8132

8132

Diag. Cht. No. 8102-3.

Form 50

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. HO-1854 Office No. H-8132

LOCALITY

State S. E. Alaska

General locality Cordova Bay

Locality Nutkwa and Keete Inlet

194/_54

CHIEF OF PARTY

J. Bowie

LIBRARY & ARCHIVES

DATE November 5, 1957

B-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-8132

Field No. HQ-1854

State	S. E. Alaska	
General locality	Cordova Bay	
Locality	Nutkwa and Keete Inlet	
Scale1/10,	Date of survey September 1954	
Instructions dated	17 March 1953	
VesselL	aunch No. 98 and Launch No. 134	
Chief of party	. Bowie	
Surveyed by R. G	C. Munson - J. J. Dermody	
Soundings taken by f	athometer, graphicoscardaschendited work 808 - 628 , 808 -	150 SPX
Fathograms scaled by	у	
Fathograms checked	by R. C. M. & J. J. D.	
Protracted by	C. A. J. Pauw	
Soundings penciled by	y C. A. J. Pauw	
Soundings in fathe	oms took at MOW MILW and are based on velocity of sound of 800 fms. /sec	***
REMARKS:		
		·
		-ta

U. S. GOVERNMENT PRINTING OFFICE 16-6520-1

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SURVEY NO. H-8132 (FIELD NO. HO-1854)

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

SURVEYED BY R. C. MUNSON - J. 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 Nutkwa Inlet between parallels 55° 01:8 and 55° 06:0, all of Keete Inlet and the inshore work along the west shore of Lime Point to Latitude 55° 04:9.

Field work on this survey began on 24 August 1954 and was completed ~ 28 September 1954.

This survey is joined by contemporary surveys as follows:

DIRECTION	SURVEY FIELD NO.	SURVEY OFFICE NO.
South /	H0-1654	(H-8130 ×
West /	HO=2154	1954 H-8130 / H-8134 /
North ~	но-1954	(H-8133 -

C. VESSEL AND EQUIPMENT

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

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

DIGGTIDE AND CURRENT STATIONS

5 A portable automatic tide gage was maintained at Nutkwa Inlet, Lat. 54° 02' 50.4"/N, Long. 132° 34' 37.0" W during entire period of this survey and was used without time or range correction for reduction of all soundings except those in the narrow, north-south arm of Keete Inlet.

A portable automatic tide gage was maintained in the long, narrow arm of Keete Inlet, Lat. 54° 04' 51" N, Long. 132° 29' 22" W during entire period of this survey and was used without time or range correction for reduction of all soundings in the arm north of parallel 55° 03:55 (as shown on the boat sheet). (TG 04 3.9991LOG)

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

STATION	DATE	SOURCE	CHIEF OF PARTY
ATA	1918	USC&GS	J. W. M.
BOY	1918	11	н
COS	1918	11	H
END	1918	11	n
GULL	1918	H	n ·
HAS	1918	n	tt
IN	1918	n	π
KEET	1918	11	Ħ
LIME 2	1954	11	J. B.
LIT	1918	17	J. W. M.
MED	1918	91	Ħ
NUT	1918	tt ·	17
UP	1918	. #	n

Other control stations were located from air photographs on manuscripts T-9903, T-11035, T-11294, T-11295.

Where stations were needed and there were no identifiable picture points nearby, the stations were located by sextant fixes at the station using objects located by photogrammetric methods.

A list of all signals and their origin are pasted to the cover sheet y of Vol. No. 1 of the sounding record.

G. SHORELINE AND TOPOGRAPHY

All shoreline is from Manuscripts T-9903, T-11035, T-11294 and T-11295 \times furnished by the Washington Office.

Very slight shoreline discrepancies were noted in the areas marked as approximate on the manuscripts. A few isolated shoals and rooks were found which did not appear on the manuscripts and one rock symbol was deleted. These are noted on the boat sheet and field photographs.

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

H. SOUNDINGS

All soundings except a few hand lead soundings on isolated rocks or shoals 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 initial 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 made.

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

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

27 bottom samples were taken throughout the area.

I. CONTROL OF HYDROGRAPHY

All hydrography was controlled by visual sextant angles on shore signals.

J. ADEQUACY OF SURVEY

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

K. CROSSLINES

There are approximately 48 miles of crosslines or slightly over 8% of all lines run are crosslines. All crossings appear to be satisfactory.

L. COMPARISON WITH PRIOR SURVEYS

No prior surveys exist in this area.

M. COMPARISON WITH CHART

This survey was compared with Chart 8147, third edition, published August 1931, reprint date 12 May 1952. There are 15 charted soundings within the limits of this survey across the entrance to Nutkwa Inlet. These soundings and the soundings of this survey compare satisfactorily. The 2 P. D. rocks in Nutkwa Inlet were found and positions corrected. This survey should supersede all charted data. The charted shoreline is shown dotted as approximate and is out of position. The comparison with the charted rocks is as follows:

CHART LOCATION 55-02.96/ 132-37.45	CHART NOTATION 20 ft. island/	132-37.45	REMARKS Small island that ATA 1918 is located on.
55*03·03~ 132-37·43~	2 small islands	55-03•00 132-37•山山	The two charted islands are one large rock.

CHAR T LOCATION	CHART NOTATION	NEW LOCATION	NEW NOTATION	REMARKS
55-03.09/ 132-37.43/	Sunken rock dan ger to naviga- tion	- 55-03-05	3 ft. above	Rock is not a sunken rock. Shown 45, bare rock (3) on H-8/32.
	Sunken rock, dan ger to naviga- tion.			Hand lead sdg. was taken on rock. / (pos. //c.b/ue)
55-03.20 132-37.52	2 small islands		/	These islands were not found. (Deleted from Chart 8/47(10-7-57)
55-03.17 132-34.76	Sunken rock. Day ger to navigation	n- 55-03.16 on132-34.75	Cov. X ft.	Hand lead sdg. on highest part of sunken rock.
55 - 04.06 132 <i>-</i> 34.83	2 sunken rocks. P. D.	132-34.6	Uncov. 8V	These are the 2 P. D. / rocks on chart. A 3rd rock nearby bares on minus tide. 3rd tock Small shoal area.
•		(b)55 - 03 · 93 132 - 34 · 57	ov. 3 fms.	Small shoal area.
55-04.40 132-34.16	2 small islands			One island with ledge / area around it. @ NOB /
55-02.98 132° 33.52	Sunken rock	132-33.58	MLIN @ Pol ~	Outermost of string of rocks extending out from beach.
55-03.07 132-31.34	Rock awash	55-03.05 × 132-31.30 ×	Rock bert	(No.1.9, pq. 5.) 2 rocks uncover 5 & 6 + t.MLLW.
55 - 02.80 132 - 31.26	Small island 🗸		Reef attached to large islan	
55-02.76 132 - 29.97	2 small is- /	132-29.96	small islands bares 3 ft.MHW	A MED, 1918 (See 3/s for delineation of barerock)
55-02.81 132 - 29.30	small island	55-02.81 132-29.30	Bares & ft.	Vol. 10 pg. 22 Rk K = 1ft MLLW
55 - 03.26 132 - 29.30	small island	55-03.25 ¹ 132-29.30 /	ares 8 ft. MI	Vol. 10 pg. 22 Rk M = Tiff MLLW A GULL, 1918 (12) On THE GO OCCEPTED.
55-03 . 19 132 -29. 90	small island	55-03-18 1 132 - 28-92	Bares & ft.	F Vol. 10 pg. 22 Rk Q" = 10 Ft MLLW .
55 - 03.26 132 - 28.63	small island	55-03.26 (1 132-28.63 /	Bares 3 ft. MHM	I' O EYE
55 - 03 • 34 132 - 29 • 01	small island	55-03·33/ 132-29·04/	small island	Island, wooded, no height estimated.
55 - 03 • 39 132-30 • 21	sunken rock	55-03-39 1 132-20-22 4	reef awash MHW	Outer tip of reef of extending from beach

CHART LOCATION	CHART NOTATION	NEW NEW LOCATION //	REMARKS
55-04.20 132-29.48	small island	55-04.19 Bares 4-ft. 132-29.49 WHW MUW	Vol. 10 pg. 27 Reef "W" (A UP 1918) = 11 ft MLLW. (awash MHW (12) on F-11035 accepted)
•	4 small is- lands	55-04.30 One large r 132-29.52 √	onF11035 acceptedy

N. DANGERS AND SHOALS

Listed in the table below arehandharted dangers, shoals and significant soundings found: (Comparison made with Chart 8/47, dated 5-12-52)

soundings found. (Companie	*** ***** ** = *	
LOCATION DEPTH	POSITION	REMARKS
55-03.8442Uncov. 2 ft. MLL	W 120 /	High pt. of shoal
132-38.1606		
14. 1 ad	10.111	amall about
55-02.75 48cms.	10-110-	small shoal
132-37.48		
55-02.42 3 fms.	56-57E	Least depth on small shoal.
132-35 - 80 ,		Least depth on small shoal.
•	174-1756/ -224-225=	
55-02.81 3 fms.		Least sdg. on shoal.
132-35.20/4 ² fms.	16d	Hand lead sdg.
55-02.74 1 fm.	15d √	Hand lead sdg. on high pt. of
132-34-83/	リフコーリラ名 " c"	shoal /
	vol. 2, p.59	
55-02.76 / 1 m.	14d	Hand lead sdg. on hi pt. of
132-34-55		shoal -
55-03-29 /291 1m.	, 20d	Hand lead sdg. on hi pt. of
132-34.74	v at this spot	sunken rock.
yaria is shoale		
55-03.43 6 fms.	27-28k (v.)	Least depth on shoal
132-36-12	97-98 "c", vol.	z, b. 42
55-03.25 3 ⁴ fms.	213-214 6	Leget denth on shoal
132-33-11 V	confirmed by	Least depth on shoal ~ 24-25"m"
1)C=))•41		
55-03.41 & fms.	27-28m	Least depth on shoal -
55-03.41 & fms. 132-33.701	-120 EEF 175-	176 "f", vol. 4, P. 19
55-04.52 1 fm.	= 9"1"/	Hand lead sdg. on hi pts. of
132°34.08 / Lm.	vol. 6 P. 4;	rocks -
	, , , ,	
55-04.657 5 fms. /	64-65k	Least depth on shoal
132-35 -58-60	118-119 "e"(Vo	13, p.37)
	76-77	Least depth on shoal
55-05.12 6 ² fms.	122-129]	reast depth on shoar
132-35.50		
55-05.5 % 4 ⁵ fms.	9 " 1 "~	Hand lead on hi pt. of shoal
55-05.5 96 4 ⁵ fms.	161-162h	Least depth on shoal -
55-03-21,08 43 fms.	lg /	Least depth on shoal
132-32.1617	-6	

There are numerous other rocks close along the beach and at the heads of the bays, coves and inlets which are not tabulated but are shown either on the boat sheet or manuscript.

O. COAST PILOT INFORMATION

Nutkwa and Keete Inlets lie at the head of Cordova $^{\mathrm{B}}$ ay eastward of $^{\prime}$ Lime Point.

Nutkwa Inlet is 12 miles wide at its entrance and extends about 5 miles north-northeastward. Depths vary from 90 fathoms at the entrance to 10 fathoms at its head with several shoals of 4 to 6 fathoms in between. Two dangerous rocks, baring 8 and 5 feet at MLW, lie 0.47 mile southwest of Nutkwa Point. Off Keete Island are 2 more dangerous rocks, one is 1/4 mile or north and covers 1/2 fathom at MLLW and the other is 0.37 miles north and covers 1 fathom at MLLW. Both are marked by thin kelp.

Nutkwa Lagoon is a narrow body of water about 3 miles in length with midchannel depths from 40 fathoms at the southwest end to 20 fathoms at the northeastern part. Nutkwa Lagoon has several good salmon streams at its head. Mining and lumber activities are in evidence but no work has been done since World War II. (H-8/33,/4/4)

Nutkwa Falls, at the head of Nutkwa Inlet, obstructs passage into Nutkwa Lagoon. Several dangerous rocks are in the channel at and directly below the falls. Rapids exist above and below the falls except at high water slack. The water levels off at the falls at a tide elevation of 10 feet above MLIW. On the higher water slacks, a draft of 3 to 4 feet can be carried into Nutkwa Lagoon but passage should not be attempted without local knowledge. (# 8/33)

Keete Inlet extends eastward 2 miles from Meete Point and then narrows and extends northward about 12 miles. Depths vary up to 30 fathoms in midchannel. Adangerous rocks baring affect at MLIW, is 1 mile east of Meete Point. Deep water lies midway between this rock and the north shore. Good, anchorage in 20 fathoms, mud bottom, can be found south of the small island at the bend in the inlet. Local fishermen, going from Cordova Bay to Keete Inlet, usually pass to the south of Keete Island.

No unusual or unexpected weather conditions were encountered during the course of the survey.

During the summer months many large masses of jelly fish were noticed throughout the area. These large masses frequently gave the appearance of shoal water. The jelly fish gave no return on the fathometer and the possibility of a shoal was disproved by dropping a lead line over the side.

P. AIDS TO NAVIGATION

There are no aids to navigation within the limits of this survey. V

Q. LANDMARKS FOR CHARTS

There are no landmarks for charts within the limits of this survey. V

R. GEOGRAPHIC NAMES

See special report on Geographic Names submitted by this party.

The existing charted names within the limits of this survey are: LIME POINT, KEETE INLET, NUTKWA INLET and NUTKWA LAGOON.

The following names are recommended in order to provide some named features in this area:

- (a) The island Lat. 55° 02186, Long. 132° 34174 be named KEETE ISLAND.
- (b) The point Lat. 55° 03!07, Long. 132° 33!29 be named KEETE POINT.
- (c) The point Lat. 55° O4:30, Long. 132° 34:07 be named NUTKWA POINT.

S. SILTED AREAS

No significant silted areas in this survey. V

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: FLUE, TRY, and BIG.

Z. TABULATION OF APPLICABLE DATA

Tide Data Air Photographs

Respectfully submitted,

R. C. Munson,

Ens. USC&GS

Approved and forwarded:

John Bowie, CDB, USC&GS

Comdg., Ship HODGSON

STATISTICS

for HYDROGRAPHIC SURVEY H-8132 (1954)

USC&GSS HODGSON PROJECT CS*357

₩0L.	DAY	DATE	VESSEL	POSITION		H.L.
1	8.	24 Aug.	Launch 9	3 230	52.9	
Ł	ъ	25 Aug.	••	126	20.1	
2	ъ	25 Aug.		" 124	23.6	
2	C	27 Aug.		227	39.8	1
2 3 3 3	d	28 Aug.		" 60	8.0	10
3	ө	30 Aug.		" 190	43•3	
ź	f	31 Aug.		" 85	17.4	
4	f	31 Aug.	н	130	27.8	
\vec{J}_1	g	8 Sept.		" 1 <u>4</u> 3	20.6	
\vec{l}_{i}	h	9 Sept.		" 97	17.8	
44556	h	9 Sept.		" 102	23.1	
5	j	10 Sept.	11	" 2h1	38 • 5	
6	k	11 Sept.		" 228	37•9	_
6	1	13 Sept.		" 102	18.4	9
7	m	14 Sept.		" 253	39•5	
7	n	15 Sept∙		" 70	12.3	
7	р	16 Sept.		" 5	1.3	
7	q	26 Sept.		" 19	4.3	,
7	ĥ	28 Sept.	" 1	34 16		16
8	a	30 Aug.	••	¹¹ 73	14.9	
8	ъ	31 Aug.		74	13.7	
8	c	1 Sept.	н	" 223	28.1	
9	¢	1 Sept.	77	ⁿ 3	0.4	
9	đ	23 Sept.	Ħ	" 141	17.3	
9	6	24 Sept.	tt .	" 220	29•4	
677778889999	f	25 Sept.	11	" 49	9•3	
10	f	25 Sept.	Ħ	" 140	1₫• 5	
10	g	26 Sept.	11 -	" 106	6.4	13
	_		otals	3477	580•3	Ļ9 ⁹

Area =13.9 sq. stat. miles

TABLE 2
FATHOMETER CORRECTIONS - (PHASE)

808 FATHOMETER NO. 628

		Feet			homs			Fathome	3
Mean	A 45.06	B · 5 5 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mean	A 39.5 39.0 38.0 37.3 36.6 35.8 35.0 37.3	3 3 3 3 3 3	B 9.1 9.0 83 7.7 6.8 6.0 5.1 7.4	Me an	A 37.3 38.2 39.0 39.9 39.9 39.5 37.0 36.9 37.0	B 37.0 37.8 38.5 39.2 39.7 39.3 37.0 38.3
	দ	athoms					Fathoms		
	B	C				C	rathoms	D	
	78 •9 79 • 0	77 •2 77 •2				111.0 111.0		109.5 109.5	
	79•0 79•1	77•2 77•3				110.0 109.0		108.5 107.0	
	79.2	771-4		•		107.5		106.0	
	79•1 79•0	77•2 7 7•1				107.0 107.0		105•0 105•0	
	78•9 78•9	77•0 77•0				107.0		105.0	
M	<u> 78.6</u>	76.9	,			107.0 107.0		106.0 105.0	
Mean	79.0	77.2			Mean	108.4		106.6	
	A-B	+0.4 -0.1 _0.0							
	Me								
	B-C	+1.8							
	C_D	+1.8							
Corr	ection A		0.0						
			+0•1 +1•9						
			3.7						

TABLE 3

808 FATHOMETER 150 SPX

7 June 1954 - j day Sheet 1354

PHASE COMPARISON

A	В	В	С
42.3	44.3	74-4	74.8
41.6	43.2	73-6	74-4
40.4	42.0	73•5	74.0
40.0	41.3	73.0	73.5
39•9	41.2	72. 8	73.3
40.0	41.0	73.0	73.5
40.0	41.0	72.0	72.5
40.1	41.2	71.9	72.1
40.0	41.3	<u>71.7</u>	72.3
40.4	<u>41.6</u>	<u>71.7</u> 25.9	30.4
. 4• <u>7</u>	18.1	72 . 9	73.4 Mean
九0.5	ll.8 Mean		

A-B = -1.3

B - C = -0.5

A		=	0.0
В	corrn	=	-1.3
C	corrn	=	-1.8
D	corrn	=	-1.1

17	Sept.	-	Sheet	1854
----	-------	---	-------	------

C	D		
122.0	122.0		
122.0	121.0		
121.6	121.0		
121.8	121.0		
121.8	121.0		
121.5	121.0		
122.0	121.2		
122.0	121.2		
122.0	121.5		
121.5	120.0		
18.2	10.9		
121.8	121.1	C-D	0.7

TIDE NOTE

FOR

HYDROGRAPHIC SURVEY H-8132, FIELD NO. HO-1854

NUTKWA INLET

Lat. 54 02' 50.4" N Long.132° 34' 39.0" W

MLLW = 3.4 ft. on staff

KEETE INLET

55 Lat. 54° 04' 51" N Long.132° 29' 22"W

MLLW =5.8 ft. on staff

The Nutkwa Inlet tide gage results were used for all of Nutkwa Inlet and Keete Inlet except north of parallel 55° 03'.55 N in the N-S arm of Keete Inlet. The results from the Keete Inlet gage were used in this arm.

PROCESSING OFFICE NOTES H-8132 (HO-1854)

SMOOTH SHEET

The smooth sheet was hand constructed in the Seattle Hydrographic Processing Unit using standard methods.

Items under other headings have been checked or corrected / as shown in black ink on the field report.

Respectfully submitted

William M. Martin

Supervisory Cartographer

Approved and forwarded

CURTIS LE FEVER

Captain C&GS

Seattle District Officer

GEOGRAPHIC NAMES PENCILED ON SMOOTH SHEET H-8132

CORDOVA BAY

KEETE I.

KEETE INLET

KEETE PT.

LIME PT.

NUTKWA INLET

NUTKWA PT.

U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

TIDE NOTE FOR HYDROGRAPHIC SHEET

R. H. Carstens Chart Division:

21 November 1957

Plane of reference approved in volumes of sounding records for

HYDROGRAPHIC SHEET 8132

Locality Cordova Bay, Alaska

Chief of Party: J. Bowie in 1954

mean lower low water, reading Plane of reference is

5.8 ft. on tide staff at Keete Inlet

12.0 ft. below B.M. 2 (1918)

3.4 ft. on tide staff at Nutkwa Inlet 15.2 ft. below B.M. 1 (1954)

Height of mean high water above plane of reference is:

Keete Inlet 12.0 ft. Nutkwa Inlet 11.9 ft.

Condition of records satisfactory except as noted below:

Chief, Tides Branch

Comm-DC 34330

	GEOGRAPHIC NAMES Survey No. H-8132	·		No or or	D Hogg	local dior	Or local Magaz	O Guide of	Mood McHolly	J. J	, i
	Name on Survey	A	Char.	de C	D Whi	n oca stor	or local	, o. G	H	S K	
-	Southeast Alaska			(for	title)					1
	Cordova Bay	1			;						2
	Lime Point	ļ	,								3
	Keete Inlet			(tid	e stat	ion)					4
-	Keete Island					-					5
-	Keete Point				,						6
-	Nuthwa Point		an.								7
<u> </u>	Nutkwa Inlet			(tid	stat.	Lon)					8
-						· · · · · ·	:				9
				Names	appro	red 11	-15 - 5 7	L·H	eck		10
-		(All	of abo	ve nam	es app	Lied o	n late	st pri	nt of	<u> </u>	11
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Γ											

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. ..8132...

Records accompanying survey:		
Boat sheets .2; sounding vols10; w	ire drag	vols;
bomb vols; graphic recorder rolls	Ц-Envel	opes
special reports, etc. 1-Smooths sheet and	1-Descr	iptive report.
••••••••••••	• • • • • • •	• • • • • • • • • • •
The following statistics will be submitted win rapher's report on the sheet:	th the c	artog-
Number of positions on sheet		3477.
Number of positions checked		28.
Number of positions revised	,	to blotted
Number of soundings revised (refers to depth only)		35 (to smooth)
Number of soundings erroneously spaced		Q 3
Number of signals erroneously plotted or transferred		0
Topographic details	Time	7 kg 3 st.
Junctions	Time	3h. y y y z z
Verification of soundings from graphic record	Time	17.his 2 2 3 3 5 5
Verification by	277.64	EDate Poril.8 '58
Reviewed by Lime Time	44	Dete 5/21/58

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8132

FIELD NO. HO-1854

Southeast Alaska, Cordova Bay, Nutkwa and Keete Inlets

Surveyed September, 1954

Scale 1:10,000

Project No. CS-357

Soundings:

Control:

Lead line 808 Depth Recorder Sextant fixes on shore signals

Chief of Party - J. Bowie
Surveyed by - R. C. Munson and J. J. Dermody
Protracted by - C. A. J. Pauw
Soundings plotted by - C. A. J. Pauw
Verified and inked by - S. Rose
Reviewed by - I. M. Zeskind
Inspected by - R. H. Carstens

Date: 5/21/58

1. Shoreline and Control

The shoreline originates with unreviewed air-photographic surveys T-9903 (1953-55), T-11035 (1953-55), T-11294 (1953-55) and T-11295 (1953-55).

The source of the control is given 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

close inshore where the foul character of the bottom generally prevented development to the low-water line.

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

4. Junctions with Contemporary Surveys

An adequate junction was effected with H-8133 (1954) on the north. The junction with H-8130 (1954) on the southwest and with H-8134 (1954) on the west will be considered in the reviews of those surveys.

5. Comparison with Prior Surveys

There are no prior surveys by this bureau within the area of the present survey.

6. Comparison with Chart 8102 (Latest print date 12/2/57 Chart 8147 (Latest Print date 10/7/57

A. Hydrography

The charted hydrography originates with the boat sheet of the present survey (Bps. 52093-4-5). Only minor differences of 0.2 fm. to 2 fm. are noted between the charted depths and the present survey depths after verification and review.

- 1. The islet surrounded by reef charted in lat. 55°03.3', long. 132°30.2' from the advance manuscript of air-photographic survey T-11294 was erroneously delineated. This feature is shown on T-11294 as an island whose high-water line coincides with the charted reef limits.
- 2. The rock awash charted in lat. 55°04.38', long. 132°34.13' originates with advance manuscript of air-photographic survey T-9903, where it is delineated as a reef. This feature was revised on the present survey to an islet surrounded by a reef in accordance with a statement on page 4 of the Descriptive Report. (Signal NOB is located on the islet.)
- 3. The rock awash located on the present survey in lat. 55°05.49', long. 132°32.70' has not been charted.

B. Aids to Navigation

There are no aids to navigation within the area of the

present survey.

7. Condition of the 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.

9. Additional Work Recommended

The survey is considered basic and no additional work is recommended. However, as a matter of record it is noted that the ridge in lat. 55°03.8', long. 132°36.4' is only sparsely developed.

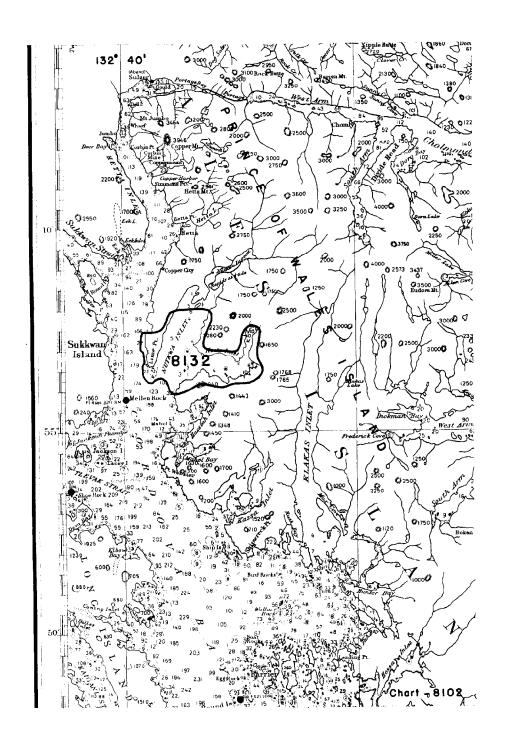
Examined and approved:

Max G. Ricketts Chief, Nautical Chart Branch

Ernest B. Levey Chief, Division of Charts

Chief, Hydrography Branch

Chief, Division of Coastal Surveys



NAUTICAL CHARTS BRANCH

SURVEY NO. H-8132

Reviewed 5-21-58

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
10-15-58	8102	R.E. Elking	Perform After Verification and Review
			Hydre in Nuthwa and Keete Iniets Completely revised.
10-17-58	8152	R.E.Elkins	Partly applied - thur cht 8/02 drg //
10-25-60	8152	R.E. Elkins	Police After Verification and Review Completely offer thru cht 8102 dag #11 No revision.
6/15/62	8147	H. Radde	Refuse After Verification and Review Fully Applied
8-10-63	8147	h.keeler	Before After Verification and Review April Hara 8161
2/3/75	8147	M.D. KANIS	Before After Verification and Review, INSpection +
			Signature - re-examined for critical Corrections Before After Verification and Review
-			Delote Mile Vermeauon and Nevicw
			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.