

8689

Diag. Cht. No. 8201-3.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. HO-12,5-1-62 Office No. H-8689

LOCALITY

State SOUTHEAST ALASKA

General locality SUMNER STRAIT

Locality BOULDER POINT TO SUMNER ISLAND

19 62

CHIEF OF PARTY

EUGENE W. RICHARDS

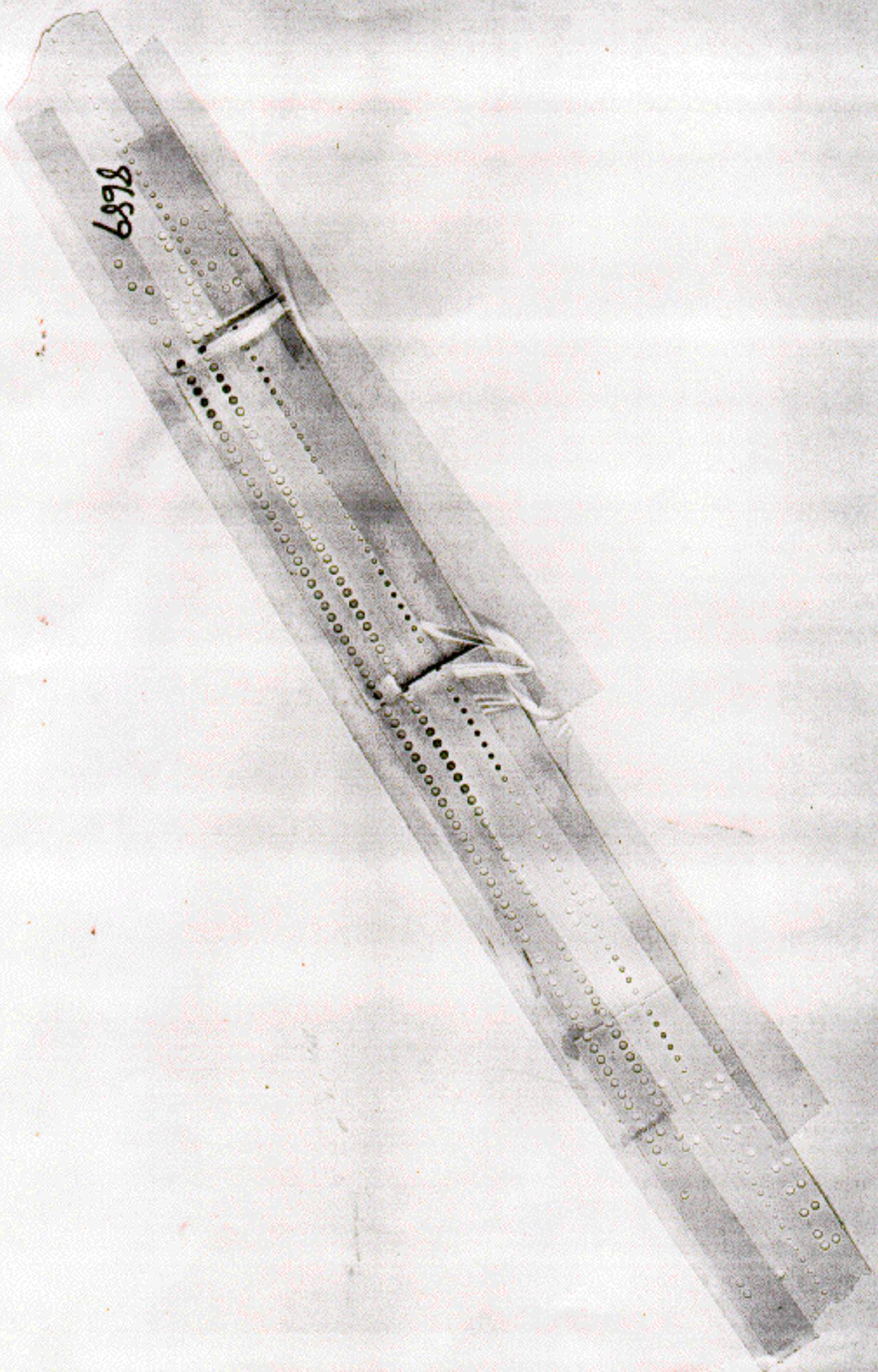
LIBRARY & ARCHIVES

DATE JUL 12 1963

USCOMM-DC 5087

8689

6898



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.

REGISTER NO. H-8689

Field No. HO-12.5-1-62

State S. E. Alaska

General locality Sumner Strait

Locality Boulder Point to Sumner Island

Scale 1:12,500 Date of survey 1962

Instructions dated Revised Instructions, 1-28-62, Supplemental Instructions 2-5-62
Supplemental Instructions, 12-8-60

Vessel Ship HODGSON, Launch 1192 and Port Motor Whaleboat

Chief of party Eugene W. Richards

Surveyed by H. E. McCall, B. F. Karwisch and D. E. Kimbell

Soundings taken by fathometer, ~~graphic recorder, hand lead, wire~~ Fathometer

Fathograms scaled by Fathometer Operators

Fathograms checked by Ship's Officers and Fathometer Operators

Protracted by Allan Jenks, W. E. Gott & C. R. Lehman

Soundings penciled by W. E. Gott & C. R. Lehman

Soundings in fathoms ~~100~~ at ~~1000~~ MLLW

REMARKS:

.....
.....
.....
.....
.....
.....

Handwritten initials

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SURVEY H-8689
(Field No. HO-12.5-1-62)

Scale 1:12,500

1962

Ship HODGSON

CDR EUGENE W. RICHARDS, COMDG.

A. PROJECT

Project No. OPR-347 (originally CS-347).

Instructions:

Revised Instructions - Project CS-347, Sumner Strait,
Southeast Alaska, No. S-2-HO, dated 28 January 1960.

Supplemental Instructions - Project OPR-347, Sumner Strait,
Southeast Alaska, No. S-2-HO, dated 8 December 1960.

Supplemental Instructions - Project OPR-347, Sumner Strait,
Southeast Alaska, No. S-2-HO, dated 5 February 1962.

B. AREA SURVEYED

The area surveyed is in Sumner Strait extending north from
Lat. 56°18.2'N to Sumner Island between Long. 133°44.5'W and
Long. 133°49.0'W.

Junctions with prior surveys:

H-8653 (HO-10-1-61) along the western limits from Lat.
56°18.5'N to Lat. 56°19.0'N.

H-8688 (HO-10-2-62) along the western limits from Lat.
56°19.0'N to Lat. 56°23.1'N.

H-8605 along the southern limit.

B. AREA SURVEYED

Junctions with prior surveys (cont'd.):

H-8150 along the eastern limit to Latitude $56^{\circ}20.0'N$.

H-8149 along the eastern limit from Latitude $56^{\circ}20.0'N$ to Latitude $56^{\circ}23.7'N$.

C. SOUNDING VESSEL

All soundings were obtained with the Ship HODGSON, Launch 1192 and the Port Motor Whaleboat.

Day letters for all launch hydrography are blue lower case letters.

Day letters for all whaleboat hydrography are brown lower case letters.

Day letters for all ship hydrography are purple capital letters.

D. SOUNDING EQUIPMENT

DE-723 Fathometer, Serial #142, was used for all ship hydrography.

DE-723 Fathometer, Serial #146, was used for all Launch 1192 hydrography.

808 Fathometer, Serial #62S, was used for all whaleboat hydrography.

The following corrections were made to the recorded soundings:

Index Correction:

Scaled direct from the fathogram.

Tide Correction:

Tide reducers were taken from the curve of hourly heights for the Reid Bay tide gage, except as noted in the Tide Note.

D. SOUNDING EQUIPMENT (cont'd.)

Echo Correction:

The bar check, velocity and phase corrections were combined into one correction for the launch and whaleboat. The corrections as determined by bar checks were used to a depth of 10 fathoms, then the layer corrections, determined by temperature and salinity measurements, were added to the bar check values to give the correction at depth. The correction at depth values were plotted on Form J-100-5, then the Echo Corrections were abstracted in accordance with 5-101 of Publication 20-2 and the phase corrections applied.

The velocity corrections as determined by temperature and salinity observations were applied as a single correction for all ship hydrography.

Draft readings were taken twice daily and the draft correction was applied in a fourth column. This correction was constant for the entire sheet as noted in the fathometer report. *-Draft correction includes the 1 ft. error described in the Instrument Division's memo dated 10-1-62.* -DJR

8-3-72

E. SMOOTH SHEET

The projection was made by the Washington Office on the ruling machine.

Preliminary processing, through completion of sounding volumes, was done by officers and ship's personnel. Smooth plotting has not begun as of this date.

F. CONTROL

Control is based on recovered triangulation stations for which data is published and photo-identified stations (Manuscripts T-10707, T-10708 and T-10721).

All hydrography was controlled by visual fixes using the above mentioned types of signals.

The main system of sounding lines were run in a north - south direction. Shoreline was run parallel to the beach to provide maneuvering room for the launch.

DESC REPORT
T-10709
T-10715

G. SHORELINE

Shoreline will be transferred to the smooth sheet from blue-line prints of photogrammetric manuscripts T-10707, T-10708 and T-10721. This area was exposed to strong southeast swells during the period of this survey and detailed inspection for the determination of rock heights, etc. was impracticable. The hydrographer noted no discrepancies when running the inshore hydrography.

T-10709
T-10715

The low water line was defined as nearly as sea conditions permitted except in areas of steep, near vertical shores and foul areas near the low water line.

H. CROSSLINES

Crosslines were in excess of 10% of the regular system of sounding lines. There was generally good agreement at all crossings, except in the southeast corner of the sheet where the bottom was very irregular. The discrepancies in this area will probably be eliminated when the smooth plotting is completed. ✓

I. JUNCTIONS

Junctions with prior surveys and concurrent surveys was satisfactory in all areas. ✓

J. COMPARISON WITH PRIOR SURVEYS

The only prior survey of the area is H-1754 (1886) Scale 1:80,000. Lack of detail and difference in datum make a comparison with that survey impracticable. This survey supercedes H-1754 and there are no features on H-1754 which should be retained for charting purposes.

K. COMPARISON WITH THE CHART

Chart 8201, the only chart in the area, is based on prior survey H-1754 and is of such ~~large~~ scale that it is of little importance for comparison.

The following shoals were found and should be charted.

<u>Latitude</u>	<u>Longitude</u>	<u>Least Depth</u>	<u>Line with Least Depth</u>
56° 23.52' N	133° 46.97' W	8.8 fms	23c (blue)
56° 23.42' N	133° 46.48' W	0.8 fms	21c (blue)
56° 23.38' N	133° 46.28' W	2.2 fms	144-145a (blue)
56° 23.55' N	133° 46.95' W	1.5 fms	24c (blue)
56° 23.32' N	133° 46.25' W	7.3 fms	60-61a (blue)
		6.3 fms	

L. ADEQUACY OF SURVEY

This survey is considered complete and adequate in all respects to supercede prior surveys for charting purposes. No part of this survey is considered substandard. All areas of shoaling on this survey are considered adequately developed.

Shoals were developed by running a series of parallel lines 10 to 15 meters apart parallel to the regular system of lines. Upon finding the shoalest soundings, three lines, one on either side and one over the shoalest sounding, were run perpendicular to the normal system of lines. Only those lines with critical soundings were retained.

M. AIDS TO NAVIGATION

There were no aids to navigation within the limits of this sheet.

N. STATISTICS

	<u>No. Positions</u>	<u>Miles</u>
Ship HODGSON (Visual Control) 2730	455	141.5
Launch 1192 (Visual Control) 2732	259	46.1
Whaleboat (Visual Control) 2731	171	20.7
Totals	885	208.3
Total Area (Sq. N. Miles)		17.8
No. of Tide Stations		1
No. of Bottom Samples		25
No. of Current Stations		1
No. of Serial Temperature Observations		3

O. MISCELLANEOUS

None

P. RECOMMENDATIONS

None

Q. REFERENCES TO REPORTS

Reports:

- ✓ Fathometer Report 1962 (to be forwarded)
- Coast Pilot Report 1962 (to be forwarded)
- Geographic Names Report 1962 (to be forwarded)

Q. REFERENCES TO REPORTS (cont'd.)

<u>References Forwarded Separately:</u>	<u>Date Fwded.</u>	<u>Trans. Ltr. #</u>
Photographs	9/6/62	HO-42-62
Reid Bay Tide Marigrams	8/3/62	HO-28-62
	9/24/62	HO-44-62
Reid Bay Tide Station Report and Leveling Records	8/3/62	HO-28-62
Current Station Tapes and Records	8/16/62	HO-33-62

Records on board:

- 1 Boat Sheet, HO-12.5-1-62
- 5 Sounding Volumes, HO-12.5-1-62
- DE-723 Fathograms
- 808 Fathograms
- Tide Curves and Tabulated Tide Reducers

LIST OF GEOGRAPHIC NAMES

Sheet H-8689

OPR-347

Names Used on Smooth Sheet:

Summer Strait
Summer Island
Strait Island
Boulder Point
Beauclerc Island
Kuiu Island
Reid Bay

TIDE NOTE

Project OPR-347

Summer Strait, S. E. Alaska

Sheet No. H-8689

Field No. HO-12.5-1-62

Tide Station used on this survey:

<u>Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Time Meridian</u>	<u>Height MLLW on Staff</u>
Reid Bay	56°23.3'N	133°53.2'W	120° W	4.0'

The Reid Bay gage was used on all hydrography on the sheet.

All hourly heights were scaled directly from the marigrams for the tide station, except hydrography done after 14 September 1962 when the gage was destroyed. Hourly heights for hydrography after 14 September 1962 were furnished by the Washington Office.

LIST OF STATIONS - H-8689

<u>Name used in survey</u>	<u>Origin of station</u>
AGO	AGO, 1954
ART	T-10707
BAD	T-10707
BAY	BAY, 1929
BEG	BEG R.M. #1, 1929
BIB	BIB, 1954
BOU	BOULDER, 1915
END	END, 1954
FOX	FOX, 1929
ISLE	ISLE, 1929
LIGHT	BEAUCLERC 2, LIGHT, 1922
NER	NER, 1929
NOR	NOR, 1929
OAK	T-10721
OHM	T-10708
PIE	T-10708
POM	POM, 1929
REEF	REEF 2, 1915
RUM	T-10708
SKY	T-10708
TOM	T-10708
TOP	T-10707
TURN	TURN, 1929

LIST OF STATIONS - H-8689

<u>Name used in survey</u>	<u>Origin of station</u>
VET	T-10708
WHY	T-10708
YET	T-10708
ZOO	T-10708

ABSTRACT OF ECHO CORRECTIONS

SHEET HO-12.5-1-62 (H-8689)

SHIP HODGSON - Fathometer DE-723 #142

Applicable 25 June 1962

VELOCITY CORRECTIONS

<u>DEPTH (fms)</u>	<u>CORRECTIONS (fms)</u>
0.0 - 7.5	+ 0.0
7.6 - 22.6	+ 0.1
22.8 - 53.0	+ 0.2
53.5 - 83.0	+ 0.4
83.5 - 101	+ 0.6
102 - 138	+ 0.5
138 - Limit	+ 1.0

Table 1

Applicable 18 July - 26 July 1962

0.0 - 6.4	0.0
6.5 - 17.6	+ 0.1
17.8 - 29.0	+ 0.2
29.2 - 31.0	+ 0.3
31.5 - 41.0	+ 0.2
41.5 - 68.0	+ 0.4
68.5 - 96.0	+ 0.6
96.5 - 101.0	+ 0.8
102 - 114	+ 0.5
115 - 185	+ 1.0
186 - Limit	+ 1.5

Table 2

ABSTRACT OF ECHO CORRECTIONS

SHEET HO-12.5-1-62 (H-8689)

Port Motor Whaleboat - Fathometer 808 #62S

Applicable 9 Sept. - 21 Sept. 1962

COMBINED CORRECTIONS

Table 3

<u>DEPTH (fms)</u>	<u>CORRECTIONS (fms)</u>
0.0 - 3.0	+ 0.1
3.1 - 5.4	+ 0.2
5.5 - 7.8	+ 0.3
7.9 - 16.8	+ 0.4
17.0 - 31.0	+ 0.5
31.5 - 60.5 999	+ 0.6

↖ For automating only.

ABSTRACT OF ECHO CORRECTIONS

SHEET HO-12.5-1-62(H-8689)

Launch 1192 - Fathometer DE-723 #146

COMBINED CORRECTIONS

<u>DEPTH (fms)</u>	<u>CORRECTIONS (fms)</u>
0.0 - 5.8	+ 0.4
5.9 - 10.0	+ 0.5
10.1 - 25.6	+ 0.6
25.8 - 31.0	+ 0.7
31.5 - 38.0	+ 0.6
38.5 - 66.0	+ 0.8
66.5 - 93.0	+ 1.0
93.5 - 101.0	+ 1.2
102 - 125	+ 1.0
126 - 150	+ 1.5
152 - 176	+ 1.0
178 - Limit	+ 2.0

Table 4

APPROVAL SHEET

Project OPR-347

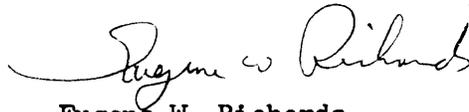
Summer Strait

Sheet H-8689

S. E. Alaska

The field work on the survey was done under the direct supervision of the Commanding Officer. Boat sheet and records were given a cursory examination at frequent intervals and a detailed inspection upon completion of the survey. The survey is considered complete and adequate and no additional field work is deemed necessary.

The smooth sheet was not plotted at the time of the approval.



Eugene W. Richards
CDR, C&GS
Comdg., Ship HODGSON

NOTES ON SMOOTH PLOTTING TO SUPPLEMENT

DESCRIPTIVE REPORT HO-12.5-1-62

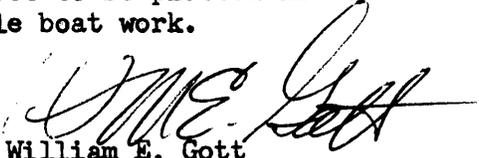
Control was plotted by ENS Allan Jenks and checked by CQM Legako. The gp's and gm's for stations AGO(1954), ISLE (1929), NER (1929) and POM (1929) were computed. Manuscripts were to the scale of 1/10,000. The backward and forward distances were measured off, and then converted to the 1/12,500 scale. The manuscripts appeared to be uniformly distorted. The difference between the computed meridional arcs and arcs of parallel, and the sum of the backward and forward distances was added or subtracted to the backward and forward distance in a way directly proportional to the distances.

Positions were plotted through pos. 120B by ENS Jenks. Plotting was resumed by LTJG W. E. Gott. Bottom sample positions through G-day were erroneously circled in ink. It was not deemed practical to attempt erasure.

Ship hydrography was completed and soundings entered. All crossings were good except the crossline, pos. 20A - 27A. This entire line of soundings seemed to be displaced from the positions by one minute of time. There was no other explanation to the discrepancy of the entire line. All the soundings were moved back one minute and good agreement was obtained. Although no explanation can be offered as to how such an error occurred, this is the only means found by which the crossings can be resolved.

Control was poor on lines run by the Port Motor Whaleboat, brown a - d-days. No courses were recorded. Course changes were made often, sometimes between fixes, and no notations made in the sounding volume. A note to plot on T, C, & S was often entered at a position without rejecting the angle or offering any explanation. There were cases along the shoreline, such as pos. 39a, in which the boat sheet position was plotted in error if the angles were correct. Although the above situations cast doubt on the accuracy of some positions, the control seems adequate for the scale of the sheet and the location of the soundings.

All Launch 1192 work is yet to be plotted and no soundings entered on the motor whale boat work.


William E. Gott
LTJG, USC&GS

PROCESSING OFFICE NOTES - H-8689

SMOOTH SHEET

The projection was ruled in the Washington Office and checked in the Seattle Processing Office. The control and 71% of the positions were plotted and 51% of the soundings were penciled aboard the Ship HODGSON. The balance of the work was done in the Seattle Processing Office.

SHORELINE

The shoreline was transferred from Shoreline Manuscripts T-10707 and T-10708, both partially advanced, T-10709, incomplete and T-10715 and T10721, both advanced. A small amount of the shoreline on Sumner Island from the incomplete part of T-10708 was inadvertently inked.

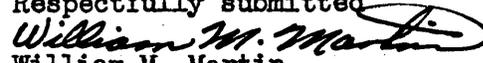
CROSSLINES

The crosslines now appear to be in agreement. The discrepancy noted in the third paragraph of the notes by Lt. William E. Gott was resolved by substituting signal ISLE for BEA on the left for positions 20A through 27A. This appears to be the only time ISLE was used on this survey. The change does give agreement between the fathogram and the record book, also the soundings at crossings are in agreement.

COMPARISON WITH CHART

This survey has been compared with Chart 821⁰¹~~9~~, 11 th Ed. March 4, 1963 and except for two soundings that should be substituted for shoaler soundings and one which appears to be out of position, the agreement is good. There is a smooth sheet sounding of 0.8 fathoms close to the charted 7 fathom sounding at Latitude $56^{\circ} 23.4'$, Longitude $133^{\circ} 46.3'$, a smooth sheet sounding of 5.5 fathoms close to the charted 7 fathom sounding at Latitude $56^{\circ} 23.4'$, Longitude $133^{\circ} 47.7'$ and the charted 8 fathom sounding at Latitude $56^{\circ} 23.5'$, Longitude $133^{\circ} 47.2'$ appears to be plotted too far west. The smooth sheet shows a 7.3 fathom sounding at Latitude $56^{\circ} 23.55'$, Longitude $133^{\circ} 46.96'$.

Respectfully submitted


William M. Martin
Supervisory Cartographer

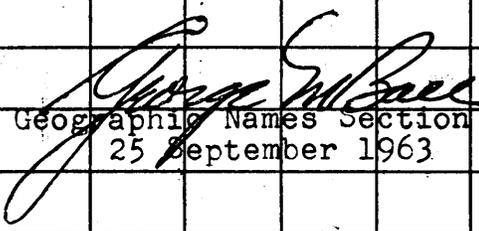
Approved and forwarded


M. E. Wennermark
Captain, C&GS
Seattle District Officer

GEOGRAPHIC NAMES

Survey No. H-8689

Name on Survey	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On Chart No. 8201</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On previous survey No.</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On U. S. quadrangle Maps</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">From local information</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On local Maps</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">P. O. Guide or Map</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Rand McNally Atlas</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">U. S. Light List</div> </div>										
	A	B	C	D	E	F	G	H	K		
Beauclerc Island	x										1
Boulder Point	x	"									2
Kuiu Island	x										3
Reid Bay	x										4
Strait Island	x										5
Sumner Island	x										6
Sumner Strait	x										7
											8
											9
											10
											11
											12
											13
											14
											15
											16
											17
											18
											19
											20
											21
											22
											23
											24
											25
											26
											27


 Geographic Names Section
 25 September 1963

VERIFIER'S REPORT OF HYDROGRAPHIC SURVEY NO. H- 8689

The verifier should deal with the present hydrographic survey only, as the reviewer considers its relation to previous surveys and published charts. He should be thoroughly familiar with Chapters 3, 7 and 9 of the Hydrographic Manual.

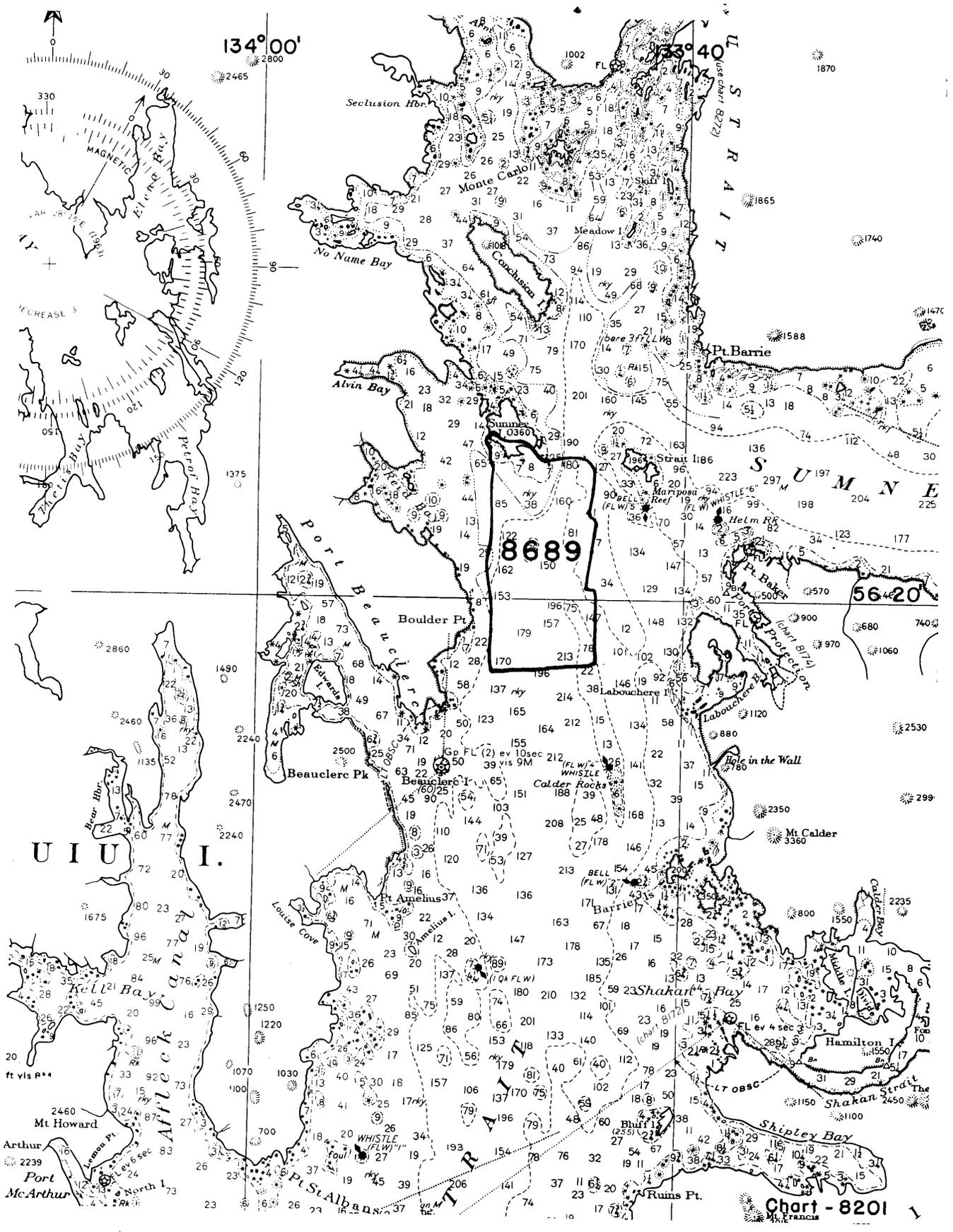
1. The descriptive report was consulted and appropriate notes were made in soft pencil regarding action taken.
2. Soundings originating with the survey and mentioned in the descriptive report have been verified, including latitude and longitude.
3. All reference to survey sheets mentioned in the descriptive report include the registry number and year.
4. Geographic names of hydrographic features if on sheet are in slanting lettering and of topographic features in vertical lettering.
5. All items affecting the plotting of the survey which are entered in the remarks columns of the sounding records were noted and check marked. In all cases appropriate action was taken.
6. All positions verified instrumentally were check marked in the sounding records.
7. All critical soundings are clear and legible and are a little larger than the adjacent soundings.
8. The metal protractor has been checked within the last three months.
9. The protracting and plotting of all bad crossings were verified.
10. All detached positions locating critical soundings, rocks or buoys were verified.
11. The boat sheet was compared with the smooth sheet.

12. The spacing of soundings as recorded in the records was closely followed.
13. The bottom characteristics were shown on outstanding shoals.
14. The reduction and plotting of doubtful soundings were checked.
15. The transfer of contemporary topographic information was carefully examined.
16. All junctions were transferred and overlapping curves made identical.
17. The notation "JOINS H- (19--)" was added in ink for all contemporary adjoining or overlapping sheets now registered. Those not verified are shown in pencil.
18. The depth curves have been inspected before inking.
19. All triangulation stations and transfer of topographic and hydrographic signals were checked.
20. Heights of rocks were checked against range of tide.
21. Rocks transferred from topographic surveys have a dotted curve where shown thereon. Rocks located accurately by hydrographer are encircled by dotted red curve.
22. Unnecessary pencil notes have been removed.
23. Objects on which signals are located and which fall outside of the low water line have been described on the sheet.
24. The low water line and delineation of shoal areas have been properly shown.
25. Degree and minutes values and symbols have been checked.
26. Questionable soundings have been checked on the fathograms.

27. Source of shoreline and signals (when not given in report).
28. All notes on sheet are in accordance with figure 171 in the Hydrographic Manual.
29. All aids located, with those on contemporary topographic sheets, have been shown on survey.
30. Depth curves were satisfactory except as follows:
31. Sounding line crossings were satisfactory except as follows:
32. Junctions with contemporary surveys were satisfactory except as follows:
33. Condition of sounding records was satisfactory except as follows:
34. The protracting was satisfactory except as follows:
35. The field plotting of soundings was satisfactory except as follows:
36. Notes to reviewer:

Verified by

Date



134° 00'

133° 40'

SUMNERE

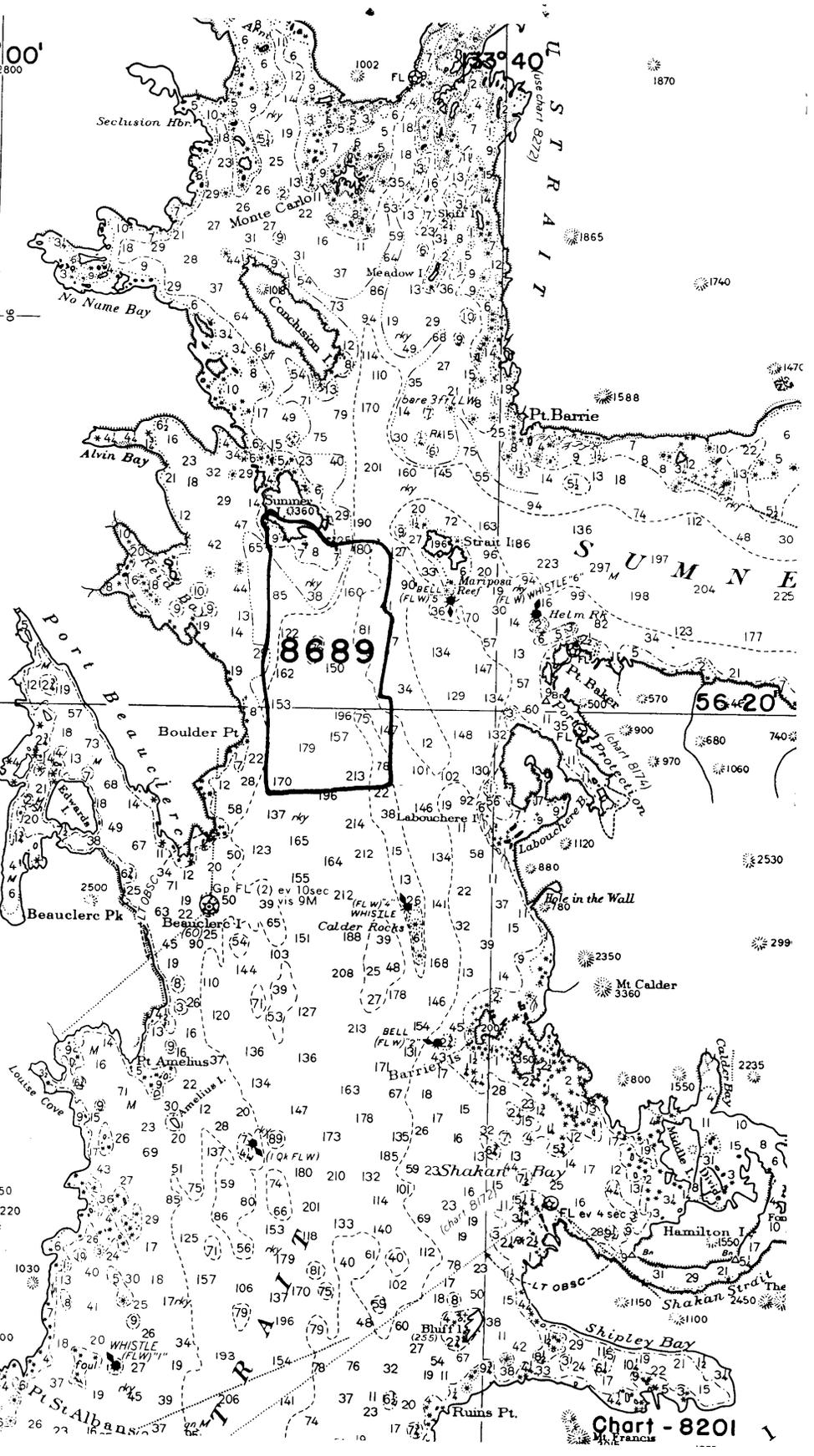
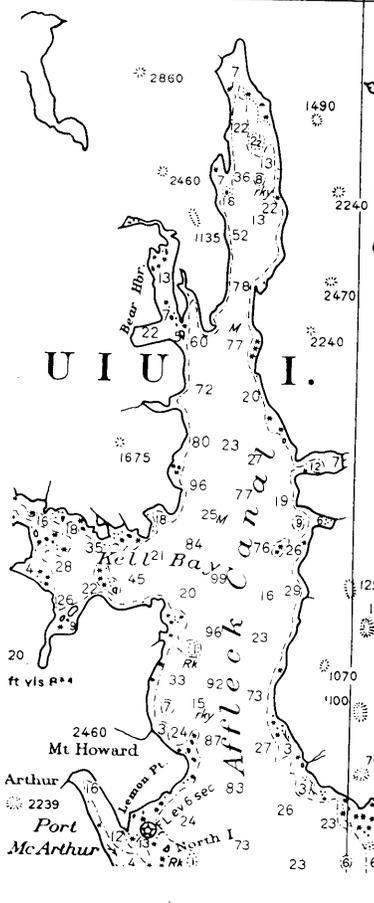
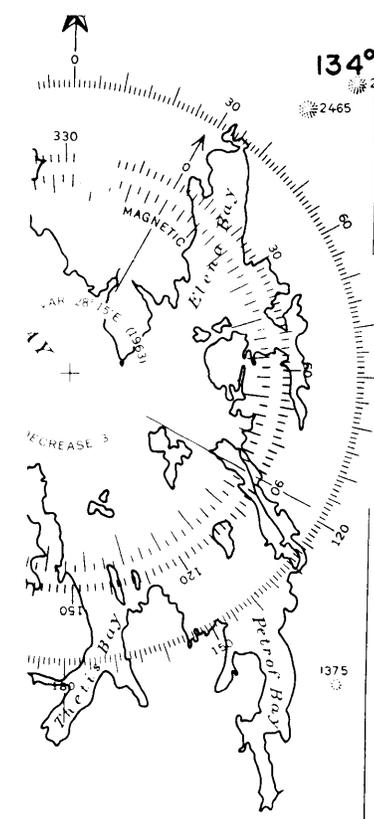
56° 20'

UIU I.

PHOENIX ISLANDS

Chart - 8201

8689



RHC

TIDE NOTE FOR HYDROGRAPHIC SHEET

October 4, 1963

Nautical Chart Division: R. H. Carstens

Plane of reference approved in
5 volumes of sounding records for

HYDROGRAPHIC SHEET 8689

Locality Sumner Strait, S.E. Alaska

Chief of Party: E.W. Richards (1962)

Plane of reference is mean lower low water, reading
4.0 ft. on tide staff at Reid Bay, Sumner Strait
14.3 ft. below B. M. 1 (1962)

Height of mean high water above plane of reference is 11.5 feet.

Condition of records satisfactory except as noted below:


Chief, Tides and Currents Branch

8689

Diag. Cht. No. 8201-3.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT
ADDENDUM TO 1962 REPORT

Type of Survey Hydrographic

Field No. H0-12.5-1-62 Office No. H-8689

LOCALITY

State Southeast Alaska

General locality Sumner Strait

Locality South End of Sumner Island

1965

CHIEF OF PARTY

James K. Richards

LIBRARY & ARCHIVES

DATE FEB 8 - 1966

COMM-DC 61300



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.

REGISTER No. H-8689

Field No. HO-12.5-1-62

State Southeast Alaska

General locality Sumner Strait

Locality South end of Sumner Island

Scale 1:12,500 Date of survey 1965

Instructions dated December 9, 1964

Vessel USC&GSS PATTON

Chief of party LCDR James K. Richards

Surveyed by J. K. Richards, N. A. Horst

Soundings taken by fathometer, graphic recorder, hand lead, ~~etc~~

Fathograms scaled by J. J. Saladin

Fathograms checked by Ship's Officers

Protracted by W. P. Brown

Soundings penciled by W. P. Brown

Soundings in fathoms ~~xxxx~~ at ~~xxxx~~ MLLW

REMARKS:

THIS REPORT COVERS ONLY THE ADDITIONAL SPLITS AND
DEVELOPMENTS SURVEYED BY THE PATTON IN 1965.

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.

REGISTER NO. H-8689

Field No. HO-12,5-1-62

State Southeast Alaska

General locality Sumner Strait

Locality South end of Sumner Island

Scale 1:12,500 Date of survey 1965

Instructions dated December 9, 1964

Vessel USC&GSS PATTON

Chief of party LCDR James K. Richards

Surveyed by J. K. Richards, N. A. Horst

Soundings taken by fathometer, graphic recorder, hand lead, ~~etc~~

Fathograms scaled by J. J. Saladin

Fathograms checked by Ship's Officers

Protracted by W. P. Brown

Soundings penciled by W. P. Brown

Soundings in fathoms ~~xxxx~~ at ~~xxxx~~ MLLW

REMARKS:

THIS REPORT COVERS ONLY THE ADDITIONAL SPLITS AND
DEVELOPMENTS SURVEYED BY THE PATTON IN 1965.

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SURVEY H-8689 (HO-12.5-1-62)

Scale 1:12,500

USC&GSS PATTON

J. K. RICHARDS, COMDG.

1965

ADDENDUM TO ORIGINAL 1962 DESCRIPTIVE REPORT

A. PROJECT

This survey is part of project OPR-148, Keku Strait, Southeast Alaska. INSTRUCTIONS were dated December 9, 1964.

B. AREA SURVEYED

The area surveyed consists of four shoals just south of Sumner Island, the channel between Sumner Island and several small islands to the southeast, and a split to the south of signal WHY.

The basic work on this sheet was completed by the HODGSON in 1962. This descriptive report refers only to the additional splits and developments completed by the PATTON in 1965. Hydrography was accomplished on May 20, 24, 25, 26, and Sept. 9, 1965.

The PATTON's work junctions on the north with contemporary survey H-8861 (PA-10-1-65).

C. SOUNDING VESSEL

Launch No. CS-1191 was used for all of the 1965 work. The position numbers and day letters are shown in violet (lower case) on the smooth sheet. 1 D 8041

D. SOUNDING EQUIPMENT

All echo soundings were obtained with a Raytheon DE-723 portable depth recorder, No. 556, which was mounted in launch 1191. Depths were recorded in fathoms. The fathometer performed satisfactorily at all times.

Echo sounding corrections were determined by bar checks to a depth of seven fathoms. Velocity corrections for greater depths were computed from temperature and salinity observations. Details relating to the determination of echo-sounding corrections are contained in the 1965 Fathometer Correction Report.

Least depths on the four shoals were verified by leadline.

E. SMOOTH SHEET

Refer to the 1962 report.

Because of the many closely-spaced lines run while developing the four shoals and the channel southeast of Summer Island, this work has been plotted on overlays. As many soundings as possible were plotted on the overlays. Those soundings that could be shown on the smooth sheet without confusion and without erasing 1962 work were transferred to the sheet. The overlays are enclosed in this report

F. CONTROL

Control of hydrography was obtained solely by visual three-point sextant fixes on shore signals. Shore signals were built over triangulation stations and photo-hydro points.

Photo signals Ohm, Pie, Rum, and Why were originally located in 1962, but were recovered and re-used for the 1965 work. Photo signals Gem, Hag, Irk, Job, Kid, and Kim were established in 1965 and plotted on manuscript T-10708. Since the scale of the manuscript was 1:10,000, the signals were plotted on the smooth sheet using proportional dividers to convert to the 1:12,500 scale. Signal Gum was used (by mistake) on only one fix; this signal was originally located by graphic intersection on planetable sheet PA-A-65, but is plotted on manuscript T-10707.

Special attention should be given to triangulation station BEG, 1929-1962. The HODGSON, in 1962, used a signal on BEG R.M. No. 1, 1929. Evidently, this was prior to the time HODGSON personnel re-established the triangulation station mark. The PATTON, however, established a signal on the station itself, i.e., BEG, 1929-1962. It appears that the point plotted as BEG R.M. No. 1 on the smooth sheet is actually the position of the station, rather than the reference mark. Consequently, there may be some small errors in the plotting of the 1962 positions that used BEG R.M. No. 1.

G. SHORELINE

See original report.

H. CROSSLINES

See Original report.

I. JUNCTIONS

This sheet junctions with sheet H-8861 (PA-10-1-65) in the vicinity of lat. $56^{\circ} 23.9'$; long. $133^{\circ} 46.8'$. Soundings and depth curves on the two sheets junction satisfactorily.

J. COMPARISON WITH PRIOR SURVEYS

The 1965 work checks closely with the 1962 work on this sheet, in view of the steep, rocky bottom in this area.

The least depths obtained from the 1965 developments of the four shoal areas are given below:

<u>Location</u>	<u>Least Depth</u>	<u>Recorded in</u>
$56^{\circ} 23.42'$ $133^{\circ} 47.84'$	5.9 fm.	Vol. 1, pg. 26

<u>Location</u>	<u>Least Depth</u>	<u>Recorded in</u>
56° 23.36' 133° 46.27'	6.6 fm.	Vol. 1, pg. 12
56° 23.57' 133° 48.56'	7.6 fm.	Vol. 1, pg. 26
56° 24.02' 133° 48.78'	2.8 fm.	Vol. 1, pg. 17

K. COMPARISON WITH CHART

See original report and section J of this report.

L. ADEQUACY OF SURVEY

This survey is considered adequate to supercede prior surveys for charting.

M. AIDS TO NAVIGATION

There are no aids to navigation on this sheet.

N. STATISTICS

No. of Positions (Launch 1191)	217
Nautical Miles of Sounding Lines (Launch 1191)	18.3
Total Area Surveyed (square naut. miles)	0.6

O. MISCELLANEOUS

None.

P. RECOMMENDATIONS

No further field work is recommended.

Q. REFERENCES TO REPORTS

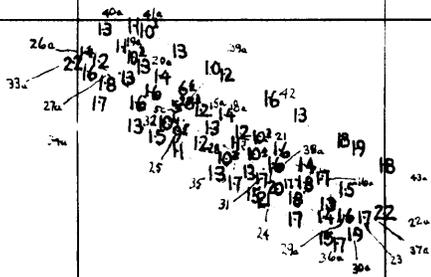
Season's Report - Submitted November 1965

Fathometer Correction Report - Submitted December 1965

48' 00"

47' 00"

24' 00"



23' 00"

Overlay "A" H-8689
Pos. 15a to 43a
Pos 5c (dp)

47' 00"

46' 00"

45' 00"

24' 00"

24^{1st}
 23^{1st} 16⁴
 32^{1st} 8² 20 17 21^{1st}
 15^{1st} 19 14^{1st} 14⁶ 14⁶
 18d(dp) 20^{1st} 16^{1st} 16^{1st}
 21^{1st} 15^{1st} 16^{1st} 20^{1st} 22^{1st} 30^{1st} 32^{1st} 39^{1st}
 17^{1st} 16^{1st} 17^{1st} 23 29 51 62^{1st}
 17^{1st} 14 18^{1st} 26 33 32^{1st}
 20^{1st} 18^{1st} 13^{1st} 21 35 36
 22^{1st} 23^{1st} 15^{1st} 22^{1st} 36 33
 30 28 31 37 34 37^{1st}
 39 39 34 35^{1st}
 45 42^{1st} 44^{1st} 36 38 43
 49 43 48^{1st}
 51 52 49 43 48^{1st} 54
 57^{1st} 54 52 50 54^{1st} 44
 59^{1st} 60^{1st} 63 46^{1st}
 61^{1st} 65 70 71
 61 58 74 77^{1st}
 56 57^{1st} 77^{1st}
 57^{1st}

23' 00"

Overlay "B" H-8689

Pos. 44 a to 47 a

" 1d to 5d

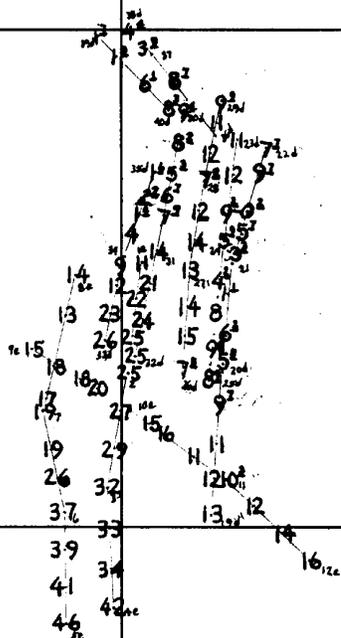
" 13d to 18d

" 13e to 39e

47' 00"

46' 00"

24' 00"



Overlay "C" H-8689
HO-12.5-1-62
Pos. 19d to 40d
" 1e to 12e

23' 00"

49' 30"

48' 30"

47' 30"

24' 30"

5^{10b} 4^{10b} 3^{10b} 2^{10b}
 6^{10b} 6^{10b} 3^{10b} 4^{10b} 4^{10b}
 8^{10b} 7^{10b} 5^{10b} 6^{10b}
 8^{10b} 7^{10b} 6^{10b}
 9^{10b} 9^{10b} 8^{10b} 7^{10b}
 10^{10b} 10^{10b} 9^{10b} 10^{10b}
 10^{10b} 10^{10b} 10^{10b}
 H12
 12
 13^{10c}

15^{10c}
 15^{10c} 16^{10c} 18^{10c} 18^{10c}
 16^{10c} 18^{10c} 18^{10c} 17^{10c} 11^{10c}
 2^{10c} 17^{10c} 17^{10c} 18^{10c} 17^{10c}
 15^{10c} 16^{10c} 17^{10c} 17^{10c}
 16^{10c} 16^{10c} 17^{10c} 17^{10c}
 2^{10c} 18^{10c} 16^{10c} 13^{10c} 12^{10c} 15^{10c}
 18^{10c} 13^{10c} 12^{10c} 12^{10c}
 21^{10c} 15^{10c} 14^{10c}
 33^{10c}

23' 30"

Overlay "D" H-8689

Pos. 1b to 12b
 - 42d (dp)
 - 65e to 70e

Pos. 1c to 4c
 - 13b to 29b

TIDE NOTE

to accompany 1965 surveys
on sheet H-8689 (HO-12.5-1-62)

A Bristol pressure tide gage, located on the northeast side of Summer Island, controlled the 1965 hydrography on this sheet.

Station: Summer Island Tide Gage

Position: Lat. $56^{\circ} 24' 36''$ N.
Long. $133^{\circ} 47' 33''$ W.

Time Mer.: 120° W.

Value of MLLW on Staff: 3.5 ft. above staff zero.

No corrections for time or height were applied to the observed tides.

ABSTRACT OF CORRECTIONS TO ECHO SOUNDINGS

LAUNCH 1191

RAYTHEON DE-723 FATHOMETER #556

These corrections to be used for all days of launch hydro
 (May 11-May 26, 1965) on hydrographic survey HO-10-2-62 (H-8688),
 and for "a", "b", "c", and "d" days of launch hydro (May 20-May 26,
 1965) on hydrographic survey HO-12.5-1-62 (H-8689):

Table 5

<u>Correction (fms.)</u>	<u>To Depth (fms.)</u>
+ 0.2	6.3
+ 0.3	30.6
+ 0.4	58.7
+ 0.5	83.0
+ 0.6	Deepest Sounding

From final tide curves

SMOOTH TIDE REDUCERS

HO-10-2-62 MAY 18, 1965			HO-12.5-1-62 HO-10-2-62 MAY 20, 1965			HO-10-2-62 MAY 22, 1965		
(Time) FROM	(Time) TO	(Fms) REDUCER	FROM	TO	REDUCER	FROM	TO	REDUCER
0848	1001	+0.3	1422	1439	-0.9	0833	0851	-0.9
1001	1032	+0.2	1439	1456	-1.0	0851	0909	-0.8
1032	1056	+0.1	1456	1517	-1.1	0909	0928	-0.7
1056	1113	+0.0	1517	1537	-1.2	0928	0947	-0.6
1113	1130	-0.1	1537	1603	-1.3	0947	1008	-0.5
1130	1145	-0.2	1603	1642	-1.4	1008	1030	-0.4
1145	1159	-0.3				1030	1100	-0.3
1159	1211	-0.4			✓ J.O.R.	1100	1150	-0.2
1211	1225	-0.5				1150	1248	-0.1
1225	1238	-0.6				1248	1338	-0.2
1238	1251	-0.7				1338	1411	-0.3
1251	1304	-0.8				1411	1438	-0.4
1304	1319	-0.9				1438	1504	-0.5
1319	1334	-1.0			DAY 140	1504	1527	-0.6
1334	1349	-1.1				1527	1549	-0.7
1349	1406	-1.2				1549	1609	-0.8
1406	1423	-1.3				1609	1631	-0.9
1423	1441	-1.4						
1441	1504	-1.5						✓ J.O.R.
1504	1548	-1.6						
1548	1610	-1.7						
1610	1652	-1.6						

✓ J.M.M.

Tides curves
accompany records
for H-8688
(1965 work)

TIDE REDUCERS

HO-12.5-1-62
HO-10-2-62
MAY 26, 1965

PA-10-1-65
JUL 28, 1965

PA-10-1-65
JULY 29, 1965

(TIME) FROM	(TIME) TO	(FMS) REDUCER	FROM	TO	REDUCER	FROM	TO	REDUCER
0846	0919	-1.3	1259	1327	-1.8	0800	0906	+0.6
0919	1115	-1.4	1327	1442	-1.9	0906	0928	+0.5
1115	1145	-1.3	1442	1508	-1.8	0928	0942	+0.4
1145	1208	-1.2	1508	1528	-1.7	0942	0956	+0.3
1208	1229	-1.1	1528	1543	-1.6	0956	1008	+0.2
1229	1249	-1.0	1543	1556	-1.5	1008	1020	+0.1
1249	1310	-0.9	1556	1609	-1.4	1020	1032	±0.0
1310	1330	-0.8	1609	1622	-1.3	1032	1043	-0.1
1330	1351	-0.7				1043	1053	-0.2
1351	1411	-0.6				1053	1103	-0.3
						1103	1113	-0.4
						1113	1123	-0.5
						1123	1133	-0.6
						1133	1143	-0.7
						1143	1152	-0.8
						1152	1202	-0.9
						1202	1212	-1.0
						1212	1223	-1.1
						1223	1233	-1.2
						1233	1244	-1.3
						1244	1255	-1.4
						1255	1306	-1.5
						1306	1317	-1.6
						1317	1330	-1.7
						1330	1346	-1.8
						1346	1409	-1.9
						1409	1528	-2.0
						1528	1551	-1.9
						1551	1608	-1.8
						1608	1623	-1.7
						1623	1637	-1.6
						1637	1650	-1.5

✓ J.O.R.

✓ J.O.R.

DATA
146

Tide curves
accompany 1965 records
for sheet H-8688

✓ J.O.R.

TIDE REDUCERS

PA-10-1-65
SEPT. 8, 1965

HO-12.5-1-62
SEPT. 9, 1965

PA-10-3-65
SEPT. 12, 1965

	(TIME) FROM	(TIME) TO	(SMS) REDUCER	FROM	TO	REDUCER	FROM	TO	REDUCER
	0917	0931	-0.7	0959	1012	-0.8	1050	1101	-0.7
	0931	0945	-0.8	1012	1026	-0.9	1101	1113	-0.8
	0945	0959	-0.9	1026	1039	-1.0	1113	1125	-0.9
	0959	1014	-1.0	1039	1052	-1.1	1125	1136	-1.0
	1014	1029	-1.1	1052	1106	-1.2	1136	1148	-1.1
	1029	1045	-1.2	1106	1120	-1.3	1148	1200	-1.2
				1120	1135	-1.4	1200	1212	-1.3
				1135	1152	-1.5	1212	1226	-1.4
				1152	1213	-1.6	1226	1240	-1.5
				1213	1250	-1.7	1240	1255	-1.6
				1250	1349	-1.8	1255	1311	-1.7
				1349	1426	-1.7	1311	1328	-1.8
				1426	1446	-1.6	1328	1351	-1.9
				1446	1503	-1.5	1351	1520	-2.0
				1503	1519	-1.4	1520	1544	-1.9
							1544	1600	-1.8
							1600	1614	-1.7
							1614	1628	-1.6
							1628	1641	-1.5
							1641	1654	-1.4

v.s.o.r.

v.s.o.r.

DAY
252

v.s.o.r.

Tide curves
accompany records
for sheet H-8861
(PA-10-1-65)

TIDES: HOURLY HEIGHTS

Station: SUMNER ISLAND Bubbler Tide Gage Year: 1965
 Observer: USC&GS PATTON personnel Lat. 56°24'36" Long. 133°47'33"
 Time Meridian: 120° W Height datum is MLLW which is 3.5 ft. below B.M. *above 35.00 on staff.*

16-47802-2 U. S. GOVERNMENT PRINTING OFFICE

Month and Day	mo. d.		d.		d.		d.		d.		d.		Horizontal Sum
Day of Series	May 11		12		13		18		20		22		
Hour	Feet		Feet		Feet		Feet		Feet		Feet		Feet
0	.		.		.		.		.		.		.
1	.		.		.		.		.		.		.
2	.		.		.		.		.		.		.
3	.		.		.		15 55	12.05	.		.		.
4	.		.		.		15 45	11.95	.		.		.
5	.		3.75	0.25	3.5	0.0	14 3	10.8	.		.		.
6	.		3.5	0.0	2.25	-1.25	12 05	8.5	.		12.4	8.9	.
7	.		3.75	0.25	2.2	-1.3	8 9	5.4	.		12.5	7.0	.
8	.		5.1	1.6	2.8	-0.7	5 75	2.25	.		12.4	8.9	.
9	.		7.3	3.8	4.7	1.2	5 8	2.25	.		11.7	8.2	.
10	.		9.9	6.4	7.1	3.6	3 2	-0.3	.		10.2	6.7	.
11	13.7	10.2	12.25	8.75	10.0	6.5	1 85	-1.65	4.9	1.4	8 3	4.8	.
12	14.2	10.7	13.9	10.4	12.5	9.0	1 75	-1.75	3.55	0.05	6.4	2.9	.
13	14.1	10.6	14.3	10.8	14.1	10.6	2 0	-1.5	3.25	-0.25	5.0	1.5	.
Noon	13.2	9.7	14.25	10.75	14.5	11.0	3 75	-0.1	3.3	-0.2	4.35	0.85	.
14	11.2	7.7	13.0	9.5	14.4	10.9	5 0	2.2	4.1	0.6	4.3	0.8	.
15	8.75	5.25	10.9	7.4	13.0	9.5	8 75	4.9	5.75	2.25	4.5	1.0	.
16	6.4	2.9	8.2	4.7	10.5	7.0	10 8	7.3	7.8	4.3	5.4	1.9	.
17	4.8	1.3	5.75	2.25	7.6	4.1	12 7	9.2	9.95	6.45	6.7	3.2	.
18	4.2	0.7	4.1	0.6	5.3	1.8	13 4	9.9	11.55	8.05	8.3	4.8	.
19	5.1	1.6	3.85	0.35	4.1	0.6	13 45	9.95	12.35	8.85	9.9	6.4	.
20	.		3.9	0.4	4.0	0.5	12 6	9.1	12.4	8.9	11.0	7.5	.
21	.		5.2	1.7	4.3	0.8	11 0	7.5	12.2	8.7	11.55	8.05	.
22	.		.		.		8 95	5.45	11.6	8.1	11.55	8.05	.
23	.		.		.		7 3	3.8	10.9	7.4	.	.	.
Sum							6 55	3.05					
Sum for							6 5	3.0					

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

TIDES: HOURLY HEIGHTS

Station: SUMNER ISLAND Rubber Tide Gage Year: 1965
 Observer: USC+GS PATTON Lat. 56°24'36" Long. 133°47'33"
 Time Meridian: 120°W Height datum is MLLW which is 3.5 ft. below B.M. above zero on staff

16-47802-2 U. S. GOVERNMENT PRINTING OFFICE

Month and Day	mo.	d.	d.	d.	d.	d.	d.	d.	Horizontal Sum
Day of Series	14	15	16	17					
Hour	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet
0	.	.	.	.	.	.	.	.	.
1	.	.	.	.	.	.	.	.	.
2	.	.	.	.	.	.	.	.	.
3	.	.	6.75 2.25	6.6 3.1	.	.	.	.	.
4	.	.	6.8 3.3	5.2 1.7	.	.	.	.	.
5	.	.	7.6 4.1	5.5 2.0	.	.	.	.	.
6	11.7 8.2	.	8.8 5.3	6.5 3.0	.	.	.	.	.
7	11.85 8.35	11.4 7.9	10.2 6.7	8.1 4.6	.	.	.	.	.
8	11.2 7.7	11.7 8.2	11.25 7.75	9.9 6.4	.	.	.	.	.
9	10.0 6.5	11.3 7.8	11.75 8.25	11.3 7.8	.	.	.	.	.
10	8.3 4.8	10.2 6.7	11.4 7.9	12.0 8.5	.	.	.	.	.
11	6.6 3.1	8.6 5.1	.	11.8 8.3	.	.	.	.	.
Noon	5.4 1.9	7.0 3.5	.	10.6 7.1	.	.	.	.	.
13	4.8 1.3	5.9 2.4	.	8.9 5.4	.	.	.	.	.
14	4.7 1.2	5.2 1.7	.	7.1 3.6	.	.	.	.	.
15	5.7 2.2	5.25 1.75	.	5.6 2.1	.	.	.	.	.
16	7.0 3.5	6.0 2.5	.	4.9 1.4	.	.	.	.	.
17	8.55 5.05	7.4 3.9	.	5.25 1.75	.	.	.	.	.
18	10.1 6.6	9.1 5.6	.	.	.	.	.	.	.
19	11.3 7.8	10.75 7.25	.	.	.	.	.	.	.
20	11.95 8.45	12.1 8.6	.	.	.	.	.	.	.
21	11.95 8.45	12.75 9.25	.	.	.	.	.	.	.
22	.	12.8 9.3	.	.	.	.	.	.	.
23	.	12.6 9.1	.	.	.	.	.	.	.
Sum	DAM 14.8	DAM 14.8	14.8	14.8	14.8	14.8	14.8	14.8	
Sum for	=								
Divisor	= (28d) 672; (29d) 696; (30d) 720; (31d) 744. Mean for month =								

TIDES: HOURLY HEIGHTS

Station: SUMNER ISLAND Bubbler Tide Gage Year: 1965
 Observer: USCG & J.S. PATTON Lat. 56° 24' 36" Long. 133° 47' 33"
 Time Meridian: 120° W Height datum is MLLW which is 3.5 ft. below 0 above zero on chart

16-47802-2 U. S. GOVERNMENT PRINTING OFFICE

Month and Day	mo. d. ✓		d. ✓		d. ✓		d. ✓		d. ✓		d. ✓		Horizontal Sum	
	Sept. 7		Sept. 8		Sept. 9		Sept. 12		Sept. 13		Sept. 14			Sept. 15
Day of Series	0830-0960		0925-1045		1000-1505		1050-1645		0825-1445		0815-1765		0820-1765	
Hour	Feet		Feet		Feet		Feet		Feet		Feet		Feet	
0														
1														
2														
3														
4														
5														
6														
7	4.5	1.0								7.45	3.95	9.0	5.5	
8	6.25	2.75	4.7	1.2				3.7	0.2	5.1	1.6	6.55	3.05	
9	8.25	4.75	6.8	3.3	5.5	2.0	3.3	-0.2	3.3	-0.2	4.1	0.6	5.0	1.5
10	10.5	7.0	9.25	5.75	8.05	4.55	5.25	1.75	4.6	1.1	4.5	1.0	4.6	1.1
11			11.6	8.1	10.8	7.3	7.95	4.45	7.0	3.5	6.35	2.85	5.6	2.1
Noon					13.05	9.55	11.0	7.5	10.0	6.5	9.0	5.5	7.6	4.1
13					14.1	10.6	13.6	10.1	12.75	9.25	11.7	8.2	9.9	6.4
14					13.85	10.35	15.4	11.9	15.0	11.5	14.15	10.65	12.4	8.9
15					12.3	8.8	15.5	12.0	15.95	12.45	15.75	12.25	14.45	10.95
16					9.9	6.4	14.0	10.5	15.25	11.75	15.8	12.3	15.35	11.85
17							11.3	7.8	13.0	9.5	14.2	10.7	14.7	11.2
18									10.0	6.5	11.5	8.0	12.8	9.3
19													10.0	6.5
20														
21														
22														
23														
Sum	-WFB	19KR	-WFB	19KR	-WFB	19KR	-WFB	19KR	-WFB	19KR	-WFB	19KR	-WFB	19KR
Sum for	=													
Divisor	= (28d) 672; (29d) 696; (30d) 720; (31d) 744. Mean for month =													

ABSTRACT OF CORRECTIONS TO ECHO SOUNDINGS

LAUNCH 1191

RAYTHEON DE-723 FATHOMETER #556

These corrections to be used for all days of launch hydro
 (July 28 - September 8, 1965) on hydrographic survey PA-10-1-65,
 and for "e" day (September 9, 1965) on hydrographic survey
HO-12.5-1-62:

Table 6.

<u>Correction (fms.)</u>	<u>To Depth (fms.)</u>
+ 0.2	5.0
+ 0.3	9.7
+ 0.4	23.5
+ 0.5	36.0
+ 0.6	49.3
+ 0.7	62.0
+ 0.8	75.0
+ 0.9	88.0
+ 1.0	111.5
+ 1.5	196.0
+ 2.0	Deepest Sounding

LIST OF SIGNALS
 on Sheet H-8689 (HO-12.5-1-62)
 used for 1965 work

These signals were established in 1965, and are in addition to those signals listed in the 1962 Descriptive Report.

Beg	BEG, 1929-1962 ¹
Gem	T-10708
Gum	PA-A-65 ²
Hag	T-10708
Irk	T-10708
Job	T-10708
Kid	T-10708
Kim	T-10708

¹ Note that 1962 surveys used BEG R.M. No. 1, 1929

² Plotted on manuscript T-10707

APPROVAL SHEET

H-8689 (HO-12.5-1-62)

1965 Work

The 1965 field work on this sheet was performed under the direct supervision of the Commanding Officer. The boat sheet was inspected at the end of each day's work. The field records and smooth sheet have been examined and are considered to be complete and adequate. No additional field work is recommended.

James K. Richards
James K. Richards
LCDR, C&GS
Comdg., Ship PATTON

Because the bay north of signal RUM is foul, no additional work is recommended in that area.

JKR

VERIFICATION NOTES
SURVEY H-8689

GENERAL

This survey was logged by the computer center in Ashville and replotted by the CAL COM plotter at the Atlantic Marine Center. The smooth sheet was plotted on .0075" mylar.

Signal 460 was found to be misplotted, all positions using this signal will disagree slightly with the hand plotted smooth sheet. This and other problems are discussed within the enclosed "Plotter Notes".

Norfolk, Virginia
June 17, 1974

William L. Jonns
William L. Jonns
Chief, Verification
Branch, AMC

ATLANTIC MARINE CENTER
APPROVAL SHEET
FOR
AUTOMATED SURVEY H-8689

- A. All revisions and additions made on the smooth sheet during verification have been entered in the magnetic tape records for this survey. A new final position printout has ~~has not~~ been made. A new final sounding printout has ~~has not~~ been made.

Date: June 17, 1974

Signed: *William L. Jones*
William L. Jones
Title: Chief, Verification Branch

- B. The verified smooth sheet has been inspected, is complete, and meets the requirements of the Hydrographic and AMC Manuals. Exceptions are listed in the verifier's report.

Date: June 17, 1974

Signed: *C. Dale North Jr.*
C. Dale North Jr., LCDR, NOAA
Title: Chief, Processing Division

FIG. 18.

DESCRIPTIVE REPORT DATA RECORD		
PART I SMOOTH SHEET PREPARATION		
	PREPARED BY/OPERATOR	DATE
A. PLOTTER OPERATOR		
B. DISTORTION MARKS PLOTTED		
C. PROJECTION INTERSECTIONS PLOTTED		
D. POINTS OF ELECTRONIC CONTROL ARCS PLOTTED		
E. OVERLAYS PREPARED BY		
1. POSITION NUMBER		
2. EXCESS SOUNDINGS		
3. PRELIMINARY SMOOTH PLOT		
4. LIST OTHERS		
A.		
B.		
F. SOUNDING SELECTION BY		
G. PLOTTER INPUT	PREPARED	
H.	CHECKED	
I. DESCRIPTIVE REPORT ADDENDUMS		
PART II SMOOTH SHEET COMPLETION		
	CARTOGRAPHER	DATE
A. DISTORTION SCALE TICKS IDENTIFIED BY NOTE	EDP-AMC	6-10-74
B. PROJECTION INTERSECTIONS VERIFIED BY	"	6-10-74
C. PROJECTION LINES RULED BY	"	6-10-74
D. ELECTRONIC CONTROL ARCS RULED AND LOCATION VERIFIED	N.A.	
E. OVERLAYS COMPLETED BY	R.G. ROBERSON	5-14-74
1. POSITION NUMBER LEADERS ADDED		
2. EXCESS SOUNDING OVERLAY COMPARED	B.J. STEPHENSON	6-11-74
3. PRELIMINARY SMOOTH PLOTS COMPARED	B.J. STEPHENSON	6-10-74
4. OTHERS UTILIZED		
A.		
B.		
F. DESCRIPTIVE REPORT ADDENDUM	W.L. JONNS	
G. CONTROL STATIONS VERIFIED	C. MEEKINS	10-18-72
H. POSITIONS MANUALLY PLOTTED	PMC	
I. MANUAL PLOT VERIFIED	PMC	
J. SHORELINE APPLIED	B.J. STEPHENSON	10-13-74
K. BOTTOM CHARACTERISTICS ADDED	B.J. STEPHENSON	10-12-74
L. NOTES AND DEPTH CURVES ADDED	B.J. STEPHENSON	10-12-74

Fig. 19.

RECORD DESCRIPTION		AMOUNT	RECORD DESCRIPTION		AMOUNT	
SMOOTH SHEET		2	BOAT SHEETS		2	
DESCRIPTIVE REPORT		1	OVERLAYS			
DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/SOURCE DOCUMENTS
ENVELOPES	5					
CAHIERS			4			
VOLUMES	7					
BOXES						
T-SHEET PRINTS (List) T-10707, 10708, 10709, 10721, & 10721						
SPECIAL REPORTS (List)						
OFFICE PROCESSING ACTIVITIES						
The following statistics will be submitted with the cartographer's report on the survey						
PROCESSING ACTIVITY	AMOUNTS					
	PRE-VERIFICATION	VERIFICATION	REVIEW	TOTALS		
POSITIONS ON SHEET				1102		
POSITIONS CHECKED		119				
POSITIONS REVISED		55				
DEPTH SOUNDINGS REVISED		125				
DEPTH SOUNDINGS ERRONEOUSLY SPACED		375				
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED		1				
	TIME (MANHOURS)					
TOPOGRAPHIC DETAILS		10				
JUNCTIONS		0				
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		126				
SPECIAL ADJUSTMENTS		-				
ALL OTHER WORK		100				
TOTALS		236				
PRE-VERIFICATION BY R.G. ROBERSON, C. MEEKINS	BEGINNING DATE 10-16-72	ENDING DATE 8-6-73				
VERIFICATION BY B.J. STEPHENSON	BEGINNING DATE 6-10-74	ENDING DATE 6-13-74				
REVIEW BY	BEGINNING DATE	ENDING DATE				

Fig. 20.

FORM C&GS-946A (REV. 11-65) (PRES. BY HYDROGRAPHIC MANUAL, 6-94)		U.S. DEPARTMENT OF COMMERCE E55A COAST AND GEODETIC SURVEY			
VERIFIER'S REPORT HYDROGRAPHIC SURVEY, H <u>8689</u>					
<p>INSTRUCTIONS - This form serves to identify items of a check list in verification together with items which are separately reported to the Reviewer. The form is not to be forwarded to the Reviewer. A report, which is prepared for the Reviewer, should identify items by number and letter and will be filed in the Descriptive Report until the survey is reviewed.</p> <p>CL - Check List Items: should be checked as having been completed during the verification processes.</p> <p>R - Report Item: This column refers to those items reported to the reviewer and is used to indicate the items discussed.</p>					
Part I - DESCRIPTIVE REPORT		CL	R	Part III - JUNCTIONS (Continued)	
<p>Note: The verifier should first read the Descriptive Report for general information and problems.</p> <p>1. The Descriptive Report was consulted, paragraphs checked if found satisfactory, and notations were made in soft black pencil regarding action taken. Remarks Required: -- None</p>		*		<p>10. Junctions with contemporary surveys were satisfactory except as follows: Remarks Required: -- Consider conditions after adjustments have been made; note adjustments made. Make special notes of Butt junctions and areas which are SUPERSEDED.</p>	
<p>2. Soundings originating with the survey and mentioned in the Descriptive Report have been verified and checked in soft black pencil, including latitude and longitude, together with position identification. Remarks Required: -- None</p>		*		<p>Part IV - VOLUMES</p> <p>11. All items affecting the plotting of the survey which are entered in the remarks columns of the sounding records were noted and check marked. In all cases appropriate action was taken and exceptions noted in the volumes. Remarks Required: -- None</p>	
<p>3. All reference to survey sheets mentioned in the Descriptive Report should include registry number and year. Remarks Required: -- None</p>		*		<p>12. Condition of sounding records was satisfactory except as follows: Remarks Required: -- Mention deficiencies in completeness of notes or actions for the following: (a) rocks (b) line turns (c) position values of beginning and ending of lines (d) bar check or velocity correctors (e) time recording (f) notes or markings on fathograms (g) was reduction of soundings accurately done? (h) was scanning accurate? (i) were peaks at uneven intervals missed? (j) were stamps completed? (k) references to adjacent features</p>	
Part II - SHORELINE AND SIGNALS					
<p>4. Source of shoreline signals Remarks Required: -- List all surveys</p> <p>a. Give earliest and latest dates of photographs <u>Sept 55, May 58</u></p> <p>b. Field inspection date <u>May 58</u></p> <p>c. Field Edit date <u>May 62</u></p> <p>d. Reviewed-Unreviewed <u>Jan 72</u></p>		*			
<p>5. The transfer of contemporary topographic information was carefully examined and reconciled with the hydrography. Remarks Required: -- Discuss remaining differences.</p>		*			
<p>6. The plotting of all triangulation stations, topographic stations and hydrographic signals has been checked and noted in processing stamp No. 42 on the smooth sheet. Remarks Required: -- None</p>		*			
<p>7. Objects on which signals are located and which fall outside of the high-water line have been described on the sheet. Remarks Required: -- List those signals still unidentified.</p>		*			
Part III - JUNCTIONS				Part V - PROTRACTING	
<p>Note: Make a cursory comparison preliminary to inking soundings in area of overlap.</p> <p>8. All junctions of contemporary or overlapping sheets were transferred in colored ink and overlapping curves were made identical. Remarks Required: -- None</p>		See		<p>13. All positions verified instrumentally were check marked in color in the sounding records, and verifier initialed the processing stamp. Remarks Required: -- None</p>	
<p>9. The notation in slanted lettering "JOINS H---- (19)" was added in colored ink for all verified contemporary adjoining or overlapping sheets. Those not verified are shown in pencil. Remarks Required: -- None</p>		See		<p>14. The protracting and plotting of all unsatisfactory crossings were verified. Remarks Required: -- None</p>	
				<p>15. All detached positions locating critical soundings, rocks, buoys, breakers, obstructions, kelp, etc., were verified and the position numbers are legible. Remarks Required: -- None</p>	

Fig. 20 (Cont'd.)
Form 946A (back of form)

Part V - PROTRACTING (Continued)	CL	R	Part VIII - AIDS TO NAVIGATION	CL	R
16. The protracting was satisfactory except as follows: Remarks Required: -- Refers to protracting in general except for specific faults repeated often, or faults in control information, which required considerable replotting or adjustments.	*		26. All fixed aids located together with those on the contemporary topographic sheets, have been shown on the survey. Remarks Required: -- Conflicts of any nature listed.	*	
17. The protractor has been checked within the last three months. Remarks Required: -- Date of check, type of protractor and number.	*		27. All floating aids listed in the Descriptive Report should be verified and checked in soft black pencil, including latitude and longitude and position identification. Remarks Required: -- None	N.A.	
Part VI - SOUNDINGS			Part IX - BOATSHEET		
18. All soundings are clear and legible, and critical soundings are a little larger than adjacent soundings. Remarks Required: -- None	*		28. The boat sheet was constantly compared with the smooth sheet with reference to notes, position of sounding lines and supplemental information. Remarks Required: -- None	*	
19. Sounding line crossings were satisfactory except as follows: Remarks Required: -- Discuss adjustments.	*		29. Heights of rocks awash were correctly reduced and compared with topographic information. Remarks Required: -- Note excessive conflicts with topographic information.	*	
20. The spacing of soundings as recorded in the records was closely followed; Remarks Required: -- None	*		Part X - GENERAL		
21. The scanning, reduction, spacing, plotting of questionable soundings have been verified. Remarks Required: -- None	*		30. All information on the sheet is shown in accordance with figures 82 and 83 in the Hydrographic Manual (Pub. 20-2). Remarks Required: -- None	*	
22. The smooth plotting of soundings was satisfactory except as follows: Remarks Required: -- Refer to legibility, errors in spacing, and errors in numbers - but not to errors in scanning.	*		31. Unnecessary pencil notes have been removed from the sheet. Remarks Required: -- None	*	
Part VII - CURVES			32. Degree, minute values and symbols have been checked; also electronic distance arcs have been properly identified and checked on the smooth sheet. Remarks Required: -- None	*	
23. The depth curves have been inspected before inking. Remarks Required: -- By whom was the penciled curves inspected.	*		33. The bottom characteristics are adequately shown. Remarks Required: -- None		
24. The low-water line and delineation of shoal areas have been properly shown in accordance with the following: a. From T-Sheet in dotted black lines b. From soundings in orange c. Approximate position of sketched curve is dashed orange d. Approximate position of shoal area not sounded in black dashed Remarks Required: -- None	*		Part XI - NOTES TO THE REVIEWER		
25. Depth curves were satisfactory except as follows: (This statement should not refer to the manner in which the curves were drawn). Remarks Required: -- Indicate areas where curves could not be drawn completely because of lack of soundings. For some inshore areas a general statement is sufficient.	*		34. Unresolved discrepancies and questionable soundings.	*	
			35. Notation of discrepancies with photogrammetric survey inserted in report of unreviewed photogrammetric survey or on copy.	*	
			36. Supplemental information.		
Verified by B. J. STEPHENSON			Date 6-13-74		

Verifier....CHAS. MEEKINS

Norfolk, Virginia
November 28, 1972

VERIFICATION NOTE TO EDP (AMC)
SURVEY H-8689 (HO-12.5-1-62)
(ASHVILLE LOGGED SURVEY)

This branch has completed the verification of the preliminary position overlay for the above survey. We are returning the position printout with all necessary changes marked in either red or purple pencil.

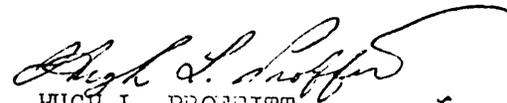
During verification of the position overlay it was found that the following changes need to be applied:

1. Change the projection parameters to: Lat. $56^{\circ}14'50''$ Long. $133^{\circ}53'25''$
2. Change the G.P. for signal 460 to: Lat. $56^{\circ}23'49.428''$ Long. $133^{\circ}46'30.787''$
(Handwritten: 400 above 49.428, 38.500 above 30.787)
3. Change the following signals to triangulation symbols:

251	020	030	527	722
269	023	068	567	887
009	036	374	665	
4. There were about 20 additional pseudo fixes made and inserted to help control the sounding lines around points of land, islands, etc. Insert these as noted in the printout.
5. There are about 30 positional changes to be made, due to either one word miss-reading of the protractor when pseudo fixes were made, or logging errors.
6. Destroy records 3796 thru 3825, positions rejected by the field.
7. The printout uses vessel no. 1192 for the entire survey. This survey was done by the Ship HODSON, assigned no. 2730; Lch. 1192, assigned no. 2731; and the port whaleboat, assigned no. 2732, for the year 1962. Additional work was done in 1965 by the Ship PATTON'S Lch. 1191, assigned no. 8041. The vessel nos. were assigned as required by the Automated Hydrography Manual.
(Handwritten: on printout)

When the above changes are completed, please furnish this office with a Sounding Overlay and Printout.

WLJ


HUGH L. PROFFITT
Chief, Verification Branch
Atlantic Marine Center

Verifier:..W.L.Jonns

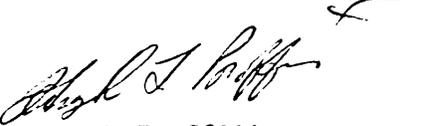
Norfolk, Va.
Dec.21,1972

VERIFICATION NOTE TO EDP (AMC)
SURVEY H-8689 (Ashville logged)

An inspection of the preliminary Tide, Vel., and TC/TI printouts has been made by personnel of this branch and no changes are considered necessary at this time.

Please furnish this branch with a sounding overlay.

WLJ


Hugh L. Proffitt
Chief Verification Br. AMC.

Verifier: R.G. Roberson

07-August-1973

H-8689(HO 12.5-1-62)
VERIFIER NOTE TO EDP

This branch has examined this survey and found some errors. These errors should be corrected by the accompanying deck of punched cards.

The majority of corrections involved excessed soundings. Some because they touched and others because of the possibility of illegibility.

A few soundings were changed. About ten soundings were listed incorrectly in the plotted depth column of the printout, but these same soundings were listed correctly in the reduced depth column.

Some inshore positions were misplotted because of a misplotted signal (#460).

All corrections were made on the right hand margin of the printout in red ink.

After all of the above corrections have been made, please furnish this office with a smooth sheet without signal numbers and a replotted excess level number one.



William L. Jonns
Chief Verification, Br.
(Acting)
AMC

Verification Note to EDP-AMC
 Survey H-8689 (HO 12.5-1-62)

The personnel of this branch have completed the verification of the sounding overlay for this survey. The following is a listing of the changes to be made:

- Revise 15 positions
- Replace 25 soundings
- Plot or excess 275 soundings
- Insert tides for 4 soundings
- Time & Course 11 soundings
- Replace time on 2 soundings
- Insert 2 position numbers

Cards have been punched for the changes and will

accompany the printout. When the changes have been entered in the I & R file please furnish this office with a smooth sheet, (soundings not rotated) and a final position overlay. It is also requested that a small excess overlays for levels 1 & 2 be plotted for an area 12" x 12" in order to hand plot some of the soundings on the smooth sheet. A projection parameter will be attached.

The signal numbers should be plotted in the direction indicated:

<u>EAST</u>	<u>NORTHEAST</u>	<u>WEST</u>	<u>NORTH</u>	<u>SOUTHWEST</u>	<u>NORTHWEST</u>
722	435	999	749	632	303
	460	527	269		
	635	928			
	828	966			
	939	785			

The point of origin for distortion point is as follows:

56 -15' - 06" North
 133 -52' - 54" West

bjs/WLJ

William L. Jonns
 William L. Jonns
 Chief, Verification Br.

CAM3-1
2-18-71

ATLANTIC MARINE CENTER

PROJECTION PARAMETERS

POLYCONIC OR MODIFIED TRANSVERSE MERCATOR

1. Project No. OPR-347 4. Requested By Verification Br.
2. Reg. No. H-8689 5. Ship or Office _____
3. Field No. HO 12.5-1-62 6. Date Required With smooth sheet

7. Polyconic Modified Transverse Mercator

8. Central Meridian of Projection 133 ° 48 ' 00 "

9. Survey Scale: 1: 12,500

10. Size of Sheet (check one):

36 x 54 36 x 60 Other Specify 12" X 12"

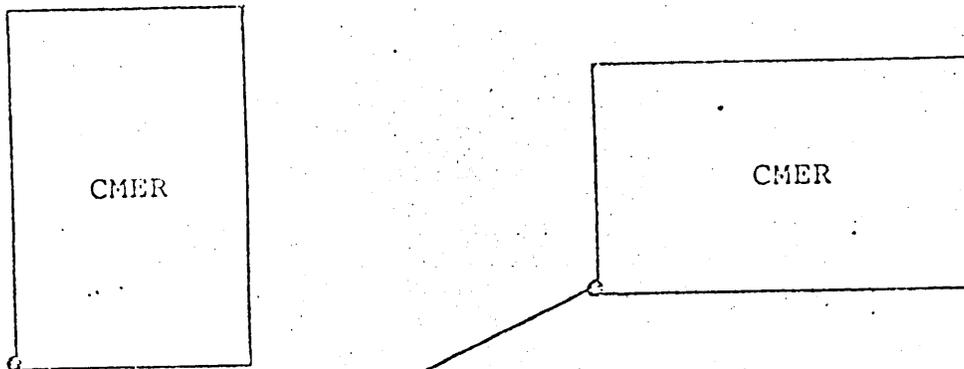
11. Sheet Orientation (check one):

NYX = 1

NYX = \emptyset

N

N



12. Plotter Origin: S.W. Corner of Sheet (not necessarily a grid intersection)

Latitude 56 ° 23 ' 00 "

Longitude 133 ° 49 ' 30 "

13. G.P.'s of triangulation and/or signals attached

14. Material Desired: Tracing Paper Mylar

Smooth Sheet Other Specify _____

15. Remarks: _____

SURVEY # 08689
POSITION NUMBERS

<u>VOLUME NUMBER</u>	<u>VESSEL</u>	<u>BLOCK OF NUMBERS ALLOCATED</u>
1-3	Ship Hodgson	0001-0500
4	Port Motor Whaleboat (Launch # 1190)	0501-0700
5	Launch # 1192	0701-1000
6,7	Launch # 1191 (Ship Patton)	1001-1216

ABSTRACT FOR SURVEY # 08689
1962,65

<u>MANUAL</u>		<u>AUTOMATED</u>	
<u>DAY</u>	<u>POSITION #'S</u>	<u>JULIAN DAY</u>	<u>POSITION #'S</u>
<u>SHIP HODGSON</u>			
"A" Day 6/25/62	1-027	176	0001-0027
"B" Day 7/18/62	1-120	199	0028-0147
"C" Day 7/19/62	1-161	200	0148-0308
"D" Day 7/24/62	1-014	205	0309-0322
"E" Day 7/25/62	1-107	206	0323-0429
"F" Day 7/26/62	1-026	207	0430-0455
"G" Day 9/21/62	1-004	264	0456-0459
<u>PORT MOTOR WHALEBOAT</u> <u>LAUNCH # 1190</u>			
"A" Day 9/12/62	1-098	255	0501-0598
"B" Day 9/14/62	1-051	257	0599-0649
"C" Day 9/18/62	1-016	261	0650-0665
"D" Day 9/21/62	1-006	264	0666-0671
<u>LAUNCH # 1192</u>			
"A" Day 9/17/62	1-167	260	0701-0867
"B" Day 9/18/62	1-045	261	0868-0912
"C" Day 9/19/62	1-047	262	0912-0959
<u>LAUNCH # 1191 (Ship Patton)</u>			
"A" Day 5/20/65	1-061	140	1001-1061
"B" Day 5/24/65	1-029	144	1062-1090
"C" Day 5/25/65	1-005	145	1091-1095
"D" Day 5/26/65	1-041	146	1096-1136
"E" Day 9/09/65	1-080	252	1137-1216

✓ D.I.R.

H - 8689(1962 - 1965)

TRA CORRECTOR / TABLE INDICATOR (TC/TI) TAPE

PATTON (LAUNCH 1191)

⁵
804 1965

142440 0 0000 0005 140 000000 000000

144020 0 0000 0005 144 000000 000000

085300 0 0000 0005 145 000000 000000

091640 0 0000 0005 146 000000 000000

100440 0 0000 0006 252 000000 000000

v D.I.R.

H - 8689(1962-1965)

TRA CORRECTOR / TABLE INDICATOR (TC/TI) TAPE

HODGSON (LAUNCH 1192)

⁵
273 1962

091030 0 0000 0004 260 000000 000000

143600 0 0000 0004 261 000000 000000

120400 0 0000 0004 262 000000 000000

V.D.J.R.

H - 8689(1962 - 1965)

ERA CORRECTOR / TABLE INDICATOR (TC/TI) TAPE

HODGSON (WHALE BOAT)

27⁵ 1962

090600 0 0000 0003 255 000000 000000

083000 0 0000 0003 257 000000 000000

151030 0 0000 0003 261 000000 000000

125600 0 0000 0003 264 000000 000000

202
H - 8689(1962 - 1965)

TRA CORRECTOR / TABLE INDICATOR (TC/TI) TAPE

HODGSON (SHIP)

5
2780 1962

134830 0 0012 0001 176 000000 000000
135300 0 0010
140000 0 0012
140230 0 0010
140330 0 0012
140730 0 0010
140825 0 0012
141230 0 0010
141400 0 0012
141630 0 0010
141800 0 0012
142200 0 0010
155130 0 0012
155230 0 0010

103450 0 0012 0002 199 000000 000000
103545 0 0010
103630 0 0012
104000 0 0010
104320 0 0012
104330 0 0010
104415 0 0012
104430 0 0010
104600 0 0012
104700 0 0010
110800 0 0012
112000 0 0010
112230 0 0012
112300 0 0010
124730 0 0012
124800 0 0010
132830 0 0012
133100 0 0010
133700 0 0012
133730 0 0010
151330 0 0012
151500 0 0010
151900 0 0012
152030 0 0010
152255 0 0012
152330 0 0010
152430 0 0012
152630 0 0010

085900 0 0010 0002 200 000000 000000
090100 0 0012
090330 0 0010
093330 0 0012
093700 0 0010
104700 0 0012
105100 0 0010
112400 0 0012
112830 0 0010
113230 0 0012
113330 0 0010
135930 0 0012
140000 0 0010

142430 0 0012
142900 0 0010
143700 0 0012
143830 0 0010
145330 0 0012
145530 0 0010
145930 0 0012
150000 0 0010
150130 0 0012
150215 0 0010
150330 0 0012
151130 0 0010
151200 0 0012
151330 0 0010
151500 0 0012
151530 0 0010
151550 0 0012
151600 0 0010
151900 0 0012
152300 0 0010

131100 0 0012 0002 205 000000 000000
132100 0 0010
133300 0 0012
134500 0 0014
140200 0 0010

094400 0 0010 0002 206 000000 000000
111700 0 0012
112030 0 0010
112530 0 0012
112630 0 0010
112650 0 0012
113530 0 0010
113600 0 0012
113730 0 0010
114200 0 0012
114220 0 0010
114300 0 0012
123230 0 0010
125630 0 0012
125800 0 0010
130100 0 0012
130400 0 0010
130830 0 0012
130930 0 0010
131100 0 0012
131130 0 0010
131700 0 0012
131800 0 0010
132300 0 0012
132600 0 0010
132830 0 0012
134230 0 0010
135330 0 0012
135430 0 0010
144000 0 0012
144100 0 0010
145600 0 0012
145900 0 0010
150000 0 0012
150130 0 0010
150545 0 0012
151100 0 0010
151700 0 0012
152130 0 0010

152930 0 0012
153600 0 0010
153730 0 0012
154000 0 0010
154200 0 0012
154300 0 0010
154400 0 0012
154530 0 0010
154730 0 0012

083900 0 0010 0002 207 000000 000000
093000 0 0012
093330 0 0010
094030 0 0012
094130 0 0010
094300 0 0012
094400 0 0010

112500 0 0012 0002 264 000000 000000
115700 0 0010

V.D.V.R.

H - 8689(1962 - 1965)

TIDE TAPE

PATTON (LAUNCH 1191)

⁵
804 1965

143800 0 1009 0000 140 000000 000000
151640 0 1011
153700 0 1012
153840 0 1013
161940 0 1014

153200 0 1003 0000 144 000000 000000
160400 0 1004

092440 0 1014 0000 145 000000 000000
095200 0 1013

091840 0 1013 0000 146 000000 000000
105000 0 1014
111990 0 1013

101120 0 1008 0000 252 000000 000000
102220 0 1009
104600 0 1011
110100 0 1012
111600 0 1013
112640 0 1014
115200 0 1015
115340 0 1016
134900 0 1018
142540 0 1017
143100 0 1016
150320 0 1015

12.12

H - 8689(1962 - 1965)

TIDE TAPE

HODGSON (SHIP, LAUNCH, WHALEBOAT)

5
273 1962

142300 0 0000 0000 176 000000 000000
142400 0 1001
154700 0 1004
155330 0 1005

104500 0 1001 0000 199 000000 000000
105700 0 1002
111000 0 1003
112000 0 1004
113200 0 1005
114100 0 1006
123500 0 1011
124800 0 1012
130000 0 1013
131500 0 1014
133200 0 1015
135130 0 1016
153900 0 1017
154000 0 1016

092900 0 0006 0000 200 000000 000000
095500 0 0005
101100 0 0004
102230 0 0003
105400 0 0001
110600 0 0000
111800 0 1001
112830 0 1002
114000 0 1003
115030 0 1004
124700 0 1009
125800 0 1010
130800 0 1011
131900 0 1012
133000 0 1013
134400 0 1014
140000 0 1015
140330 0 1016
144100 0 1017
154630 0 1018

134500 0 1001 0000 205 000000 000000
141900 0 1002
144000 0 1003
151700 0 1005
152800 0 1006
154300 0 1007
155700 0 1008
161100 0 1009

094400 0 1011 0000 206 000000 000000
113500 0 1007
114400 0 1006
124400 0 1004
132030 0 1003
141230 0 1002
151830 0 1003

154700 0 1004
155230 0 1005

083900 0 1011 0000 207 000000 000000
095500 0 1012

090700 0 1006 0000 255 000000 000000
091900 0 1007
091940 0 1008
095600 0 1010
100500 0 1011
101600 0 1012
103400 0 1013
104740 0 1014
110100 0 1015
112000 0 1016
115100 0 1017
125630 0 1018
133300 0 1017
135200 0 1016
140700 0 1015
142000 0 1014
143340 0 1013
151300 0 1010
152800 0 1009
153920 0 1008

083700 0 0004 0000 257 000000 000000
085130 0 0003
095400 0 1002
100300 0 1003
101300 0 1004
102300 0 1005
103300 0 1006
103900 0 1007
111200 0 1010
112130 0 1011
113200 0 1012
113230 0 1013

102900 0 1001 0000 260 000000 000000
104530 0 1002
110330 0 1003
112200 0 1004
113400 0 1005
114500 0 1006
115030 0 1007
123700 0 1011
124800 0 1012
125700 0 1013
130800 0 1014
131900 0 1015
132900 0 1016
134000 0 1017
135000 0 1018
140200 0 1019
142000 0 1020
143700 0 1021
145500 0 1022
153000 0 1023
162900 0 1024

144000 0 1019 0000 261 000000 000000
145400 0 1020
151100 0 1021
153200 0 1022

161430 0 1023

122100 0 1006 0000 262 000000 000000
124500 0 1007
124600 0 1008
130445 0 1009
133000 0 1010
133200 0 1011
140200 0 1012
141830 0 1013
152700 0 1017
153930 0 1018

✓ D.V.R.
H - 8689(1962 - 1965)

VELOCITY CORRECTION TAPE

HODGSON (SHIP, LAUNCH)

⁵
2730 1962

2754
000075 0 0000 0001 000 000000 000000
000226 0 0001 ✓
000530 0 0002 ✓
000830 0 0004 ✓
001010 0 0006 ✓
001380 0 0005 ✓
099990 0 0010 ✓

SHIP HODGSON (ID 2730)
Applicable 25 June 1962

000064 0 0000 0002 000 000000 000000
000176 0 0001 ✓
000290 0 0002 ✓
000310 0 0003 ✓
000410 0 0002 ✓
000680 0 0004 ✓
000960 0 0006 ✓
001010 0 0008 ✓
001140 0 0005 ✓
001850 0 0010 ✓
099990 0 0015 ✓

SHIP HODGSON (ID 2730)
Applicable 18 July - 26 July 1962

000030 0 0001 0003 000 000000 000000
000054 0 0002 ✓
000078 0 0003 ✓
000168 0 0004 ✓
000310 0 0005 ✓
099990 0 0006 ✓

(ID-2734)
Port Motor Whale Boat - 808 fath
Applicable 9 Sept - 21 Sept 1962

000058 0 0004 0004 000 000000 000000
000100 0 0005 ✓
000256 0 0006 ✓
000310 0 0007 ✓
000380 0 0006 ✓
000660 0 0008 ✓
000930 0 0010 ✓
001010 0 0012 ✓
001250 0 0010 ✓
001500 0 0015 ✓
001760 0 0010 ✓
099990 0 0020 ✓

(ID-1192)
LCH 1192 723 Fath
Applicable All days

000063 0 0002 0005 000 000000 000000
000306 0 0003 ✓
000587 0 0004 ✓
000830 0 0005 ✓
099990 0 0006 ✓

(ID-1191)
LCH 1191 PATTON
11 May - 26 May 1965

000050 0 0002 0006 000 000000 000000
000097 0 0003 ✓
000235 0 0004 ✓
000360 0 0005 ✓
000493 0 0006 ✓
000620 0 0007 ✓
000750 0 0008 ✓
000880 0 0009 ✓
001415 0 0010 ✓
001960 0 0015 ✓
099990 0 0020 ✓

(ID-1191)
LCH 1191 PATTON
28 July - Sept 8 & 9 Sept 1965

✓ D.V.R.
H - 8689(1962 - 1965)

HYDRO SIGNAL CONTROL DATA

HODGSON VISUAL
PATTON

073⁵ 1962
8045 1965

036	56	23	5436	133	42	5198	ago	Δ 1954
009	56	23	3403	133	53	0241	bay	Δ 1929
020	56	15	2817	133	51	0964	bea	Δ Beauclere 2 Light, 1922
023	56	23	4960	133	52	2437	beg	Δ R.M. L, 1929
030	56	23	2716	133	42	3842	bib	Δ 1954 B18
068	56	19	2358	133	49	4880	bou	Δ Boulder 1915
251	56	23	3636	133	46	2363	end	Δ 1954
✓ 269	56	23	4106	133	48	1419	fox	Δ 1929
374	56	15	4318	133	51	1687	isl	Δ 1929 Isle
✓ 527	56	24	0617	133	49	0725	ner	Δ 1929
567	56	16	3134	133	52	3039	nor	Δ 1929
665	56	21	5053	133	52	0773	pom	Δ 1929
722	56	24	0883	133	46	3614	ree	Δ Reef 2 1915
887	56	21	0182	133	50	5598	tur	Δ 1929 Turn
078	56	24	0954	133	52	4039	art	
001	56	23	3563	133	52	3020	bad	
325	56	23	5724	133	46	4661	gem	
385	56	23	3652	133	52	2695	gum	
303	56	24	0031	133	47	0260	hag	
999	56	23	5267	133	46	5733	irk	
460	56	23	5458	133	42	5278	job	
431	56	23	4425	133	46	2697	kid	
435	56	24	0660	133	48	4584	kim	
604	56	17	1480	133	50	5827	oak	
635	56	23	5467	133	48	3655	ohm	
632	56	23	4351	133	47	3369	pie	
785	56	23	5029	133	47	3422	rum	
749	56	24	0167	133	47	3499	sky	
865	56	24	5743	133	47	3854	tom	
866	56	23	4376	133	52	2291	top	
828	56	23	5884	133	47	1659	vet	
939	56	23	4863	133	47	0331	why	
928	56	24	5208	133	49	3877	yet	
966	56	24	2640	133	49	1264	zoo	

