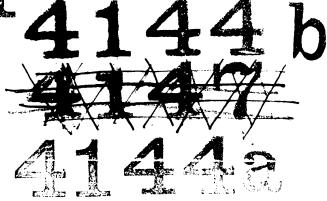
1144



Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State:
DESCRIPTIVE REPORT.
Sheet No.
LOCALITY:
,
!
CHIEF OF PARTY:

4144 4144 6

4144 444 444 Form 504

DEPARTMENT OF COMMERCE

State:

DESCRIPTIVE REPORT.

Sheet No.

LOCALITY:

191

CHIEF OF PARTY:

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS OFFICE;

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT TO ACCOMPANY SHEETS B & C.

Season

1920.

N.H.Heck, H.& G.E., Chief of Party, Commanding Str. EXPLORER.

TELEGRAPH ADDRESS:

RESS OFFICE:

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

Limits of the Sheets.

Sheet B. extends from Point Astley, the northern limit of sheetA, to Grave Point, the southern limit of sheet C.

Sheet C. embraces all the area outlined for the seasons work from Point Grave to the work done by the wire drag party of 1917. No dragging was done on sheet C west of Marmion Island and Point Arden.

Plotting.

All dragging done on these two sheets reached an effective depth of at least 85 feet and is shown in orange. The greater part of the area was dragged to considerable excess depth, 95 to 140 feet. The shore line was transferred from the topographic sheets with a pantageaph made on board ship and is quite accurate.

Bost sheet is on the datum used by the primary triangulation party to the southward (E.W.Eickelberg, 1917). No location of Point Arden light (Arden). Marmion Island light (Amar) Juneau Isle (A June) was available and an approximation was made from the best information available and this location was used for plotting the smooth sheet. A location for these points was requested from the Office but not received. In dragging the north arm of Port Snettisham the shore line was followed and the charted position of tahgents was used for control. The chart was used as a boat sheet.

No dangers to navigation were found on either of these sheets. The drag grounded on Twin Point and soundings taken at the time indicates less than the charted depth but weather conditions prevented a closer development and owing to the lateness of the season no further opportunity for dragging offered.

Currents.

In general the currents are fair with the channel. Eddy currents and heavy undertows are the rule rather than the exception and as a result data secured while dragging is not sufficient for a basis of positive statements as to strength and direction.

In the vicinity of Pt. Arden the currents are strong and very confused. Stronger undercurrents were encountered here than elsewhere on the working grounds.

New 1921 Day for for freshing

Survey methods and Apparatus.

Owing to the defective gear with which the seasons work was started and the time required to develop a substitute drag the work on these sheets was not completed.

The unfinished areas are untlined below:

Sheet B.

Along thr shore from Pt. Astley to Point Styleman including a special examination close inshore ground Point Styleman as the drag was once aground at this point although it is believed that the depth is greater than that to which examination is being made. An area of about 2.5 square miles north and northwest of Midway Island along the shore from Twin Point to signal Stone.

A short stretch of the shoreline from two miles south of Grave Point. Total area about twelve square miles.

Sheet C.

The shoreline on both sides of the channel from Grave Point to Point Arden and the shoreline around Grand Island. All of the area from Point Arden west to that dragged by the party of 1917.

Hydrography.

The hydrography called for by the instructions is incomplete. Little information useful to navigation would be secured by doing so, however, as in general the drag was taken very close to shore.

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

Lte 19	20	Let_ ter	Vol-	Posi- tions	Soundings	Miles, statute	Miles, square	Vessels
June	24	A	1	5		1.7	1.4	Helianthus & Scandinavia
	25	В		43		16.5	14.5	
July	16	.6	2	27		8.9	10.8	Helianthus, Scandina via, & M Tender
	17	D		22		9.9	12.5	Helianthus & Soandinavia
Aug.	14	B		12		4.7	7.0	
	16	y		22		6.0	5.0	
	17	G		17		5.5	8.6	•
	18	H		28	,	10.4	11.6	
•	119	J		15		5.1	3.7	
	24	K		18		7.4	6.0	Explorer & Helianthus
	25	L		18		6.5	5.6	Not randing
	28	M		7		2.0	3.0	Holianthus & Scandinavia
	30	N		42		14.3	21.5	
Sept.	2	0		32		12.2	13.5	
Oct.	1	P		34		16.2	9.0	
•	2	Q		20	2 .	9,6	3.0	
•				362	2 ,	136.9	136.7	
1 1 ps • 3								

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

Statistic Sheet for Hydrographic Sheet C

		Odesate	TO THIS	190 102 1	Acr often furth	Ditogo	•	
Date	1920	Let- ter	Vol-	Posi- tions	Soundings	Miles, statute	Miles.sq.	Vessels
June	5	A	1	17		7.4	7.0	Explorer & Scandinavia
	28	В		21		9.7	4.0	Helianthus & Scandinavia
	29	C		3		1.1	0,2	DOUTHT 1 TO
	30	Œ		13		3,6	2.5	
July	30	B		3	·	1.0	0.4	
mg.	16	. 7		10		3.3	4.3	•
,				6 7		26.1	18.4	•
•								••
•					·			
								•
							,	
						-		
ı								
•					,			
•								
							1	

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

Statistic Sheet Totals

	Positions	Soundings	Miles, statute	Miles, square
Sheet A	1320	79	436.8	269.0
Sheet B	362	2	136.9	136.7
Sheet C	67	0	26.1	18.4
Grand Total	1749	81	579.8	424.1

DIVISION	OF CHA	RTS. FILE	No

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

10u	pho	cale
	-	

STFE	xà role	T-,130	14410°.	- Wahir	610n	-
		- Dec .	-11,-1	930	,	19

SUPERINTENDENT, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted:

Chief of Party.

D. M. meters. D. M. meters. D. P. meters. Datum. D	Description.		Position.						
D. M. meters D. P. meters D. P			Lati	tude.	Lon	gitude.	Datum	deter-	Charts affected.
Light Frotters Second Seco		•	,	D. M. meters.	• ,	D. P. meters.	Datum.		
At. Glass Peminsula 57 87 145.1 133 48 388.2	de Brothers	57	17	1258.8	133 47	408.6			8200
At. Duck Pt. 57 12 1095.7 128 30 937.4	lagoade , water falls	57	55	1684.3	188 52	437.4			8800
302	t. Glass Peninsula	57	87	145.1	133 48	388.2		*	8200
57 24 1364.0 133 26 834.7 * 8 8200,8818 Spar (Ven) 57 21 893 133 52 821 * Topog. 8200	t. Duck Pt.	57	13	1095.7	188 30	937.4			8200,8215
Sear (Yea) 57 21 892 133 52 821 * Topog. 8200	t. Midwy Is.	57	50	128.4	13348	805.8	•		8300
	soar .	57	24	1364.0	133 26	834.7		*	8200,8218
	gar (Vea)	57	21	892	138 52	621		Topog.	8200
				42	,			•	
		-) (
		-							6
									-
	<u> </u>								
		-					-		-
	· Operation	-			1 . W		-		-
그는 문학자들은 그리고 그리고 있다. 학자들은 그리고	• H. C.S. (1985) • #8525 (1985)						-	<i>C</i>	-

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to chart.

AND REFER TO NO.

41/VFB

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

February 25, 1921.

Division of Hydrography and Topography:

Division of Charts:

Tidal reductions are approved in 1 volume of sounding records for

HYDROGRAPHIC SHEET 4144

Stephens Passage, S. E. Alaska. N. H. Heck in 1920

Plane of reference is Mean lower low water, reading

6.6 ft. on tide staff at Taku Harbor.

Condition of records: Satisfactory.

Chief, Division of Tides and Currents.

41/VFB

February 25, 1921.

Division of Hydrography and Topography:

Division of Charts:

Tidal reductions are approved in 1 volume of sounding records for

HYDROGRAPHIC SHEET 4144

Stephens Passage, S. E. Alaska. N. H. Heck in 1920

Plane of reference is Mean lower low water, reading

6.6 ft. on tide staff at Taku Harbor

Condition of records: Satisfactory.

Chief, Division of Tides and Currents.

Report on Verification of Hyd. 4144 (Wire Drag)

The area was dragged to a minimum depth of 85 feet at mean lower low nater and to obviate the neasety for tidal reductions or left corrections the drag was hooked up to 110 feet. The area and depth tracing therefore shows the swept area as 85+; the minimum depth obtained.

The area in Port Inettisham is not shown on the area and depth tracing for the reason that the signals are not plotted nor could they be found. The boat sheet may have these signals plotted but it is at present in the field for use in conjustion with further drag surveys. Therefore this part of the survey must be verified at a latter date.

The field drafting was excellent and the condition of the record was, generally, very good.

There were several places where the overlap was considered insufficient and appropriate notes made on the area and depth tracing.

The area and sight tracing of this sheet is the same as for Hyd Sheet 41442 of the same locality, so that it summarizes the work of both sheets. The place where the drag grounded near O ASH should receive further investigation.

Frank M Albert Drafteman Lee Fuld Recordo

april 26, 1922.

AND REFER TO NO. 9-DEM

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

SECTION OF FIELD RECORDS

Report on Wire Drag Sheet No. 4144, 41448 and 4144b.

Surveyed in 1920, 1921, and 1922.

Chiefs of Party: N. H. Heck and J. H. Hawley

Surveyed by: N. H. Heck, J. H. Hawley and B. C. Jones. Instructions dated March 2, 1920.

Protracted and Inked by: 4144-B. Friedenberg; 4144^a-W. S. Chovan, 4144^b-A. J. Hoskinson.

Verified and Area and Depth Sheet by; F. M. Albert.

- 1. The records conform to the requirements of the General Instructions.
- 2. The methods and character of operations fulfill the requirements of the General Instructions.
- 3. The depth and extent of dragging satisfy the specific instructions.
- 4. The two shoals at the outer limits of the drag work, north and south of Twin Point were not dragged over to determine the least water.
- 5. The supplemental Hydrography is suitable for correcting the charts.
- 6. The overlaps are ample except as shown on the Area and Depth sheet.
- 7. There are a few splits on this sheet all of which are shown on the Area and Depth sheet. These are of very small extent and would hardly warrant any special operations on that account. However, if work is ever done in this vicinity again it would be well to cover these together with the two shoals mentioned in paragraph 4. From the chart as well as from an inspection

- of the soundings on the smooth sheet, it would appear that the drag could have been carried closer inshore south of South Island. Otherwise this area is complete.
- 8. The field plotting was complete and none of the work had to be done over by the office draftsman.
- (a.Character and scope of drag operations:
 9. Rating of the work (excellent.
 (b.Field drafting: excellent.
- 10. Reviewed by; A. L. Shalowitz, September, 1922

Remarks:

Field Mos. B and C.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey/RE DRAG)
Register No. 4144 and 4144
State Alance, 5. E
General locality Stephen's Passage Holkham Bay Entrance to Jaku Mirdon Locality Point Astley to Point Grave and Point grave to Mirmion Island
Chief of party N.H. Hook
Surveyed by N.H. Heck and G.C. Jones
Date of survey June 24 to October 2, 1920
Scale 1-40,000
Soundings in . Feet
Plane of reference M.L.L.W.
Protracted by B.F.
Inked by seriedenborg . Verified by . In alkert .
Records accompanying sheet (check those forwarded):
Des. report, Tide books, Marigrams, Boat sheets,
Sounding books, Wire-drag books, Photographs.
Data from other sources affecting sheet
· •

4144 FEB 6 1922

41440

FORM 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY State: D. E. Claska
DESCRIPTIVE REPORT. Hydrw D. Sheet No. 4144
Stephens Passage Pt. Antley to Grand Island
OHIEF OF PARTY: M. Heck

Sheet B - - - page 2.

requirement that the same unit be used throughout the sheet,
seemed to have greater weight. It is recommended that a suitable provision covering this point be made for wire drag work.

SHEET B. DESCRIPTIVE REPORT.

This sheet is in continuation of the work of the sheet covering the same area in the 1920 season. Especial effort was made to finish it, even attempting the work in a southeasterly gale, but a small amount remains.

The unfinished areas include a small area west of Midway Island, revealed in the final plotting as not covered. Inshore area north and south of South Island. This area was sounded with the intention of dragging it, but weather and other conditions interfered at the time assigned for the work, and at the end of the season.

A small area off Port Snettisham.

Otherwise the survey is very complete. Soundings have been compared with the drag and sweep work and no discrepancy is noted.

It is recommended that a tracing or bromide of the unfinished area showing the limits of the previous work and soundings be furnished to the commanding officer of the Steamer EXPLORER, so that the work can be finished and plotted at the office on this sheet.

Owing to the necessity of showing drag depth in feet, it was necessary to plot the soundings in feet, though contrary to the requirements of a recent circular on the subject, as the

Sheet.B. No of Angles Soundings No. Angles Miles Hemarks Letter Length of Dreg 5/17 7500 48 5/27 8000 75 12.5 E/2 a 10000 **3**0 1.0 6/20 D 6000 57 72 8.2 6/2I E 10000 114 93 11.7 121 242 15.0 н day SR 6/22 F 6.5 22 46 10 44 2.0 в day sR 4500 G 6000 36 39 4.8 6/23 75 57 12.0 7/19 H 7000 20 I.2 J 4000 4 7/20 Summarh No. of angles.... 1163 miles dragget. 64.4 sdgs... 17.0 soundings.... 144 sq. miles.... 21.5

COPY TO FIELD RECORDS.

March 3, 1922.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in

1 volumes of sounding records for and 2 vols. of wire-drag records for

HYDROGRAPHIC SHEET 41448.

Locality: Stephens Passage, S.E. Alaska.

Chief of Party: W. H. Heck in 1921.
Plane of reference is mean lower low water, reading 6.6 ft. on tide staff at Taku Harber.

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.
- * 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".
- Legibility of record could be improved.
 - 13. Remarks.

Chief, Division of Tides and Currents.

Report on Verification of Myd Sheet 41442 (wire Drag.)

This sheet is a continuation of the work began in 1920. It carries the drag area closer to shore.

The splits have been indicated on the area and dipth tracing by appropriate symbol Insufficient overlap is likewise indicated.

This work, like the work of the preceding season, is done by the wire sweepset at 1/0 feet so as to give a minimum effective cepth of 85+ without corrections for tide and lift.

The field drafting was good and with a few exceptions the records were also legible and good. In dragging the vicinity of Midway Islands the drag grounded several times but no sounding

were taken as should have been done.

a 2 feet sounding app Lat 57°59', app. long. 134°05' is shown, because of its importance, on the area and depth sheet, although it was not obtained in conjunction with the were drag, but by supplemental hydrography which is not shown on the area and depth sheet. A fire and a seven feet sounding were obtained near a Two in Lat. 5 7°56' and long. 134°01'

The supplemental hydrography, while conveying valuable imformation, was done without the necessary segnals so that weak fines caused the first fire summlings of Aday being ometic entirely. It must be remembered horrever that one man took both angles and recorded and but two other men were in the party to do the rest of the necessary work. The area and depth sheet shows in addition the work accomplished in 1920.

April 26, 1922

Drafteinan, See Freed Records.

Location of Rock, Stephens Passage, off Station Point

Fixes

D South 87-20 5. tangent Linestone Inlet Rt. tangent Grand Id. 60-42

Twin Point 47-00

Pt. Styleman 107-06

Right tangent tand Id. 107-06

At 12:30 P.M., May 31, 1929 (about low water)

rock based about 5 feet. Rock in the

form of a circular mass about 30

meters in diameter. Fixes taken at

Center of mass. Rock covers at

high water

Rock is evidently in about position

of southernmost of two small islets

plotted off Station Friend on Charl 8300.

Southernmost Islet was evidently

intended for the rock.

Plotted rock om Hyd. Sheet 4144 a Submitted by W. M. Scaife Dec. 21, 1979.

Plotting checked By E.P. Ellis Jan. 1,1930 Æ,

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.
Register No. 4144 & Hyd. 7 W.D
State S.E. Alaska
General locality . Stephens Passage
Locality Pt. Astley to Grand I.
Chief of party N.H.Heck
Surveyed by Various officers, G.C. Jones chiefly.
Date of survey May - July 1921.
Scale 1440000
Soundings in feet
Plane of reference mean lower low water
Protracted by W.J.Choven . Soundings in pencil by A.J.Hoskinson
Inked by Verified by . F.M. albert.
Records accompanying sheet (check those forwarded):
Des. report, Tide books, Marigrams, .2 Boat sheets,
Data from other sources affecting sheet
Remarks. To be inspected by N.H.Heck at office.

41449

مشدان بترعيتيهم

Form 504 DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY State D. E alaska DESCRIPTIVE REPORT. LOCALITY: (additional work) 1800 CHIEF OF PARTY:

DESCRIPTIVE REPORT

Relative to work done in 1922 on Hydrographic Sheet 4144a.

The work on this sheet was executed in accordance with paragraph 14 of instructions dated February 13, 1922.

The splits in former work off Midway Islands and Port Snettisham were covered with the wire sweep using the ship and launch Scandanavia.

Additional work in the vicinity of South Island was done with the wire drag.

No shoals were found during the course of this work.

Tidal observations for the reduction of drag work were obtained in Taku Harbor on the starf established in 1921 which was still in place. This starf was re-leveled to the bench marks to guard against any change in it's position during the winter.

When the drag was towed by the Scandanavia and tender, it was controlled from the guide launch. When the drag or sweep was towed by the ship and launch, position angles were taken on both vessels and corresponding positions are entered opposite each other in the record.

Respectfully,

J.H. Hawley.

Chief of Party.

Sheet 4144

até 1922	Letter	Length of drag		angles E.L.	Miles	Remarks
4/11	A	5000	24	15	2.7	No sdgs. on this
4 /12	В	5000 3500	177	117	11.6	sheet.
.4/13	C	3 000 2 000	105	20	5.9	
• •		G00 das				
	тot	als	306	152	20-2	

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in volumes of sounding records for wire-drag records for

HYDROGRAPHIC SHEET 4144

Locality: Stephens Passage, S. E. Alaska

J. H. Hawley in 1922 Chief of Party:

Plane of reference is mean lower low water, reading

6.6 ft. on tide staff at Taku Harbor

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.

Report on Terrification I Jaking of H4144 Min Long.

Hydrographic sheet 4144 is additional work on the limits of 4144 and 41443. The area surrounding South Id. was dragged and some splits covered near fort snettisham and medway Ids. However, all the unswept areas of 1920 121 seasons, were not covered in 1922. The above areas, as shound on the area and depth tracing should be swept in the future. The records and drafting in the field were excellent.

The area dragged is shown on area and depth tracing of typh sheet 4144 and 41442

To descriptive seport was received.

July 3, 1922.

Frank M. albert, Draftsman, Sec. of Field Records.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4144
State S.E. Alaska
General locality . Stephens Passage
Locality . Vicinity of Taku Hor.
Chief of party
Surveyed by J.H.Hawley and G.C.Jones
Date of survey April 1922
Scale . 1/40000
Soundings in
Plane of reference . M.L.L.W.
Protracted by A.J.HoskinsonSoundings in pencil by
Inked by A.J. Hoskinson Verified by
Records accompanying sheet (check those forwarded):
Des. report, Tide books, Marigrams, Boat sheets,
Sounding books, Wire-drag books, Photographs.
Data from other sources affecting sheet
Remarks: For 1922 work only.