

3678 & Add. WK

Diag. Cht. No. 8152-1

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. _____ Office No. H-3678 &
Add. WK.

LOCALITY

State ALASKA (SOUTHEAST)

General locality WEST COAST, PRINCE OF WALES IS.

Locality TROCADERO BAY AND APPROACHES

1914

CHIEF OF PARTY

LIBRARY & ARCHIVES

DATE NOVEMBER 23, 1914

8-1870-1 (1)

3678
&
Add. WK.

G. & O. SUNLEY
 L. & A.
 OCT 23 18
 Acc. No.

Season 1916

Statistics for Hydrographic Sheet No. 3678

West Coast, Prince of Wales Id.,

S. E. Alaska.

By Party

Stmr. "EXPLORER"

F. H. Hardy, Commanding.

Date, 1916.	Letter.	Vol- ume.	Posi- tions.	Sound- ings.	Miles Statute.	Vessel.
April 22	a	1	29	29	5.0	COSMOS
" 24	b	1	62	62	6.0	"
TOTAL.....			91	91	11.0	

STATISTICS FOR HYDROGRAPHIC SHEET No. 3678

Trocadero Bay & Approaches, W. Coast, Prince of Wales Id.

S. E. Alaska.

Date 1914.	Letter.	Vol.	Posi tions.	Sound ings.	Miles Statute.	Vessel.
June 17	a	1	97	102	22.0	Cosmos.
" 18	b	1	100	109	24.8	"
" 19	c	1	43	60	9.0	"
" 20	d	1	134	139	25.4	"
" 22	e	1	136	149	25.8	"
" 23	f	1	142	142	21.0	"
" 24	g	2	141	142	28.2	"
" 25	h	2	98	101	11.0	"
" 26	j	2	91	91	12.3	"
" 29	k	2	162	164	20.5	"
" 30	a	1	88	109	10.0	Launch. No.117.
July 1	b	1	230	322	27.0	" "
" 3	c	1	99	255	12.3	" "
" 6	d	1-2	175	370	18.5	" "
" 7	e	2	172	266	21.5	" "
" 9	l	2	125	125	15.0	Cosmos.
" 11	m	3	150	153	17.5	"
" 13	n	3	40	41	5.0	"
" 15	p	3	178	184	19.0	"
" 15	f	2-3	191	355	20.0	Launch. No.117.
" 18	q	3	85	85	9.0	Cosmos.
Aug. 3	g	3	127	245	13.0	No.117.
" 6	h	3	8	13	0.5	" "
TOTAL CARRIED FORWARD.....			2812	3722	388.3	

STATISTICS FOR HYDROGRAPHIC SHEET No. 3 (Continued)

Trocadero Bay & Approaches, W. Coast, Prince of Wales Id.

S. E. Alaska.

Date 1914.	Letter.	Vol.	Positions.	Soundings.	Miles Sta.	Vessel.
TOTAL BROUGHT FORWARD.....			2812	3722	388.3	Launch.
Aug. 7	j	3	100	191	11.2	No. 117
" 8	k	3-4	123	255	11.3	" "
" 10	l	4	131	281	16.0	" "
" 11	m	4	138	314	16.5	" "
" 20	n	4	28	48	2.5	" "
" 20	a	1	53	157	3.0	No. 27
" 21	p	5	148	468	13.7	No. 117
" 13	a	1	69	}	9.5	Wire Drag.
" 13	a	1	74			" " 27 "
" 14	b	1	72	}	10.3	" " 117 "
" 14	b	1	66			" " 27 "
" 15	c	1	73	}	13.0	" " 117 "
" 15	c	1	76			" " 27 "
" 17	d	1	51	}	6.3	" " 117 "
" 17	d	1	51			" " 27 "
" 18	e	1	51	}	8.0	" " 117 "
" 18	e	1	55			" " 27 "
" 19	f	1	43	}	8.5	" " 117 "
" 19	f	1	72			" " 27 "
" 22	g	1	61	}	9.0	" " 117 "
" 22	g	1	63			" " 27 "
TOTAL.....			4410	5436	527.1	

VEC
Feb. 19, 1915
L. P. S.

HYDROGRAPHIC SHEET 3678.

Trocadero Bay and Approaches, West Coast of Prince of Wales
Island, Alaska, by Assistant F. H. Hardy in 1914.

TIDES.

	Craig ft.
Mean lower low water, or plane of reference on staff	9.0
Lowest tide observed " "	6.0
Highest " " " "	21.6
Mean range of tide	7.9

VEC
Feb. 16, 1917

187

HYDROGRAPHIC SHEET 3678.

West Coast Prince of Wales Island, Alaska. Additional
hydrography by Assistant F. H. Hardy in 1916.

TIDES.

	Craig Feet.
Mean lower low water, or plane of reference on staff	8.3
Mean range of tide	7.9

Hyd. Sheet No. 3678

The work shown on this sheet is very good.

The ground has been systematically covered and shoal indications have been carefully developed.

The eight fathom sounding, just west of "Green", looks doubtful. If its position is correct, it should have been further examined.

The work on Hyd. Sheet No 3548, was reduced to this scale and incorporated in this sheet.

R. L. Johnston

Verified May 4, 1915.

Area close vicinity not developed
in place G.P.T.

Soundings shown in fathoms.

Protracted by Campbell.

Soundings plotted by Campbell.

Verified and inked by R. L. Johnston.

Additional work, ^{protracted,} plotted + inked by J. D. Torrey.

Hyd = Sheet No 3678 (Drag Work)

Troadero Bay & Approaches

The main channel to Copper mine has been dragged and shoal indications developed. The drag work is shown on a separate tracing, which accompanies the Hyd = Sheet.

Upon verifying the drag work attention might be called to the following:

* The lengths of the tow lines has not been recorded, and as plotted the width of the area covered extends from the position of one observer to that of the other, i.e., the area covered as plotted on the tracing is wider than that actually swept over by a strip varying in width from zero to the sum of the two tow lines.

At Va, on Aug 13th, the drag caught; a buoy was dropped on the spot and a 6 fms. sounding (which reduces to 5 fms) was obtained.

At Va⁴⁷ drag started but stopped at once. A 5 fm sounding, which reduces to 4 fms was obtained, and again a buoy dropped to mark the place for future development. From the sounding records it appears that on Aug 20th the shoal marked by the 1st buoy was investigated and a shoal with 3¹/₂ fms or it located.

think that the sum of the lengths of the tow lines used was 120 ft, and as the length of drag used was 1200 ft, the max. error in the width plotted may reach 100 ft.

* Asst. F. H. Hardy

But the 4 fm. spot marked by the 2nd buoy, and which plots at a distance of about 250 yd. S.E. of the 3 $\frac{1}{2}$ fm. sounding has not been examined, and no attempt to obtain the least water made. The approximate location of the 4 fm. spot is indicated on the tracing by a dotted 4 fm. curve.

At $\frac{1}{2}$ d, on Aug. 17th drag set at eff. depth of 31 ft. struck. The place was marked by a buoy and investigated on Aug. 20th, when the party succeeded in obtaining a 32 ft. sounding, but failed in determining the shallowest water on the rock. This spot should have been gone over by the drag set at a slightly lesser depth than 31 ft., at which it struck, and this process of reducing the depth of the drag kept up until it passed the obstruction.

The work on the whole was very well executed and the records kept in good shape.

J. B. Shklevi

Oct. 15 - 1915

DEPARTMENT OF COMMERCE

Hydrographic Sheet # 3678 (Additional work)

This work was done to examine and further develop the shoals and reefs at the entrance to "Frocadero Bay" which developed in plotting the original work covered by this sheet and while this latter examination shows slightly shallower water than appears on the original work no great difference is shown and no critical conditions appears; The work is closely done and appears sufficient to justify an opinion that sufficient water cover these shoals to permit any vessel to navigate this entrance with danger.

This work is not plotted on the original sheet but is on the accompanying tracing and has been combined with the soundings of the original sheet.

John D. Torrey
3/13/17.

H. 3678.

Work done in 1914 and supplemented in 1916.--The work is very good and the ground uniformly covered and shoals carefully developed. Some drag work was done over doubtful areas. The work is very satisfactory. Sheet examined in Div. of Hyd'y & Top'y.