8325

Disp. Cht. No. 8152-2.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. PA-1555 *Office No.* H-8325

LOCALITY

State SOUTHEAST ALASKA

General locality SUKKWAN STRAIT

Locality NORTH SIDE SUKKWAN ISLAND

19 56

CHIEF OF PARTY

LIBRARY & ARCHIVES

DATE FEB 7 1961

B-1870-1 (1)

8325

Form 537
(Ed. June 1946)

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-8325

Field No. PA*1555

State SOUTHEAST ALASKA

General locality SUKKWAN STRAIT

Locality NORTH SIDE ~~GOAT~~ SUKKWAN ISLAND

Scale 1:10,000 Date of survey May 7 - Aug 12, 1956 Field Season

Instructions dated 7 January, 1955, 9 December, 1955

Vessel USC&GS SHIP PATTON

Chief of party J. T. JARMAN

Surveyed by G. E. HARADEN, D. E. WESTBROOK AND T. E. SIMKIN

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

Fathograms scaled by GEH, TES, DEW, PTP, DAD

Fathograms checked by GEH, TES, DEW

Protracted by C. R. Lehman

Soundings penciled by C. R. Lehman

Soundings in fathoms ~~feet~~ at ~~MLW~~ MLLW

REMARKS:

U. S. GOVERNMENT PRINTING OFFICE 693019

DESCRIPTIVE REPORT TO ACCOMPANY

HYDROGRAPHIC SURVEY H-8325, (FIELD NO. PA-1555)

NORTH SIDE SUKKWAN ISLAND, S. E. ALASKA

SCALE 1:10,000

U. S. C. & G. S. S. PATTON, J. T. JARMAN, COMDG.

# # #

A. PROJECT:

This survey was executed in accordance with revised Instructions for Project 13570, dated 7 January 1955; Supplemental Instructions dated 9 December 1955; and the following referenced letters:

22/MEK S-1-PA, 13 March 1956
22/MEK S-1-PA, 16 July 1956
36-280-982pa, 22 June 1956
36-354-982pa, 2 August 1956
36-419-982pa, 10 September 1956

All letters and instructions were addressed to the Commanding Officer, Ship PATTON.

B. SURVEY LIMITS AND DATES:

This survey covers the northern side of Sukkwan Island and is bounded by longitude 132°-44.5' on the east, 55°-12.1' on the north and on the west by a southeasterly line passing through Turn Rock Daybeacon. The central portion of the sheet, Hydaburg Harbor and Sukkwan Narrows is covered by a 1:5,000 survey (H-8326).

Sounding was begun on 7 May and ended on 12 August. After completing the eastern portion of the sheet, sounding was discontinued to survey Hydaburg Harbor.

Field work was interrupted periodically to work on Project 10000-802, the American Telephone and Telegraph Cable Project.

The first day's work ("a" day) on this sheet was done during the 1955 field season. These soundings are in Hydaburg Harbor and ~~should be~~ are smooth plotted on H-8326, PA-05156.

C. VESSEL AND EQUIPMENT:

Hydrography was done with Launch No. 87 operating from the Ship PATTON. Soundings were taken with an 808-A recording fathometer No. 51, calibrated for a velocity of 800 fathoms per second, supplemented by handlead soundings on shoals and rocks. Bottom samples were taken by wire and handlead from the launch.

D. TIDE AND CURRENT STATIONS:

Two portable automatic tide gages were established for the reduction of soundings on this survey. All soundings east of Sukkwan Narrows are referred to the gage at Saltery Point. All other soundings are referred to the gage at South Pass. No time or range corrections are applied to the observed tides of either gage.

There are no current stations within the limits of this survey.

E. SMOOTH SHEET:

All work on the smooth sheet will be done by the Seattle Processing Office and will be covered by an addenda to this report.

F. CONTROL STATIONS:

Existing triangulation stations were used to control the hydrography and to locate additional hydrographic signals by graphic control methods. No new triangulation was established within the limits of this sheet. All additional control was established on graphic control sheets PATT-56-A and PATT-56-C. There were no jumps in the sounding lines and the control is considered good. A complete list of control for this sheet is attached to this report.

G. SHORELINE AND TOPOGRAPHY:

The shoreline and topography will be compiled from air photographs field inspected by this party during the 1956 season. In some places the shoreline was rodded in by the graphic control party as a check on the preliminary manuscripts. These sections are in good agreement with the shoreline as per manuscripts. *See verifiers report.*

The low water line is not defined by soundings except in bights where there are extensive flats. In general the shoreline drops abruptly and it was impossible to sound across the low water line. However a sounding line was run along the entire beach at reduced speed during high water. Minus soundings were obtained on this line, but not enough to delineate the zero curve. *Zero curve was added to S.S. from T-sheets.*

H. SOUNDINGS:

Soundings were taken with an 808 type recording fathometer operated on the fathom scale. Handlead soundings were made on shoals and isolated rocks. Daily bar checks were taken at 2, 4, and 7 fathoms. The fathometer initial was set at zero on the fathogram for soundings taken through "h" day. Beginning with "j" day the initial was set at 0.4 fathoms to eliminate the correction and this was continued throughout the remainder of the survey. All soundings were recorded on the A-scale. A summary of the fathometer corrections is attached to this report.

I. CONTROL OF HYDROGRAPHY:

The hydrography was controlled exclusively by three point sextant fixes on signals ashore.

J. ADEQUACY OF SURVEY:

This survey is complete and is adequate to supercede prior surveys for charting. Junctions with adjoining sheets are satisfactory and no holidays exist. Depth curves can be adequately drawn at the junctions.

K. CROSSLINES:

Approximately 8% of all sounding lines are crosslines. All crossings, ~~as per boatsheet~~ are in good agreement.

L. COMPARISON WITH PRIOR SURVEYS:

This survey covered parts of old survey H-3690, 1:10,000, 1914; and survey H-3419, 1:5,000, 1912. An overlay tracing of the depth curves and critical soundings from the old surveys were compared with the boat sheet. Since the 1956 survey is more complete, the depth curves are more intricate, but in general, the agreement is good.

New least depths on previously sounded shoals are listed below. These are boat sheet positions and soundings and are subject to revision by the smooth plot. In each case the new depth is the shoaler and should be retained.

Previous Location	Previous Depth (feet)	Previous Depth (fms)	New Location	New Depth(fms)
55°-10.65' 132 -47.25	81	13.5	55°-10.61' 132 -47.26	12
55 -10.62 132 -46.7065	35	5.8	55 -10.62 132 -46.65	4.5 6
55 -10.3129 132 -46.202	73	12.1	55 -10.30 132 -46.21	10.87
55 -10.22 132 -45.784	32	5.3	55 -10.22 132 -45.75	~~3.3~~ 2.9 ~~2.3~~ pos 35 f
55 -10.25 132 -45.57	8	1.3	55 -10.27 132 -45.59	Reef awash at MLLW pos 32f
55 -09.810 132 -46.13	32	5.3	55 -09.80 132 -46.12	4.8 pos 42-43 e 10-11 f
55 -09.43 132 -45.87	39	6.5	55 -09.43 132 -45.88	5.~~0~~ 4 pos. 9g
55 -09.02 132 -~~45.01~~ 44.96	43	7.1	55 -09.00 132 -44.97	~~5.7~~ 6 2 pos 102d
55 -08.564 132 -44.6359	-4		55 -08.57 132 -44.62	High part of reef bare 5 6 ft. at MLLW

In addition to the above shoals from old survey H-3690 the least depth on a shoal area at 55°-11.58', 132°-50.95' was found to be ~~one~~ 1.1 fathom compared to 9 feet shown on H-3419.

M. COMPARISON WITH CHART:

This survey covers parts of charts 8147, 8151, and 8153. The 2 fathom sounding on Chart 8151, 6th Edition, September 1929, at latitude 55°-09.96, longitude 132°-53.42', was developed and a new least depth of 1.5 fathoms was found. The shoal marked by South Passage Buoy 3 was also developed and found to be in agreement with Chart 8153.

The area northwest of the channel through South Pass was previously unsurveyed and no comparison can be made. All other charted information was discussed in Paragraph L.

N. DANGERS AND SHOALS:

All shoals shown on prior surveys have been listed in Paragraph L. Newly found shoals are as follows:

Latitude & Longitude	Least Depth (fathoms)	Position Number	Remarks
55°-10.41' 132 -54.89	0.1 rock awash *(Q)	8 7ba	Shoal, previously unsurveyed area
55 -10.32 132 -54.53	3.4	17-18 ca	Shoal, previously unsurveyed area
55 -09.963 132 -53.587	4.8	11-12z	Westerly end of shoal area
55 -10.51 132 -52.32	0.4	2ba	Least depth in kelp patch, close inshore
55 -11.821 132 -50.9087	5.5	~~57-58V-15W~~	Shoal
55 -10.81 132 -47.61	4.9	20	Shoal
55 -10.56 132 -46.19	6.2	35-36e	Shoal
55 -09.28 132 -45.754	4.5	38m	Shoal
55 -09.9089 132 -46.3026	6.0 5.9	6m ~~56-57e~~	Northwest end of shoal area

All of the above positions and depths are from the boat sheet and are subject to revision by the smooth plot. Corrections in ink from smooth sheet (unverif.) Corrections in pencil from verified smooth sheet

Considerable time was spent investigating the shoal indications on this survey, both by handlead feeling and by drift sounding with the fathometer. In cases where the fathometer sounding is shoaler than the handlead sounding, the former should be retained. Current hindered the leadsman considerably and although the leadline appeared vertical, there is no way of knowing how it was leading

N. DANGERS AND SHOALS (Contin.):

under the water. A slight slope coupled with the irregular bottom encountered, could cause discrepancies. The handlead soundings should not be used as a true depth for fathometer comparisons, especially in depths over 5 fathoms.

O. COAST PILOT INFORMATION:

Refer to "Coast Pilot Report, Ship PATTON, 1956 Field Season".

P. AIDS TO NAVIGATION:

Topographic locations of the two fixed aids to navigation on this sheet, Turn Rock Daybeacon, and Goat Island Light, were reported on Form 567.

Topographic locations of the two floating aids on this sheet are as follows:

NAME	POSITION	DEPTH	SOURCE
South Passage Buoy 3	55°-11.55' 132 -51.31	3 fms	PATT-56-C
Scragg Islands Ledge Buoy 5	55 -11.33 132 -51.57	6 fms	PATT-56-C

There are no submarine or overhead cables, bridges, or ferry routes within the limits of this survey.

Q. LANDMARKS FOR CHARTS:

No new landmarks are recommended.

R. GEOGRAPHIC NAMES:

Refer to "Geographic Names Report, Ship PATTON, 1956 Field Season", to be submitted.

Z. TABULATION OF APPLICABLE DATA:

Photogrammetric Report, Project 6117, 1956 Field Season
Topographic Report, Sheets PATT-56-A-B-C
Geographic Names Report, Ship PATTON, 1956 Field Season
Coast Pilot Report, Ship PATTON, 1956 Field Season

Data attached to this report are:

Table of Statistics
Tide Note
Summary of Fathometer Corrections
List of Signals

Approved & Forwarded:

J. T. Jarman
CDR C&GS
Cmdg., Ship PATTON

Respectfully submitted,
Gerard E Haraden
Gerard E. Haraden, LT C&GS

TIDE NOTE TO ACCOMPANY H-8325, (FIELD NO. PA-1555)

Two automatic portable tide gages were used for the reduction of soundings on this survey.

All soundings east of Sukkwan Narrows are reduced from the observed tides of the Saltery Point Tide Gage at latitude 55°-10.89', longitude 132°-47.77'. MLLW is 3.0 feet on the staff.

All soundings west of Sukkwan Narrows are reduced from the observed tides of the South Pass Tide Gage at latitude 55°-09.95', longitude 132°-52.22'. MLLW is 3.8 feet on the staff.

No time or height corrections were applied to the observed tides of either gage.

STATISTICS FOR HYDROGRAPHIC SURVEY

H-8325, PROJECT 13570

USC&GSS PATTON

VOL.NO.	DAY	DATE	HL SOUNDINGS	NO. OF POSITIONS	STATUTE MILES OF SOUNDINGS
~~1 *~~	~~a~~	~~22 September 1955~~	~~4~~	~~54~~	~~5.8~~
2	b	7 May 1956	-	20	3.9
2	c	9 " "	-	145	25.8
2 & 3	d	10 " "	5	119	10.5
3	e	11 " "	-	173	22.3
4	f	12 " "	4	85	8.4
4	g	13 " "	9	38	3.6
4 & 5	h	14 " "	1	180	21.8
5	j	22 " "	-	28	3.4
5	k	23 " "	1	97	9.0
5	l	24 " "	6	40	3.5
5	m	26 " "	10	49	2.9
5	n	13 June 1956	15	20	- -
5	p	15 " "	4	9	- -
6	q	26 " "	7	15	- -
6	r	28 " "	4	57	2.5
6	s	22 July 1956	-	92	11.3
6 & 7	t	23 " "	-	198	21.6
7	u	24 " "	1	145	15.0
7 & 8	v	25 " "	30	155	13.4
8	w	26 " "	27	111	9.5
8	x	27 " "	-	66	7.0
8 & 9	y	30 " "	6	49	4.6
9	z	31 " "	-	112	15.2
9	aa	9 Aug. 1956	-	163	19.0
10	ba	10 " "	20	170	16.6
10	ca	11 " "	51	89	3.2
10	da	12 " "	17	19	0.1
	Totals:		~~828~~ 218	~~2498~~ 2444	~~259.8~~ 254.1

Area: 7.72 square statute miles

All sounding was done with Launch #87

* This work transfered to H-8326

SUMMARY OF FATHOMETER CORRECTIONS

(Applied to Sounding Volumes)

Average Index Correction ("a" through "h" day) +0.4 fms.

Average Index Correction ("j" through "da" day) 0.0 fms.

Velocity Correction - Not Considered

Phase Correction - All Soundings on "A" Scale

Initial Correction - Scanned from Fathogram and Entered When Applicable

LIST OF SIGNALS FOR HYDROGRAPHIC SURVEY H-8325, (PA-1555)

NAME	SOURCE
ABE	PATT-56-C
ACE	" -A
ACT	" -C
ADD	" -A
AIM	" -C
ALP	" -C
AMY	" -A
ANN	" -C
ANT	ANT 1925
ARM	PATT-56-C
ASK	" -C
AXE	" -C
BAG	" -C
BAH	" -C
BED	" -C
BEND	BEND 1925
BIB	PATT-56-C
BIG	" -A
BLUFF	BLUFF 2, 1908, 27
BOB	PATT-56-C
BUM	" -C
BUS	" -C
BUT	" -C
CAM	" -C
CAR	" -C
CAT	" -A
CAW	" -C
COO	" -C
COP	" -C
CRY	" -C
CUE	" -C
CUR	" -C
CUT	" -C
DAW	" -C
DEB	" -C
DIP	" -C
DIM	" -C
DOC	" -C
DOG	" -A
DON	" -C
DOT	" -C
EAR	" -C
EAT	" -B
EBB	" -C
EEL	" -C
EGG	" -A
EGO	" -C
ELF	" -C
ELM	" -C
EVA	" -C
FAT	PATT-56-A
FEZ	" C
FIG	" C
FIX	" C
FLY	" C
FOG	" C
FORT	FORT, 1908, 25
FOX	PATT-56-C
FUN	" C
GAG	" A
GAL	" C
GAS	" A
GIG	" C
GIN	" C
GOAT	GOAT ISLAND LIGHT
GOB	PATT-56-C
GOT	" C
GUM	" B
GUS	" C
GUY	" C
GAM	" "
HAG	" C
HAT	" A
HER	" C
HEX	" C
HIP	HIP 1907, 27
HIS	PATT-56-A
HOE	" C
HUB	" C
HUG	" C
HUT	" C
ICE	" A
IDA	" A
ION	" C
IRK	" C
ISLE	ISLE 1908
ITS	PATT-56-C
IVY	" C
JAP	" A
JAR	" C
JAW	" C
JIM	" C
JOE	" C
JUG	" A
KED	" C
KEN	" C
KEY	" A
KID	" A
KIM	" C
KWAN	KWAN 1925

LIST OF SIGNALS Contin.

NAME	SOURCE
LAM	PATT-56-C
LAP	LAP 1908, 27
LAST	LAST, 1925
LEG	PATT-56-A
LEO	" A
LET	" C
LIG	SUKKWAN NARROWS LIGHT
LIP	PATT-56-C
LOG	" C
LOW	" C
LUG	" C
MAG	" C
MAL	" C
MAN	" C
MAX	" A
MID	" C
MOO	" C
MOP	" C
MUG	" A
MUM	" C
NAR	NAR 1925
NAT	PATT-56-C
NED	" A
NEW	" C
NIG	" C
NIP	" C
NIX	" A
NOD	" C
NOR	" C
NUB	" C
NUT	NUT 1908, 1925
NUX	PATT-56-C
OAK	" C
OBI	" C
ODD	" A
OFF	" A
OIL	" C
OLD	" C
OUT	" C
OVER	OVER 1908
PAD	PATT-56-C
PAL	" C
PAW	" A
PEG	" C
PEP	" C
PET	" C
PIE	" C
PIT	" C
POT	" A
PUG	" C
QUO	" A
RAG	PATT-56-A
RAM	" C
RAT	" C
RED	RED 1908,27
REEF	REEF 1908,14
REV	PATT-56-A
RIP	" C
ROY	" C
RUB	" C
RIG	C
SAD	" C
SAL	" C
SALT	SALT 1908,27
SAM	PATT-56-A
SAX	" C
SET	" C
SHE	" C
SIC	" C
SKI	" C
SKY	" C
SLY	" C
SMALL	SMALL 1925
SOL	PATT-56-C
SOX	" A
SUE	" C
SUK	SUK 1925
TAP	TAP 1925
TAX	PATT-56-A
TOM	" C
TOY	" A
TRY	" A
TURN	TURN ROCK DAYBEACON
UMP	PATT-56-A
USE	" A
VAL	" A
VAN	" C
VEX	" C
WAD	" C
WAG	" C
WAR	" A
WAS	" C
WAX	" A
WEE	" C
WHO	" C
WIG	" C
WIT	" C
WOO	WOODY 1925
YET	PATT-56-C
YES	" A
ZAG	PATT-56-A
ZIG	" C
ZOO	2 a

PROCESSING OFFICE NOTES - H-8325

SMOOTH SHEET

The projection was hand ruled by Seattle Hydrographic Processing Unit personnel using standard methods of construction and checking. The shoreline, triangulation and topo signals were applied by personnel of the Ship PATTON. The shoreline was inked and the control checked by the Seattle Hydrographic Processing Unit.

SHORELINE AND TOPOGRAPHY

The shoreline was transferred from photo manuscripts T-11497, T-11500 and T-11501.

COMPARISON WITH CHART

This survey was compared with Chart 8147, 4th Ed. Revised 10/7/57 and Chart 8151, 7th Ed. July 27, 1959.

See sections of those charts, attached to this report for comparisons.

Respectfully submitted,

William M. Martin

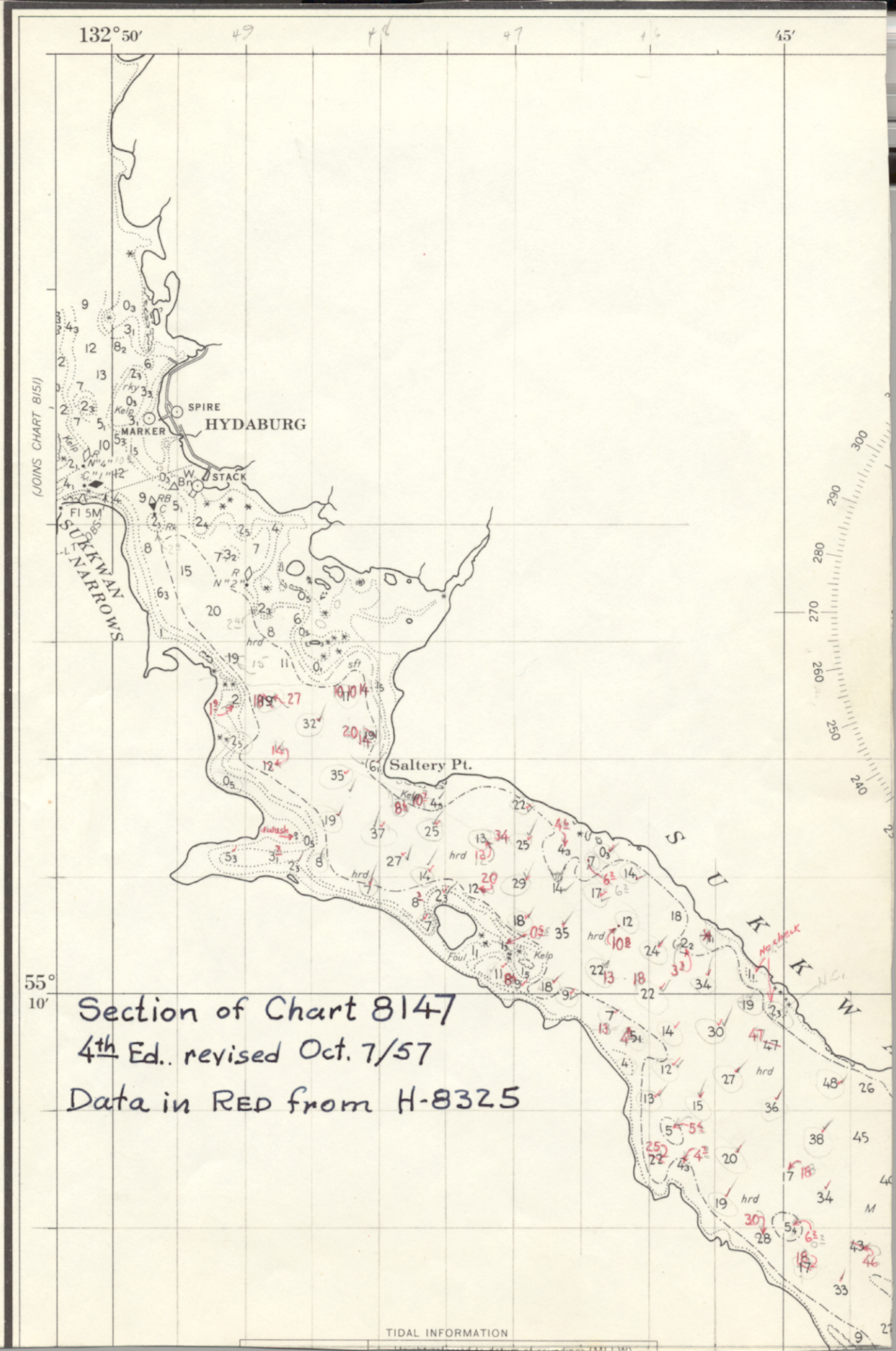
WILLIAM M. MARTIN
SUPERVISORY CARTOGRAPHER

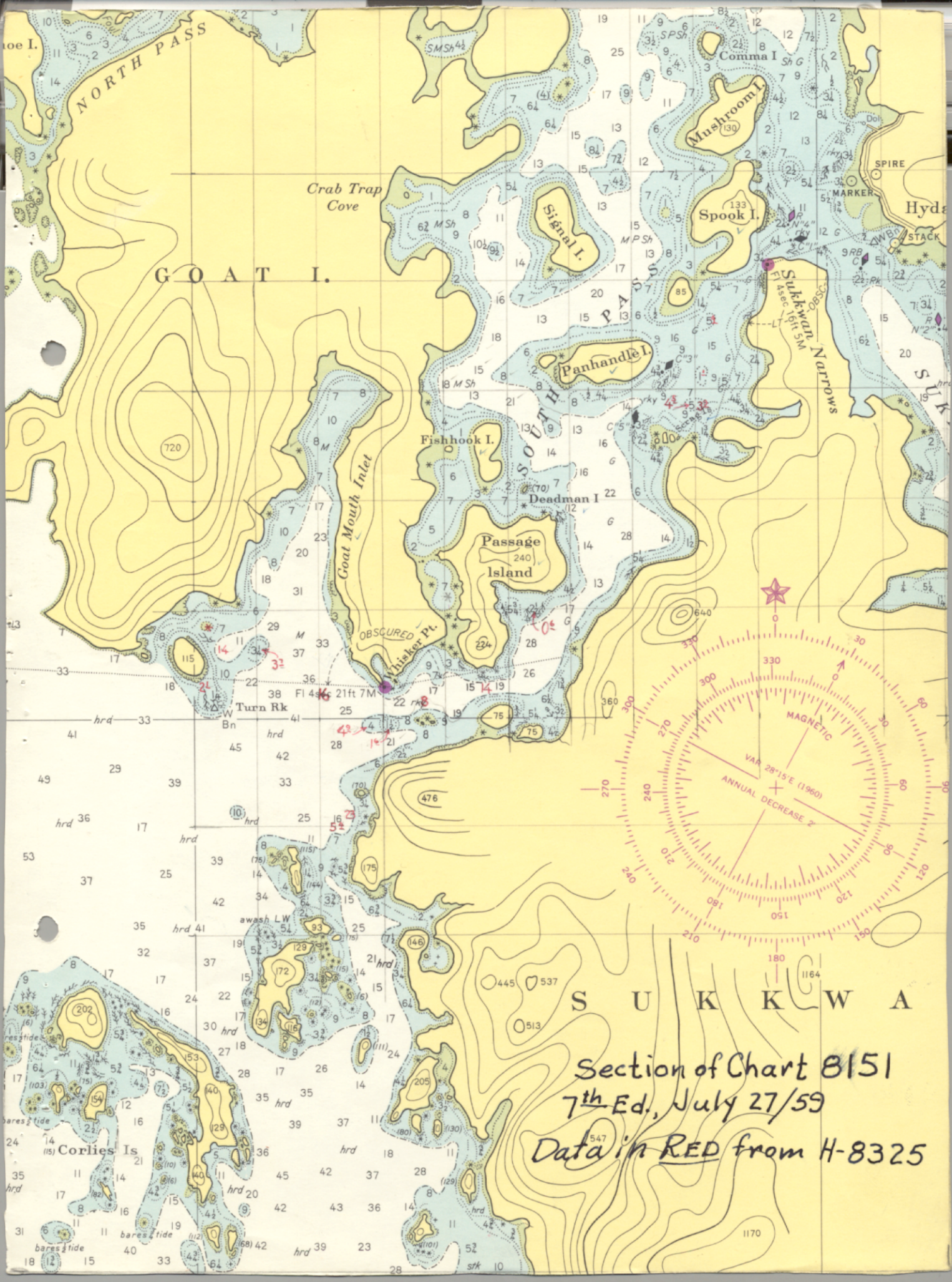
APPROVED AND FORWARDED:

M. E. Wennermark

M. E. WENNERMARK
CAPTAIN, C&GS
SEATTLE DISTRICT OFFICER

8147


132° 50′
45′
55° 10′
(JOINS CHART 8151)
SPIRE
HYDABURG
MARKER
STACK
FI 5M
SUKKWAN NARROWS
Saltery Pt.
SUKKWAN
Kelp
Foul
hrd
sft
rky
Section of Chart 8147
4th Ed.. revised Oct. 7/57
Data in RED from H-8325
TIDAL INFORMATION



Section of Chart 8151
7th Ed., July 27/59
Data in RED from H-8325

Notes to the Verifier
H-8325
August 1970

The shoreline on hydrographic survey 8325 in the vicinity of South Pass and Goat Island was taken from photogrammetric survey T-11500 before field inspection was applied. It is recommended that the shoreline on hydrographic survey 8325 be changed where differences occur to agree with the photogrammetric survey. Field inspection photograph 54-0-47 shows these changes.

Respectfully submitted,

Donald M. Brant

FORM 197
(3-16-55)

GEOGRAPHIC NAMES

Survey No. H-8325

Name on Survey	A On Chart No. 8151	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 BGN	
Deadman Island	x									1
Fishhook Island	x									2
Goat Mouth Inlet	x									3
Goat Island	x								x	4
Panhandle Island	x									5
Passage Island	x									6
Prince of Wales Island										7
Saltery Point	x									8
Scrag Islands	x								x	9
Signal Island	x									10
South Pass	x								x	11
Sukkwan Island	x									12
Sukkkwan Narrows	x									13
Sukkwan Strait	x								x	14
Turn Rock	x									15
Whisker Point	x									16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Jessie M. Bacon

GEOGRAPHIC NAMES SECTION
10 FEBRUARY 1961

Form 946

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. 8325

Records accompanying survey: Smooth sheets 1;

boat sheets 1; sounding vols. *9; wire drag vols. ;

Descriptive Reports 1; graphic recorder envelopes 7;

special reports, etc.

*ORIGINALLY 10 Vols. -Vol. 1 - a day was made a part of H-8326

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

Number of positions on sheet		2,444
Number of positions checked		300
Number of positions revised		4
Number of soundings revised (refers to depth only)		190
Number of intermediate sdgs. added		206
Number of soundings erroneously spaced		5
Number of signals erroneously plotted or transferred		0
Topographic details	Time	50
Junctions	Time	60
Verification of soundings from graphic record	Time	30
Special adjustments	Time	—

Verification by F.P. Saulsbury Total time 310 Date 1-16-74

Reviewed by Time Date

US COMM C&GS DC

VERIFIER'S REPORT OF HYDROGRAPHIC SURVEY NO. H- 8325

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. X

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. X *Plastic - o.k.*

9. The protracting and plotting of all bad crossings were verified. *All crossings are now in agreement.*

10 All detached positions locating critical soundings, rocks or buoys were verified. *The great majority of pos. checked were D.P.'s.*

11. The boat sheet was compared with the smooth sheet. ✓

12 The spacing of soundings as recorded in the records was closely followed. *Very Good.*

13. The bottom characteristics were shown on outstanding shoals. *In general.*

14. The reduction and plotting of doubtful soundings were checked. *The great majority of the 169 revised sdg's. were revised by 1 unit - since they represented the shoalest or deepest sdg. on the line.*

15. The transfer of contemporary topographic information was carefully examined. ✓

16. All junctions were transferred and overlapping curves made identical. *H-8230 - 1:10,000 - 1955 - excellent junction - H-8326 - 1:5,000 - 1956 - excellent junction ✓H-8456 - 1:10,000 - 1958 - unverified H-4762 - 1:10,000 - 1927 - adjusted datum - excel. junction within area of hydro.*
H-3691 - adj. datum & converted ft. to fms. H3691 - 1:5,000 - 1914 - excel. junction within area of hydro

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. *junctions with verified surveys H-8230 - 1:10,000 - 1955 H-8326 - 1:5,000 - 1956 H-4762 - 1:10,000 - 1927; H-3691 - 1:5,000 - 1914 UNVERIF. survey H-8456 - 1:10,000 - 1958*

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. *In all cases the highest elevations were inked.*

21. Rocks transferred from topographic surveys have a dotted curve where shown thereon. Rocks located accurately by hydrographer are encircled by dotted red curve. *Comparisons included - T-sheets, Graphic Control sheets, boat sheet & sdg. Vol, and junctional surveys, N/A at this time 1/15/74*

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. *generally of a temp. nature.*

24. The low water line and delineation of shoal areas have been properly shown. *with the orange curve where possible, with the dotted black curve where necessary, and frequently with a dashed orange curve where uncertain.*

25. Degree and minutes values and symbols have been checked. ✓

26. Questionable soundings have been checked on the fathograms. ✓

T-Sheets are reviewed

27. Source of shoreline and signals (when not given in report).
T-11497-1:10,000-1954-56 T-11500-1:10,000-1954-56 | G.C.-PATT-56-C-1:10,000-1956
T-11498-1:10,000-1954-56 T-11501-1:10,000-1954-56 | G.C.-PATT-56-A-1:10,000-1956

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.
2 buoys-transferred from Graphic Control Survey — PATT-56-C-1:10,000-1956

30. Depth curves were satisfactory except as follows:
Inadequate hydro development to properly delineate zero curve, optional curves were used where they accentuated shoal areas,

31. Sounding line crossings were satisfactory except as follows:
pos. 36ℓ was replotted on Left ∠, T&C to bring about x line agreement, many sdg's were legit. revised one unit, by rescanning the fathogram, to attain x line agreement.

32. Junctions with contemporary surveys were satisfactory except as follows: All junctions very good,

Junctions with -H-4762-1927-1:10,000 & H-3691-1914-1:5,000 while not contemporary, agreed very well in the hydro area & were inked, Eastern section of H-3691 is not in agreement and is superseded by H-8325

33. Condition of sounding records was satisfactory except as follows: Very good,

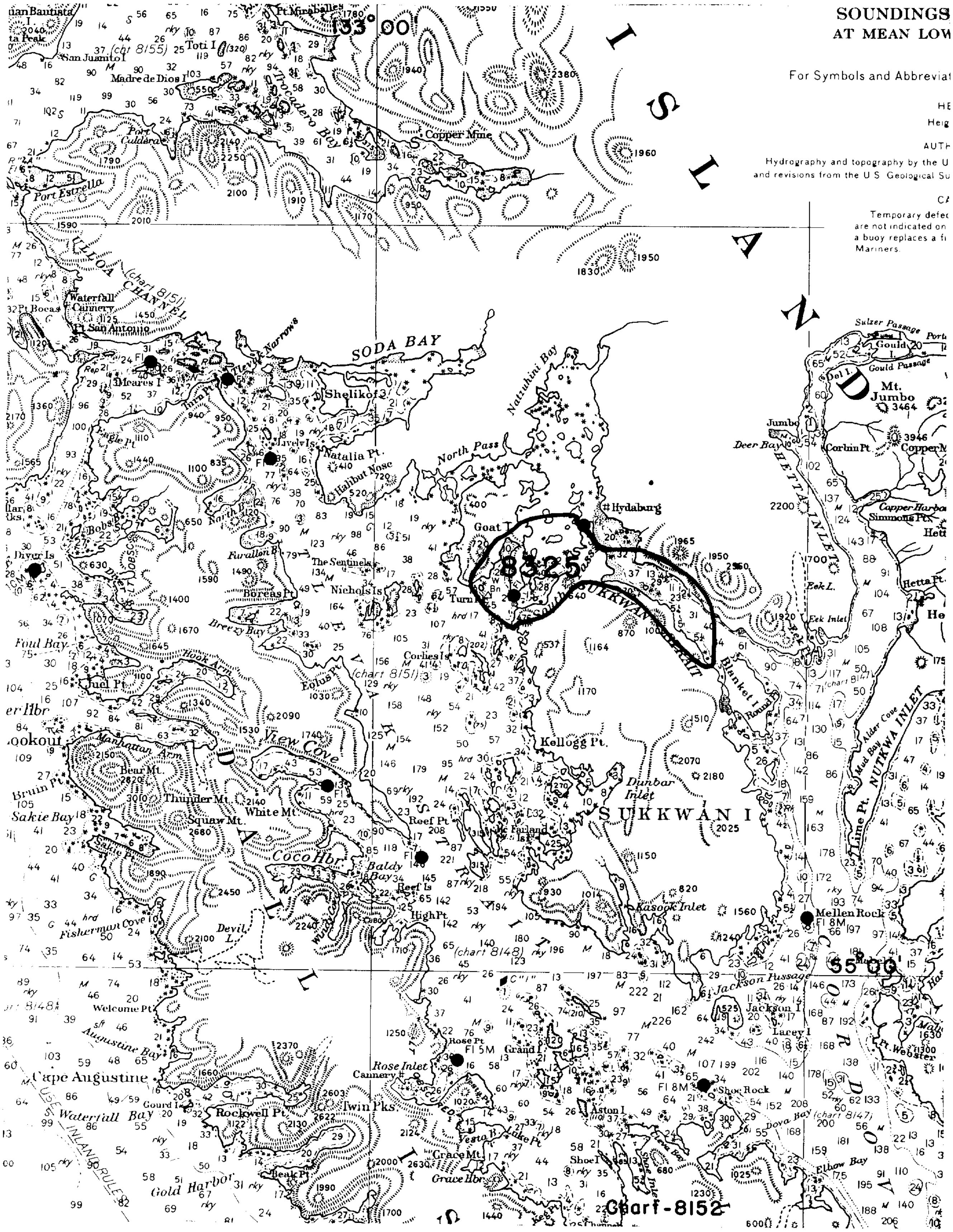
34. The protracting was satisfactory except as follows:
pos. 94d-replotted on rt. ∠ & T to satisfy junction with H-8230, pos. 19ℓ off & replotted; pos. 36ℓ replotted on Left ∠, T&C to satisfy "x" line; pos. 69w-back plotted on T&C to attain agreement with adjacent hydro,

35. The field plotting of soundings, and fath. scanning was satisfactory except as follows: Shoalest traces on the fathograms were not recorded by the field plotter on the following shoal investigations; pos. 2m, 3m, 4n, 23r, 10w, 39w, 40w, 53ca & 85ca. - The great majority of revised sdg's. were revised one unit since they were the deepest or shoalest sdg, on the line. 196 intermediate sdgs (shoals/deeps) were added to S.S.

36. Notes to reviewer: The field plotter carelessly inked rock elev's, rock awash symbols, ledges & reefs (topo information) necessitating erasure & redrafting by the verif.
S.L. shown in red was transferred from G.C. surveys. PATT-56A&C 1956-1:10,000
Numerous unrecorded kelp areas were added to the S.S.

Verified by J. Sandlebury Date 1-15-74

US COMM-COS-DC



SOUNDINGS
AT MEAN LOW
For Symbols and Abbreviat
Hydrography and topography by the U
and revisions from the U S Geological Su
Temporary defec
are not indicated on
a buoy replaces a f
Mariners.
133° 00'
55° 00'
I S L A N D
D A L L
SODA BAY
Port Estrella
Port Caldera
Copper Mine
Trocadero Bay
Madre de Dios I
San Juanito I
Toti I
Waterfall Cannery
Pt San Antonio
Meares I
Tlevak Narrows
Shelikof I
Natalia Pt.
Halibut Nose
North Pass
Nutzuhini Bay
Hydaburg
Goat I
8325
Sukkwan Strait
Jumbo
Mt. Jumbo
Deer Bay
Corbin Pt.
Hetta Inlet
Copper Harbor
Simmons Pt.
Eek L.
Eek Inlet
Hetta Pt.
Sulzer Passage
Gould I
Gould Passage
Nichols Is
Farallon B
The Sentinels
Boreas Pt.
Breezy Bay
Foul Bay
Juel Pt.
Hook Arm
Eolus Pt.
Corlies Is
(chart 8151)
Manhattan Arm
View Cove
Bear Mt.
Thunder Mt.
White Mt.
Squaw Mt.
Sakie Bay
Bruin Pt.
Coco Hbr.
Baldy Bay
Reef Pt
Reef Is
High Pt.
Kellogg Pt.
Dunbar Inlet
SUKKWAN I
McFarland Is
Kasook Inlet
Blanket I
Round I
Mud Bay
Nutkwa Inlet
Lime Pt.
Mellen Rock
Fl 8M
Fisherman Cove
Devil L.
Welcome Pt
(chart 8148)
Augustine Bay
Cape Augustine
Waterfall Bay
Gould I
Rockwell Pt.
Twin Pks
Gold Harbor
Rose Inlet
Cannery
Rose Pt
Fl 5M
Grand I
Vesta B.
Grace Mt.
Grace Hbr.
Lake Pt
Aston I
Shoe I
Shoe Rock
Jackson Passage
Jackson I
Lacey I
Dova Bay
(chart 8147)
Elbow Bay
Pt. Webster
Chart - 8152
USE INLAND RULES

RHC

Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. Apr. 1950

TIDE NOTE FOR HYDROGRAPHIC SHEET

[redacted] 23 February 1961

Division of Charts: R.H.Carstens

Plane of reference approved in
9 volumes of sounding records for

HYDROGRAPHIC SHEET 8325

Locality North Side Sukkwan Island, Southeast Alaska

Chief of Party: J.T.Jarman (1956)
Plane of reference is mean lower low water reading.
3.0 ft. on tide staff at Saltery Point
12.8 ft. below B. M. 1 (1914)
3.8 ft. on tide staff at South Pass
16.2 ft. below B.M. 2 (1912)

Height of mean high water above plane of reference is: 12.0 ft.

Condition of records satisfactory except as noted below:

Burton W. Wilcox
Chief, Tides and Currents Branch

[redacted]

U. S. GOVERNMENT PRINTING OFFICE 877933

NAUTICAL CHARTS BRANCH

SURVEY NO. H-8325

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
8/24/61	8151	J. H Eaton	Part appl'd. Cnt soundings only. Before ~~After~~ Verification and Review
1-9-62	8152	R. B. Hoover	Part appl'd area W of 133°47' appl'd from chart 8151 Insp #6 Before ~~After~~ Verification and Review
8-10-63	8147	h. j. keeler	Before ~~After~~ Verification and Review Part, Appl'd thru 8151 area covered by chart 8151 appl'd thru that chart RKO
12-4-63	8147	H. Radden	Before ~~After~~ Verification and Review Fully appl'd to 8147 Recom.
1/24/75	8151	M. D. KANIS	~~Before~~ After Verification ~~and Review~~ EXAMINED for critical corrections
2/3/75	8147	M. D. KANIS	~~Before~~ After Verification ~~and Review~~ before revisw EXAMINED for critical corrections
5/19/77	8152	M. Sager	~~Applied thru 8147~~ Consider chart 8151 fully applied ~~Before~~ After Verification ~~and Review~~ before review Revised sndgs.
2/28/79	8151	Rantor	~~Before~~ After Verification ~~and Review~~ Consider full as Cat. 1 survey
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.