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Department of Commerce and Labor COAST AND GEODETIC SURVEY
<i>O. H. Titterton</i> Superintendent.
State: <i>Alaska</i>
DESCRIPTIVE REPORT.
<i>Vol.</i> <i>Sheet No. 3468</i>
LOCALITY:
<i>Andromeda Island</i>
1914
CHIEF OF PARTY:
<i>J. B. Miller</i>
11-4845

DEPARTMENT OF COMMERCE

Coast and Geodetic Survey,

O. H. Tittmann, Supt.

ALASKA PENINSULA, SHUMAGIN ISLANDS

NORTHERN END OF NAGAI ISLAND.

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DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET E.

Surveyed by the Steamer PATTERSON, August, 1914.

1. REPORT: LIMITS: SCALE: METHOD: OBSERVER.

I have the honor to report as follows upon that part of topographic sheet E which includes the west shore of the northeast part of Nagai Island, as done in August 1914 by a party from the steamer PATTERSON. On the southeast the sheet connects with sheet F and on the northeast terminates at a point about a mile beyond the most northern point of Nagai Island. The scale is 1:20,000, and the plane table used exclusively on the work. The work was done by a party in charge of Leroy P. Raynor, Aid, C. & G. Survey.

2. CONTROL: TRAVERSES: CONTOURS: HEIGHTS.

Of the four traverses, the two at each end of the sheet were not closed upon stations located by triangulation. The errors of closure in the other two traverses were 2 and 7 meters respectively. In plotting distances in the field due allowance was made for expansion or contraction of the sheet. All heights and elevations are above high water level. Considerable care was taken in getting the contours accurately. A number of inland stations were occupied for this purpose. The contour interval is 40 feet.

3. GENERAL REMARKS: MOUNTAINS: GENERAL CHARACTER OF SHORE LINE: VEGETATION: ANIMAL LIFE.

In somewhat of a contrast to that part of Nagai shown on Sheet F, which has many high mountains, this northeast part of Nagai is low. The highest point with the exception of the mountain on the east side of Porpoise Harbor is 749 feet at Δ Wedge. The shore line is irregular, being indented by several open bays facing the northwest. The vegetation and animal life is essentially the same as described for sheet F.

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4. DETAILED DESCRIPTION OF SHORE: PROMINENT POINTS.

The south end of the sheet begins at the middle of the east side of Porpoise Harbor. From here to the point at the northeast entrance to the Harbor the shore is rocky. There are many rocks awash at low water near Δ Fon and off the shore for a quarter of a mile to the south. 590 meters due south of \bigcirc Luk and 300 meters from shore is an outlying rock about five feet high: 100 meters west of \bigcirc Vis is a rock awash at high water. Back of this shore line the cliffs are steep, and vary in height from 10 feet near \bigcirc Fon to over 200 feet near the south end. Beyond \bigcirc Fon the shore line runs in an easterly direction for about three quarters of a mile. The shore is rocky and quite foul with rocks awash at low water out to 100 meters from shore. The cliffs here, while steep, are low. The shore line now turns to the south and then to the east. There is a fair sized lake of brackish water just behind the beach. South of the lake is a narrow valley extending south-east. This rises steeply to the high ridge on the east. The shore line is composed of pebbles, and much drift wood has collected near the lower end of the valley. Beyond here to the next lake shown on the chart, about three quarters of a mile eastward, the shore is rocky. In front of the lake there is a pebble beach, and back of it is a meadow. From this lake to the point at the south entrance to the long bay extending eastward, the shore is irregular, being indented by several small bays with pebble beaches at the head. The points between the bays are rocky. Off \bigcirc Pul and \bigcirc Rite are rocky ledges, with rocks awash at low water 150 meters from shore. Back of \bigcirc Per is a low divide, about 95 feet high, beyond which the land slopes to the bay on the other side of the island. Beyond \bigcirc Rite is a long narrow bay almost cutting through the island; and separated from the bay on the other side by a low gravel neck. This neck is known locally as Pirate Shake: it is about 50 meters across. The shore line of this bay except at the head is for the most part rocky and foul. The land rises gently from the shore line on either side to about 400 feet high, roughly paralleling the larger axis of the bay. From Δ Sek to \bigcirc Ula the shore is quite foul with rocks awash at low water over 100 meters from shore. The black cliffs along the shore vary from 50 to 100 feet in height. Beyond here the shore line continues foul and turns to the northeast. 300 meters north of the point is a rock awash at low water. There is much kelp found along here. Δ Nek is on a small group of rocks 1400 meters off shore and 10 feet high at the highest point. Beyond \bigcirc Sel the shore line turns to the south until the head of an open bay is reached. The shore line on the west and east sides is rocky with rocks awash at low water, and kelp. The beach at the head of the bay is shingle. The land rises gently to an elevation of about 300 feet. There is one exception to the rocky shore line on the middle of the east side. Here a stream coming from a long

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low valley empties into the bay over a pebble beach. Beyond this bay is another smaller bay, the shore line of which is rocky with the exception of two pebble beaches, one in front of Δ OWS and one in front of \odot Ston. Beyond this bay to the end of the sheet the shore is rocky and foul. Except for several small stretches of pebble beach at the mouths of small valleys as shown on the sheet, there are steep vertical cliffs from 100 to 200 feet high all along here. Back of these cliffs is a plateau broken up by various small peaks. There are several small lakes at elevations varying from 250 to 350 feet.

5. SETTLEMENTS: WHITE: NATIVE: RESOURCES: MINING: FISHING: FARMING: COMMERCE.

There are no white or native settlements within the limits of this sheet. Δ Ows is the only house remaining of a deserted fishing station. No mineral resources were found at any place and there is no farming, fishing, or commerce. Due to the comparative lowness of land and the great abundance of grass, it would appear that the country included within the limits of this sheet would be quite suitable for grazing.

6. GEOGRAPHIC NAMES: AUTHORITIES: LIST.

Below is given a list of geographic names as taken from the old charts and gotten from inquiry among inhabitants:

Porpoise Harbor	Cape Wedge
Nagai Strait	Pirate Shake

7. MAGNETIC DECLINATION.

The magnetic declination was carefully determined with the table in orientation at Δ Ows and found to be N $19^{\circ} 20'$ E. It was also determined with the table in orientation at Δ Low on Andronica and found to be N $17^{\circ} 28'$ E.

Respectfully submitted,

Leroy P. Raynor

APPROVED:

Aid, C. & G. Survey.

James B. Miller,
Assistant, C. & G. Survey,
Commanding.

Kodiak, Alaska,

October 26, 1914.

DEPARTMENT OF COMMERCE

Coast and Geodetic Survey,

O. H. Tittmann, Supt.

ALASKA PENINSULA, SHUMAGIN ISLANDS

ANDRONICA AND THE HAYSTACKS

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET E. 3468

Surveyed by the Steamer PATTERSON, July 1914.

1. GENERAL DESCRIPTION.

Andronica is an island in the Shumagin Group of about seven square miles area. The coast is an abrupt cliff formation, low toward the southeast, sloping from the high cliffs on the western and northern sides of the island. The interior of the island is eroded but little and slopes from a summit ridge on the west and from a summit peak on the east central portion of the island. As indicated on the Sheet, the high cliffs show very prominently on approaching the island from the west or from the north. A sheer drop of 900 ft. occurs on the northern cliffs.

The Haystacks are a group of small islands and pinnacles two miles southward of Andronica. Four of the islands range in height from 250 to 300 ft. and stand out very prominently, rising out of the water with nearly vertical cliffs resembling haystacks.

2. OUTLYING DANGERS.

On the north side of Andronica and westward of the north point, 700 meters offshore is a dangerous rock awash at low tide: vessels passing through Gorman Strait should beware of this rock. To the eastward of the north point of Andronica is an island 280 ft. high and 400 meters offshore. Off the southeast point of Andronica is a low flat island 400 meters offshore with shallow water between it and the point. Two dangerous rocks awash 300 meters offshore from the west point of Andronica. One mile to the westward of the Haystacks is a low flat rock (22 ft. high), it is locally called the "Whaleback".

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3. INSHORE DANGERS.

As indicated on the Sheet, there are many inshore rocks and pinnacles fringing the island of Andronica. The island is pretty generally fringed with kelp which as a rule gives adequate warning of the presence of rocks. On the west side of the Haystacks are many small rocks with kelp indicating their presence.

4. SHORE AND LANDING PLACES.

The shore is abrupt in many places making a landing impossible. A considerable portion of the north shore is a boulder beach where a small boat landing can be made in smooth weather only. The east and west shores are abrupt except for one cove in the east shore where a landing can be made in smooth weather only and the cove in the west shore where there is usually a bad swell. The cove in the southeast point of the island is a fair weather landing with a sand beach. There is no vegetation except grass on the shore and there are no prominent colorings in the rocks. There is a boulder beach on the east side of the central Haystack where a landing can easily be made in westerly weather.

5. REFUGE AND ANCHORAGE.

There is only one place near Andronica where refuge or anchorage in bad weather should be considered. This is on the east side of the north point of Andronica and inside of the outlying island. This anchorage will not be good in northerly or easterly weather; and can be used only by small vessels. There is driftwood in abundance on this beach. The cove in the west end of the island will furnish refuge for a small boat in easterly weather. However there is usually considerable swell in this cove. There is an abundance of driftwood here also.

The Haystacks lie approximately in the shape of a crescent convex westward. In westerly weather fairly good protection can be found inside of this crescent of islands. It affords good protection from the southwest swell.

6. WEATHER.

There are no prevailing winds in this region and the probable direction of the wind a day hence is only a conjecture at best. The winds blow from all points of the compass and with about equal average intensity. The strongest gales usually come from the northwest and the longest ones from southeast. South and southwest winds almost invariably bring fog and often rain. Fog sometimes lasts for a week or more at a time. There was a great amount of foggy weather during the month of July.

7. WATER.

Water cannot be obtained in quantity for a ship on Andronica. The Sheet indicates the principal streams where water can always be obtained in small quantities.

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8. NATURAL RESOURCES.

Andronica seems better adapted to agriculture than any of the other islands of the Shumagin Group. It was formerly used as a fox ranch, but this industry has been given up. It seems well adapted for this and the cause of failure is not apparent. The island would also furnish excellent grazing for cattle during the summer months. Alder is the only wood growing on the island. A superficial study of the geology of this island does not indicate any mineral wealth except petroleum. In several places petroleum oozes out at the surface in small quantities and little pools of water are usually covered with a scum of petroleum. A few ptarmigan and foxes are the only game.

Respectfully submitted,

Melvin E. Lutz

APPROVED:

D. O., C. & G. Survey.

James B. Miller,
Assistant, C. & G. Survey,
Commanding.

Kodiak, Alaska,

October 26, 1914.

PLANETABLE POSITIONS

Positions	Elev. ft.	Latitude ° ' "	D.M. M.	Adjusted M.	Long. ° ' "	D.P. M.	Adjusted M.
Tus	12	55° 14'	960	956	159° 56'	306	307
w.w.on point			902	899		750	753
Ula	7	55 15	300	298	159 56	646	646
w.w.			1560	1557		414	414
Sel	57	55 15	446	445	159 56	158	158
Flag on flat top rock			1412	1410		903	902
Rod	10	55 14	1713	1707	159 55	975	977
stick on beach			150	148		83	83
Ruk	3	55 14	1780	1773	159 55	494	496
w.w.rock on beach			83	82		561	564
Spot	7	55 14	1839	1833	159 55	294	295
w.w.			23	22		763	765
Tan	8	55 15	386	386	159 55	96	96
log pile on beach			1470	1469		961	964
Flag	35	55 15	970	967	159 55	98	99
flag on sharp rocky point			891	888		958	961
Ston	10	55 15	710	708	159 54	725	719
w.cloth head of bay			1150	1147		344	341
Ows		55 15	11801	11801	159 54	495.4	495.4
located by triangulation							
house Cape Wedge			675.4	675.4		564.3	564.3
Dew		55 15	1418.9	1418.9	159 54	813.8	813.8
located by triangulation							
w.w.cape Wedge			436.6	436.6		245.8	245.8
Mud	12	55 12	1493	1486	159 56	795	798
w.w.on cliff			372	369		262	263
Mit	10	55 12	1049	1044	159 56	721	724
log pile on beach			814	811		335	337
Stick	10	55 12	895	893	159 56	333	335
upright stick on beach			965	962		722	726
Not		55 12	1008	1005	159 55	1024	1027
w.w.			852	850		34	34
Pul	10	55 12	1328	1324	159 55	600	601
w.w.on point			533	531		460	460
Per	8	55 12	1710	1704	159 55	218	219
w.w.rock in bay			152	151		840	842
Quit	11	55 13	310	310	159 55	626	628
w.w.rock on point			1548	1545		432	433
Rite	7	55 13	739	736	159 55	1012	1014
w.w.on point			1123	1119		47	47
Fus	20	55 13	964	963	159 55	674	675
flag on cliff			893	892		385	386
like	6	55 13	1138	1136	159 54	1032	1025
whalebones on rock			720	719		36	36
Lap	8	55 13	1228	1225	159 54	610	607
w.cloth on rock ^{near Pt.} pebble spit			632	630		457	454
Sam	9	55 13	1409	1405	159 54	1029	1022
w.cloth on spit			452	450		40	39
Vis	5	55 11	529	528	159 57	325	326
w.w.			1329	1327		733	736
Wer	4	55 11	1236	1235	159 57	462	463
w.w.			620	620		597	599

Positions	Elev. ft.	Latitude ° ' "	D.M. M.	Adjusted M.	Long. ° ' "	D.P. M.	Adjusted M.
Luk	15	55° 12'	270	270	159° 57'	880	883
w.w. on 44 ft. pinnacle			1587	1585		179	179
Cairn		55 12	1742	1744	159 57	920	922
w.w. cairn on point			111	111		141	141
Fon		55 12	8014	801.4	159 57	31.2	31.2
located by triangulation							
w.w. on point			54.1	54.1		130.2	130.2
Pin	38	55 12	1670	1671	159 57	58	58
sharp pinnacle			184	184		1003	1004
Alt	49	55-16	1848	1849	159 54	453	453
pinnacle off shore		55-15	06	06		607	607
Can	4	55 16	916	920	159 53	903	917
w.w. rock			932	935		141	143
Do	21	55 16	1397	1403	159 53	833	844
w.w. on pinnacle			450	452		213	216
Es	45	55 17	39	39	159 53	647	656
w.w.			1816	1816		397	403
Elk	21	55 17	430	430	159 53	370	374
w.w. on pinnacle rock			1424	1425		678	685
Far	17	55 17	811	811	159 53	402	408
w.w. on point			1045	1044		644	651
Fit		55 17	764	764	159 52	1045	1046
w.w. in bay			1092	1091		13	13
Go	20	55 17	1043	1045	159 52	792	793
w.w. on point			810	810		265	266
Fall	4	55 17	284	284	159 52	293	294
waterfall in bay			1568	1571		763	765
Ray	316	55 17	891	892	159 52	757	759
cairn & pole, top of point			962	963		300	300
Sak	5	55 13	1768.8	1768.8	159 55	905.7	905.7
located by triangulation							
w.w. on point			86.8	86.8		155.2	155.2
Nek	10	55 14	889.7	889.7	159 57	702.9	702.9
located by triangulation							
highest pt. rock off Porpoise Harbor			965.8	965.8		357.3	357.3
Bum		55 16	397	398	159-54	1030	1035
w. cloth			1451	1457	159-53	25	25

Station	Latitude	Adjusted	D.M.	Longitude	D.P.	Adjusted
Qu	55° 20'	715	723	160° 06'	590	589
W.W.		1133	1132		468	469
Pul	55 20	226	230	160 06	937	936
W.W.		1621	1625		122	122
Vix	55 20	1365	1371	160 04	841	846
W.W.		482	484		210	212
Won	55 20	1229	1234	160 04	443	447
driftwood		618	621		606	611
Xel	55 20	1338	1347	160 03	917	918
driftwood		505	508		140	140
Yap	55 20	1610	1621	160 03	722	724
W.W. on pt.		232	234		333	334
Pin	55 20	1472	1483	160 03	380	382
pin rk.		370	372		673	676
Elk	55 20	999	1005	160 03	749	749
driftwood		845	850		309	309
Dol 5 ft	55 20	472	475	160 03	283	284
outlying rk.		1370	1380		773	774
Cat	55 19	1621	1630	160 02	738	746
W.W.		224	225		309	312
Isle 22 ft	55 16	1734	1741	160 04	1037	1042
West edge of hump		114	114		17	17
Rip	55 16	1550	1554	160 03	140	140
S. pin. of group of pin.		300	301		917	919

Station	Latitude	D. M.	Adjusted	Longitude	D. P.	Adjusted
For 133 ft.	55° 16'	1829	1838	160° 03	68	68
N. Pin. of group of pin.		17	17		989	991
Flat 22 ft.	55 18	201	202	160 02	256	257
tripod on island		1646	1653		795	801
But	55 19	179	180	160 01	1030	1034
driftwood on bank		1665	1675		24	24

Topographic Positions Andronica and The Haystacks

Sheet E

Station	Latitude	D.M.	Adjusted	Longitude	D.P.	Adjusted
Bet 5 ft W.W. on pt.	55° 19'	1203 660	1198 657	160° 01'	660 403	657 401
Tow 215 ft tower rk. on bluff	55 19	1050 812	1046 809	160° 01	610 453	607 451
And 5 ft W.W. on rk.	55 19	780 1082	777 1078	160 01	520 543	518 540
Bat 5 ft driftwood on bank	55 19	724 1137	722 1133	160 01	999 64	995 63
Bum 40 ft pin. rk.	55 19	415 1448	413 1442	160 01	1028 34	1024 34
Cas 45 ft tripod on I.	55 19	150 1711	149 1706	160 01	857 214	855 213
Bur 5 ft W.W. on pt.	55 18	1066 798	1061 794	160 01	990 70	988 70
Cold 15 ft W.W. on pt.	55 18	781 1074	781 1074	160 02	212 847	212 847
Dern 112 ft red & white flg. on bluff.	55 18	1168 694	1164 691	160 02	494 565	494 565
Hou 20 ft S. gable house.	55 18	1400 463	1394 461	160 02	840 218	841 218
Fol 10 ft W.W. on pt.	55 18	877 986	873 982	160 03	1040 23	1036 23
Gos 5 ft W.W. on rk.	55 18	1505 356	1500 355	160 04	837 222	837 222

Station	Latitude	D.M.	Adjusted	Longitude	D.P.	Adjusted
Help W.W. pin rk.	55° 18'	1444 418	1439 416	160° 05'	529 530	529 530
Eke red flag	55 18	1170 679	1174 681	160 03	24 1031	24 1034
Ike 5 ft. W.W. on pt.	55 18	1427 350	1504 351	160 06	171 887	171 887
Kel 20 ft. flag	55 19	170 1676	171 1684	160 06	³ 850 708	³ 850 708
Luf 50 ft. pin on bluff	55 19	1290 554	1298 557	160 06	310 749	310 748
Man 5 ft. driftwood	55 19	1530 318	1535 320	160 06	219 841	219 839
Nat flag top of bluff	55 19	1500 349	1505 350	160 06	616 442	616 442
Ot boulder on hump	55 19	1676 170	1685 170	160 06	955 101	957 101
Ut flag	55 20	1270 578	1290 565	160 04	1000 50	1005 53
Tel 5 ft. driftwood	55 20	1210 638	1229 626	160 05	210 844	208 850
Sit 5 ft. W.W. on pt.	55 20	1104 745	1118 737	160 05	858 199	857 201
Rot W.W.	55 20	926 922	937 918	160 06	274 784	274 784