

5183

Form 504
Ed. June, 1928
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R.S. PATTON, Director

U. S. COAST & GEODETIC SURVEY
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State: ALASKA

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. 43 5183
Hydrographic }

LOCALITY

OFFSHORE, SITKALIDAK ISLAND.

BLACK POINT

TO

CAPE BARNABAS

19 31

CHIEF OF PARTY

F.B.T. SIEMS, Comdr. U.S.C. & G.S.

5183

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5183

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 43

REGISTER NO. 5183

State Southwest Alaska

General locality Kodiak Island

Locality S. E. of Sitkalidak I.
~~Offshore, between Black Point and Cape Barnabas.~~

Scale 1:40,000 Date of survey August - October, 1931

Vessel U.S.C. & G.S.S. SURVEYOR

Chief of Party F.B.T.SIEMS

Surveyed by F.B.T.SIEMS

Protracted by R.A.Marshall

Soundings penciled by R.A.Marshall

Soundings in fathoms ~~feet~~

Plane of reference M.L.L.W.

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated April 17-th, 1931

Remarks:

DESCRIPTIVE REPORT
TO ACCOMPANY
HYDROGRAPHIC SHEET NUMBER 43

STR. SURVEYOR

Scale 1:40,000

F.B.T.SIEMS, COMD'G

INSTRUCTIONS:

The survey of Sheet No. 43 was executed during the field season of 1931 under the Director's instructions dated April 15, 1931 and reference, 10-RS.

SURVEY METHODS:

The hydrography on this sheet was executed by the SURVEYOR. Three point fixes were executed on triangulation and topographic signals.

Frequent vertical casts were taken for comparison with the fathometer.
see "Report on Reduction of Fathometer Soundings"

The hydrographic signals along the east end of Sitkalidak Island were plotted on a larger scale sheet and were then transferred to this sheet as being the more accurate method.

Hydrographic signal Scar was plotted on Sheet No. 42 and then transferred to this sheet.

COMPARISON WITH PREVIOUS SURVEYS:

No previous surveys in this vicinity.

SHORELINE:

As the shoreline is shown on Sheets No's. 25, 27 and Topographic sheets D, E, and F, on a 1:20,000 scale, it was not transferred to this sheet in accordance with paragraph 28, page 4, of the Hydrographic Manual.

DANGERS:

There are no dangers within the limits of the hydrography shown on this sheet.

DISCREPANCIES:

Only those crossings which differed by more than one fathom ^{are given below.} ~~were recorded.~~

Where a fathometer and a vertical cast differed; the shoaler sounding of the two soundings was plotted. (It is recommended by the Chief of Party to chart the vertical casts rather than the corresponding fathometer sounding.)

✓ On a crossing between 118-119P (78 fms.) and 41-42N (75 fms.), latitude $57^{\circ} 04.2'$, longitude $152^{\circ} 49.5'$; there is a difference of three fathoms probably due to the steep slope at this point

✓ On a crossing between 13-14U (77 fms.) and 1-2P (80 fms.), latitude $57^{\circ} 10.2'$, longitude $152^{\circ} 44.2'$; there is a difference of three fathoms. Fathometer was not working satisfactorily at the beginning of "P" day. It is recommended that the soundings on 1-2P be rejected. *Rejected as recommended*

On the line 1-4X (latitude $57^{\circ} 07.9'$, longitude $152^{\circ} 49.5'$) the crossings are poor probably due to the fact that the fathometer was not working well as shown by the number of misses at the beginning of the line. After position 4X the tuned hydrophone was used. It is recommended that the soundings on line 1-4X be rejected. *Rejected as recommended*

✓ The attached tracing shows vertical casts taken in an area, latitude $56^{\circ} 55.6'$, longitude $153^{\circ} 20.2'$, to verify irregular depths obtained by fathometer.

STATISTICS:

▲ table of statistics accompanies this report.

LIMITS:

Sheet No. 43 joins Sheet No. 42 to the westward, Sheets No's 25 and 27 in-
shore and Sheet No. 161⁵¹⁷⁷ offshore. At the entrance to Sitkalidak Straits it
joins Sheet No. 8455.

Respectfully submitted,

R.A. Marshall
R.A. Marshall, Aid
U.S.C. & G. Survey.

Approved and forwarded,

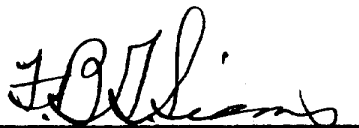
F.B.T. Siems
F.B.T. SIEMS, H.&G.E.
Commanding SURVEYOR,
Chief of Party, C.&G.S.

APPROVAL NOTE OF CHIEF OF PARTY

Smooth Sheet 43 and accompanying sounding records have been inspected and are hereby approved.

Officer who plotted triangulation signals on this sheet was cautioned to exercise more care in future work to prevent enlargement of ink center accentuations. In this case the grade (Weil) of paper cannot be given a cause of this condition. Evidently corrections were made to prick points thus enlarging them.

It is suggested that a circular be issued to the effect that a geographic position be plotted by two sharp lead ^{pencil} lines paralleling projection lines, their intersection marking the exact position; and only after this plotting has been checked would it be advisable to prick or accentuate the center.



F.B.T.SIEMS, H.&G.E.
Chief of Party, C.&G.S.

STATISTICS FOR SHEET NO. 43

DATE	VOL.	DAY	STAT. MILES	POSITIONS	SOUNDINGS	VESSEL
A						
Aug. 3	1	A	73.0	131	678	"SURVEYOR "
Aug. 11	1&2	C	73.1	120	701	"
Aug. 12	2	D	63.0	119	723	"
Aug. 13	3	E	14.5	20	144	"
Aug. 26	3	F	8.0	16	81	"
Aug. 27	3	G	4.3	5	27	"
Aug. 28	3	H	24.0	41	183	"
Sept. 8	3	J	18.6	35	183	"
Sept. 9	3	K	15.9	28	190	"
Sept. 10	3&4	L	108.0	206	1366	"
Sept. 11	4	M	4.6	8	51	"
Sept. 12	4	N	27.0	47	287	"
Sept. 14	5	P	93.5	178	1007	"
Sept. 15	5&6	Q	50.3	83	558	"
Sept. 16	6	R	19.0	17	79	"
Sept. 17	6	S	77.1	127	865	"
Sept. 18	7	T	25.6	56	317	"
Sept. 19	7	U	43.0	101	504	"
Sept. 22	7	V	3.0	10	39	"
Sept. 23	7	W	19.4	31	215	"
Oct. 1	7&8	X	42.8	76	520	"

"B" day letter used; work rejected.

May 4, 1932.

Division of Hydrography and Topography:

✓ Division of Charts:

Tide Reducers are approved in
8 volumes of sounding records for

HYDROGRAPHIC SHEET 5183

Locality S. E. Coast of Kodiak Island, Alaska

Chief of Party: F. B. T. Siems in 1931

Plane of reference is Mean lower low water, reading

2.2 ft. on tide staff at Jap Bay

8.4 ft. below B. M. 1

2.9 ft. on tide staff at Three Saints Bay

11.9 ft. below B. M. 1

4.5 ft. on tide staff at Port Hobron

11.7 Ft. below B. M. 1

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 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.

Report on sheet No. 5183
Chief of Party: F. B. J. Siems
Surveyed by: F. B. J. Siems
Surveyed in: Aug. to Oct. 1931
Protracted by: R. A. Marshall
Boundings plotted by: R. A. Marshall
Verified by: B. G. Jones
Inked by: B. G. Jones

(1) The records are neat and legible and conform to the general instructions except that the ship's deviation card for the compass used on this work was not recorded.

(2) The positions were plotted with a protractor not in proper adjustment. The positions checked in verifying the sheet were in error from about 40 meters on those most distant from the signals to a very small amount on the positions close inshore. No correction has been made for this error. The projection is at present very nearly correct.

(3) It was necessary to replot a number of soundings where the spacing had not been correctly applied and where five feet had been dropped instead of being plotted as the next whole fathom.

(4) The sheet was neatly plotted by the field party and the drafting conformed to the general instructions.

(5) The rounding agrees very well at the crossings except for those mentioned in the Descriptive report.

The soundings on positions 1 to 4 X and 1 to $\frac{3}{4}$ P have been rejected as recommended in the Descriptive report and in the sounding volumes.

The 73 fm sdy. between Pos. 3 and 4 P has been rejected as it is questioned in the record and the following rounding was rejected by the field party as a stray. The fathometer was not working well as evidenced by the number of misses and the notes in the sdy. volume.

The vertical casts have been corrected for the recorded slant of the wire where the correction \checkmark equalled 1 fm. or more.

a note opposite the 30 fm. rdg. between Pos. 48 and 49 a (lat. $56^{\circ}53'$, long. $153-09.2$) states that this rdg. is probably a stray. The sounding has been retained, however, as it seems more likely \checkmark to be on an extension of the bank lying to the South East.

The sounding ^(19 fm) on Position 2c has been rejected as it is marked unreliable in the record. The fathometer was not working properly at the beginning of this line.

(6) The bottom is fairly regular in the area covered by this survey, except on the extreme N.E. end of the sheet. The 49 fm. rdg. in lat. $57-07.4$, long. $152-37.8$ (Pos 126 to 127.5) indicates a steep slope and rather marked irregularity in the 50 fm. curve. The sounding was ~~not~~ checked when taken and is supported by the 50 fm. rdg. transferred from sheet # 5177. The lines are too widely spaced to determine whether the last

depth has been found. additional sounding lines would have been desirable in this area.

(7) Soundings at the junction of this sheet with H 5177 agree very well and are shown in red on this sheet.

Soundings within the junction of this sheet with H 5178 and H 4855 are shown in red on those sheets. The agreement of the soundings at the junctions with sheets H 5178 and H 4855 is good.

Sheet H 5184 ^{and H 5187} have not been verified and soundings at the junctions with those sheets have not been transferred.

B. G. Jones

Section of Field Records
Review of Hydrographic Sheet No. 5183
Southeast of Sitkalidak Island, Kodiak I.,
Alaska.
Surveyed - August - October, 1931.
Instructions dated April 15, 1931 (Surveyor)

Chief of Party - F. B. T. Siems
Surveyed by F. B. T. Siems
Protracted and soundings plotted by R. A. Marshall
Verified and inked by B. G. Jones.

Fathometer soundings, fixed positions.

1. The records conform to the requirements of the Hydrographic Manual except that the compass deviation is not entered in the sounding records.
2. The plan and extent of development satisfy the specific instructions.
3. Soundings are in good agreement at crossings; the few discrepancies that occurred are noted in the Descriptive Report.
4. Depths curves can be drawn, parts of the 20, 50 and 100 fathom curves appear on this sheet.
5. Junction with contemporary survey sheets H-5177, H-4855, H-5178 and H-5184 are satisfactory. Sheet H-5182 has not yet been completed and there is no survey to the northeastward. The single line of red soundings at the eastern end of the sheet is from H-5177 and was plotted on that sheet because one of the signals used is outside the limits of H-5183. Chart 8502 has only a single sounding in the area covered by this sheet.
6. This is the first survey of the area covered by this sheet.
7. Recommendations - This sheet (H5183) should supersede for charting purposes all previous information in the area covered by it.

No further surveys are deemed necessary.

8. Reviewed by R. J. Christman. Dec. 7, 1932.

Inspected: E. P. Ellis.

App. A. M. Sobieralski