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Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: Southeast Alaska

11-5013

DESCRIPTIVE REPORT.

field No 2

Topographic Sheet No. 4099

LOCALITY:

Clarence Straits

Upper

Kasaan Bay and Entrance to

Twelve Mile Arm.

1912
1924

CHIEF OF PARTY:

E. B. T. Siems.

Descriptive Report

to accompany

Topographic Sheet No. 4099

1. The following is a descriptive report of Topographic Sheet No. 4099, showing a survey of Parts of Kasaan Bay and the Entrance to Twelve Mile Arm, carried on under instructions to the Commanding Officer, U.S.C. & G.S.S. Explorer, dated April 19, 1924.

2. General Description of Coast.-- The shore line of Kasaan Bay and Twelve Mile Arm represented on this sheet is generally abrupt and densely wooded. The delineation of the low water line and bluffs will show without requiring comment some localities not so abrupt as others.

Baker Point lies just across the bay south true from the Kasaan Cannery, and is distinguishable by two small off-lying islands. About three miles west of Baker Point is Coal Bay, which affords anchorage. The shores of Coal Bay are not abrupt, and the wooded point to the westward between Coal Bay and Kina Cove is low. Two reefs lying off this point bare at about half tide. These reefs extend about 700 yards off the point in a northeasterly true direction. Especial attention is called to these reefs because they must be avoided in entering either Coal Bay or Kina Cove for anchorage. The shores of Kina Cove are more abrupt than those of

Coal Bay, and more reeey, but the cove is clear save for the reef lying about 100 yards off shore on the west side just inside the inner point.

Outer point is a rocky promontory about 200 feet high on the southeast shore entering Twelve Mile Arm. and lies between Kina Cove and Twelve Mile Arm. An island lies just off the point to the northeast. There are reefs extending about 150 yards off the Twelve Mile Arm side. The shore between Outer Point and Jarvis Islands is clear.

Jarvis Islands lie about one mile below Outer Point. Their shore line is abrupt like the general shore line. The first of Jarvis Islands is a small grass-covered rock about 600 yards from shore. There is a shoal of $1 \frac{5}{6}$ fathoms about 300 yards northwest of this rock or island. A small almost round island stands out from this group. It is about 100 yards in diameter, and wooded, the tree tops being about 200 feet high. There is a reef about 50 yards in diameter off the north shore of this island. To a ship entering Twelve Mile Arm this reef appears as two rocks lying off the island except at very low water. At very high water the reef is covered.

Below Jarvis Islands the shore line runs almost north and south for a mile and one half, thence westerly to a point opposite Hollis Anchorage for another mile and one half.

The shore line is abrupt and jagged with an occasionally off-lying reef, but the water is clear at 100 yards from the high water line. There is a three fathom shoal in the small bight a mile and one half south of Jarvis Islands.

^y
Sandy Point is a low-lying wooded point on the northwest shore entering Twelve Mile Arm. A reef about 300 yards wide extends off the point in a southeasterly direction for about 500 yards. The approximate center of this reef is marked by a flat island, only about four feet high, and scarcely visible at high water. The immediate vicinity of this reef is shoal and rocky. There is a large fish trap just inside of Sandy Point, built in 1924.

For a mile to the southwestward of Sandy Point, the shore line extends into two small bights. The shore is reefy with off-lying rocks- none over 200 yards from high water. Below this point the northwest shore is clear to the entrance of Hollis Anchorage.

Just north of Loy Islands is a bight which contains two rocks awash at low tide. These rocks lie about one third the distance between the large island on the south and the shore on the north. Farther back in this bight is a sunken rock, and still farther back, a reef awash at low water. On account of the rocks there is no anchorage.

From Sandy point to Marta Bay the shore line is not so abrupt as elsewhere. Pure white sand can be scraped up in patches on the north side of Sandy Point- the only sand noticed on the shores of this bay any where.

Karta Bay is a fishing ground. Several Indian families live on the shores of the bay. The shore line is rather steep. The bay affords anchorage. The hulk of an old vessel is always visible at the mouth of the river entering the bay. This vessel ran on a rock and was beached here.

Just west of Kasaan Cannery on the north shore of Kasaan Bay are two homesteads. The shore here is reefy and the low water line extends out considerably. Small vessels anchoring near or running along this shore should be careful of the reefs.

3. Elevations.-- All elevation^s are referred to mean sea level. All elevations are to tree tops. Form lines show the general configuration of the country covered with woods as seen from seaward.

Fred E. Joekel

Approved;
F. E. Joekel
C. & G. Survey Comd'g.

LIST of POSITIONS

to accompany

TOPOGRAPHIC SHEET No. _____

Scaled on Kasagan Bay Datum.

Geographic Positions of Signals
on
Topographic Sheet No. ---

Signal	Lat.	"Lat	Long	"Long
Fat	55-28	+1021.0 -29 - 835.0	132-38 -39	+164.0 -890.0
Bad	55-28	+547.0 -1309.0	132-36	+816.0 -238.0
Wat	55-28	+813.0 -1043.0	132-35	+279.8 -774.2
Ret	55-28	+971.0 -884.6	132-35	+832.5 -221.5
Rem	55-28	+937.8 -917.8	132-35	+89.5 -963.5
Sot	55-28	+1140.6 -715.0	132-34 -35	+675.5 -378.5
Tuk	55-28	+702.1 -1153.5	132-34 -35	+278.2 -775.8
Nif	55-28	+1803.6 -52.0	132-33	+956.5 -97.5
Cal	55-29	+1527.5 -328.1	132-33	+669.0 -384.5
Cut	55-30	+1247.1 -608.5	132-32	+534.0 -519.1
Lem	55-30	+869.8 -985.8	132-32	+92.3 -960.8
Rat	55-30	+1521.4 -334.2	132-31	+692.5 360.6
Nin	55-31	+96.6 -1758.9	132-31 -32	+578.2 -474.8
Mill	55-30	+1526.4 -329.7	132-30	+951.9 -101.1
Tob	55-30	+344.0 -1511.6	132-31	+12.5 -1040.5
Bow	55-29	+1070.3 -785.3	132-31	+882.8 -670.5
Win	55-29	+1577.3 -278.3	132-31	+436.8 -616.5

Run	55-29	+1649.7 -1205.8	132-31 -	+1341.9 -711.7
Mat	55-29	+889.0 -966.6	132-31	+04.5 -1048.9
So	55-29	+1696.1 -159.5	132-30 -31	+898.5 -265.4
Ball	55-30	+755.9 -1099.7	132-30	+285.8 -767.5
Dam	55-30	+302.0 -1553.6	132-30	+649.0 -404.4
LoV	55-30	+753.8 -1102.8	132-30	+901.0 -152.2
Bet	55-30	+67.9 -1787.7	132-29 -30	+661.8 -391.5
Rub	55-29	+1485.8 -369.8	132-30	+62.5 -990.8
Min	55-29	+1362.8 -492.8	132-29	+732.3 -321.0
Sig	55-29	+1611.0 -244.6	132-29	+188.8 -864.5
Log	55-30	+488.6 -1367.0	132-28 -29	+943.8 -109.5
Not	55-30	+611.8 -1243.8	132-28	+462.0 -591.3
Did	55-30	+585.3 -1270.3	132-27	+1001.2 -52.1
At	55-30	+424.6 -1431.0	132-27	+1022.5 -30.8
Nog	55-30	+528.5 -1327.1	132-27	+811.6 -246.7
Rose	55-30	+943.0 -912.6	132-27	+712.0 -341.3
Sir	55-30	+1175.4 -680.2	132-26	+822.8 -230.5
Rex	55-30	+1495.0 -360.6	132-26	+227.5 -825.8
Tar	55-30	+1341.5 -514.1	132-25	+581.3 -472.0

Ear	55-30	+1664.0 -191.6	132-25	+318.5 -734.5
Do	55-32	+1756.6 -99.0	132-25	+817.0 -236.0
Ice	55-33	+55.6 -1800.0	132-25	+1031.0 -22.0
Let	55-32	+1662.7 -192.9	132-26 -27	+386.0 -667.0
Bell	55-33	+160.8 -1694.8	132-26	+851.3 -202.0
Fog	55-33	+339.9 -1615.7	132-27	+1026.5 -268
Bill	55-33	+969.4 -886.2	132-27	+1002.0 -51.3
Sat	55-33	+1605.2 -250.4	132-26	+377.5 -675.5
See	55-34	+1755.5 -100.1	132-33	+769.0 -384.0
Hit	55-35	+250.0 -1606.0	132-34	+174.0 -879.0
An	55-34	+1683.0 -173.0	132-34 -35	+165.0 -888.0
In	55-34	+1405.0 -450.6	132-34 -35	+39.7 -1013.6
Get	55-34	+948.5 -907.1	132-33	+928.3 -125.0
Time	55-34	+879.0 -977.0	132-34 -35	+946.0 -687.0
Bear	55-34	+487.0 -1369.0	132-34	+956.0 -950
Wolf	55-34	+158.0 -1698.0	132-34	+763.0 -290.0
She	55-34	+52.0 -1804.0	132-34	+32.0 -1021.0
Him	55-33	+1653.0 -203.0	132-34	+140.0 -913.0
Hulk	55-33	+1640.0 -216.0	132-34	+433.0 -620.0

Seat	55-33	+1547.0 -309.0	132-34	+614.0 -439.0
Cart	55-33	+1767.0 -89.0	132-34	+766.0 -287.0
Ink	55-34	+119.0 -1757.0	132-33	+882.0 -171.0
Sum	55-33	+1569.0 -287.0	132-33	+247.0 -806.0
Rat	55-33	+1159.0 -697.0	132-32	+78.0 -980.0
Car	55-33	+22.0 -1834.0	132-31 -32	+874.0 -179.0
Mit	55-32	+1553.0 -303.0	132-32	+448.0 -605.0
Beq	55-32	+1088.0 -768.0	132-32	+417.0 -636.0
Sin	55-32	+616.0 -1240.0	132-32	+863.0 -200.0
Rob	55-31	+935.0 -921.0	132-33 -34	+962.0 -91.0
Ton	55-31	+483.0 -1373.0	132-34	+81.0 -972.0
Cow	55-30	+1066.0 -790.0	132-34	+768.0 -285.0
Dan	55-30	+806.0 -1050.0	132-35	+72.0 -981.0
Muf	55-30	+282.0 -1574.0	132-35	+457.0 -576.0
Sip	55-29	+1523.0 -333.0	132-35	+176.0 -877.0
Mel	55-29	+1221.0 -635.0	132-35	+334.0 -676.0
Reg	55-29	+1221.0 -635.0	132-35	+909.0 -144.0
Dot	55-29	+1131.0 -725.0	132-35	+238.0 -815.0

Flo	55-29	+844.0 -1012.0	132-37	+201.0 -862.0
Hin.	55-29	+552.0 -1304.0	132-37	+632.0 -421.0
Hai	55-29	+340.0 -1516.0	132-37	+291.0 -762.0
Top.	55-29	+176.0 -1680.0	132-36	+749.0 -304.0

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

field No. 2

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.

4099 No. 2

State . . . Southeast Alaska

General locality . . . ~~Clarence Straits~~ Prince of Wales Island. ✓Upper
Locality [^] Kasaan Bay and Entrance to Twelve Mile Arm. . . .

Chief of party . F.B.T. Siems.

Surveyed by . . Fred E. Joekel

Date of survey . . June 1924

Scale . . 1:20,000

Datum: Kasaan Bay (see triangulation)

Heights in feet above . Mean Sea Level.

~~Form line~~~~Contour~~ interval . 100 . feet.

Inked by . Fred E. Joekel lettered by . Fred E. Joekel. . . .

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet

Remarks: