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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

O. K. Pittman
Superintendent.

State: *Alaska*

DESCRIPTIVE REPORT.

Top Sheet No. *3466*

LOCALITY:

Kapmanof Harbor
Orkunak Bay and
Kapman I.

1914

CHIEF OF PARTY:

J. B. Miller

11-4645

3466

DEPARTMENT OF COMMERCE
Coast and Geodetic Survey,
O.H.Tittmann, Supt.

ORIGINAL TOPOGRAPHIC SHEET (X) 3466
ALASKA PENINSULA

Plands of KARPA ISLAND, GRZINSKI BAY, AND KUPREANOF HARBOR

Scale, 1:10000 and 1:20000

Plane-table survey by the party on the C. & G. S. S. PATTERSON

J.B.Miller, Assist., C. & G. Survey, Chief of Party

J.B.Miller }
A.M.Sobieralski) Assist., C. & G. Survey, topographer

1914

34 topographic stations
34 signals located
19.5 statute miles shoreline
9.0 square statute miles area.

inked by M.E.Lutz.

DEPARTMENT OF COMMERCE
Coast and Geodetic Survey,

O.H.Tittmann, Supt.

A DESCRIPTIVE REPORT ON TOPOGRAPHIC SHEET X .
PLANS OF KARPA ISLAND, ORZINSKI BAY, AND KUPREANOF HARBOR.

ALASKA PENINSULA.

Surveyed by the party on the Steamer PATTERSON, J.B.Miller, Commanding
Season of 1914.

KARPA ISLAND, scale 1:10000

KUPREANOF HARBOR, " 1:10000

²
ORZINSKY BAY, " 1:20000 - total $19\frac{1}{2}$ square statute miles
Unalaska Datum.

I have the honor to report as follows on topographic
sheet X, showing certain important features along the coast of
the Alaska Peninsula, surveyed in 1914 by the Steamer PATTERSON.

The surveys consist entirely of traverses with the plane
table, closed on points located by triangulation. Errors of
closure have been corrected on the sheets. Contours are shown
as far as the nearest commanding ridges of land. *The projections*
are all on the Unalaska Datum.

KARPA ISLAND is 7/10 mile by 1-3/10 miles in extent; and 1373 feet high. It lies in latitude 55° 30' longitude 160° 03', 4 miles northeastward of Korovin Island. It is grass-covered and has a smooth profile. It is a bird rookery; thousands of guillemots and ^uarks nest upon it. The northeast point is a remarkable cliff 900 feet high, and the eastern coast is a precipice. It may be ascended only ~~from~~ ^{South} the ~~North~~ west point. At the south^{west} point is a tower rock 50 feet high and 60 meters offshore. The coast may be approached within 2/10 mile: the southern and southeastern coast has a narrow kelp field, and off the southeast point there is a reef above water, extending 125 meters offshore. The traverse of the shore line depends on ☉ Paw.

KUPREANOF HARBOR lies between PAUL and JACOB ISLANDS, in lat. 55° 47', long. 159° 21'. It is 1-1/10 miles in extent and circular in outline. The western entrance is 7/10 mile wide and the eastern entrance is 4/10 mile wide. There are no dangers to navigation at a reasonable distance from shore. Magnetic observations and tidal observations were made at ☉ Lum, a small islet in the northwestern part of the harbor. The northern point of the entrance has rocky cliffs 40 feet to 90 feet high: the bight of PAUL ISLAND has a black sandy beach backed by a pond, and a semicircular valley enclosed by the hills of PAUL ISLAND. The peak of PAUL ISLAND is 1568 feet high. The eastern entrance has

cliffs on both sides , 40 to 400 feet high. The bight of JACOB ISLAND has a black sand beach at the foot of the mountain slope: the peak of JACOB ISLAND is 1666 feet high. To enter KUPREANOF HARBOR steer 90° (N70E mag.) throught the middle of the entrance, and when the northern point is abeam $3/10$ mile distant steer 44° (N24E mag.) with the peak of PAUL ISLAND right ahead and LEADER ISLAND in range with the tangent of JACOB ISLAND right astern; when the east entrance between PAUL and JACOB ISLANDS is about to open, anchor in 10 fathoms, with the two point of this eastern entrance in range. The survey depends on plane table triangulation verified by a closed traverse: the projection is fitted to points Δ Paul, Δ Jacob, and \odot Alexander. *The magnetic declination is 20° E.*

ORZINSKY BAY lies in lat. $55^{\circ} 43'$, long. $160^{\circ} 04'$; it is marked by WATERFALL POINT on the northeast side and ELEPHANT POINT on the southwest side; it is 2 miles long and 1 mile wide. The waterfall on WATERFALL POINT is on the extremity of the point, in a most unnatural position, and shows on the tangent in profile: the peak back of it is 1895 feet high. ELEPHANT POINT is a sharp ridge 655 feet high with inclined strata breaking off in shear cliffs on the southwest face: off the end of the point are reefs $4/10$ mile long eastward and south^{east}ward, partly dry at low water. A vessel should keep more than 1 mile off it. There is a reef almost in the middle of ORZINSKI BAY, slightly nearer the north shore, abreast of the peak on WATERFALL POINT. There is a codfish station in the southwestern corner of the bay, called ORZENOV, standing on the shore of the stream which drains the lagoon up the valley.

The warehouse may be used as a leading mark for entering: steer for it bearing 296° (N84W mag.), in range with a notch in the mountains behind it, and a rocky peak appearing through the notch on this bearing; beware of the reef off ELEPHANT POINT and favor WATERFALL POINT if in doubt. When abreast of the peak on WATERFALL POINT, beware of the reef on that side, and favor the other shore if in doubt; when past this reef, steer 332° (N48W mag.) for the righthand or northern part of the gravel beach at the head of the bay and anchor in deep water off the low rock cliffs adjoining the beach at its northeastern end, at the opposite corner from the fish station. The survey depends on points Δ Orbenoy, \odot Mes, and \odot Cod: it is a plane table traverse closed on these points.

Respectfully submitted,

James B. Miller.

Assistant, C. & G. Survey,

Chief of Party.

To the Superintendent,

Coast & Geodetic Survey,

Washington, D. C.

Seattle, December 22, 1914.

Topographic Positions
Kupreanof Harbor

Sheet X

Station	Latitude	D.M.	Adjusted	Longitude	D.P.	Adjusted
Low	55° 45	1760 81	1774 81	159° 18'	() 291	(752) 294
Mid	55 46	1115 728	1122 733	159 19	453 586	456 590
Nub White rk.	55 45	89 1755	90 1765	159 18	() 530	(511) 535
Dry	55 46	355 1487	358 1497	159 18	() 446	(596) 450
Was	55 46	1700 239	1714 241	159 19	765 270	773 273
All	55 47	89 1755	89 1766	159 19	711 324	719 327
Wit	55 47	575 1270	578 1277	159 19	920 118	927 119
Lag	55 47	666 1178	669 1186	159 19	961 76	970 76
Beg	55 47	959 884	966 889	159 20	202 832	204 842
Fag	55 47	1141 700	1150 705	159 20	651 384	658 388
Lan	55 47	1056 787	1063 792	159 21	78 960	78 968
Red S.W. Gable, House	55 47	962 880	969 886	159 21	192 847	194 852

Station		Latitude	D.M.	Adjusted	Longitude	D.P.	Adjusted
Ten		55° 47'	920	926	159° 21'	257	259
S.W. Cable, Tent			924	929		782	787
Lum		55 47	697	701	159 21	300	302
			1147	1154		740	744
Nag		55 47	428	430	159 21	511	514
			1418	1425		530	532
Out		55 47	412	414	159 21	572	576
			1432	1441		467	470
Tar		55 47	414	416	159 21	656	660
			1430	1439		384	386
Mit		55 47	570	573	159 21	874	881
			1275	1282		164	165
Rok		55 47	614	617	159 21	949	956
			1232	1238		90	90
At		55 46	88	88	159 19	700	702
			1752	1767		343	344
Big	5 ft.	55 46	653	657	159 20	31	31
			1190	1198		1006	1015
Pot	30	55 46	983	990	159 20	340	343
			859	865		695	703
See		55 46	1047	1055	159 21	334	337
			793	800		705	709
Bet		55 46	843	849	159 22	238	239
			998	1006		800	807

Karpa Island

Station	Latitude	D.M.	Adjusted	Longitudes	D.P.	Adjusted
Paw 50ft. Pinnacle rk.	55° 30'	295 1549	297 1558	160° 03'	960 87	966 87
<u>Orzinski Bay</u>						
Mes Waterfall	55° 43'	540 1300	544 1311	160° 01'	108 924	109 938
Cod W.W. rk.	55° 43'	368 1475	370 1485	160° 01'	779 255	789 258
Pol Pole	55° 43'	1588 259	1595 260	160° 04'	925 114	932 115
Sa1 East Gable Sallery	55° 43'	762 1078	773 1082	160° 05'	657 382	662 385

Applied to compilation 8859 Dec. 1942 J.M.A.