8131

Diag. Cht. No. 8102-3.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. HO-1754 Office No. H-8131

LOCALITY

State S. E. Alaska

General locality Cordova Bay

Locality S. E. Sukkwan Island ...

194 54

CHIEF OF PARTY

J. Bowie

LIBRARY & ARCHIVES

DATE September 18, 1957.

-1870-1 (1)

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-8131 Field No. H0-1754

State S. E. Alaska					
General locality Cordova Bay					
General locality Cordova Bay SE Sukkwan Island Locality West shore Gardova Bay, Jackson Island					
Scale 1:10,000 Date of survey 8-19 August 1954					
Instructions dated 17 March 1953 & 8 January 1954					
Vessel Ship HODGSON					
Chief of party John Bowie					
Surveyed by J. Bowie, E. F. Hicks, Jr., J. Dermody					
Soundings taken by fathometer, graphic recorder, hand lead, wire 808 fathometer					
Fathograms scaled by H. Hildahl, R. Owens					
Fathograms checked by Ship personnel					
Protracted by C. R. Lehman (5,PC)					
Soundings penciled by C. R. Lehman					
Soundings in fathoms was at min MLLW and a le base on a velocity					
REMARKS: Of Sound of 800 fms. sec					

U. S. GOVERNMENT PRINTING OFFICE 777032

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SURVEY NO. H-8131 (FIELD NO. HO-1754)

SCALE 1:10,000 SHIP HODGSON J. BOWIE, COMDG.

SURVEYED BY J. BOWIE, E. F. HICKS, JR., J. DERMODY

A. PROJECT

This survey was executed as part of Project CS-357 under instructions 22/MEK, S-2-HO dated 17 March 1953 and Supplemental Instructions 22/MEK, S-2-HO dated 8 January 1954.

B. SURVEY LIMITS AND DATES

This survey covers that part of Cordova Bay north of Lat. 54° 58:25 and west of Long. 132° 40:5 to Lat. 55° 01:0 thence northward along Long. 132° 39:5 to Lat. 55° 03:5.

Field work on this survey began on 8 August 1954 and was completed 19 August 1954.

(1954) This survey is joined on the south and east by contemporary survey H-8134 (Field No. HO-2154). It is joined on the southwest by H-3416, Scale 1/20,000 surveyed in 1913.

C. VESSELS AND EQUIPMENT

This survey was executed with standard 30 foot hydrographic launch No. 98 and plane personnel boat, launch No. 134. Both launches had a turning radius of approximately 25 meters at standard speed.

808 Fathometers No. 62S and 150 SPX with reeds calibrated for a velocity of 800 fathoms per second were used for hydrography.

D. TIDE AND CURRENT STATIONS

A portable automatic tide gage was maintained in Mabel Bay, Lat. 54° 59' 58.8", Long. 132° 35' 30.6% (outside the limits of this sheet) during the period of this survey and was used without time or height correction for reduction of all soundings.

No current stations were occupied 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 their report which will be an addenda to this report.

F. CONTROL STATIONS

Triangulation stations LIME 2, 1954, MELLEN ROCK LIGHT 1954, GRASS 1905-18, GREEN 1907-18, JACK 1907 and HEN 1907 supplemented by photo hydro

0+1948-54,

signals from manuscripts T-11296 and T-11293, were used to control this survey.

Where signals were needed and there was no identifiable picture point nearby the stations were located by sextant fixes at the stations using signals mentioned in preceding paragraph.

A list of all signals and method of location is in Vol. No. 1 of the sounding record.

G. SHORELINE AND TOPOGRAPHY

All shoreline from manuscripts T-11296 and T-11293. PP-/ Review

No shoreline discrepancies were noted.

All shoreline except the general foul area vicinity Lat. 55° Ol', Long. 132° 42' was examined during minus tides and visible rocks located.

On account of steep to, rocky coast it was impractical to delineate / the low water line in all cases.

H. SOUNDINGS

All soundings except isolated hand lead soundings on shoals and rocks were made with 808 fathometers No. 62S and 150 SPX.

The fathometer initial was set so that with the bar at two fathoms the fathometer would read two fathoms eliminating any index correction. Since the fathometers were calibrated for a velocity of 800 fathoms per second no velocity correction was applied.

Bar checks were made three times daily at two fathoms only in accordance with letter 22/MEK, S-1-HO dated 15 June 1953 to Commanding Officer, Ship HODGSON.

Phase comparisons were made and corrections applied. Details of the phase comparisons and corrections are given in Table 2 following this report.

Bottom samples were taken at various intervals throughout the area of this sheet.

I. CONTROL OF HYDROGRAPHY

All hydrography was controlled by visual sextant angles on shore ob-

J. ADEQUACY OF SURVEY

This survey is complete and adequate for charting purposes. Junction with the adjoining sheet is satisfactory and no holidays exist. Depth curves can be adequately drawn at the junctions. #4	 Review

K. CROSSLINES

There are approximately 24 miles of crosslines or approximately 8% of all lines are crosslines. All crossings appear to be satisfactory.

L. COMPARISON WITH PRIOR SURVEYS

TP 5 Re-

This survey covered parts of old survey H-2787 a 1905, 1/40,000 sur- view vey and H-3446, a 1913, 1/20,000 survey. Both of these 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

*This survey was compared with Chart 8147, Third Edition, Print date 12 May 1952. Locations are from boat sheet and depths are from predicted tides. These may be revised slightly when smooth plot is made.

Sec Review 17-6

	Jee Kerre	7F 77 - P			
	CHARTED	CHART	NEW	NEW	DEMARKS
	LOCATIONS	DEPTH	LOCATION	DEPTH	Vol. I pg.64 pos 1
~/	54-58 • 43 132-43 • 32	Rock Awash	54-58·40 9 132-43·35 4	Rock uncovered	Shown on chart 8147, 4th Ed. 5-28-56 as a sunken rock.
Z	54-58 •47 132 • 43 •23	la fms.	54-58.41 4 132-43.25 44	Rock AWOSO	Vol. I pg 64 pos. 2 Also shown on 8/47 as a sunken rock.
#3	54 - 58 •58 132-42 • 14	7 rocks (a Awash in this area	132-42-2 3	Rock uncovered	There are only three/on rocks in this area which are listed
. 44	* These 1 revised (10-7-57)	features (1 on Chart 8147	0)54-58.55 44 132-42.14 4/	Rock uncovered	under sublocations a, b, c. These rocks are mentioned in
# 5	. .	(0)54°58.49 <i>-4</i> 132-42.10 ₄₄	Rock uncovered 108 MLLW.	Item 1 of review X dated 1/26/53.
(*6)	54-58.62 132-41.24	Two sunken rocks.	No trace found SEO O Bob		Delete from chart. Survey shows no indication, area was examined at minus tide.
4 ~	54 - 58 . 91	Rock awash.	54-58.86 4 132-41.06 7	Rock awash MLLM	seems likely that only one rock exists in this area. Suggest deletion of old chaffed location.
#8	54-58.94 132-41.40	Rock awash.	54-58.89 4/ 132-41.22°4	Rook overed	/
(49	54-58 •97 132-41 •50	Rock awash.	54-58.88 4 132-41.48 41	Rook uncovered 9 ft. MLLW.	
-4/0	54-58.98 132-41.52	Rock awash	54-58.93 41 132-41.49	7 Rock uncovered	1
#11	54-59.43 132-41.96	$6\frac{1}{4}$ fms.	54-59·40 4/ 132-41·97 <i>4</i> /	377ms. 21	Shoal sounding on large rock.
4/2	55-0059 132-42.86	rock awash	54-00.58 132-42.88	Rock uncovered	

CHARTED	CHART	NEW 0	★ NEW	
LOCATIONS	DEPTH	LOCATION	# DEPTH	REMARKS
55-00.71 132-42.92		132-42.89	2 ft. MLLW 199	Two rocks in this area.
کي ر ت		,× F	Rock uncovered , ft. MLLW.	
55-00.75 +1/5-132-42.30		132-42.25	Rock uncovered	
#/6	(ъ) 55-00 39 132-42 г.	Rock awash MLLW.	
55-01.00 132-42.0	6 sunken rocks.	55-01.00 132-42.25	Rocks awash to uncovered % ft. / MILLW.	General foul area.
55-01.20 132-41.18	Two sunken rocks.	No trace fo	und• /	Delete from chart. Numerous rocks awash 200 meters SW.
55-03.16 ±1/4132-40.80	Sunken rock	55-03.17 ⁴ 132-40.82 ⁴	Rook uncovered / 8ff. MLLW. /</td <td>O Sipy</td>	O Sipy

N. DANGERS AND SHOALS

Listed below are dangers, shoals and critical soundings found in addition to those listed under paragraph M.

	LOCATION	DEPTH	REMARKS
#20	55-02.158 # 132-40.7 52	43 fms • 4	Shoal sounding - 107-108c
471	55-01.98 / 44 132-40.71 41	7	Shoal sounding 121-122d (brown)
- 4 22	55-00.35 # / 132-40.06 41	2 ⁶ fms. √	Shoal sounding. Pos. 45-46e. This shoal also developed on HO-2154. Shoal sndg in this area on H-8134
ъ2.	55-00.43 132-42.976	13 fms.	Shoal sounding Pos. 74-75d Handlead sndg on this Shoal is 22 fms. Pos 79e (purple)

In addition to the above there were numerous inshore rocks which were located but are not listed on account of being close inshore.

The small passages at Lat. 55° 00185, Long. 132° 41190; Lat. 55° 01135, Long. 132° 42100; Lat. 55° 01110, Long. 132° 4210 and Lat. 55° 00160, Long. 132° 4210 were too foul for launch hydrography.

O.Y COAST PILOT INFORMATION

Good anchorage may be found in twelve to fifteen fathoms east of Jackson / Island, Lat. 55° 20130, Long. 132° 42150. The survey vessel anchored at this location during the course of the survey.

During the period of this survey the weather was good.

No current observations were made within the limits of this survey.

P. AIDS TO NAVIGATION

One fixed aid to navigation, Mellen Rock Light, (Hydro signal LEM) maintained by U. S. Coast Guard is within the limits of this survey.

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

Q. LANDMARKS FOR CHARTS

None recommended.

R. GEOGRAPHIC NAMES

See Geographic Names Report submitted by this party.

It is recommended that the group of 3 rocks, Lat. 54° 5815, Long. 132° 4212 be named THE TRIPLETS. (Sec Geographic Names)

S. SILTED AREAS

No significant silted areas were noted.

T. MARKED STATIONS

The following stations other then triangulation stations were marked by standard topographic disks TICK and GOLD.

Z. TABULATION OF APPLICABLE DATA

Tidal Data Air Photographs

E. F. Hicks, Jr. CDR, USC&GS

Respectfully submitted,

Approved and forwarded:

J. Bowie, CDR, USC&GS Comdg., Ship HODGSON

STATISTICS

for
HYDROGRAPHIC SURVEY H-8131, FIELD NO. HO-1754

VOL.	DAY	DATE	VESSEL	POS •	STAT. MI.	H. L.
1	a	9 Aug.	Launch 98	120	30•2	
1	ъ	10 Aug.	I) 11	118	28.7	
2	c	11 Aug.	11 11	230	40.1	
2	d	12 Aug.	11 11	118	24.9	
3	d	12 Aug.	tt tt	6	1.4	
1 2 2 3 3	9	19 Aug.	11 17	226	42.6	3
•	Tot	al Launch	98	818	167.9	3
4	a	8 Aug.	Launch 134	84	14.6	
	b	9 Aug.	н п	146	26.9	
L	Ġ	10 Aug.	11 11	89	17.1	
5	c	10 Aug.	11 11	92	19.6	
4455566	ď	11 Aug.	11 11	179	24.5	
5	е	12 Aug.	11 11	100	12.5	
6	е	12 Aug.	11 11	68	7 .7	
6	f	19 Aug.	11 11	164	17.1	
	Tot	al Launch	134	922	140.0	
1	a.	9 Aug.	dinghy	3		3
ì	ъ	10 Aug.	H_ A	21 21		3 4 21
	C	11 Aug.	Ħ	21		21
1 1	d	12 Aug.	II	9		9
	Tot	al dinghy		- 37		37
1	a.	12 Aug.	skiff	411		411
1	a	19 Aug.	Launch 169	7		7
	To	tal for s		1791	307.9	5k

Area: 8.2 sq. stat. miles

TABLE 2

FATHOMETER CORRECTIONS - (PHASE)

808 FATHOMETER NO. 62S

	Fe	et		Fat	homs		Fath	om s
Mean	中下下下下下下下下下下下下下下下下下下下下下下下下下下下下下下下下下下下下	B 14.5 14.5 14.0 14.0 14.0 14.0 14.0 14.1	Mean	A 39.5 39.0 38.0 37.3 36.6 35.0 37.3	B 39.1 39.0 38.3 37.7 36.8 36.0 35.1 37.4	Mean	A 37.3 38.2 39.0 39.9 39.9 37.0 38.3	B 37.0 37.8 38.5 39.7 39.7 39.1 37.0 37.0
	В	Fathom s C			Fε C	athoms D		

	Fat	thom s		Fathom		
	В	C		C	D	
	78.9	77.2		111.0	109.5	
	79.0	77.2		111.0	109.5	
	79.0	77.2		110.0	108.5	
	79.1	77•3		109.0	107.0	
	79.2	77•4		107.5	106.0	
	79.1	77.2		107.0	105.0	
	79.0	77.1		107.0	105.0	
	78 .9	77•0		107.0	105.0	
	78 .9	77.0		107.0	106.0	
	<u> 78.6</u>	<u> 76.9</u>		107.0	105.0	
Me a n	79.0	77.2	$^{ ext{Mean}}$	108.4	106.6	

A−B	-0.1
Mean	0.0 +0.1
B-C	+1.8
C-D	+1.8

Correction	A	Scale	0.0
	В	Scale	+0.1
	C	Scale	+1.9
	D	Scale	+3.7

TABLE 3

808 FATHOMETER 150 SPX

7 June 1954 - j day Sheet 1354

PHASE COMPARISON

A B 12.3 14.3 14.6 143.2 140.4 142.0 140.0 141.3 39.9 141.2 140.0 141.0 140.0 141.0 140.1 141.2 140.0 141.3 140.1 141.3 140.1 141.5 140.0 141.8 Mean	B 74.4 73.6 73.5 73.0 72.8 73.0 72.0 71.9 71.7 25.9	c 74.8 74.4 74.0 73.5 73.5 72.5 72.1 72.3 30.4 73.4 Mean		
A-B = -1.3 A = 0.0 B corrn =-1.3 C corrn =-1.8 D corrn =-1.1	B-C = -0)•5 t Sheet 18	154	
	c 122.0 121.6 121.8 121.8 121.5 122.0 122.0 122.0 121.5	D 122.0 121.0 121.0 121.0 121.0 121.0 121.0 121.0 121.2 121.2 121.5 120.0 10.9 121.1	C-D	0.7

TIDE NOTE

to accompany

HYDROGRAPHIC SURVEY H-8131, FIELD NO. HO-1754

TIDE STATION

MABEL BAY

Lat. 54° 59' 58.8" (off sheet)
Long.132° 35' 30.6"

MLLW on staff = 4.9 feet

PROCESSING OFFICE NOTES H-8131 (HO-1754)

SMOOTH SHEET

The smooth sheet was hand constructed in the Seattle Hydrographic Processing Unit, using standard methods of construction and transfer.

CONTROL STATIONS

A three point problem was solved for signal "TUT" and the position was computed.

Photo topo signal "VET" was moved approximately 10 meters to the SSW to agree with check angles on various fixes in the area. This move improved the crossings on lines using this signal.

SHORELINE AND TOPOGRAPHY

The shoreline and offshore detail was transferred from T-11293 and T-11296 and checked according to standard practice.

ADEQUACY OF SURVEY

The survey is complete and adequate for charting. The junction with PHRCVIEW H-8134 has not been compared except to check for holidays, which do not exist. The comparison will be made on H-8134 when that sheet is complete.

COMPARISON WITH CHART

1 PGREVIEW Comparison was made with chart 8147, 4th Ed. dated 5-28-56. Changes to smooth sheet values were made in ink in the field report under this heading.

DANGERS AND SHOALS

Inked corrections made in field report under this heading.

Shapes for two high water rocks are shown on the smooth sheet in pencil, one a (12) rock at Lat. 550 Ol. 12, Long. 1320 41. 35 (pos 12c green), the other a (15) rock at Lat. 550 01.1324 Long. 1320 41.140-4 (pos 6c green) signal "VEE" is on the latter rock.

Respectfully submitted,

WILLIAM M. MARTIN

Supervisory Cartographer

APPROVED & FORWARDED:

CURTIS LE FEVER, Capt., C&GS

Seattle District Officer

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
PART AND 11000
F.A. ADMIL 1000

POSITION COMPUTATION, THIRD-ORDER TRIANGULATION

11-0362	-40 35,764		5	630,0 (73,0)	-00 62,673 ×		
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	1	h* 3.0979	287, 23	2.458 223	,Δα	35922	F.
$131 \sin \frac{1}{2}(\phi + \phi') 9.913$	2d term + 0,	9.11786		Sin 1 (+++) 9.913 660	2d term + . 40 Sin}(+	9.14680	
		C 1,557 83	350.400	2.544 563	Δλ	1.558 26	C
	1	Sin3 a 9. 98 5 90	,,	0,241 555	Sec ø'	9.9600	$\sin^2 \alpha$
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25	1st term 35, 395	h 1.548 948	8	9980 007	1st term 62, 538 Sin a	1.796110	ъ
	***	B 8,509 710		3.814 263	8	8.509 708	В
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		3, 787 066	20.6	*(ゆ+ゆ) とら 01	₩ (3.814 263	Ca
ida •	Values in seconds	Logarithms	1		Values in seconds	Logarithms	
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				0		Ea. Арги, 1929	

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY FORM 28 Ed. Jan., 1929

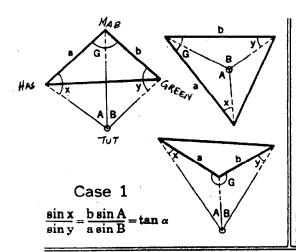
2-3 1

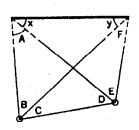
3 1-3 1-2

COMPUTATION OF TRIANGLES

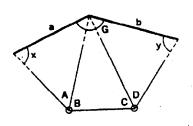
11--9121 SPHER'L ANGLE SPHER'L BICESS PLANE ANGLE AND DISTANCE OBSERVED ANGLE CORR'N NO. LOGARITHM STATION 2-3 3.482 196 1 27 33 00 0. 334 867 TUT 2 68 56 56 9,970,003 HAS 3 MAB (83 30 04) 9.997 200 1-3 3.787066 1-2 3,814 263 180 00 00 2-3 3.796 610 1 0.018 002 TuT 73 37 -9.775 155 MAB (36 34 30) 9.972 454 GREEN 69 48 30 1-3 3. 589 767 3888:4 3, 787 066 1-2 180 00 00 Do not write in this 2-3 1 3 1-3 1-2

SPECIAL ANGLE COMPUTATION





Case 2 sin x sin A sin C sin E sin y sin B sin D sin F



Case 3 sin x _ b sin A sin C sin y a sin B sin D

 $\log a = 3.482.94$ $\log \sin B = 9.9.81.9.9.8$ $\log \sin D =$ log sin F =

$$\frac{1}{2} (x+y) = \begin{cases} \text{Case 1: } 180^{\circ} - \frac{1}{2} (A+B+G) = & 6.9^{\circ} & 2.2 - \frac{1}{3} \\ \text{Case 2: } & \frac{1}{2} (C+D) = \\ \text{Case 3: } 270^{\circ} - \frac{1}{2} (A+B+C+D+G) = & \end{cases}$$

Á	27 33 00	Leave blanks below here for va
B	73 37 -	
4		
	$\log b = \dots$	3,796 610
	log sin A =	9.665 133
	log sin C =	
4	log sin E =	
ı	*(1) Sum =	3,461 743
	•	

m= 3,461.743	*2Sum = 3.4.6.4.1.9.4	
	-0 - 3,461 743	
α=	$\log \tan \alpha = \frac{0.062451}{}$	
α= ""	11- 06 1/2	
S° =		

ues not involved in the CASE used.

$\log \tan \frac{1}{2}(x+y) = \dots$		
$\log \tan (\alpha - 45^{\circ}) = \underline{\qquad}$		•••
$Sum = \log \tan \frac{1}{2}(x - y) =$		
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$\frac{1}{2}(\mathbf{x} - \mathbf{y}) = 1$		
-		
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37	*	
y		• • •

 $\log \tan \alpha = \dots$

 $\alpha - 45^{\circ} = \dots$

$\log \tan \frac{1}{2}(x+y) = \dots $ $\log \tan (\alpha \cdot 45^{\circ}) = \dots$	0.424 7.450	464 499	
$Sum = \log \tan \frac{1}{2} (y - x) =$	7. 8 74	963	
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$\frac{1}{2}(y+x)$	69	22	43
<u> </u>	69		
	68		

- α is an auxiliary angle needed only for the computation: it is always between 45° and 90°
- * Where 1 is greater than 2 use only the left side of the form below here, and vice-versa.

,	GEOGRAPHIC NAMES Survey No. H-8131		, and	No. Or	D They	ale stor	Or local Maria	O chide of	A SOL WELDING	N.S. John J.	\$
	Name on Survey	S A	NO OF	Se C	D D	E E	or loc's	O G	Agend H	NS K	
,	Southeast Alaska				title						1
•	Prince of Wales Island	**									2
	Cordova Bay		,					,	ļ		3
	lecey Island										4
	Triplet Rocks									ļ	5
	Jackson Island										6
	Jackson Passage										7
	Tlevak Strait									BGN	8
	Mellen Rock									ļ	9
	Sukkwan I _a land				ļ		,				10
					Names	appro	ved 9-	27 -57			11
	Tile station off sheet	<u>.</u>				;		L. He	ax		12
	Mabel Bay										13
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	·										M 234

GEOGRAPHIC NAMES

PRINCE OF WALES ISLAND

SUKKWAN ISLAND

CORDOVA BAY

TLÉVAK STRAIT

MELLÓN ROCK

JACKSON PASSAGE

JACKSON ISLAND

LACEY ISLAND

U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

TIDE NOTE FOR HYDROGRAPHIC SHEET

Chart Division: R. H. Carstens:

30 September 1957

Plane of reference approved in 6 volumes of sounding records for

HYDROGRAPHIC SHEET 8131

Locality Cordova Bay, Alaska

Chief of Party: J. Bowle in 1954

Plane of reference is mean lower low water, reading

4.9 ft. on tide staff at Mabel Island

16.7 ft. below B.M. 1 (1954)

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

Condition of records satisfactory except as noted below:

Chief, Tides Branch

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. .. 8131...

Records accompanying survey:		·
Boat sheets?; sounding vols; w	ire dra	g vols;
bomb vols; graphic recorder rolls	2-Enyel	opes
special reports, etcl.Smooth.sheet.and.	1.Descr	iptive.report.
• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • • • • • •
The following statistics will be submitted wirepher's report on the sheet:	th the	cartog-
Number of positions on sheet		1795
Number of positions checked		45
Number of positions revised		/3.
Number of soundings revised (refers to depth only)		234 *
Number of soundings erroneously spaced		12
Number of signals erroneously plotted or transferred		0
Topographic details	Time	8
Junctions .	Time	8
Verification of soundings from graphic record	Time	
Verification by C.R. HelmerTotal time	273	Date 2/3/58
Reviewed by All Jeshhud Time	55	Date 2/20/18
*Includes numerous sage ac	Ideal	to show
continuity of dopper		•

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8131

FIELD NO. HO-1754

S. E. Alaska, Cordova Bay, S. E. Sukkwan Island

Surveyed: August 1954

Scale 1:10,000

Project No. CS-357

Soundings:

Control:

Fathometer Leadline

Sextant fixes on shore objects

Chief of Party - John Bowie
Surveyed by - J. Bowie, E. F. Hicks, Jr., J. Dermody
Protracted by - C. R. Lehman
Soundings plotted by-C. R. Lehman
Verified and inked by - C. R. Helmer
Reviewed by - I. M. Zeskind
Inspected by - R. H. Carstens

Date: 2-20-58

1. Shoreline and Control

The shoreline originates with unreviewed air-photographic Surveys T-11293 (1948-54) and T-11296 (1948-54).

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

2. Sounding Line Crossings

Depths at crossings are in good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves were adequately delineated, except in depths less than 5 fms. where the foul character of the bottom sometimes prevented development to the low water line.

The bottom is very irregular. Submarine features such as reefs, ledges, deeps and shoals contribute to the bottom irregularity.

4. Junction with Contemporary Surveys

Survey H-8134 (1954) joins the present survey on the north, east and south. The junction of H-8134 with the present survey will be considered in the review of that survey. The present survey extends to the limits of the Project on the west where it makes adequate junction with the charted hydrography.

5. Comparison with Prior Surveys

H-2787 (1905), 1-40,000 H-3416 (1913), 1-40,000

These prior reconnaissance surveys cover the area of the present survey. In general, only minor differences in depths of 1-2 fms. are noted. However, in several areas differences in depths as much as 4 fms. are noted. These latter differences are attributed to inaccuracies in control and the improper spacing of soundings on the prior surveys. The rock awash and sunken rock symbolization on the prior surveys is generalized in a number of areas and disagrees with the more accurate delineation shown on the present survey. These symbols are, therefore, not being carried forward to the present survey. A few bottom characteristics have been carried forward to the present survey from prior survey H-3416.

The present large-scale survey is adequately developed to reveal all hydrographic information necessary to supersede the prior surveys.

6. Comparison with Chart 8147 (Latest print date 10-7-57)

A. Hydrography

The charted information originates principally with the boat sheet of the present survey, supplemented by rocks awash and sunken rocks from the prior surveys previously discussed which need no further consideration.

Only minor differences of 0.3 to 1.0 fms. between the charted and present survey depths after verification and review are noted, except for the 21-fm. sounding charted in lat. 55°02.37', long. 132°40.44', which was erroneously shown on the boat sheet. The sounding is actually 32 fms.

7. Condition of Survey

- The sounding records and Descriptive Report are complete and comprehensive.
- The smooth-plotting was accurately done.
- Numerous soundings were added during verification to show continuity of deeps and to reduce the wide spacing of soundings in areas affecting depth curves.

8. Compliance with Project Instructions

The survey adequately complies with the Project Instructions.

9. Additional Field Work Recommended

The survey is considered basic and no additional field work is recommended.

Examined and approved:

Chief, Nautical Chart Branch

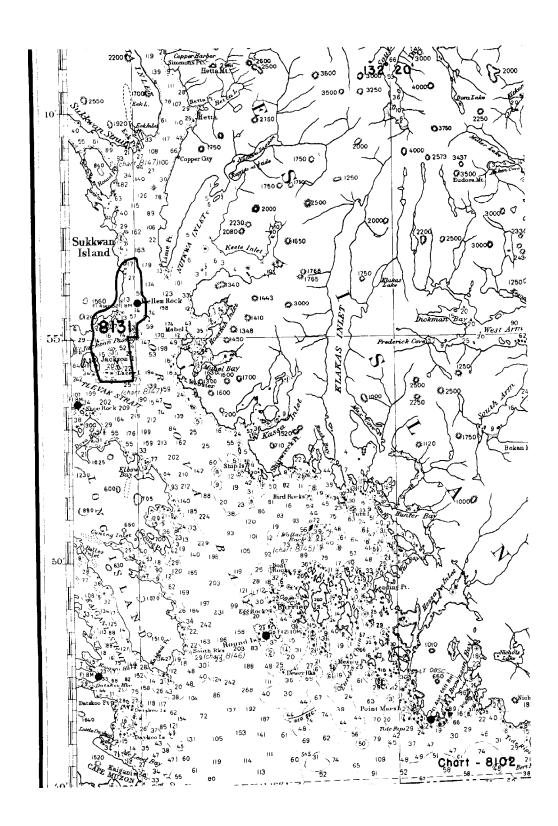
Chief, Hydrography Branch

Chief, Division of Charts

Charles A. Schanck

Samuel B. Grenell

Chief, Division of Coastal Surveys



NAUTICAL CHARTS BRANCH

SURVEY NO. <u>H-8131</u>

Reviewed 2-20-58

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
10-15-58	8/02	R.E Elkins	Gaminus - partly officed. Before After Verification and Review
			One rock awarh added
10-17-58	8152	R.E.Elkins	Before After Verification and Review Partly applied - Off thru cht 6102 dry!
11-1-60	8152	R.E. Elkins	Betwee After Verification and Review Completely office without going thru the large scale cht gift Pulls
1/14/61	8102	E.E. Thomas	After Verification and Review Completely
, ,	8147	H. Kaddon	Applied three Dwg 12, \$152- Refore After Verification and Review Fully Appld
8-10-63		h. keeler	Before After Verification and Review Apple: two chi. 3151
2/3/25	8147	M.D. KANIS	Lint con only for T.O. punt . RKD
	•		Signature - Re-examined for critical
			Before After Verification and Review
		i .	
			Before After Verification and Review
			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.