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Form 504	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
L. & A.	
APR 11 1928	
State: <i>Alaska</i>	Acc. No.
11-5613	
DESCRIPTIVE REPORT.	
<i>Topog.</i> Sheet No. <i>4006</i>	
LOCALITY:	
<i>West Coast of Prince of Wales I.</i>	
<i>Warren Island</i>	
1922	
CHIEF OF PARTY:	
<i>T. J. Maher</i>	

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET of WARREN ISLAND,

S. E. ALASKA.

scale - 1:20000

U. S. S. SURVEYOR - T.J.Maher, Chief of Party.

May 8th to June 10th

1922.

DESCRIPTIVE REPORT

to accompany

Topographic Sheet of Warren Island, S. E. Alaska.

General Description of Coast.

Warren Island is about five and a half miles long and three and a quarter miles wide, almost rectangular in shape, rising abruptly from the sea, with numerous peaks, which attain a maximum elevation of 2367 feet above sea level. The island is heavily timbered, the timber line in general being 1800 feet in elevation with nothing but grass or small bush growth above this line, and the higher peaks are conspicuously bare of vegetation. The coast line consists of a rocky shelf, with the exception of very small stretches of sand beach in Warren Cove, and the two tiny coves on the North coast of Warren Island, and the two small stretches of boulder beach, one in the small bight S.E. of \odot Not and the other in the small cove North of Warren Cove.

Landmarks.

The most prominent landmark approaching from seaward is the highest peak, 2367 feet in elevation, in the Northern part of Warren Island. This peak is snow covered usually from about November 1st to June 15th.

Islands.

There is a small rock island about 15 feet in elevation above high water 1.45 miles $206-1/2^{\circ}$ (true) from Δ So. In heavy weather the seas break completely over this rock. A rock 50 feet high lies 165 meters 175° (true) from Δ So. Δ Lichen, \odot Isle, and \odot By are on small rock islands. There is a small rock island 570 meters 291° (true) from \odot Mit, 15 feet above high water, over which the seas break in heavy weather.

Dangers.

The West coast of Warren Island is very foul between \odot Hal and Δ So, rocks which bare at various stages of the tide extending out 50 meters to 250 meters distant from the high water line. Similarly along the South coast there are a number of rocks which extend out 25 meters to 100 meters from the high water line and which bare at various stages of the tide. There is a rock which bares at half tide 164 meters 177° (true)

from \odot Fast. Also a very dangerous rock which bares only at minus tides at the Northern end of the entrance to Warren Cove, 147 meters 180° (true) from \odot To. There is a rock which bares at half tide 196 meters 238° (true) from Δ Lichen, a rock which bares at low tide 276 meters 149° (true) from Δ Guano, and a very dangerous rock which bares only at extreme low tide but which breaks at all times except high tide in very calm weather 1218 meters 263° (true) from \odot Sen.

Kelp.

There is a large amount of growing kelp along the West coast of Warren Island as represented on the sheet. The rocks S.E. of Δ Guano, South of \odot To in Warren Cove, and South of \odot Fast are all marked by growing kelp. The Northern half of the cove North of Warren Cove is occupied by a very dense mass of kelp which is impassable.

Anchorage.

Warren Cove affords anchorage for deep-draft vessels in a depth of from 7 to 9 fathoms with a hard sand bottom. This anchorage, however, is open to the Southeast, and during heavy Southeast weather, a heavy swell makes in here making Warren Cove very unsafe and undesirable as an anchorage.

The small cove North of Warren Cove affords good anchorage for small boats in a depth of 4 to 5 fathoms with mud bottom and excellent holding ground. As the anchorage here is South of the kelp patch and close to the beach, a good lee from Southeast sea and swell is obtainable here, although in heavy Southeast gales the severe wind makes this place also dangerous and undesirable.

There are two small bights near the Northwest corner of Warren Island North of \odot Dot and \odot Lid, which afford temporary anchorage for small boats but are useless in any severe weather or heavy swell.

Control and Methods.

The topography of Warren Island was done by traversing between triangulation stations, such triangulation stations not being more than three miles apart, and these traverses were later adjusted for error.

Respectfully submitted,

A. G. Katz

A. G. Katz,

H. and G. Engineer.

Plane-table Positions.

Object and description.	Latitude	D.M.	Longitude	D.P.	Remarks.
End	55-53	877	133-50	509	White wash on rock.
		979		534	
Fun	55-53	1339	133-51	446	White wash on rock.
		517		587	
Rip	55-53	1660	133-51	431	White wash on rock.
		196		612	
By	55-53	1746	133-51	38	White wash on rock.
		110		1005	
Isle	55-53	1589	133-50	988	White wash on rock.
		267		55	
In	55-54	337	133-50	679	White wash on rock.
		1519		364	
Out	55-54	700	133-50	782	White wash on rock.
		1156		261	
Gray	55-54	1464	133-50	909	White wash on rock.
		392		134	
Chin	55-55	20	133-50	997	White wash on rock.
		1836		45	
Nel	55-55	722	133-51	126	White wash on rock.
		1134		916	
Wic	55-55	1737	133-51	554	White wash on rock.
		119		488	
Pit	55-56	279	133-52	17	White wash on rock.
		1577		1025	
Bar	55-56	277	133-52	364	White wash on rock.
		1579		678	
Bat	55-56	465	133-52	742	White wash on rock.
		1391		300	
Mac	55-55	1611	133-54	160	White wash on rock.
		245		882	
Cro	55-55	1220	133-54	467	White wash on rock.
		636		575	
Clip	55-55	812	133-54	882	White wash on rock.
		1044		160	
Dog	55-55	614	133-54	1006	White wash on rock.
		1242		36	
Dol	55-55	462	133-55	60	White wash on rock.
		1394		982	
Dot	55-55	386	133-55	172	White wash on rock.
		1470		870	
Con	55-55	623	133-55	191	White wash on rock.
		1233		851	
Cap	55-55	702	133-55	343	White wash on rock.
		1154		699	
Emp	55-50	1414	133-51	938	White wash on rock.
		442		106	
Dip	55-50	1604	133-51	783	White wash on rock.
		252		261	
Col	55-51	21	133-51	604	White wash on rock.
		1835		440	

Plane-table Positions.

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Object and description.	Latitude	D.M.	Longitude	D.P.	Remarks.
Big	55-51	763 1093	133-51	461 583	White wash on rock.
Al	55-51	1104 752	133-51	281 763	White wash on rock.
At	55-51	1811 45	133-50	625 419	White wash on rock,
Be	55-52	106 1750	133-50	682 362	White wash on rock.
Can	55-52	450 1406	133-51	275 769	White wash on rock.
Do	55-52	573 1283	133-51	389 655	White wash on rock.
Elk	55-52	845 1011	133-51	990 54	White wash on rock.
Fl	55-52	1029 827	133-52	44 1000	White wash on rock.
Go	55-52	1694 162	133-51	703 341	White wash on rock.
Hip	55-52	1711 145	133-51	388 656	White wash on rock.
Jay	55-52	1633 223	133-51	129 915	White wash on rock.
Kit	55-52	1544 312	133-50	983 61	White wash on rock.
Lin	55-52	1183 673	133-50	702 342	White wash on rock.
To	55-52	1089 767	133-50	669 375	White wash on rock.
Me	55-52	1204 652	133-50	523 521	White wash on rock.
No	55-52	1443 413	133-50	488 556	White wash on rock.
Pi	55-52	1650 206	133-50	489 555	White wash on rock.
Ran	55-53	407 1449	133-50	371 672	White wash on rock.
Sit	55-53	552 1304	133-50	360 683	White wash on rock.
Pop	55-55	560 1296	133-55	425 617	White wash on rock.
Lid	55-55	439 1417	133-55	608 434	White wash on rock.
Bob	55-55	531 1325	133-55	691 351	White wash on rock.
Ape	55-55	563 1293	133-55	830 212	White wash on rock.
Sen	55-54	1791 65	133-56	524 518	White wash on rock.
Hal	55-54	1178 678	133-56	634 409	White wash on rock.

Plane-table Positions.

Object and description.	Latitude	D.M.	Longitude	D.P.	Remarks.
Fol	55-53	1774	133-56	554	White wash on rock.
		82		489	
Blu	55-53	1318	133-56	613	White wash on rock.
		538		430	
Sel	55-53	763	133-56	466	White wash on rock.
		1093		577	
Bas	55-53	479	133-56	374	White wash on rock.
		1377		669	
Not	55-53	90	133-56	76	White wash on rock.
		1766		967	
Mit	55-52	863	133-55	793	White wash on rock.
		993		250	
Low	55-52	321	133-55	770	White wash on rock.
		1535		273	
Kis	55-51	1129	133-55	249	White wash on rock.
		727		795	
Jil	55-51	645	133-54	1035	White wash on rock.
		1211		9	
Tee	55-51	196	133-54	546	White wash on rock.
		1660		498	
Hale	55-50	1529	133-54	553	White wash on rock.
		327		491	
Gip	55-50	1149	133-53	667	White wash on rock.
		707		377	
Fast	55-50	1172	133-53	309	White wash on rock.
		684		735	
Brak	55-49	751	133-55	609	Highest pt. of rock.
		1105		436	
New	55-53	973	133-56	555	Signal.
		883		488	

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.

U. S. Coast and Geodetic Survey.

Register No. 4006

State Alaska
General locality West Coast of Prince of Wales Island
~~S. E. Alaska~~

Locality Warren Island

Chief of party . . . T. J. Maher

Surveyed by A. G. Katz

Date of survey . . . May 8th to June 10th, 1922

Scale 1:20000
Mean

Heights in feet above high water

Contour interval 100 feet.

Inked by A.G.Katz . . Lettered by . . A.G.Katz

Records accompanying sheet (check those forwarded): Photographs,

Descriptive ~~report~~ ^{XX} report, Horizontal angle books, Field computations,

Data from other sources affecting sheet list P.T.Positions.

Remarks: