6855

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. 5143 *Office No.* 6855

LOCALITY

State Alaska

General locality Icy Strait / Excursion Inlet

Locality ~~Barge Transfer Depot~~

194 3

CHIEF OF PARTY

Elliott B. Roberts

LIBRARY & ARCHIVES

DATE

B-1870-1 (1)

6855

Form 537
Ed. Dec. 1930

REG. NO. H6855

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

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. 5143

REGISTER NO. H-6855

State Alaska

General locality Icy Strait / Excursion Inlet

Locality ~~Barge Transfer Depot~~

Scale 1:5,000 Date of survey Oct. 20-22, 19 43

Vessel M. V. E. LESTER JONES

Chief of Party Elliott B. Roberts

Surveyed by E. B. Brown

Protracted by R. M. Sylar

Soundings penciled by R. M. Sylar

Soundings in fathoms ~~feet~~ Fathoms

Plane of reference MLLW

Subdivision of wire dragged areas by

Inked by G. F. Jordan

Verified by G. F. Jordan

Instructions dated Director's Letter of Aug. 13, 1943

Remarks: Smooth Sheet and Plotting by the Seattle Processing Office.

U. S. GOVERNMENT PRINTING OFFICE

H6855 ~~H6856~~

DESCRIPTIVE REPORT TO ACCOMPANY SHEET FIELD NOS. 5143 & ~~5243~~
SE ALASKA, EXCURSION INLET, VICINITY OF BARGE TRANSFER DEPOT
~~AND ARMY MUNITIONS DOCK~~

Original Instructions: Director's letter dated 13 August 1943.

Survey Methods: Standard practice using the 808A depth recorder was followed throughout. This instrument was installed by this party in a standard U.S. Army 40-foot motor sailer.

One serial temperature observation was made to control the application of velocity corrections. Many small fresh water streams empty into Excursion Inlet which accounts for the low specific gravity results obtained near the surface.

All hydrographic lines were run by means of ranges which accounts for no tabulation of compass courses in the records.

Discrepancies: No noteworthy discrepancies were noted during the work.

Dangers: Dangers do not exist within the area surveyed, with the following exception:-

A 5-fathom shoal exists 110 meters from shore and 90 meters NNW of the NW corner of the northerly of two oil docks as shown on sheet (Field No. 5143), the position of the shoal being Lat. 58° - 24.4', Long. 135° - 25.9'. This shoal was crossed several times on closely spaced sounding lines, after which a period of approximately one hour was devoted to leadline search for the least depth. The least depth found was 5 fathoms, at position ~~55, b-day~~ 49 c day and again at position 144, c-day, which is stated to be approximately the least existing depth. This shoal is mud and appears to be part of the delta of a small stream. There is no kelp in this vicinity. It was understood that the army would build some form of marker on this shoal.

also 3½ fm 50m. NNE of 4½ fm.

Another shoal extends out from the rock point just south of the most southern oil dock. Not a detached shoal.

Anchorages: No anchorages exist within the surveyed area.

Previous Surveys: Previous surveys were done in 1914 ~~and 1926~~.

Geographic Names: No additional geographic names are involved.

E B Brown, Lieut USC&GS

Forwarded
Elliott B. Roberts
Elliott B. Roberts,
Lieut. Comdr., USC&GS,
Commanding

H6855

Statistics: Sheet (Field No. 5143)
Positions ---------- 447
Soundings ---------- 4 H.L.
Statute miles sounding lines --- 45.9

H6856

Statistics: Sheet (Field No. 5243)
Positions ---------- 87
Soundings ---------- 0
Statute miles sounding lines --- 8.2

H6855

LIST OF HYDROGRAPHIC SIGNALS , Sheet(Field No. 5143)

USA LAUNCH (attached to USC&GS MV E LESTER JONES)

South End of Excursion Inlet, SE Alaska

Vicinity of Barge Transfer Depot

Name	Origin
ACE	Topo., Field No. K, 1943 T6926
BAN	do.
BEE	do.
DOCK	do.
FAR	do.
HANG	Triang., 1914
OIL	Topo., Field No. K, 1943 T6926
POD	do.
SEX	~~do.~~ hydro.
SIG	do.
SOW	do.
STEEP	Triang., 1914
TRI	Topo., Field No. K, 1943
XRAY	do.

H-6855 & H-6856 Field Nos. 5143 5243

SEATTLE PROCESSING OFFICE NOTES

EXCURSION INLET

After plotting H-6855 and H-6856, ~~tracings~~ blueprints were prepared for navigation sheets for the Officer in Charge, Water Division, Army Transport Service, Excursion Inlet. Retained with smooth sheets.

Compilation of Navigation Sheet - Alaska Barge Transfer Depot:

The topography shown on T-6926a was transferred to the navigation sheet. The shore line from the 1914 sheet T-3460 was used from Latutude 58 24' northward for half a mile to the newly dredged creed channel. Here a junction was made with the shore line along the slope of a new fill which is shown on Drawing D-18 - Alaska Barge Terminal Waterfront Layout - by Guy F. Atkinson Co. The position of the H. W.M. along the slope of the fill is not known, but a line was assumed and used. As the scale was reduced from 1:1,200 to 1:5,000, the uncertainty is small. blueprint Nos. 37877-TO 37880

Between "A" Dock and "B" Dock, the high water line follows another fill, and was taken from the same source.

North of "B" Dock to "C" Dock, the shore line between the fills for the two wharves is taken from T-3460.

Structural features near the shore line and wharves, and the roads serving the wharves were taken from Drawing D-18. This was done with assistance of Commanders Meaney, Roberts, and Bose, who verified the existence of the features. Note that the channels of the two creeks have been changed in preparing the site.

A copy of Drawing D-18 accompanies the records of this project.

Soundings were selected from H-6855 only.
This sheet was constructed and represents existing conditions. The sources of material used was the best available in Seattle and probably will have to be followed in revising the chart.

F. H. H.

H-6856:

There is no triangulation on the sheet, and none on T-6926b from which the topography is taken. The new work was to be placed on the projection by fitting new topography to old topography of T-3460 (1914). On T-6926b there are cuts on tangents to points

along the west side of Excursion Inlet for orientation.

An enlargement of the necessary parts of T-3460 was made on a tracing and placed over a tracing of T-6926b. The topography of T-6926b was fitted to the old topography in the following manner:

(1) The old marine railway was recovered. The intersection of the railway with H.W.M. was held as common to both sheets.

(2) The sheets were adjusted in azimuth to fit:

(a) S.E. gable of cannery.

(b) The shore line at the western part of the new sheet.

(c) The shore line at the south end of the beach where the L.W.M. runs into H.W.M. at the foot of the bluffs.

(d) Tangent cuts to the old topo points shown on new topo plate - T06926b (L-1943).

A compromise was made with the above items and the 1914 datum of T-3460 was placed on smooth sheet H-6856 to facilitate a junction between the new sheet and the 1914 work.

The N.A. 1927 datum was used on the tracing prepared for a navigation sheet by applying the difference found at station STEEP 1914 between the 1914 datum and N.A. 1927 datum.

Smooth sheet H-6855 is on N.A. 1927 datum.

signed/ Edgar E. Smith
Assoc. Cartographic Engineer
Seattle processing Office

Approved and Forwarded:

signed/ F. H. Hardy
Officer in Charge,
Seattle Processing Office.

ARMY PROJECT, EXCURSION INLET, SE ALASKA 20 - 22 October 1943
Vicinity of Barge Transfer Depot and Army Munitions Dock,

DETERMINATION OF DEPTH RECORDER SCALE FACTOR CORRECTIONS. FOR 5143+5243

808A DEPTH RECORDER No. 47

Comparative depth readings:

A scale	B scale	Diff.	Condition	Pos. No.	Sdg. Day	Date Oct.
48-1	46-4	1-3	Good	19	a(5143)	20
53-5	52-2	1-3	Good	29	a(5143)	20
49-0	47-3	1-3	Good	77	a(5143)	20
49-0	47-4	1-2	Good	87	a(5143)	20
48-1	46-4	1-3	Good	100-101	a(5143)	20
48-5	47-3	1-2	Good	156-157	a(5143)	20
51-1	49-5	1-2	Fair	62	c(5143)	22
54-0	52-3	1-3	Fair	30	a(5243)	21
49-2	47-5	1-3	Good	34	a(5243)	21
	Mean plus	1-3				

Conclusion: Add 9-feet to all B scale soundings on project.

Fathograms checked, corrections OK
BSL

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
Form No. 717
Ed. May 1935

SHEET NO.....
OF ..... SHEETS

RECORD OF TEMPERATURES, SALINITIES, AND THEORETICAL VELOCITIES

U. S. C. and G. S. Ship E. LESTER JONES, E. B. Roberts, *Commanding*

Project Excursion Inlet, Alaska, *Locality*, 22 October, *19* 43

Date	Time ..... mer.	Latitude	Longitude	Depth *	Specific Gravity	At Temp.	Salinity †	Temp. at Depth	Velocity (Theoretical)	Comp. by—	Check. by—	REMARKS
	h. m.	° ′	° ′	*Fathoms*		°C.		°C.	*Meters/Sec.*			
Oct. 22	15 10	58-248	135-270	60	10256	86	33.2	5.8				
				20	10242	76	31.2	6.8				
				0	10162 *	75	21.1	7.0				
				10	10218 *	80	28.2	7.2				
	15 30			5	10164	78	21.3	6.9				
												Low values extrapolated in table
												Deep Sea Therm. 89223
					Hyd. T 1273	Therm. 380905						
				* Hyd. T. 375								

*If depth recorded is bottom, indicate in remarks column.
†If salinity by titration, indicate in remarks column.

U. S. GOVERNMENT PRINTING OFFICE 11—11506

Copy - RMS

Form 362
Ed. May, 1929
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TIDES: HOURLY HEIGHTS

Station: North End Excursion Inlet, SE. Alaska, Munitions Dock Year: 1943

Observer: R.W. Stone Lat. 58° - 29.1' Long. 135° - 28.9'

Time Meridian: 120th Height datum is T.S. Zero 1943 which is 23.68 ft. below B. M. #3 (1914)
1927 NA Datum
MLLW on T.S. is 6.0 ft.

U. S. GOVERNMENT PRINTING OFFICE 11—792

Month and Day	mo. d. Oct 20	d. 21	d. 22	d.	d. Oct 20	d. 21	d. 22	Horizontal Sum
Day of Series								
Hour	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet
0	.	.	.	.	.	.	.	.
1	.	.	.	.	.	.	.	.
2	.	.	.	.	.	.	.	.
3	.	.	.	.	.	.	.	.
4	.	.	.	.	.	.	.	.
5	.	.	.	.	.	.	.	.
6	.	.	.	.	.	.	.	.
7	15.6 / 9.6	14.2 / 8.2	13.3 / 7.3	.	.	.	.	.
8	15.3 / 9.3	15.0 / 9.0	14.7 / 8.7	.	.	.	13.4 / 10.5	.
9	14.0 / 8.0	15.2 / 9.2	15.3 / 9.3	.	.	.	13.7 / 10.8	.
10	12.7 / 6.7	14.6 / 8.6	15.4 / 9.3	.	.	.	13.9 / 11.0	.
11	11.2 / 5.2	13.4 / 7.4	14.8 / 8.8	.	9.9 / 7.0	.	13.55 / 10.65	.
Noon	10.4 / 4.4	12.1 / 6.1	13.7 / 7.7	.	9.3 / 6.4	.	13.3 / 10.4	.
13	10.4 / 4.4	11.0 / 5.0	12.2 / 6.2	.	8.9 / 6.0	.	12.65 / 9.75	.
14	10.9 / 4.9	10.5 / 4.5	10.8 / 4.8	.	8.8 / 5.9	.	12.1 / 9.2	.
15	12.2 / 6.2	10.6 / 4.6	10.0 / 4.0	.	8.75 / 5.85	.	11.3 / 8.4	.
16	13.7 / 7.7	11.5 / 5.5	9.8 / 3.8	.	8.85 / 5.95	9.1 / 6.2	10.5 / 7.6	.
17	15.2 / 9.2	12.9 / 6.9	10.4 / 4.4	.	9.3 / 6.4	8.9 / 6.0	9.8 / 6.9	.
18	16.0 / 10.0	14.1 / 8.1	.	.	9.9 / 7.0	9.0 / 6.1	9.2 / 6.3	.
19	.	.	.	.	10.5 / 7.6	9.15 / 6.25	8.7 / 5.8	.
20	.	.	.	.	11.3 / 8.4	9.55 / 6.65	8.45 / 5.55	.
21	.	.	.	.	12.05 / 9.15	10.0 / 7.1	8.3 / 5.4	.
22	.	.	.	.	12.8 / 9.9	10.5 / 7.6	8.35 / 5.45	.
23	.	.	.	.	13.5 / 10.6	11.1 / 8.2	8.55 / 5.65	.
Sum	.	.	.	.	.	.	.	.

n'ly cannery

s'ly Cannery

Mark this record to indicate Original record. Direct T.S. readings by ship's personnel.

Red Values are tide corrections to be subtracted from the recorded soundings.

√GBR

Sum for ____ = ____ Divisor=(28d) 672; (29d) 696; (30d) 720; (31d) 744. Mean for month=

Tabulated by ____ Date ____ Summed by ____ Date ____

Form 362
Ed. May, 1929
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TIDES: HOURLY HEIGHTS

Station: South End Excursion Inlet, Barge Transfer Depot, SE Alaska Year: 1943

Observer: Ship's Personnel Lat. 58°- 25.5' Long. 135°- 27.1'

Time Meridian: 120 °W 1927 NA Datum Height datum is MLLW zero 1943 which is 22.95 ft. below B. M. #3 (1923)

MLLW on T.S. is 2.9 Ft.

U. S. GOVERNMENT PRINTING OFFICE 11—792

Month and Day	mo. Oct d. 20	d. 21	d. 22	d.	d.	d.	d.	Horizontal Sum
Day of Series								
Hour	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet
0	.	.	.	.	.	.	.	.
1	.	.	.	.	.	.	.	.
2	.	.	.	.	.	.	.	.
3	.	.	.	.	.	.	.	.
4	.	.	.	.	.	.	.	.
5	.	.	.	.	.	.	.	.
6	.	.	.	.	.	.	.	.
7	.	.	.	.	.	.	.	.
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9	.	.	.	.	.	.	.	.
10	.	.	.	.	.	.	.	.
11	.	.	.	.	.	.	.	.
Noon	.	.	.	.	.	.	.	.
13	.	.	.	.	.	.	.	.
14	.	.	.	.	.	.	.	.
15	.	.	.	.	.	.	.	.
16	.	.	.	.	.	.	.	.
17	.	.	.	.	.	.	.	.
18	.	.	.	.	.	.	.	.
19	.	.	.	.	.	.	.	.
20	.	.	.	.	.	.	.	.
21	.	.	.	.	.	.	.	.
22	.	.	.	.	.	.	.	.
23	.	.	.	.	.	.	.	.
Sum	.	.	.	.	.	.	.	.

See Other Sheet for Sums

Sum for = Divisor=(28d) 672; (29d) 696; (30d) 720; (31d) 744. Mean for month=

Tabulated by _____ Date _____ Summed by _____ Date _____

Form 138
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Ed. Nov., 1929

TIDES: HIGH AND LOW WATERS

Station: North End Excursion Inlet, Munitions Dock, SE Alaska Lat. 58° - 29.1

Observations begin 1717 Oct 19, 1943 end 1711 Oct 22, 1943 Long. 135° - 28.9

Time meridian 120 E.t. Height datum TS Zero (1943) 1927 NA Datum which is 23.68 ft. below B. M. #3 (1914)
MLLW on TS, is 6.0 ft

11—671

DATE Year	MOON'S TRANSITS (Greenwich mean civil)	TIME OF—		LUNITIDAL INTERVAL		HEIGHT OF—		REMARKS
		High Water	Low Water	High Water	Low Water	High Water	Low Water	
mo. d.	hr. dec.	hr. dec.	hr. dec.	hr. dec.	hr. dec.	feet	feet	
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
Sums; carried forward								

Form 138
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Ed. Nov., 1929

TIDES: HIGH AND LOW WATERS

Station: North End Excursion Inlet

Highest tide: Date _____ Height _____ ft. Lowest tide: Date _____ Height _____

$(K_1+O_1)\div M_2$ or $2(DHQ+DLQ)\div Mn$ = _____ $F(Mn)$ = _____ F_1 = _____

DATE Year	MOON'S TRANSITS (Greenwich mean civil)	TIME OF— HIGH WATER	TIME OF— LOW WATER	LUNITIDAL INTERVAL HIGH WATER	LUNITIDAL INTERVAL LOW WATER	HEIGHT OF— HIGH WATER	HEIGHT OF— LOW WATER	REMARKS
mo. d.	hr. dec.	hr. dec.	hr. dec.	hr. dec.	hr. dec.	feet	feet	
Brought forward								
18								
19								
		17.7				17.5		
20		07.0	00.6			15.6	6.2	
		18.7	12.8			16.2	10.2	
21		08.8	02.6			15.2	7.2	
		20.1	14.2			15.5	10.5	
22		09.7	02.8			15.5	7.3	
			15.9				9.8	
23								
24								
25								
26								
27								✓ BR
28								
29								
30								
31								
Sums								
Correction to intervals								
Local intervals							Mn	
Greenwich intervals							MTL	

	HHW	LLW	
			Sums
			Means

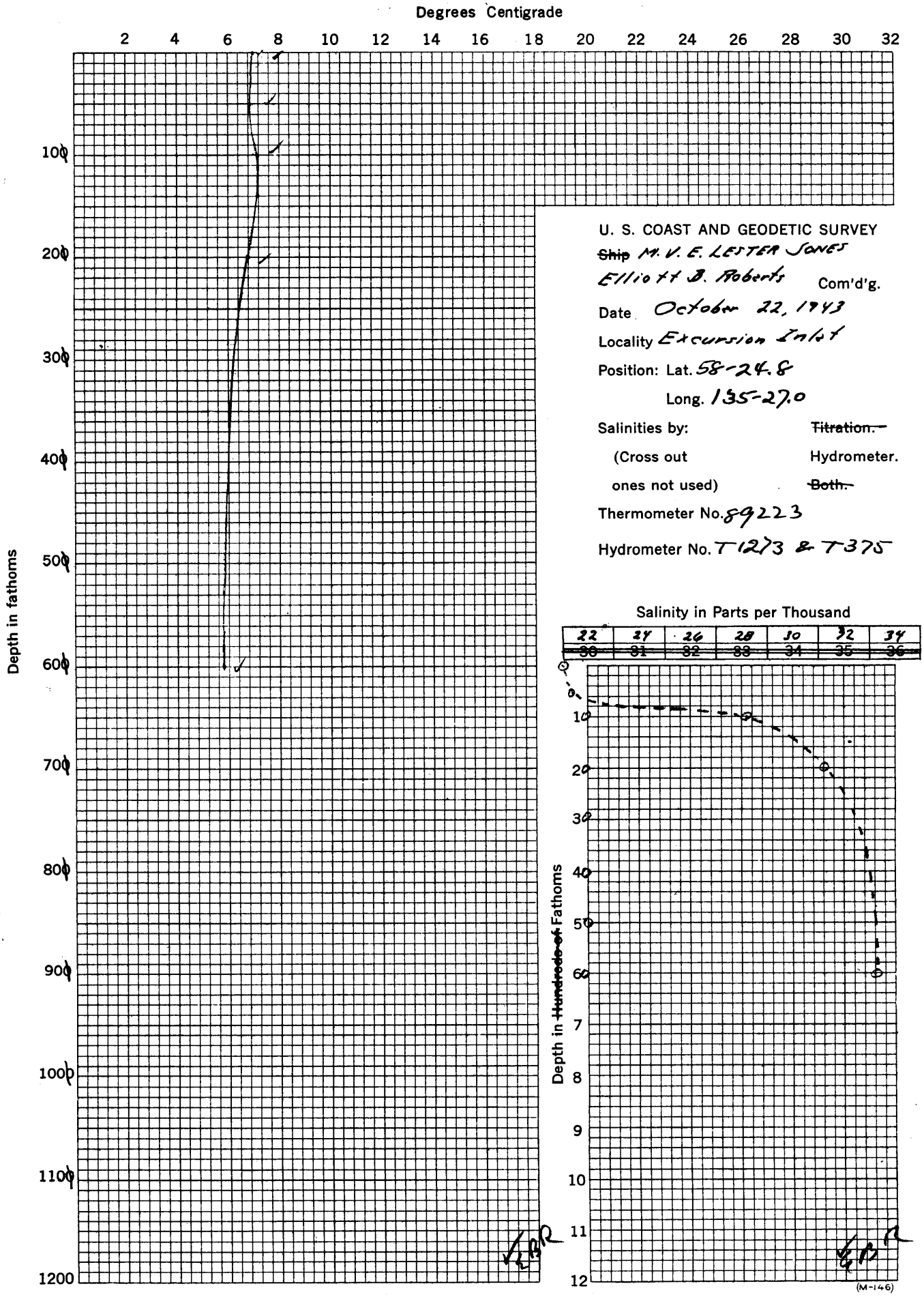
	Mn	DHQ	DLQ
Observed			
Factor			
Corrected			

Tabulated by _____ Date _____ Checked by _____

Reduced by _____ Date _____ Checked by _____

U. S. GOVERNMENT PRINTING OFFICE: 1931 11—671

GRAPH OF WATER TEMPERATURES AND SALINITIES



U. S. COAST AND GEODETIC SURVEY

~~Ship~~ M. V. E. LESTER JONES

Elliott B. Roberts Com'd'g.

Date October 22, 1943

Locality Excursion Inlet

Position: Lat. 58-24.8

Long. 135-27.0

Salinities by: ~~Titration.~~

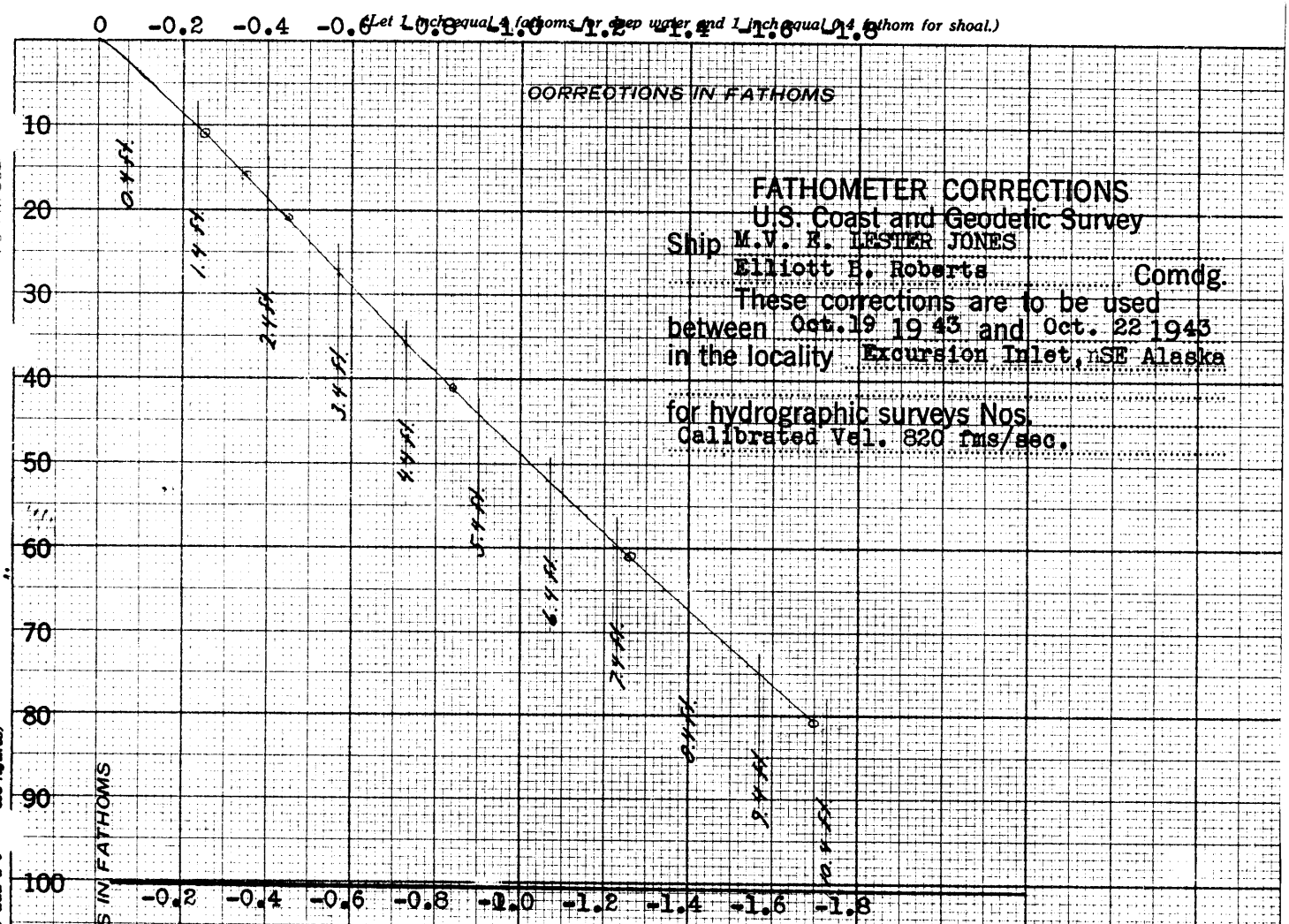
(Cross out Hydrometer.

ones not used) ~~Both.~~

Thermometer No. 89223

Hydrometer No. T 1273 & T 375

(M-146)



(Let 1 inch equal 4 fathoms for deep water and 1 inch equal 0.4 fathom for shoal.)

(For deep water add a 0 ese figures)

FATHOMETER CORRECTIONS

U.S. Coast and Geodetic Survey

Ship M.V. F. LESTER JONES

Elliott B. Roberts Comdg.

These corrections are to be used between Oct. 19 1943 and Oct. 22 1943 in the locality Excursion Inlet, SE Alaska

for hydrographic surveys Nos.

Calibrated Vel. 820 fms/sec.

CORRECTION TABLE

(Change Point 0.4)

Depth Range	Correction
0 to 3 fms	0 ft
10	-1
19	-2
28	-3
36	-4
43	-5
52	-6
60	-7
67	-8
75	-9
--	-10

Copy v R/TJ

TIDE REDUCERS --- EXCURSION INLET

120 M Time

October 20th Period 120th	Correction (Feet)	
08:30 to 09:14	-10	a day SOUTH END (Excursion Inlet)
to 09:59	-9	
to 10:47	-8	
to 11:40	-7	
to 13:50	-6	
to 14:40	-7	
to 15:23	-8	
to 16:04	-9	
to 16:45	-10	

October Period	21st Correction	
07:04 to 10:17	-9	a day NORTH END (Excursion Inlet)
to 11:05	-8	
to 11:52	-7	
to 12:45	-6	
13:~~30~~ 28 to 14:51	-6	b day SOUTH END
to 16:10	-7	
to 17:02	-8	
to —	-9	

October Period	22nd Correction	
08:~~10~~ to 11:06	-11	c day SOUTH END
to 11:53	-10	
to 12:35	-9	
to 13:13	-8	
to 14:01	-7	
to ~~16:30~~	-6	

√4 BR

Comp by RMS

TIDES

EXCURSION INLET

1943

H06855

TIDE CURVES
EXCURSION INLET
S.E. ALASKA
Oct 20 - 22, 1943

— LEGEND —

Tide Correction Curve - No. End Excursion Inl.

Tide Correction Curve - So. End Excursion Inl.

Note: Tide Gage Readings used at No. End. Staff Readings " " So. " .

Oct 22 South

Oct 20 South

Oct 21 South

Oct 20 North

Oct 21 North

Oct 22 North.

Curve Extended

HBR

Comp by RMS

VEB-2

TIDE CORRECTION (Ft.)

12 11 10 9 8 7 6 5 4 3

Time

7:00 8:00 9:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00

KCC
7412

Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. June 1937

TIDE NOTE FOR HYDROGRAPHIC SHEET

January 19, 1944

~~Division of Hydrography and Topography~~:

✓ Division of Charts: Attention: H. R. EDMONSTON

Plane of reference approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 6855

Locality South End Excursion Inlet, Barge Transfer Depot, Alaska

Chief of Party: E. B. Roberts in 1943
Plane of reference is mean lower low water reading
2.9 ft. on tide staff at Barge Transfer Depot
20.1 ft. below B. M.3 (1914)

Height of mean high water above plane of reference is 14.4 ft.

Condition of records satisfactory except as noted below:

E. K. Green

Chief, Division of Tides and Currents.

U. S. GOVERNMENT PRINTING OFFICE 154327

	Remarks	Decisions
1		
2		
3		
4		
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9		
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22		
23		
24		
25		
26		
27		
M 234		

GEOGRAPHIC NAMES

Survey No. H6855

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
Alaska										1
Excursion Inlet										2
Barge Transfer Depot										3
										4
										5
										6
										7
										8
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										24
										25
										26
										27
										M 234

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. H6855

Records accompanying survey:

Boat sheets ..1..; sounding vols. ....; wire drag vols. ....;

bomb vols. .....; graphic recorder rolls ..1...;

special reports, etc. .1 blueprint.....

.....

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet		..447
Number of positions checked		7
Number of positions revised		0
Number of soundings recorded		.2600 (approx)
Number of soundings revised (refers to depth only)		0
Number of soundings erroneously spaced		0
Number of signals erroneously plotted or transferred		0
Topographic details	Time	...1/2
Junctions	Time	...0.
Verification of soundings from graphic record	Time	..16.

Verification by..G.F.Jordan.....Total time ..38. Date Feb24,1944

Review by .....G.F.Jordan..... Time ...4. Date Feb. 24, 1944

FORM M-238

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

No. H H6855

No. T

received
registered
verified
reviewed
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
22			
24			
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82			
✓ 83		J.B.E	Comdr Finnegan
88			
90			

RETURN TO

82	Comdr. R. W. Knox

H-6855 and H-6856

TIDAL NOTE

Extra Copy

H-6855

Excursion Inlet - Southeast Alaska
Barge Transfer Depot
Staff at S.E. corner of "C" Dock
Latitude - 58° 25.2
Longitude- 135 26.8
Staff reading of MLLW - 2.9 feet

H-6856

Excursion Inlet - Southeast Alaska
Munitions Pier
Portable Automatic Gage at
N.W. corner of wharf
Latitude - 58° 25.1
Longitude- 135 26.9
Staff reading of MLLW - 6.0 feet.

- - - - - - - - -

Tide reducers for the work done in the vicinity of the Barge Transfer Depot, (Sheet Field No. 5143, H-6855), depend on separate tide staff readings taken only while hydrography was done. The tide staff was connected to two old bench marks, also to three additional bench marks established by U.S.E.D. Datum plane was deduced from mean results of leveling to the two old C.&.G.S. bench marks.

In the vicinity of the Army Munitions Dock, (Sheet Field No. 5143, H-6856), tide reducers depend on the portable automatic tide gage records observed at this dock. Connection was made to one old bench mark, the only one recovered, and datum plane deduced therefrom. Two additional bench marks were established.

A portable automatic tide gage was installed on the Army Munitions Dock and was maintained during the time hydrography was done on sheets H-6855 and H-6856.

DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY — REGISTRY NO. 6855

Field No. 5143

Alaska, Icy Strait, Excursion Inlet
Surveyed in October 1943; Scale 1:5,000
Instructions dated August 13, 1943

Soundings:

Hand lead
808 Fathometer

Control:

Three-point fix on shore signals

Chief of Party - E. B. Roberts
Surveyed by - E. B. Brown
Protracted by - R. M. Sylar
Soundings plotted by - R. M. Sylar
Verified and inked by - G. F. Jordan
Reviewed by - G. F. Jordan
Inspected by - H. R. Edmonston, February 26, 1944

1. Shoreline and Signals

The control for this survey is from a 1914 triangulation station and plane table survey T-6926a.

Only partial shoreline and dock area delineation were obtained, as this was a special project. The shoreline at the top and bottom of the sheet satisfactorily joins T-3460 (1914).

2. Sounding Line Crossings

Satisfactory.

3. Submarine Features

All necessary depth curves are drawn satisfactorily. The only outstanding submarine feature is the shoal at Lat. 58°24.36', Long. 135°25.95' which is discussed in the descriptive report.

4. Junctions with Contemporary Surveys

There are no contemporary junctional surveys on this special project.

5. Comparison with Prior Surveys

H-3672 (1914), 1:20,000 scale, is the only prior survey in this area. The difference in scales does not allow a suitable comparison. There are no noticeable discrepancies in depth.

6. Comparison with Wire Drag Surveys

There are no wire drag surveys within the limits of the present survey.

7. Comparison with Chart 8302 (latest print of 9-25-43)

This chart, on a scale of 1:80,000 does not offer a suitable comparison with the present survey. The agreement is satisfactory.

There are no dredged channels nor aids to navigation in this area. The descriptive report mentions the possible establishment of a marker on the 4-4/6-fathom shoal noted in par. 3.

8. Condition of Survey

The descriptive report and sounding records are complete in all detail. The smooth plotting was very good.

The number of soundings in the records and on the smooth sheet were doubled by scaling every 15 instead of 30-second intervals.

Comparisons of the relative depths scaled from the A and B scale were obtained from regular sounding lines over slopes. Althdugh the several comparisons appear to agree on the 9-ft. difference in depth, comparisons on more level bottom, with boat stopped, is generally more preferable.

9. Compliance with Instructions

Satisfactory.

10. Additional Work Recommended

None.

11. Superseded Surveys

H-3672 (1914) is superseded, in part.

Examined and approved:

Robert W. Knight
Chief, Surveys Branch

J. C. Borden
Chief, Division of Charts

Earl O. Heaton
Chief, Section of Hydrography

G. G. Rude
Chief, Division of
Coastal Surveys

applied to chart 8302 6/9/44 GHE.

" " " 8304 6/10/44 GHE

" " " 8202 7/12/44 GR