

4528

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

State: SE. Alaska

11-5615

DESCRIPTIVE REPORT.

Hyd. Sheet No. 4528

LOCALITY:

Baranof I. + Chichagof I. - W. Coast
Sitka Sd. Ent. to C. Edward - Offshore

1925

CHIEF OF PARTY:

A. M. Sobieralski

May 3, 1926.

W. W. B.

~~Division of Hydrography and Topography:~~

Division of Charts:

Tide reducers are approved in
7 volumes of sounding records for

HYDROGRAPHIC SHEET NO. 4528

Locality: S. E. Alaska

Chief of Party: A. M. Sobieralski in 1925.

Plane of reference is MLLW
9.8 ft. on tide staff at Sitka.

For reduction of soundings, condition of records satisfactory
except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted
3. Time meridian not given at beginning of day's work.
4. Time (whether A. M. or P. M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.



Chief, Division of Tides and Currents.

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET NO 80

West Coast Baranof

and

Chichagoff Islands

Off Shore Ship Work

April-October 1925

Scale 1-80000

Instructions dated Feb. 4, 1925

Supp. Inst. dated July 8, 1925.

A. M. Sobieralski - Chief of Party.

DESCRIPTIVE REPORT

to accompany

Hydrographic Sheet No. _____

Instructions covering this work are dated Feb. 4, 1925 and July 8, 1925.

The area covered by this sheet overlaps Hydrographic Sheet No. 2175. Where the two sheets overlap, lines were run approximately 1000 meters apart. North of Latitude 57°20' the spacing was in accordance with instructions dated Feb. 14.

Some work done by the ship westward of Δ Outer (H H day) is plotted on a launch sheet, scale 1-20,000.

All work on this sheet was done by the SURVEYOR and all soundings were taken up and down with the ship stopped. The registering sheave was tested by passing a measured 100 fathoms of wire over it and checking the register reading.

The soundings do not agree very well with the soundings on hydrographic Sheet No. 2175.* My theory is that the soundings on the latter sheet were made with a registering dial attached to the sounding machine, which registers revolutions of the drum holding the wire, and hence our soundings are always deeper, the difference increasing with the depth. It might be possible, by an examination of the records for hydrographic Sheet No. 2175 to determine a correction factor and eliminate this difference.

*This is
the

A few soundings were taken off Cape Edgecumbe to fill in a space where no soundings were previously shown.

The cuts to breakers (H H day) were taken to locate a breaker in Latitude 57-33.2 and Longitude 136-11.9. The launch hydrographic sheet shows 4^f fathoms in this vicinity.

72 fms
JUN 1925

All signals were located by triangulation except the following:

Head (Khaz Head) located by plane table, one cut from Δ Doolth, and several sextant cuts to check the position.

Blink, Cape Edward light, located by plane table.

Stripes, highest point of peak on peninsula at Pt. Amelia, located by sextant cuts.

Cape Edgecumbe Light	}	Transferred from Hydrographic
Sitka Point Beacon		Sheet No. _____ (Ship sheet
San(highest point San Lazaria		1924 scale 1-80,000.)
Islands.)		
Tan, Biorka Island		Some triangulation cuts were
Ork, Biorka Island		taken to San and Tan from Δ
		Soap and Gray.

All soundings on this sheet are given in fathoms.

The plane of reference for reduction of soundings is M L L W corresponding to a reading of 9.8 feet on the tide staff at Sitka.

Lowest tide observed: Reading on gauge 6.9 August 5, 1925.

Highest tide observed: Reading on gauge 21.5 June 8, 1925.

Respectfully submitted,

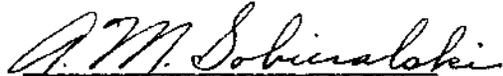

A. M. Sobieralski
H. & G. Eng'r. C. & G. S.
Chief of Party.

TABLE OF STATISTICS

HYDROGRAPHY
Sheet No.

80 (Field 7111111)

Date	Letter	Vol.	Sta. Miles	Positions	Soundings	Area	To & from work
Apr. 14, '25	A	1	15.5	27	27		74.5 mi
" 15 "	B	1	60.0	32	32		29.0 "
" 20 "	C	1	17.0	41	41		38.0 "
" 21 "	D	1	29.0	21	21		39.0 "
" 22 "	E	1	45.0	30	30		49.0 "
" 23 "	F	1	36.0	69	69		36.0 "
Ma 4 "	G	1	50.5	18	18		34.0 "
" 5 "	H	1	77.0	68	68		9.0 "
" 6 "	J	2	0.0	1	1		10.0 "
" 15 "	K	2	28.5	40	40		9.0 "
" 18 "	L	2	23.6	43	43		39.0 "
" 21 "	M	2	44.0	55	55		16.0 "
" 26 "	N	2	89.0	55	55		21.0 "
" 27 "	P	2	71.0	125	125		39.0 "
" 28 "	Q	2	36.6	74	74	}	30.0 "
" 28 "	Q	3	20.0	48	48		
" 29 "	R	3	8.0	20	20		65.0 "
June 2 "	S	3	72.5	162	162		63.0 "
" 3 "	T	3	31.5	45	45		30.0 "
" 5 "	U	3-4	72.0	130	130		7.0 "
" 24 "	V	4	69.0	201	201		42.0 "
" 25 "	W	4	98.0	232	232		13.0 "
" 26 "	X	5	7.1	20	20		5.0 "
July 11 "	Y	5	26.5	69	69		47.0 "
" 13 "	X	5	9.0	36	36		57.0 "
" 20 "	AA	5	2.8	11	11		16.0 "
" 21 "	BB	5	40.0	152	152		26.0 "
Aug. 10 "	CC	6	32.0	81	81		77.0 "
" 24 "	DD	6	18.0	2	2		65.0 "
Sept. 16 "	EE	6	56.6	207	207		24.0 "
Oct. 9 "	FF	6	21.7	43	43		51.0 "
" 15 "	GG	6-7	25.0	110	110		31.0 "
" 17 "	HH	7	5.0	93	93		26.0 "
" 20 "	JJ	7	22.0	109	109		27.0 "
TOTALS FOR SEASON			1259.7	2469	2469		1120.5

ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY

AND REFER TO No.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

June 11, 1926.

REPORT ON HYDROGRAPHIC

SHEET No. 4528

The sounding records are complete.

All ships positions that require the use of extension
arms are plotted erroneously.

The error being in the same direction.

The drafting conforms to the general instructions for
field work.



H. R. Edmonston,
Field Records Section.

ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY

AND REFER TO NO. 11-DEM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON September 24, 1926.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4528

Sitka Sound Offshore - S. E. Alaska

Surveyed in 1925

Instructions dated February 4, 1925 and July 8, 1925 (SURVEYOR)

Chief of Party, A. M. Sobieralski.

Surveyed by A. M. S.

Protracted and soundings plotted by P. R. Hathorne.

Verified and inked by H. R. Edmonston.

1. The records conform to the requirements of the General Instructions.
2. The plan and character of development conform to the requirements of the General Instructions.
3. The plan and extent of development satisfy the specific instructions with the following exceptions:
 - a. The work should have been carried to the 50 fathom curve around Cape Edgecumbe.
 - b. More soundings should have been taken around the 200 fathom curve southwest of Cape Edgecumbe to better develop the curve.
 - c. North of Cape Edgecumbe the survey does not develop the 50 fathom curve as called for.
 - d. Between Cape Georgiana and Pt. Slocum the work was carried inside the 50 fathom curve for a distance of about 3 miles. This area was expressly excepted by Paragraphs 2 and 3 of the specific instructions of Feb. 4, 1925.
4. The sounding line crossings, as far as a comparison of adjacent lines is concerned, are adequate.

5. The information is sufficient for drawing the depth curves except as mentioned in Paragraph 3, b and c.
6. The usual field plotting was done by the field party. All the positions requiring the use of extension arms were erroneously plotted, doubtless due to an unadjusted protractor. The necessary corrections were made by the office cartographer.
7. The junction with H. 4432 (surveyed in 1924) on the south is adequate.
The junction with H. 4529 on the north is excellent.
The junction with H. 4524 and H. 4539 on the east will be taken up in the reviews for those sheets.

There is a discrepancy between this sheet and H. 2175 surveyed in 1893. The depths on the new survey are uniformly deeper. As suggested by the Chief of Party, the difference may be due to the use of a register on the older survey which counted the number of revolutions on the reel without taking into consideration the varying diameters due to the varying amount of wire on the reel. An examination of the records for H. 2175 failed to disclose sufficient data for a definite conclusion. However, since the present work was done in accordance with standard practice and as there is no reason to doubt its accuracy, it is believed that the lesser depths on H. 2175 are probably due to the less exact methods of handling the reel, sheave and reading depths, and therefore H. 4528 should be considered correct.

8. Additional work is required as mentioned in Paragraph 3, a, b, and c.

* Practically all indications of shoals were developed on either this sheet or the adjoining inshore sheets and no additional lead-line work is required over them, but owing to the irregular character of the bottom it is strongly recommended that the entire area inside the 50 fathom curve be wire dragged, and particularly the spots with 20 fathoms or less over them.
9. Character and scope of surveying - Very good.
Field drafting - good.
10. Reviewed by A. L. Shalowitz, August 26, 1926.

** Shoal indications under 10 fms should be wire dragged but as there are none on this sheet under 19 fms, the need for dragging is not essential.*
SP

