# 8231

Diag. Cht. No. 8102-3.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. PA-1355 Office No. H-8231

**LOCALITY** 

State S. E. Alaska

2331

General locality Hetta Inlet

Locality Eek Point to Corbin Point

19/155

CHIEF OF PARTY

J. C. Partington

LIBRARY & ARCHIVES

DATE December 8, 1958

B-1870-1 (1)

Form 587 (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-8231
Field No. PA-1355

State S.E. Alaska	
General locality South East Alaska Hetta Inlet	
Locality Hetta Inlet Eek Point to Corbin Point	
Scale 1910,000 Date of survey 27 June - 27	July 1955
Instructions dated 7 January 1955	
Vessel USC&GS Ship PATTON	
Chief of party J. C. Partington	
Surveyed by W. C. Russell and F. J. Tucker	
Soundings taken by fathometer, graphic recorder, hand lead, wire	
Fathograms scaled by P. T. Pediangco and F. J. Tucker	
Fathograms checked by D. A. Doe, W. L. Piner and B. W. Hayes	
Protracted by C. R. Lehman	•
Soundings penciled by C. R. Lehman	
Soundings in fathoms KHEXX at MXXX MLLW based on a 19.	locity of
REMARKS:	

U. S. GOVERNMENT PRINTING OFFICE 698019

#### DESCRIPTIVE REPORT

#### TO ACCOMPANY

HYDROGRAPHIC SURVEYS NOS. H-8230 (PA-1255), H-8231 (PA-1355),

AND H-8232 (PA-1455)

HETTA INLET, S. E. ALASKA

SCALE 1:10,000 - DATE 1955

U. S. C. & G. S. S. PATTON, J. C. PARTINGTON, COMDG.

# # # # #

#### A. PROJECT:

This survey was accomplished under Revised Instructions - Project 1357, dated 7 January 1955, issued by The Director.

#### B. SURVEY LIMITS AND DATES:

The three boat sheets join in consecutive order and cover that part of Hetta Inlet north of Latitude 55° - 05' and west of Longitude 132° - 40.5', at junction with HODGSON 1954 Field Season (HO-1754, HO-2154, and HO-1854) to the head of Portage Bay. The western limit, at the southeast end of Sukkwan Strait, is bounded by a north-scuth line at Longitude 132° - 44.0'.

Field work on all three sheets was started on 18 May 1955 and completed on 20 August 1955

#### C. VESSEL AND EQUIPMENT:

All hydrography was done in 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 fms/sec., supplemented by hand lead soundings on shoals and rocks. Bottom samples were taken by wire with hand sounding machine mounted on the launch.

#### D. TIDE AND CURRENT STATIONS:

Three portable automatic tide gages were established within the limits of the survey. The tidal data from each tide station applied to an entire sheet. The number of the sheets and the location of the tide station to which it applies, are as follows:

#### D. TIDE AND CURRENT STATIONS - Contin.

Sheet No.	Location	Lati <b>t</b> ude	Longitude
H-8230 (PA-1255)	Mud Bay	55° - 04.951	132° - 37.90'
H-8231 (PA-1355)	Copper Warhor	55° - 12.65'	132° - 37.50'
H-8232 (PA-11:55)	Sulzer	55° - 17.12'	132° - 37.20'

Current station was observed on a 9-fathom shoal in Latitude 55° - 06.75', Longitude 132° - 38.40'.

#### E. SMOOTH SHEETS:

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

#### F. COMTROL STATIONS:

#### Sheet H-8230 (FA-1255):

The following triangulation stations were used for hydrographic control:

BRETT 1908-14, CEDAR2 1908, CLOSE 1908-14, EASY2 1908, FOG 1908, GRASS 1905, 1954, LIME2 1954, LOG 1908-14, POINT 1908, and ROUND 1908-14.

The following stations were first located as photo-hydrosignals and later located by triangulation and their positions computed:

ABE, BIB, ERA, ICE, OAT 1954, PLY.

During hydrography, when shifting fixes from one side to the other side of Hetta Inlet, slight jumps occurred in the lines and in the locations of reefs on the west side of inlet, indicating a possibility that signals BIB, CAT 195b, APE, and PLY were slightly out of relation with the other control. It is recommended that the computed positions of these signals be used for their location on the smooth hydrographic sheet.

Stations ICE and ERA were cut in by triangulation after their location was made by photogrammetric methods. Their positions vary slightly from the photo-hydro locations. It is recommended that the computed positions of these signals be used for their location on the smooth hydrographic sheet.

Hydro signals SAL, TRY, VAN, WAR, and YET in Mud Bay were first located from photographs. At the start of hydrography in Mud Bay, jumps in the lines were noted. The above stations were then located by sextant cuts, holding photo-hydro signals BIB and PIE fixed. Using the sextant locations of these stations, no jumps in the lines occurred. On these stations, the sextant locations are recommended to be used on the smooth hydrographic sheets.

During hydrography, certain photo-hydro signals were ascertained to be out in position, and were relocated by sextant cuts. The sextant location of the following stations was used:

BAG, FLY, LEO, LIP, PEN

Not Applicable

#### F. CONTROL STATIONS - Contin.

All other signals were located from manuscripts (photo-hydro). All signals are listed in alphabetical order, together with their physicable source, in the index sheet of Vol. 1.

#### Sheet H-8231 (PA-1355):

The following triangulation stations were used for hydrographic control:

AMO 1955, ANTON 1955, BAT 1955, BRETT 1908-14, COPPER<sub>2</sub> 1908, EASY<sub>2</sub> 1908, ERA 1955, EVA 1955, FIG 1955, GAS 1955, HETTA 1955, HEX 1955, ICE 1955, IDA 1955, MAR 1955, PARKA 1955, POD 1955, POINT 1908, SIGN 1955, SIMON 1955, TALON 1955, YAM 1955.

Stations ERA, ICE, YAM, and MAR, above, were located as photo-hydro signals and used for hydrography prior to being located by triangulation. Their triangulation positions should be used on the smooth hydrographic sneet.

All other signals were located from manuscripts (photo-hydro). All signals are listed in alphabetical order, together with their source, in the index sheet of Vol. 1.

## Sheet H-8232 (PA-1455):

All signals on this sheet were located from manuscripts (Photo-hydro stations) and are listed in alphabetical order in the index sheet of Vol. 1.

#### G. SHORELINE AND TOPOGRAPHY:

The shoreline and topography will be compiled from air photographs field inspected by this party during the current season. The delineation of the shoreline, ledges, and offlying rocks, as transferred to the boat sheets from the incomplete manuscripts, were checked during the hydrographic surveys. The shoreline which was dashed on the manuscripts appeared to be in good agreement to existing shoreline. No shoreline discrepancy was noted.

It was impractical to delineate the low water line in all cases due to steep and rocky shore. At the mouth of the larger creeks, there usually were tide flats which dropped off abruptly at the outer edge. The dotted line, taken from the manuscripts and shown on the boat sheets outside of high water line, delineates in general, the low water line. Sounding lines were run as close to the beach as circumstances would permit.

#### H. SOUNDINGS:

Soundings were taken with an 808 type recording fathometer No. 51, operated on the fathom scale. Hand lead soundings were made on shoals and isolated rocks. Wire soundings were taken when obtaining bottom samples.

#### H. SOUNDINGS - Contin.

The fathometer initial was set at zero on the fathogram and bar checks taken three times daily, at 2, 4, and 7 fathoms. The recorded index corrections together with the phase comparisons have been applied as one correction in the sounding volumes. A summary of the index and phase corrections for each sheet are given in Table 2, following this report.

The wire soundings, especially in deep water, did not in general, agree favorably with the corrected fathometer sounding, due principally to a soft mud bottom, and in some instances, due to currents, sloping the wire. As a result, the wire soundings were not considered for fathometer comparisons.

#### I. CONTROL OF HYDROGRAPHY:

The hydrography was controlled by three point sextant fixes on signals ashore, with the one exception in the narrow Gould Passage, H-8232 (PA-11:55) where hydrography was controlled by estimating distances off signals, when three point sextant fixes could not be obtained. No unusual or substandard methods were used.

#### J. ADEQUACY OF SURVEY:

This survey is complete and is adequate to supersede prior surveys for charting. Junctions with adjoining sheets are satisfactory and no holidays exist. Depth curves at the junctions between Sheets H-8230, H-8231, and H-8232 were checked by overlay tracing and found to be adequate. Junction of Sheet H-8230 with the northern limits of HODGSON 1954 season's work was found adequate.

#### K. CROSSLINES:

#### Sheet H-8230 (PA-1255):

Approximately 45 miles of crosslines or approximately 8% Applicable of all lines are crosslines.

## Sheet H-8231 (PA-1355):

Approximately 36 miles of crosslines or approximately 10% of all lines are crosslines.

## Sheet H-8232 (PA-1455):

Approximately 18 miles of crosslines, or approximately 9% (Not of all lines are crosslines.

All crossings appear to be satisfactory.

## L. COMPARISON WITH PRIOR SURVEYS:

## Sheet 4-8230 (PA-1255):

This survey covered parts of old surveys H-2787, a 1995, [Not 1:40,000 survey, H-3690, a 1914, 1:10,000, and H-2788, a 1905, 1:20,000 Applicable survey.

## COMPARISON WITH PRIOR SURVEYS - Contin.

Sheet H-8231 (PA-1355):

This survey covered parts of old survey 4-2788, 1905,

1:20,000.

This survey covered parts of old survey H-2788, 1905 Applicable Sheet H-8232 (PA-1455):

1:20,000.

The above old surveys were of a reconnaissance nature and all information from them was noted on the chart and items under this will be taken up under Paragraph M.

## M. COMPARISON WITH CHART:

The three surveys were compared with Chart 6147, Third Edition, Print date 12 may 1952. Locations are from the boat sheets and depths are from predicted tides. These may be revised slightly when smooth plot is made.

CHARTED LOCATION	CMAPT DEPTH	NEW LOCATION	Dedlai Nem	REMARKS
	Sheet H-	8230 (PA-1255)		
55 - 05.05 132 - 37.90	Sunken Rock	55 - 05.02 132 - 37.92	1.5 fms.	
55 - 09.17 132 - 43.12	2 rocks awash in this area	55 - 09.15 132 - 43.10	2 rock reefs uncovered 2 ft. at MLLW	
55 - 07.78 132 - 41.73	Islet	55 - 07.80 132 - 41.80	Rock reef un- covered 10 ft. at MLLW	North end of general foul area
55 - 06.90 132 - 41.36	Rock bares 2' at MLLW	55 <b>-</b> 06.88 132 <b>-</b> 41.35	Rock reef bare 8' at MLLW	S. end of foul area extending to shore
55 - 06.73 132 - 41.58	Rock wash	55 - 06.75 132 - 41.58	Rock reef bare	E. side of general foul area
55 <b>-</b> 06.50 132 <b>-</b> 42.50	Islet	55 <b>-</b> 06.53 132 <b>-</b> 42.48	Rock reef bare 5' at MLLW	cable.
55 <b>-</b> 06.52 132 <b>-</b> 42.88	Sunken rock	55 - 06.55 132 - 42.85	Rock reef bare 9' at MLLW	General foul
55 - 05.90 132 - 41.90	Islet	No trace found	•	Delete from \ chart
55 - 05.90 132 - 42.36	Islet	No trace found		Delete from chart
55 - 05.63 132 - 42.28	Islet	No trace found		Delete from chart

## M. COMPARISON WITH CMART - Contin.

CHARTED LOCATION	CHART DEPTH	NEW LOCATION	NEW DEPTH	REMARKS
55 - 05.35 132 - 41.40	Sheet H-8230 Islet	(PA-1255) Contin. No trace found		Delete from Not Applicable ledge in area covered at Hi
55 - 05.82 132 - 41.35	Three sunken rocks	55 - 05.73 132 - 41.33	One rock reef bare 8' at MILW	
TL	Sheet H-8231	(PA-1355) Company	1500 With ACIO	or issue of
Item 155 - 08.40 132 - 39.40	Two rocks awash		One rock, reef a at MLLW around	wash
2 55 - 09.78 132 - 35.02	Rock awash	55 - 09.75 <sup></sup> 132 - 35.07 <sup></sup>	Rock reef uncov	ers highest part shown with rock awash symbol.
3 55 - 10.18 132 - 34.90	Three sunken rocks	55 - 10.15 132 - 34.93	Rock ledges -	General foul area
$4_{132}^{55} - 10.1_{34.7}$	Three sunken rocks	55 - 10.15 132 - 34.6	Rock reef and ledge awash at MLIM	
55 - 12.75 132 - 37.80	Rock awash	55 - 12.72 132 - 37.80	Rock ledge awash at MLLW	<b>✓</b>
	Sheet H-	5232 (PA-1455)		
55 - 16.85 132 - 34.48	Sunken rock	No trace found		Delete from chart.Rocky beach in vicinity is bare at TLLW
55 - 16.81 132 - 34.80	Rock awash	*55 - 16.68 132 - 34.68	Rock ledge uncovers 4' at MLLW	Outside of general foul area
55 <b>-</b> 15.05 132 <b>-</b> 40.20	4 fms.	55 <b>-</b> 15.01 132 <b>-</b> 40.20	և <sup>Հ</sup> fms.	Investigation requested on preliminary review 1/26/53
55 - 14.63 132 - 40.32	7 fms.	55 - 14.55 132 - 40.32	l'fm.	Investigation requested on preliminary review 1/26/53
55 - 15.40 132 - 40.12	Islet	No trace found		Delete from chark

#### M. COMPARISON WITH CHAPT - Contin.

CHARTED LOCATION	CHART DEPTH	NEW LOCATION	N <b>EX</b> DEPTH	RENARKS
	Sheet	H-8232 (PA-1455) Co	ontin.	
55 - 17.26 132 - 36.33	Sunken rock	*55 - 17.14 132 - 36.31	Rock reef un- covered 2' at	E. edge of Gen- eral foul area
55 <b>-</b> 17.31 132 <b>-</b> 36.52	Rock awash	*55 - 17.22 132 - 36.53	Rock ledge uncovered 2' at MLLW 3	Putside edge of rock ledge to Not
55 - 17.28 132 - 37.01	Rock awash	*55 - 17.16 132 - 37.00	Mock reef awash at MLLM	General foul cable area
55 - 17.25 132 - 37.08	Sunken rock	*>> - 17.12 132 - 37.10	l <sup>5</sup> fm.	General foul area

\*The above new locations noted with asterisks, are slightly south of the charted locations due to a displacement of the topography between the chart and the boat sheet.

#### N. DANGERS AND SHUALS:

Listed below are dangers and shoals and critical soundings found in addition to those listed under Paragraph  $^{11}$   $^{11}$ .

LOCATION	DEPTH	REMARKS
	Sheet H-8230 (PA-1255)	
55 - 06.43 132 - 42.35	Bare 2.5 ft. at MLLW	Rock reef - 70 m
55 - 04.43 132 - 41.11	0.9 fms.	Rock - Is  Applicable
55 <b>-</b> 04.05 132 <b>-</b> 40.98	4½ fms	Shoal sounding 208 - 209 g
55 - 04.32 132 - 41.18	3½ fms.	Shoal sounding 3 - 4 s
/	Sheet H-8231 (PA-1355)	
55 - 10.17, 132 - 35.10	2 fns.	Shoal sounding 1
132 - 34.92 <sup>4</sup>	if ms.	Shoal sounding 2

#### N. DANGERS AND SHOALS - Contin.

LOCATION	Dalatri	REMARKS
	Sheet H-8232 (PA-1455)	
55 - 15.15 132 - 40.03	2 fms.	Shoal sounding 87 \$ f
55 - 16.68 132 - 37.78	2'fms.	Shoal sounding 30 k
55 <b>-</b> 16.25 132 <b>-</b> 37.80	Islet uncovered 2½ft. at MHW	Position of outside of ledge of Islet 84 g
55 - 17.15 132 - 36.65	Rock reef awash at	Position 3 h. West edge of foul area

In addition to the above, there are numerous small reefs and ledges which were located but are not listed on account of being close inshore.

The small passage in Latitude 55° - 16.6', Longitude 132° - 35.6' was too foul for launch hydrography. See fy 8232(1955)

#### O. COAST PILOT INFORMATION:

Additions and corrections to U. S. Coast Pilot - Southeast

Alaska - 1952:

Page 221, Line 27: Delete - "including Portage Bay at the 48232

head".

Page 221, Line 34: Add sentence - There is a sunken rock, covers by 1-1/2 fathom, 100 yards north of the north end of islet on south side of Mud Bay.

Page 221, Line 37: Delete - "either Mud Bay or". Page 221: Add - Y Bay (recommended geographic name), the small bay on the west side of Hetta Inlet 1.5 miles southwest of Round Point is seldom used for anchorage, and only by those fishermen with local knowledge. The bay is divided by a chain of islands. The north portion is narrow and dangers exist. By steering mid channel courses between the small rock island and the north shore, at the entrance to the bay, into the south portion of the bay, good anchorage in mud bottom for small craft can be obtained near the head and midway of the south portion of the bay, in 5 to 8 fathems.

Page 221, Line 41 through Line 43: Delete and add - Eek Inlet, on the west side of Hetta Inlet, at the northern side of Sukkwan Strait Entrance has been used by fishermen in small craft, with local knowledge. Mid channel courses should be steered to anchorage in 8 fathoms, midway in the inlet, about 0.3 mile northwest of the narrow entrance.

Page 222, Line 2: Add to the sentence - by fishermen who have local knowledge of the area. There are numerous reefs and shoal soundings in the cove.

Page 222, Line 5: Add - after "there is anchorage in" - 10 to 20 fathoms.

Page 222, Line 16: Add sentence: The west channel should be attempted only at high water, since there is a 1 fathom should in mid-channel at the south entrance.

#### O. COAST PILOT INFORMATION - Contin.

Page 222, Line 23: Add to end of sentence - and should not be attempted at any stage of the tide as a through passage into Portage Bay, because of tidal current and numerous rocks and dangers at the east end of the passage.

(Sulzer Passage)

Page 222, Line 25: Add sentence - It, should be navigated by only those who have thorough local knowledge.

The survey vessel anchored in Mud Bay, Copper Harbor, and off Sulzer, during the course of the survey.

During the period of this survey the weather was good to bad, with strong southerly breezes preventing field work for four days.

#### P. AIDS TO NAVIGATION:

No fixed or floating aids to navigation are within the limits of this survey.

#### Q. LANDMARKS FOR CHARTS:

None recommended.

## R. GEOGRAPHIC NAMES: See Notes by Mr. Heck 6/20/58 in DR H-8230 page 9.

On 22 July 1955, Mr. James Edenso, whose address is Hydaburg, Alaska, was interviewed, and was at that time employed as a watchman at Eek Inlet for the U. S. Fish and Wildlife Service. Mr. Edenso, a member of the Indian race, was born at Howkan village in Kaigani Strait, and is about 60 years old. He has fished most of his life in and around Cordova Bay. Mr. Edenso stated that the following geographic names are in local use:

- Blanket Island The island at the southeast entrance to Sukkwan Strait whose northeast point is charted as Round Point. No specific reason was given for this name.
- Y Bay omif The small bay on the west side of Hetta Inlet and just south of the above Blanket Island. The name Y Bay is used to denote this body of water because of a slide at the head of the bay shaped like the letter Y.
- On the east side of Hetta Inlet, about 2-1/2 miles north of Lime Point. The Coast Pilot mentions this name although the name is not charted. Local fishermen call this mud bay because of its usefulness as an anchorage.

The sites of Copper City, Coppermount, Corbin Mine, and Sulzer no longer exist. They are abandoned and in complete ruins. The aerial tramway and pipeline shown on the chart at Coppermount, together with the aerial tramway leading to Copper Mt., and the flume at Sulzer, are no longer in existence and should be removed from Chart No. 811.7.

G

#### S. SILTED AREAS:

What appeared to be silted areas on the fathograms was found to be soft green mud obtained by bottom samples. No significant silted areas were noted in this survey.

#### T. BY-PRODUCT INFORMATION:

No significant by-product information was noted in this area.

#### U. MARKED STATIONS:

The following stations were marked by standard topographic

disks:

Sheet H-8230 (PA-1255): Not applicable

None. FLUE 1954 was recovered, but was not used as a signal.

Sheet H-8231 (PA-1355):

Sheet H-8232 (PA-1455): Not applicable.
DIP, NOW

#### Z. TABULATION OF APPLICABLE DATA:

Photogrammetric Report and data, Project 6117, 1955 Season Triangulation Report, Project 1357, 1955 Season

#### Applicable data attached to this report:

Table of Statistics Fathometer Corrections Tidal Notes

Respectfully submitted by

with an c. Mindell

William C. Russell CDR USC&GS

Forwarded:

J. T. Jarman CDR USC&GS

Cmdg., USC&GSS PATTON

TABLE NO. 1
STATISTICS FOR HYDROGRAPHIC SURVEY
SHEET H-8230 (PA=1255)

•				•		H. L. &	
VOL.	DAY	DATE	VESSEL	Pos.	STAT.MI.	WIRE SOUNDINGS	_
1	a	18 May	Launch 87	82	8.8	10	
1 & 2	b	26 n	n	149	26.8		
2 & 3	c	27 <b>n</b>	11	198	48.5		
3 & 4	d	28 n	Ħ	206	<b>Щ.5</b>		
4 & 5	е	29 11	Ħ	168	33.1		
	${f f}$	30 "	17	24		24	
5 5 & 6	g	31 "	II	93	19.7		
6 & 7	h	2 June	11	176	29.8	5	
7		8 H	17	141	21.5	1	
7 & 8	j k	. 9 m	tİ	170	29•3	3	
8 & 9	1	10 "	11	184	24.6	1	
9 & 10	m	11 "	11	162	23•7	9	
10 & 11	n	12 "	Iţ.	205	31.2	-	
11 & 12	р	13 "	ń	147	22.6	14	
12 & 13	q	14 "	11	2015	<b>33 • 3</b>	. 2	
13 & 14	r	16 "	17	87	15.9 .•	<del>-</del>	
14	s	21 "	n	183	30.1	14	
1) <sub>4</sub> 15	t	22 11	Ħ	146	16.2	2 1	
15 & 16	u	23 "	n .	180	27.6	1	
16 & 17	v	24 "	n n	201	<b>33.</b> 5	1	
17	W	26 n	11	27	-	27	
17	x	28 "	tt	10	0.3	<del>7</del>	
		TO	TALS:	3,165	521.0	101	

Area = 18.1 sq. stat. miles

		•	SHEET H-8231	(PA-1355)		
1 & 2	а	27 June	Launch 87	202	39•7	1
2	Ъ	28 <sup>11</sup>	11	88	17.7	_
2 & 3	C	6 July	11	154	30.5	1
3 & 4	đ	11 "	Ħ	173	32.2	2
4 & 5	е	12 "	n	208	33.3	2
5 & 6	f	<b>1</b> 3 "	11	<b>1</b> 95	27.8	2
6 & 7	g	114 "	11	188	25.0	5
7 & 8	h	15 "	11	196	29.4	1
8 & 9	j	16 "	11	186	33.0	2
9 & 10	k	18 #	17	<b>22</b> 0	31.0	_
11	1	19 "	10	191	28.9	4
12	m	20 "	Ħ	64	5•5	30
12	n	21 "	11	<u> 25</u>		211
		Tota	ls:	2090	334.0	74

Area = 13.9 sq. stat. miles

#### TABLE NO. 2

#### FATHOMETER CORRECTIONS - (PHASE AND INDEX)

#### 808 FATHOMETER NO. 51

Same corrections apply to Sheets H-8230 (PA-1255), H-8231 (PA-1355) and H-8232 (PA-1455) and are as follows:

Average of Index Corrections on A scale = +0.4 fathon

Average of Phase Corrections on A - B scale +1.0 fathom

Average of Phase Corrections on B - C scale 0.0 fathom

Average of Phase Corrections on C - D scale -0.4 fathom

#### Index and Phase Corrections applied to the soundings:

Index	Cor	rection	n to A scale	8 =		_		+0.4	fathom
Index	and	Phase	Correction	to	Д	scale	=	+1.4	fathoms
Index	and	Phase	Correction	to	С	scale	=	+1.4	fathoms
Index	and	Phase	Correction	to	D	scale	-	+1.0	fathom

#### TIDE NOTES FOR HYDROGRAPHIC SURVEYS

#### SHERT H-8230 (PA-1255)

Tide Station located in Mid Bay on southwest side of small island, Latitude 55° - 04.95', Longitude 132° - 37.90'

MLLW on staff = 3.9 feet

## SHEET H-8231 (PA-1355)

Tide Station - Hydrographic Signal EBB on south side of Copper Harbor, Latitude 55° - 12.65', Longitude 132° - 37.50'.

MLLW on staff = 3.4 feet

#### SHEET H-8232 (PA-1455)

Tide station located at Sulzer, Latitude 55° - 17.12', Longitude 132° - 37.20'

MLLW on staff = 5.8 feet

## LIST OF SIGNALS - SHEET H-8231 (PA-1355)

SIGNAL	SOURCE	SIGNAL	SOUPCE
ALP	Photo-hydro	LAY	Photo-hydro
AMO 1955	Triangulation	LUG	11
ANTON 1955	H	200	
ARM	Photo-hydro	MAL	18
ASK	19	MAR 1955	Triangulation
•••		MOE	Photo-hydro
BAG	98		
BAT 1955	Triangulation	NAT	n
BOB	Photo-hydro	NIP	11
BOX	n		
BRETT 1908-14	Triangulation	OAK	11
J. 200 0,000 114		OLD	19
CAB	Photo-hydro		
COPPER <sub>2</sub> 1908	Triangulation	PAD	H
COW	Photo-hydro	PARKA 1955	Triangulation
CUT	11	POD 1955	ii
		POINT 1908	19
DAY	19		
DON	<b>F</b>	REV	Photo-hydro
DOT	n ,	•	
2~ ·		SIGN 1955	Triangulation
EASY <sub>2</sub> 1908	Triangula tion	SIMON 1955	11
EAT	Photo-hydro	SOL	Photo-hydro
EBB	19	502	
END	13	TALON 1955	Triangulation
ERA 1955	Triangulation	TUB	Photo-hydro
EVA 1955	19	105	
DVR 2///		USE	11
FAT	Photo-hydro	Control Car	
FIG 1955	Triangulation	WAG	n
FLY	Photo-hydro	WED	Ħ
FUN	11	***************************************	
		YAN 1955	Triangulation
GAB	11	YUM	Photo-hydro
GAG	n	2 044	
GAS 1955	Triangulation	ZOA	II .
GUS	Photo-hydro	200	n
000	1.1000 1.000		
HAT	n		
HETTA 1955	Triangulation		
HEX 1955	n		
HOD	Photo-hydro		
HOW	1)		
ICE 1955	Triangulation		
IDA 1955	n		
IRK	Photo-hydro		
	<del></del>		
<b>J</b> OB	19		
JUG			
3.00			
KED	n		
KEY	10		

#### PROCESSING OFFICE NOTES H-8231

#### SMOOTH SHEET

The smooth sheet was hand constructed and checked by the Seattle Hydrographic Processing Unit using standard methods.

#### SHORELINE AND TOPOGRAPHY

The shoreline and offshore detail was transfered from T-11498, T-11499, T-11501 and T-11502.

#### ADEQUACY OF SURVEY

The survey is complete and adequate for charting. The junctions with H-8230 and H-8232 have been compared and except for an area at the junction with H-8230 in the vicinity of Lat. 55° 07!75 N, Long. 132° 38!75 W., where there are some differences of 2 to 4 fathoms in deep water, the junctions are satisfactory and the depth curves can be adequately drawn.

The Junction is satisfactory and the depth curves can be adequately drawn.

As shown on H-231 1.53

#### COMPARISON WITH CHART

The survey was compared with Chart 8147, 4th Ed. Revised 10/7/57, which was made from the boat sheet. Except for two charted 49 fathom sections soundings, which are noted on the smooth sheet, no discrepancies were PEA. found.

#### DANGERS AND SHOALS

Covered in the field report with smooth sheet values shown as corrections in ink.

Respectfully submitted

William M. Man WILLIAM M. MARTIN

Supervisory Cartographer

APPROVED AND FORWARDED

Captain, C&GS

Seattle DistrictOfficer

#### GEOGRAPHIC NAMES PENCILED ON H-8231

COPPER HARBOR

CORDOVA BAY

EEK INLET

EEK POINT

HETTA

HETTA INLET

HETTA POINT

REYNOLDS CR.

SIMMONS CR

WRIGHT CR.

Form 712 (11-30-55)

#### TIDE NOTE FOR HYDROGRAPHIC SHEET

Chart Division: R. H. Carstens

25 February 1959

Plane of reference approved in 12 volumes of sounding records for

HYDROGRAPHIC SHEET 8231

Locality Hetta Inlet, Alaska

Chief of Party: J. C. Partington in 1955

Plane of reference is mean lower low water, reading

3.4 ft. on tide staff at Copper Harbor

12.7 ft. below B.M.1 (1955)

Height of mean high water above plane of reference is 11.9 feet.

Condition of records satisfactory except as noted below:

Chief, Tides Branch

Dolland

#### DIVISION OF CHARTS

## REVIEW SECTION -- NAUTICAL CHART BRANCH

#### REVIEW OF HYDROGRAPHIC SURVEY

#### REGISTRY NO. H-8231

FIELD NO. PA-1355

S. E. Alaska, Hetta Inlet, Eek Point to Corbin Point

SURVEYED: June-July 1955

SCALE: 1:10,000

#### PROJECT NO. 1357

SOUNDINGS: 808 Depth Recorder

Hand Lead

Wire (Bottom Samples)

CONTROL: Sextant fixes

on shore signals

Chief of Party ----- J. C. Partington
Surveyed by ----- W. C. Russell and F. J. Tucker
Protracted by ----- C. R. Lehman
Soundings plotted by ----- C. R. Lehman
Verified and inked by ---- J. C. Chambers
Reviewed by ----- L. S. Straw
Inspected by ----- R. H. Carstens

#### 1. Shoreline and Control

The shoreline originates with unreviewed air-photographic surveys T-9903 (1953-55), T-11498 (1954-56), T-11499 (1954-56), T-11501 (1954-56), T-11502 (1953-55), and T-9903 (1953-55).

The source of the control is given in the Descriptive Report.

## 2. Sounding Line Crossings

The depths at sounding line crossings are in adequate agreement.

## 3. Depth Curves and Bottom Configuration

The usual depth curves are adequately delineated, except close inshore where the steep shore and rock bottom prevented development of the low-water line as well as portions of the 1, 2, 3, and 5 fathom curves.

The bottom of the deeper portion of Hetta Inlet is even and generally slopes uniformly toward the center from the 50 fathom curve to depths varying from 90 to 140 fathoms, whereas from the 40 fathom curves to the steep - to shoreline the bottom is irregular.

#### 4. Junctions with Contemporary Surveys

Adequate junctions were effected with H-8232 (1955) on the north at Corbin Point and with H-8230 (1955) on the south at Eek Point.

#### 5. Comparison with Prior Surveys

## H-2788 (1905), 1:20,000

Survey H-2788 (1905) which contains both topography and hydrography is the only prior survey made by this Eureau in the area covered by the present work. The development on a scale of 1:20,000 is so sparse that the 1905 work is considered little more than a reconnaissance survey. Differences in depths generally do not exceed 1 fathom.

The present survey which covers the area in greater detail is adequate to entirely supersede the prior survey within the common area.

## 6. Comparison with Preliminary Chart 8147 (Latest print date 10/7/57)

#### A. Hydrography

The charted information originates with Bp. 52787, which is a reproduction of the boat sheet of the present survey. In several instances, there are differences in depths of 1 fathom between the charted soundings and the present survey depths. The present survey supersedes the charted information.

#### R. Aids to Navigation

There are no official fixed or floating aids to navigation within the limits of the present survey.

#### 7. Condition of Survey

- a. The sounding records and Descriptive Report are complete and comprehensive.
- b. The smooth plotting was accurately done.

## 8. Compliance with Project Instructions

The survey adequately complies with the Project Instructions.

#### H=8231 - 3

#### 9. Additional Field Work Recommended

This is an excellent basic survey and no additional field work is necessary.

Examined and Approved:

May Skiels
Chief, Nautical Chart Branch
Chief, Division of

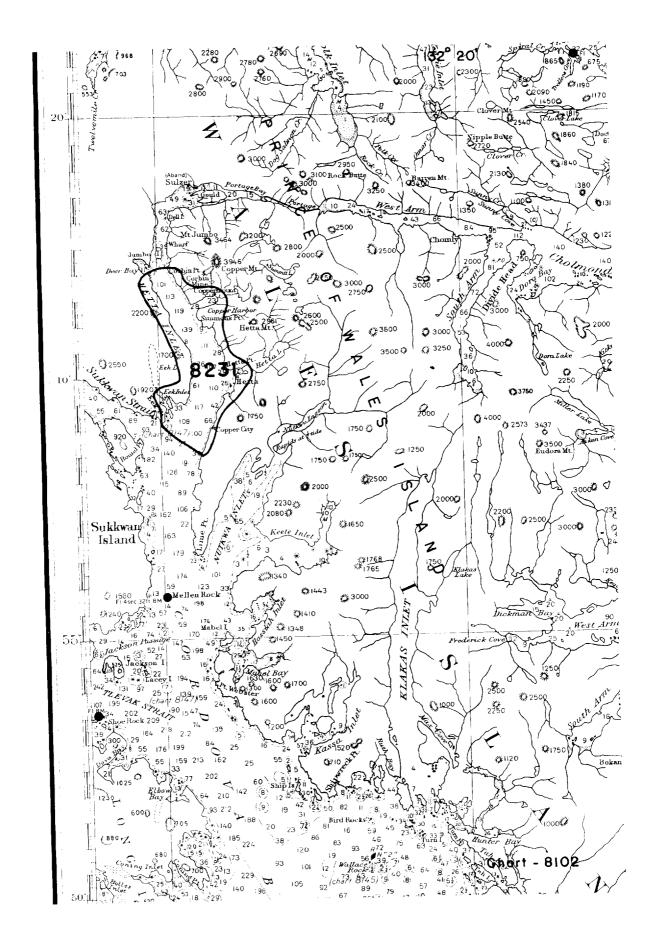
Chief, Hydrography Branch

	GEOGRAPHIC NAMES Survey No. H-8231	/	2.	or Contraction of the Contractio	D Magaran	in ordinal	Strock Hoos	O Guide of 2	M. M	J.S. John	\$ /
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	Jumbo Island			(tit]	e only	r: jusi	off	heet)			2
	Cordova Bay										3
	Eek Point										4
	Eek Inlet										5
	Hetta Inlet										6
	Hetta (Abandoned)										7
	Hetta Point										8
•	Wright Creek										9
	Simmons Point										10
3	Copper Harbor			(tid	e stat	ion)					11
	Reynolds Creek										12
-	Hetta Cove										13
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## Hydrographic Surveys (Chart Division)

## HYDROGRAPHIC SURVEY NO. ..8231...

Records accompanying survey:		
Boat sheets; sounding vols; w	ire drag	g vols;
bomb vols; graphic recorder rolls	3-Envelo	opes
special reports, etc1-Smooth sheet and	1-Descr	iptive report.
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The following statistics will be submitted wirepher's report on the sheet:	th the d	cartog-
Number of positions on sheet		2090
Number of positions checked		.143
Number of positions revised		
Number of soundings revised (refers to depth only)		
Number of soundings erroneously spaced		
Number of signals erroneously plotted or transferred		
Topographic details	Time	2
Junctions	Time	4
Verification of soundings from graphic record	Time	2
Verification by A. S. S. Sambus Total time		
Reviewed by Time	22 /	Date 3/1/60



## NAUTICAL CHARTS BRANCH

**SURVEY NO. H-8231** 

Revnewed 3-1-60

## Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
5-22-59	8102	m. Rogers	Before Werification and Review Beauting added,
	· W Tre	0	Zamolinguard - Not critical but much smales Charcherto
10-28-60	8152	R. E. Elkins	Before After Verification and Review Fully applied without going thru the large scale chart 8147 (Prelim).
			8147 (Prelim).
1/9/61	8/02	EEThomes	After Verification and Review
′ /			Three 8152 above. 15.3.61
14 Mar 61	8002	M Frayous e	Three 8152 above. 5.3.61  Before After Verification and Review Remail/00 for curu  We till got the above as fully apply
	_	0 0	
7/16/62		HiRadde-	-Before After Verification and Review Part App'd
6-14-63	_	H. Kadde	Fully App'd
8-10-63	8147	h.j. keeler	Before After Verification and Review April thru cht. 8:51
		- //	lint son only for T.O. punt RKO
2/6/25	8147	M.D. KANIS	Before After Verification and Review, INSpection +
<u></u>			signature - re-examined for critical
			Before After Verification and Review
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			Before After Verification and Review
			Before After Verification and Review
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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.