

4780

Hyd. & W.D.

Diag. Cht. No. 8152-2

Form 504	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
....., Director	
State: <u>SE. Alaska</u>	
<div style="border: 1px solid black; padding: 2px; display: inline-block;">S. & B. SURVEY L. & A. MAY 18 1928 Acc. No.</div>	
DESCRIPTIVE REPORT	
Topographic Hydrographic Hyd. & W.D.	} Sheet No. 4780
LOCALITY	
Kaigani Strait	
S. Approach to Kaigani Strait	
1927	
CHIEF OF PARTY	
H.A. Cotton	

4780
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S 72 3v

GOVERNMENT PRINTING OFFICE

DESCRIPTIVE REPORT

to accompany

WIRE DRAG SHEET NO. _____

FIELD LETTER " "

KAIGANI STRAITS

DATZKOO POINT, DALL ISLAND

July 16, 1927

Scale 1:10,000

AUTHORITY:

The survey was executed in accordance with the Director's Supplemental Instructions of March 15, 1927 to the Commanding Officer of the Steamer EXPLORER.

CONTROL:

Control for the survey was furnished by recovered Hydrographic and Triangulation stations established during the previous survey in this area.

METHODS:

The area indicated in the instructions of March 15, 1927 was dragged as shown on the smooth sheet and no indication of the reported rocks was found. A sounding line about two miles in length and in a north and south direction was run by the EXPLORER east of the Datzkoo Islands.

TIDAL DATA:

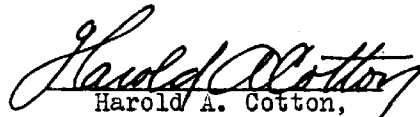
Tidal reductions for soundings and for the wire drag work were obtained from tide observations at View Cove, Tlevak Straits. Soundings and effective depths for the drag work were reduced to mean lower low water as established at View Cove by observations of the party during the season.

The curve plotted from the results of observations at View Cove and used for reductions of this work is attached to this report.

STATISTICS

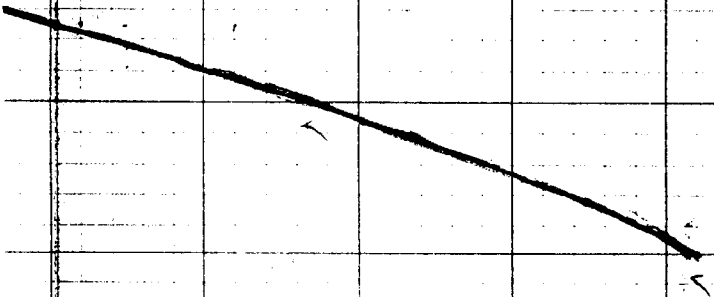
DATE	LETTER	VOLUME	DRAG LENGTH (feet)	POSITIONS	STATUTE MILES	Sound- ings
7/16/27	A	1	6000	19	2.0	14

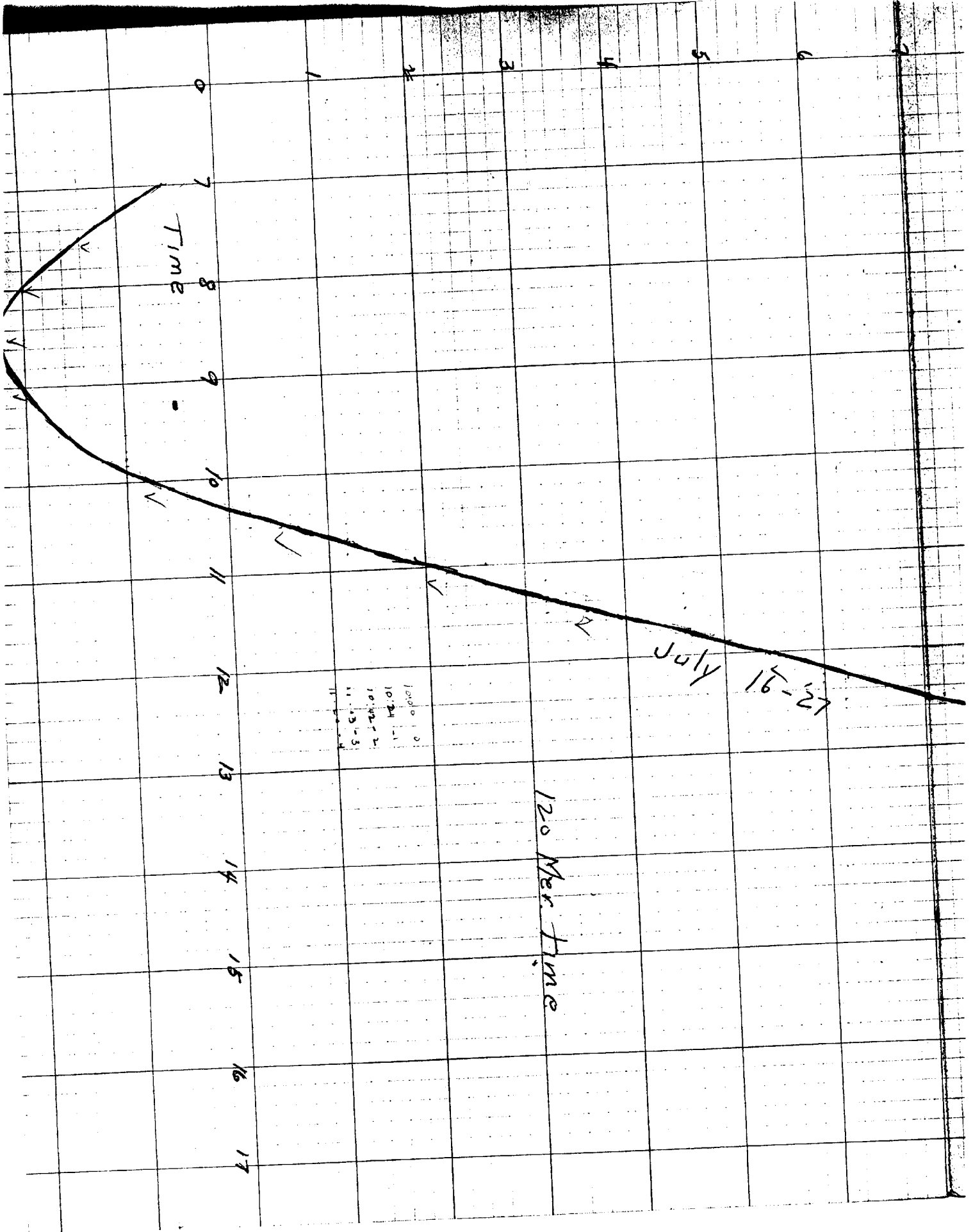
Respectfully Submitted,


Harold A. Cotton,
H. & G. Engr.,
Commanding EXPLORER.

Curve for reduction of soundings & wire drag
Cape Magon July 16 '27
New core Tidesos recorded on Auto. gauge.

Plotted by B.G.J.
✓ BY P.R.H.





July 16-27

120 Mer time

10:00 10
 10:24 11
 10:42 12
 11:00 13
 11:18 14

May 23, 1928.

(11)

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in
3 volumes of sounding records for

HYDROGRAPHIC SHEET 4780

Locality: CAPE MIZON, S.E. ALASKA.

Chief of Party: H. A. Cotton, 1927.

Plane of reference is M L L W

6.1 ft. on tide staff at View Cove.

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.

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO No. 11-DEM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

August 29, 1928.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4780

South Approach to Kaigani Strait

Surveyed in 1927

Instructions dated March 15, 1927 (EXPLORER)

Chief of Party, H. A. Cotton.

Surveyed by H. A. C.

Protracted by (hydrography) D. M. Watt.

Soundings plotted by B. G. Jones.

Verified and inked by C. A. Bowman.

Drag work plotted by B. G. Jones.

Verified by A. L. Shalowitz.

1. The purpose of this survey was threefold:
 - a. To disprove the existence of a charted sunken rock (marked P.D. on T. 2875) about 1/4 mile off the northern end of the Datzkoo Islands.
 - b. To disprove the rock awash in lat. 54° 43' 50", long. 132° 40' 14" which had been reported by the field party as advance information (see paragraph 9 of review for H. 4534).
 - c. To fill in the gap between hydrographic sheets Nos. 4534 and 4536.
2. The records conformed to the requirements of the General Instructions with the following exceptions:
 - a. In the end launch records the improper notation was used for the direction to the F and N buoys, e.g. "Led - F 3-25" being used instead of the accepted practice of "Led -3-25".
 - b. No tests for lift were recorded.

3. The work conforms to the specific instructions. The position of the sunken rock was adequately dragged and there seems to be no doubt that it does not exist in the location given on the old topographic sheet T. 2875. This rock has already been removed from the charts pursuant to advance information received from the field party. An appropriate note has been added to the original topographic sheet.

The rock awash mentioned under paragraph 1 b, above, has also been adequately covered by the drag and found not to exist. This tends to further strengthen the supposition made in the review of H. 4534, paragraph 9, that the field party in reporting the rock marked on this sheet as \odot Rok in advance of the completion of the smooth sheet made an error of 1 minute in latitude in scaling the dm's and dp's, thus placing the rock 1 mile to the north of its true position.

The gap between sheets 4534 and 4536 mentioned under paragraph 1, c above has for the most part been sufficiently filled in by the single line of soundings taken on the present survey. However, between lat. $54^{\circ} 43 \frac{1}{2}'$ and $54^{\circ} 44'$ the line should have been run approximately on long. $132^{\circ} 39'$ so as to more effectually fill in the gap between the above two mentioned sheets.

4. The usual plotting was done by the field party. The drag plotting is subject to the following criticism:
 - a. Numerous departures were made by the plotter from the recorded objects, but no note made in the records to that effect.
 - b. The tide curves from position 15 A to the end of the day were incorrectly plotted due to a failure to join corresponding guide and end launch positions. These had to be expunged and corrected by the verifier.
5. Attention is called to the fact that positions 5 - 8 A (E.L.) while recorded as using \odot Peak on the right, were plotted by the field party as using \odot Mis. This was accepted in the office as correct since otherwise position 9 A (E.L.) would have plotted about 150 meters back of position 8. This could not have been assumed correct since there was nothing in the records to indicate that the end launch reversed at position 8 A.

Positions 9 and 10 A (E.L.) were plotted using \triangle Kaigani on the right instead of \triangle Led as recorded, which use would have thrown the drag in a wholly impossible location. That \triangle Kaigani was used is further substantiated by the check angle obtained at position 10 A.

From position 11 A to the end of the day no further trouble was encountered with the signals.

It should be noted that even if the above assumptions are not correct, it will not affect the certainty of the drag work having covered the two rocks mentioned above, since both have been covered by that portion of the drag where no uncertainty exists. One point, however, should be referred to the field party for corroboration: Whether \odot Gar was actually recovered and used in the survey, particularly by the end launch. It is noted from the topography around this signal that it lies on the north side of a point of land that is indicated on the topographic sheet (T. 4178) as covered with pine trees. Since no contours nor elevations are shown on the sheet it is impossible to tell whether \odot Gar could have been seen from the southeast over the point of land. If it could not, then it would have an important bearing on the southern limit of the drag.

6. No Area and Depth Sheet has been prepared for this sheet since the smooth sheet is too simple to require one.
7. Reviewed by A. L. Shalowitz, August, 1928.

Approved:

Chief, Section of Field Records (Charts)

Chief, Section of Field Work (H. & T.)

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

C. & G. SURVEY
L. & A.
MAR 31 1928
Acc. No.

REG. NO.

4780

HYDROGRAPHIC TITLE SHEET
Hyd. and W.D.

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. _____

REGISTER NO. **4780**

State SE. ALASKA

General locality KAIGANI STRAIT

Locality S. Approach to Kaigani Strait
~~D. ZIKOO POINT, DALL ISLAND~~

Scale 1:10,000 Date of survey July 16, 1927.

Vessel Steamer EXPLORER

Chief of Party Harold A. Cotton

Surveyed by Harold A. Cotton

Protracted by D. M. Watt

Soundings penciled by B. G. Jones

Soundings in fathoms ~~Feet~~

Plane of reference MLLW as established at View Cove, Tlevak Straits.

Subdivision of wire dragged areas by B. G. Jones

Inked by B. G. Jones

Verified by Harold A. Cotton

Instructions dated March 15, 1927.

Remarks: _____