reefs.

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DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET No. POND'S BAY, CAT PASSAGE, CAT ISLAND, REEF HARBOR, DANGER PASSAGE, and SOUTH SIDE OF MARY ISLAND.

- DETAILED DESCRIPTION -

Pond's Bay is about two and one-half miles long and varies in width from about one-quarter of a mile at the northeast entrance to three-quarters of a mile at the lower end, opposite the passage into Dog Bay.

Pond's Bay contains several small wooded islands, but is surprisingly free from rocks and reefs. The only ones of consequence are two rocks just inside the narrowest part of the entrance and on the west side. The outer one of the two is about one-third of the way across towards the east side. Much of the shoreline is steep-to, but in the lower end there is some stony beach and several salt water lagoons (drying at low tide) opening off the bay. Muf Island, a low wooded one a mile northeast of the entrance to Pond's Bay, is connected with Duke Island at low tide, and extends a reef one-third of a mile in the direction of Pond's Bay.

Cat Passage and Village Island have been described in the report accompanying Sheet No. 3471.

Reef Herbor is the name given to the waters lying between the Duck Islands and Duke Island. The first half of the name is more appropriate than the second, although parts of the harbor would serve as very good shelter for small boats. In entering from the south the reefs off the south end of the smaller of the two main Duck Islands should be given special attention, as one extends off shore about six hundred meters. There is also a reef on each side of the northern entrance. One is 300 meters N. NE. of Station "BOR," on the north end of large Duck Island, and the other 175 meters off shore from Grave Point, in line with Station "BOR."

There are numerous rocks and reefs off the south side of Cat Island. A reef extends about one hundred and thirty meters south of the outermost of the islands off the southeastern end of Cat Island. The east shore of Cat Island north of these islands has only one off shore rock and that close enough in not to be dangerous.

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET No. 3537
POND'S BAY, CAT PASSAGE, CAT ISLAND, REEF HARBOR,
DANGER PASSAGE, and SOUTH SIDE OF MARY ISLAND.

Bird Island is not prominent as it has a maximum height of about twenty feet above high water and is tree-less.

Fripo Island is low and heavily wooded and has considerable tidal area. On the north and southeast sides, and also opposite Cat Island, reefs project out from one hundred and thirty to one hundred and seventy meters beyond the high water line.

Lane Island should also be given a wide berth on the south, where there is a low water ledge extension of two hundred and forty meters from the high water line.

Similar reefs and two rocks are found off the north point of Cat Island. The rocks are only about one hundred and fifty meters off shore, however.

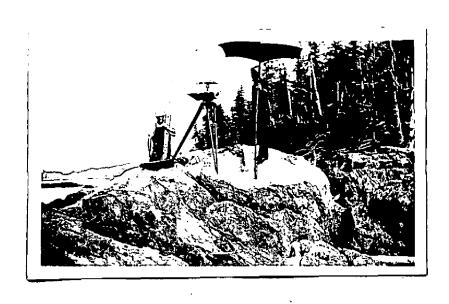
Cat Island Anchorage is the name applied to the cove in the northwest shore of Cat Island. It is a rather poor anchorage as much of it bares at low tide and boats can not enter it far enough to obtain much shelter except from a southeast blow. There are also several rocks in the cove and the only very safe anchorage is outside a line drawn from the tide gauge location to the small peninsula on which Station "MAN" is located.

The south shore of Mary Island is foul and should not be approached except by those possessing local knowledge. All rocks showing at ordinary low water in this locality were rodded in and shown on the sheet and are too numerous for individual mention.

Mary Island has no special features. It was entirely re-surveyed during the 1915 season. The south side is shown on this sheet, part of the west side on Sheet No. 3471, the east side on Sheet No. 3548, all on a 1/20,000 scale. The northwest and north sides are shown on a 1/10,000 sheet called Custom House Cove Sheet. #3782 It is very low and heavily wooded and has no streams of any importance.

Net Island is similar to the others in this vicinity, low and thickly wooded, connected with Mary Island at low water and has considerable tidal area on the east side.

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Plane table party at station Net. S. side Mary Id.

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DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET NO. POND'S BAY, CAT PASSAGE, CAT ISLAND, REEF HARBOR, DANGER PASSAGE, and SOUTH SIDE OF MARY ISLAND.

- SURVEY METHODS -

The locality shown on this sheet was mapped with Plane Table Outfit No. 24, and Alidade No. 137. The projection was made and triangulation signals plotted before the topography was done.

Very little traverse was necessary owing to the number of triangulation signals. The longest rod readings were about eight hundred meters, with very few over six hundred meters.

Pond's Bay was controlled by plane table triangulation starting from triangulation stations "MUF," "DAY," and "BOW;" ending up at stations "LONG," and "SUIT;" previously located on Sheet No. 3471. They failed to check by about seventy meters. The necessary adjustment was put in between Stations "SMILE," on the one sheet and "DEEP" on the other. Stations "LONG" and "SUIT," are shown in their adjusted positions on each sheet.

A dinghy, powered with a Caille outboard motor, was used in this work and proved very satisfactory.

- NEW PLACE NAMES -

- (a) Well established local names:
- (b) Names assigned by field officers:

Cat Passage.
Muf Island.
Bird Island.
Net Island.
Tom Island.

Respectfully submitted,

Revoe C-Briggs.
Aid, C. & G. Survey.

RCB/MDG.

PLANE TABLE POSITIONS TO ACCOMPANY DESCRIPTIVE REPORT OF TOPOGRAPHIC SHEET NO.___ POND'S BAY, SCALE 1/10,000

	LAT.	D.M.	LONG.	· D/P.	HEIGHT FT. ABO	
STATION	0 1	METERS	0 1	METERS	H. W.	REMARKS.
Деер	54 - 58	542 1313	131 - 20	888 179	0	Braced pole sig. Copper bolt.
Stuff	54 - 58	3 28 152 7	131 - 20	350 71 7	3	Cement around center pole. W.W. net
		1447		966		
Why	54 - 57	408	131 - 20	102	1	W.W. Not recoverable
Bel1	54 - 57	930 925	131 - 20	725 343	2	W.W. on large
Nig	54 - 57	1755 100	131 - 19	1056 11	2	Braced Pole Sig. Copper Bolt.
Crow	54 - 58	674 1181	131 - 20	195 872	2	W.W. no permanent mark.
Pup	54 - 58	658 1197	131 - 19	98 4 8 3	4	W.W. no permanent mark.
Si	54 - 58	7 3 9 1 11 6	131 - 19	952 115	. 4 .	W.W. no permanent mark.
Stump	54 - 58	1192 663	131 - 19	644 423	2	Bleached stump, 10 Ft. high.
Fig	54 - 58	1 0 38 817	131 - 19	486 581	2	W.W. No permanent mark.
Pie	54 - 58	9 34 921	131 - 19	199 868	4	W.W. No permanent mark.
Wat	54 - 58	1015 8 40	131 - 19	108 959	4	W.W. No permanent mark.

PLANE TABLE POSITIONS, POND'S BAY, 1915. Page 2.

	LAT.	D. M.	Long.	D.P.	HEIGHT IN FT. ABOVE
STATION	U . !	METERS	. 0	METERS	H. W. REMARKS.
Hit	54 - 58	1035 820	131 - 18	917 150	15 merk. Flag.
Rain	54 - 57	1805 50	131 - 19	748 3 19	W.W. Not permanent 1 mark.
NE	54 - 57	1778 77	131 - 19	173 894	W.W. Not permanent -2 mark.
Prince	54 - 58	254 1601	131 - 18	732 335	Braced pole sig. O Copper bolt.
Sup	54 - 58	809 104 6	131 - 18	3 29 73 8	No permanent mark.
Rek	54 - 58	1220 635	131 - 18	65 1002	Small boulder on o sandy beach.
Bud	54 - 58	18 37 18	131 - 17	575 492	Braced pole sig. O Copper bolt.
Dub	54 - 59	83 1772	131 - 17	392 675	Braced pole sig. O Copper bolt.
Paw	54 - 58	148I 374	131 - 18	715 352	Braced pole sig. 2 Copper bolt.
Deer	54 - 58	1621 234	131 - 18	384 683	Center pole set in O cement.
Ex	54 - 59	203 1652	131 - 17	98 7 80	Cop. bolt. Occupied 2 with theodolite but not cut in by triangu-
Tail	54 - 59	613 12 4 2	181 - 17	974 93	10 Copper bolt in lation
Coat	54 - 59	1288 567	131 - 16	791 276	boulder. Whitewash. Braced cent.pole. O No permanent mark.
Slim	54 - 59	1065 790	131 - 18	909 158	Marked by nail in pat O of cement. Braced pole signal.
Mound	5 4 - 5 9	157 1698	131 - 18	652 41 5	O Copper bolt. Braced pole signal.
Big	54 - 59	1831 24	131 - 18	288 779	1 mark. Braced center
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PLANE TABLE POSITIONS, POND'S BAY, 1915. Page 3.

)	STATION	Lat.	D.M. METERS	LONG.	D.P. METERS	HEIGHT FT. ABO H. W.	VE
)	Sand	55 - 01	891 964	131 - 16	287 779	2	Center pole in cement, on boulder.
ŀ	Eye	55 - 01	381 1474	131 - 16	746 320	2	Braced pole sig. Nail in pat of cement.
	Tem	55 - 00	1162 693	131 - 17	98 968	15	Highest totem pole on Village Island.
	Lon	55 - 00	1 437 41 8	131 - 16	457 609	1	Braced pole sig. Copper bolt.
	Сор	55 - 00		131 - 15	994 72	4	Braced pole sig. (in crevin rock.) Pat of cement,
	Noon	55 - 00		131 - 15	2 47 819	2	No permanent mark.
	Foot	54 - 59		131 - 14	110 956	6.	Braced pole sig. Copper Bolt.
	Har	54 - 58		131 - 14	432 635	10	No permanent mark.
	Tree	54 - 58	,	131 - 14	442 625	15	Flag nailed to small decapitated pine tree.
	Wall	54 - 58	1757 98	131 - 14	740 327	10	•
	Berk	54 - 59	85 1770	131 - 14	432 6 3 5	0	W. W. No permanent mark.
	Cal	54 - 59	307 1548	131 - 14	815 252	. 1	
	Stan	54 - 59		131 - 14	68 0 387	3	**
	Fritz	54 - 59		131 - 14	770 297	3	mark. Braced center pole.
	Hans	54 - 59	807 1048	131 - 15	128 9 3 9	0	Braced pole sig. Copper bolt.
	Rux	54 - 59	1322 533	131 - 14	903 164	3	
	Drop	55 - 01	380 1475	131 - 14	938 128	15	W. W. No permanent mark.

PLANE TABLE POSITIONS, POND'S BAY, 1915. Page 4.

4	•				<u></u>	HEIGHT IN	•
•	STATION	IAT.	D.M. METERS	LONG.	D.P. METERS	FT. ABOVE	
1	Puss	55 - 01	1330 525	131 - 14	403 663		W. W. Not permanent mark.
4	Sat	55 - 01	1537 318	131 - 13	1028 3 8		W.W. Not permenent mark.
	Tart	55 - 01	1785 70	131 - 13	966 100	-1	Braced pole. Copper bolt in crevice in
	Opir	55 - 02	65 1790	131 - 13	144 9 2 2	10	small boulder. Braced pole sig. Copper bolt.
	Man	55 - 01	1556 299	131 - 15	4 0 2 604		W.W. Not permanent
	Goose	55 - 01	9 0 0 955	131 - 15	825 241		Braced pole sig. Copper bolt.
	Воу	55 ~ 01	762 1093	131 - 15	572 494		Mark. Not permanent
	Lob	55 ~ Ol	205 1650	131 - 15	752 314		W. W. on large boulder.
	Mar	55 - 02	1401 454	131 - 11	220 8 4 6		Braced pole sig. Copper bolt.
	Edge	55 - 02	1085 770	131 - 11	744 322		W. W. No permanent mark.
	Net	55 - 02	1196 6 5 9	131 - 12	869 197		W. W. No permanent mark.
	Jug	55 - 02	1768 8 7	131 - 12	967 99		W. W. No permanent mark.
	Но	55 - 03	517 1338	131 - 13	914 151		Braced pole sig. Copper bolt.
,	Lam	55 - 03	950 9 0 5	131 - 13	1019 46		W.W. No permanent mark.