Diag. Cht. No. 8202-2.

FORM **C&GS-504**

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Hydrographic
Field No. B0-10-3-60 Office No. H-8546
LOCALITY
StateAlaska
General locality Taku Inlet
Locality Flat Point to Taku Point
·
19_60
CHIEF OF PARTY
H. G. Conerly
LIBRARY & ARCHIVES
DATE 3-31-61

USCOMM-DC 37022-P66

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-8546

Field No. B0-10-3-60

State	Alaska		•
General locality	Sou	theast Alaska Taku Inlet	
Locality	Taku Inlet	- Flat Point to Taku Point	·-
Scale 1:10.00	0	Date of survey 24-29 September 1960	
Instructions dated	17 June 19	259, 23 June 1959 and 7 December 1959	
VesselUS	C&GSS_BOWIE	<u>L</u>	
Chief of party	H. G. Cone	rly	
Surveyed byA	. R. Benton	, Jr., A.C. Korn, J.W. Kinney, Jr.	
Soundings taken b	y kathondetet, (graphic recorder, /hah/d/le/4/////////	
Fathograms scaled	ł by	Ships Personnel	
Fathograms check	red by XXXXX	WXXXXXXXXX H. G. Conerly	
Protracted by	J. W. Kinne	y, Jr.	
- -	-	W. Kinney, Jr.	
Soundings in	fathoms /f/e	WIII MIN MLLW and are true	depth.
Remarks:	·		
		······	•••
			
		······	



DESCRIPTIVE REPORT

To Accompany

Hydrographic Survey No. H-8546 (BO-10-3-60)

Taku Inlet, Alaska

Scale: 1:10,000

Date: 1960

USCAGS SHIP BOWIE

H. G. Conerly, Commanding

A. PROJECT:

This survey was accomplished under Instructions for Special Project 10-59 dated 17 June 1959, Amended Instructions dated 23 June 1959 and Supplemental Instructions dated 7 December 1959 issued by the Director.

The purpose of this survey was to accomplish hydrography in areas of Taku Inlet where shoaling has occured.

B. SURVEY LIMITS AND DATES:

The southerly limit is 58° - 19.5% N and the northerly limit is a line drawn true west from signal DYE at approximately 58° - 24.5 N, in Upper Taku Inlet.

(1952) (1952) (1952) A Blue-line prints of H-8032 and H-8033 yers used as, boat sheets and the survey is contained within their limits.

Hydrography was begun 24 September 1960 and completed on \checkmark 29 September 1960.

C. VESSEL AND EQUIPMENT:

All hydrography was done with Launch No. 184, a 26 foot plastic, / diesel powered launch which operated from the BOWIE.

Soundings were taken with 808 depth recorders 57-25 and 57-28.

Depths varied from - 1.3 fathoms to 10.# fathoms.

D. FIDE AND CURRENT STATIONS:

A portable tide gage was installed on the southeast corner of the dock at the Annex Creek Power House 7.1340 - 05.8 W and 580 -19.07 N. \checkmark (This is outside the limits of the sheet.).

A pressure tide gage was installed on the same dock and its results were used also in reducing soundings. See Tidal Note attached to this report.

There were no current stations within the limits of the sheet $\sqrt{}$ or in the project.

E. SMOOTH SHEETS:

The smooth sheet projection was constructed by personnel of the Seattle Processing Office, and plotted by personnel of the Ship BOWIE.

F. CONTROL STATIONS:

Second and third order triangulation stations used for control on this sheet were established in 1893, 1929 and 1937.

Topographic signals used for control were established in 1893, / 1929, 1937 and 1952.

Hydrographic signals were located by sextant angles. One cut was taken from signal DUKE to signal JOE. Signal JOE was a bare pole dressed with signal cloth by personnel from the Ship BOWIE. This cut passed through a signal on the blue line print of sheet H-8032 used as a boat sheet for this project and it was assumed that the pole was the remains of the signal appearing on sheet H-8032. This signal was then named JOE for this project (CS-10-59).

G. SHORELINE AND TOPOGRAPHY:

Shoreline for the smooth sheet comes from blue-line tracings No. RS-705 and No. RS-706.

H. SOUNDINGS:

Soundings were taken with 808 depth recorders 57-25 and 57-28. ./

I. CONTROL OF HYDROGRAPHY:

The hydrography is controlled by three-point fixes on signals ashore. No unusual or substandard methods were used for this purpose.

J. ADEQUACE OF SURVEY:

This survey is adequate and complete and should supersede previous surveys of this area.

K. CROSSLINES:

An adequate number of crosslines were run and crossings were satisfactory.

L. COMPARISON WITH PROOR SURVEYS:

The previous survey of this area was made in 1952 at the same scale (1:10,000). Sounding lines on part of the 1952 sheet (H-8032) are $\sqrt{}$ more closely spaced, and extend further east and north than on H-8546.

East of 134° - 01.5'W there has been shoaling from 1 to 10 fms. Shoaling of 10 fms. is approximately 0.3 n.m. west of signal STOW. North of 58° - 24.5'N shoaling has also been extreme. Sounding lines were ended at approximately that latitude because the evidence of shoaling was so great that there did not appear to be a navigable channel beyond that point.

The channel today is much narrower than in 1952 and very close to the west side of the Inlet between $58^{\circ} - 20^{\circ}N$ and $58^{\circ} - 22^{\circ}N$. To enter the channel without grounding in the foul ground south of Flat Point a vessel must come at Flat Point keeping the glacier in view. No 10 fathom soundings were found north of $58^{\circ} - 21^{\circ}N$ in the channel and no 5 fathom soundings north of $58^{\circ} - 22^{\circ}N$. North of LET, 1893-1929 the channel heads NNE (approximately 015°T), becomes very narrow and very soon 3 fathoms or less. Passage north of $58^{\circ} - 22^{\circ}N$ should not be attempted without local knowledge.

The cross-line, fixes 149c to 152c, is plotted using MUG as the right object for fixes 151 and 152c. This puts the line north of where it would be using LIP as the right object and it seems to fit better plotted that way.

M. COMPARISON WITH CHART:

Chart 8235, revised 7/20/59. Hydrography was completed to a line vinning true west from Taku Point.

The depth curves shown westerly of Davidson Point have changed completely. The 5 fm. curve has moved out to the 6 fm. curve at 58° - 20'N and as far as the 10 fm. curve at 58° - 22'N. The 0, 1, 2 and 3 fm. curves have moved out correspondingly.

A channel of any size and depth does not extend far beyond where shown on the shart. The deepest water is still about as charted.

The limits of hydrography do not extend as far east as the boulders charted south of Taku Point. The only crossline was run thru a gap between boulders. They were not sighted and no attempt was made to locate them.

Fatreme shoaling has taken place in the area north of a line running true east from Flat Point so a completely revised chart of this area is necessary.

The rocks awash*charted just south of Flat Point were not searched for and they were not seen while doing hydrography. The rock awash between signals JOE and FUB was not searched for and was not seen.

^{*} Rocks shown on manuscript as 'Awash at MHW'. Because hydrographer could not see rocks while running adjacent line of hydro at about 13 tide. Note 'Awash MHW" deleted from smooth sheet.

N. DANGERS AND SHOALS:

Dangers: The entire area north of aline running due east from Flat Point is shoal, much shoaler than shown on the latest addition of Chart 8235 and dangerous to navigate without local knowledge.

O. COAST PILOT:

See letter, subject, "Corrections to COAST PILOT, S.E. ALASKA 10th. (1952) Edition" for Taku Inlet, Alaska.

P. AIDS TO NAVIGATION:

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

Q. LANDMARKS:

There are no changes or additions that should be charted.

GEOGRAPHIC NAMES:

No changes recommended and no new names added.

S. SILTED AREAS:

While fathograms show no evidence of silting, comparison with H-8032 indicates the entire bottom has shoaled from 1 to 12 fathoms in the eight years since survey H-8032 was made.

Z. TABULATION OF APPLICABLE DATA:

The following applicable data are attached to this report:

- 1. Tidal Note Sheet
- 2. Tide Reducers
- 3. Abstract of Bar Check Corrections
- 4. List of Hydrographic Signals
- 5. Table of Statistics
- 6. Letter, Subject Coast Pilot, Taku Inlet, Alaska

Jack W. Kinney Ju. ENSIGN, C&GS

Approved and forwarded:

Francis X. Popper

CDR, C&GS

Commanding Ship BOWIE

TABLE OF STATISTICS

B0-10-3-60

H-8546

<u>Day</u>	NUMBER OF POSITIONS	MILES SOUNDING	MILES TO & FROM AND MISCELLANEOUS	TOTAL
£	141	20.2	5.5	25.7
ъ	68	9•7	7•9	17.6
c	223	38.2	5.6	43.8
đ.	146	20.3	3.5	23.8
е	138	19.4	5.1	24.5
f	15	1.2	2.2	3.4
			AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	-
	731	109.0	29.8	138.8

LIST OF HYDROGRAPHIC SIGNALS

B0-10-3-60

H-8546

NAME	SOURCE
BLUFF	BLUFF, 1929
CANE	Hydro cuts, Vol. 1 BO-10-2-60 page 56,
0.111.00	hydro cuts, Vol. 2 B0-10-2-60.
CROS	LET, 1893,1929; Reference CROSS
DEDO	Hydro cuts, Vol. 1 BO-10-2-60 page 56,
EMD0	hydro cuts Vol. 2 B0-10-2-60 page 38
DUKE	DUKE, 1929
DYE	DYE, 1937 (Topo Station)
Fish	Hydro cuts, Vol. 3 B0-10-2-60 page 16
FLAT	FLAT, 1929
FUB	FUB, 1893, 1929
H igh	HICH, 1952 (Topo Station)
Joe	Hydro cut, Vol. 2 B0-10-2-60 page 38.
	Scaled from Boat Sheets BO-10-2-60 and BO-10-3-60
	which are blue-line prints of H-8032 and H-8033.
LIP	LIP, 1893, 1929 (Landmark, white "X" constructed
	of 8" boards 6' long).
MID	Topographic location, B0-10-3-60 Vol. 1 page 3
MIST	Hydro cuts Vol. 1 BO-10-2-60 page 56
PILOI	" " 2 B0-10-2-60 page 38
MUG	Hydro cuts, Vol. 3 B0-10-2-60 page 16
NUT	Scaled from Sheet H-8545. Location on H-8545 is
1,01	from hydro cuts B0-10-2-60 Vol. 1 page 51-53.
OOZE	00ZE, 1937
Popi	Hydro cuts Vol. 2 BO-10-2-60 page 38
STOW	STOW, 1937 (Topo Station) (Landmark-white monument,
	marble 4 ft. high) BO-10-3-60
	3 ,

TIDAL NOTE SHEET

Field No. BO-10-3-60

Registry No. H-8546

Tide reducers for the whole sheet were taken from observations at Annex Creek, Taku Inlet. No time or height corrections were made for distance from the tide gage.

Position of Gage: Lat. 58 - 18.8 Long. 134 - 06.2

MLLW reading on staff 3.0 feet.

ABSTRACT OF BAR CHECK CORRECTIONS

Project 10-59

Taku Inlet

Date						Correc	tions		
1960	2 fms.	3 fms.	4 fms.	5 fms.	6 fms.	7 fms.	8 fms.	9 fms.	10 fms.
Sept. 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	/0.1
Sept. 15	0.0	0.0	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	0.0
	-0.1	0.0	-0.1	0.0	-0.1	-0.1	-0.1	0.0	-0.1
Sept. 16	-0.1	0.0	0.0	0.0	010	0.0	-0.2	-0.1	0.0
-	0.0	0.0	0.0	-0.1	-0.2	-0.1	0.0	-0.1	
	/ 0.1	/ 0.1	/ 0.1	/ 0.1	0.0	0.0	-0.1	-0.1	-0.1
	0.0	/ 0.1	≠ 0.1	0.0	≠ 0.1	≠ 0.1	0.0	-0.1	-0.1
Sept. 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sept. 19	-0.1	0.0	0.0	0.0	-0.1	-0.1			
	0.0	0.0	0.0	0.0	-0.1				
Totals	-0.2	≠ 0.2	0.0	-0.1	-0.5	-0.3	-0.4		
Mn	-0.02	≠ 0.02	0.0	-0.01	-0.04	-0.03	-0.04		

Phase Comparison computed on Page 2 Volume 1, Sheet (Reg. H-8546) shows -0.3 fm. correction to "B" Scale.

Septem	mber 24,	1960 -"a" Day	Septemb	per 25,	1960 -	"P"	Day
From	То	Fms. Reducers	From	To	Fms.	Redi	icers
0800	0804	- 0.8	0818	0830		0.8	
0804	0814	- 0.7	0830	0844		0.7	
0814	9 825	- 0.6	0844	0856		0.6	
0825	0837	- 0.5	0856	0912		0.5	
0837	0850	- 0.4	0912	0928		0.4	
0850	0907	- 0.3	0928	1000	_	0.3	
0907	0940	- 0.2	1000	1053		0.2	
0940	1015	- 0.1	1053	1121	_	0.3	
1015	1050	- 0.2	1121	1138	-	0.4	
1050	1106	- 0.3	1138	1154	-	0.5	
1106	1120	- 0.4	1154	1206		0.6	
1120	1134	- 0.5	1206	1218		0.7	
1134	1145	- 0.6	1218	1230		0.8	
1145	1155	- 0.7	1230	1240		0.9	
1155	1206	- 0.8	1240	1248		1.0	
1206	1215	- 0.9	1248	1256		1.1	
1215	1223	- 1.0	1256	1305		1.2	
1223	1232	- 1.1	1305	1315		1.3	
12 32	1240	- 1.2	1315	1324		1.4	
40	1247	- 1.3	1324	1333		1.5	
1247	1256	- 1.4	1333	1340		1.6	
1256	1305	- 1.5	1340	1350		1.7	
1305	1315	- 1.6	1350	1358		1.8	
1315	1324	- 1.7	1358	1408		1.9	
1324	1334	- 1.8	1408	1420		2.0	
1334	1343	- 1.9	1420	1431		2.1	
1343	1353	- 2.0	1431	1443		2.2	
1353	1403	- 2.1	1443	1457		2.3	
1403	1413	- 2.2	1457	1514		2.4	
1413	1424	- 2. 3	1514	1537 1615		2.5	
1424	1436	- 2.4	1537 1615	1654		2.7	
1436	1452 1507	- 2.5 - 2.6	101)	1094		201 4 4 4 4	ı
1452		- 2.7			97	γ "	-
1507 1535	1535 1650	- 2.7 - 2.8	Sentem	ber 26.	1960 -	"C"	Dav
1650	1710	- 2.7	0800	0809	_,,,-	1.6	
1710	1726	- 2.6	0809	0822		1.5	
1,10	1120	,	0822	0839		1.4	
		copy - now	0833	0846		1.3	
			0846	0857		1.2	
			0857	0910		1.1	
			0910	0922		1.0	
			0922	0934		0.9	

					- 2
pt.	26, 1960) - "c"	Day	(Cont)	
From 0934 0946 1000 1019 1045 1225 1245 1257 1311 1326 1339 1351 1402 1413 1423 1443 1454 1504 1514 1526 1538 1555 13636 1710	Too 0946 1000 1019 1045 1225 1245 1257 1311 1326 1339 1351 1402 1413 1423 1443 1454 1504 1514 1526 1538 1555 1613 1636 1710 1800		Redu 0.8 0.7 0.6 0.5 0.6 0.7 0.8 0.9 1.0 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.1 2.2 2.3 2.4 2.5	cers	
Septer 1100 1106	nber 27, 1106 1132 1308 1336	1960 - - - - -	m-10		
1354 1408 1424 1337 1450 1503 1517	1408 1424 1437 1450 1503 1517 1530	- - - - -	0.9 1.0 1.1 1.2 1.3 1.4		
1530 1543 1557 1610 1624 1640 1700	1543 1557 1610 1624 1640 1700 1723 1800	- - -	1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3		
		ch	- 14c		

From 0700 0900 0930 0953 1013 1029 1046 1100 1117	To 0900 0930 0953 1013 1029 1046 1100 1117	1960 - "e" Day Fms. Reducers - 1.9 - 1.8 - 1.7 - 1.6 - 1.5 - 1.4 - 1.3 - 1.2 - 1.1 - 1.0 - 0.9 - 0.8 - 0.7
Septer	mber 29,	1960 - "f" Day
Septem 0800 0840	0840 0910	1960 - "f" Day - 1.9 - 2.0 cm

USCAGS SHIP BOVIE 705 Federal Office Bldg. Seattle 4, Washington

18 January 1961

To:

The Director

Coast and Geodetic Survey Department of Commerce Bldg. Washington 25. D. C.

Subject:

Coast Pilot, Taku Inlet, Alaska.

Reference:

Coast Pilot for S. B. Alaska, 10th. (1952) Rd.

Page 337, Line 18:

Change semi-colon after ice to a period and delete remainder of line 18 and all of lines 19 and 20.

Page 337, Lines 22 to 25:

After period following the word "bold" delete remainder of lines 22, 23, 24 and 25 and substitute the following:
"Thence to about 2 miles south of Taku Point, a distance of approximately 4 miles, the channel is narrowed by a flat extending out from the eastern shore. From two miles south of Taku Point to the vicinity of Taku Point the channel is ill-defined, narrow, subject to change and should not be traversed without local knowledge."

Page 338, Lines 10 - 14:

Delete lines 10, 11, 12, 13 and up to and including "moraine" in line 14 and substitute the following: "Directions - From a point 0.1 miles due east of Flat Point steer 007° to a point 0.1 miles east of the second reference cross (light colored stone cross, grave marker, about 4 feet high) approximately two miles above Flat Point. Beyond there to Taku Point the channel is ill-defined, narrow, subject to change and should not be traversed without local knowledge."

Page 338, Lines 20 - 22:

Delete lines 20 - 22 as the area north of Taku Point is now very shoal.

Page 338. Lines 39 and 40:

Delete sentence - "Considerable shoaling was reported ____."

Francis X. Popper CDR, CAGS Commanding Ship BOXIE

TIDE NOTE FOR HYDROGRAPHIC SHEET

Diswisian xxx Coastak Surveys:

May 11, 1961

Division of Charts: R. H. Carstens

Plane of reference approved in 3 volumes of sounding records for

HYDROGRAPHIC SHEET 8546

Locality TAKU INLET, ALASKA(S.E.)

Chief of Party: H. G. Conerly (1960)
Plane of reference is mean lower low water, reading
3.0 ft. on tide staff at Annex Creek, Taku Inlet
30.6 ft. below B. M/(1937)

Height of mean high water above plane of reference is: 14.7 ft.

Condition of records satisfactory except as noted below:

Butw. Wlea.
Chief, Tides & Currents Branch

Chief, Dirksion xxx Aides and xxx entex

U. S. GOVERNMENT PRINTING OFFICE 877988

FORM 197 (3-16-55)

GEOGRAPHIC NAMES Survey No. H=854	.6		de d	D Popular	ge /	- Sa	2 O Guide of	MOS MENSION	ALIOS	, 5 /
55.15, 1.5. 2. 324		Charles Of	Oregion Or	S Mads	or local trop	Or Idea Hade	Cuide	agrid Mc T	N.S. Jahr	blin
Name on Survey		<u></u>	<u>/c</u>	/ D	E	/ F	G	<u>/</u> H	/ K (5"/
Davidson Cleek	1									1
Davidson Point										2
Flat Point	~ ·									3
Scow Cove	~									4
Taku Inlet	-									5
Toku Point	/.									6
										7
										8_
										9
										10
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Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. .8546...

Records accompanying survey:	Smooth s	heets	;
boat sheets .1; sounding vols3;	wire dra	g vols.	•••••
Descriptive Reports .1; graphic re	ecorder er	velopes	;
special reports, etc	• • • • • • • • •	•••••	
*************************		•••••	
The following statistics will be submitted rapher's report on the sheet:	with the	cartog-	
Number of positions on sheet		731	
Number of positions checked		60	
Number of positions revised			
Number of soundings revised (refers to depth only)		25	
Number of soundings erroneously spaced		.0	
Number of signals erroneously plotted or transferred		0	
Topographic details	Time	6	
Junctions	Time		
Verification of soundings from graphic record	Time	32	
Special adjustments	Time	•••••	
Verification by Kuss Landon Total ti	me 40	Date 3.	-17-72
Reviewed by Bruce Alan Olmstad Ti	me 65	Date Q	-06.73
Inspected by D. R. Engle	30	2	-25-74

OFFICE OF MARINE SURVEYS AND MAPS

MARINE CHART DIVISION

HYDROGRAPHIC SURVEY REVIEW

REGISTR	Y NO.	H-8540	<u>5</u>			F.	IELD N	Ю.	BO-10-3-60
Alaska,	Taku	Inlet,	Flat	Point	to	Taku	Point	,	

SURVEYED: September 24-29, 1960

SCALE: 1:10,000 PROJECT NO.: SP 10-59

SOUNDINGS: 808 depth recorders CONTROL: Sextant fixes on shore

signals

Chief of Party	H. G.	Conerly
Surveyed by		
	J. W.	Kinney, Jr.
Protracted by	J. W.	Kinney, Jr.
Soundings plotted by	J. W.	Kinney, Jr.
Verified and inked by		
Reviewed by	B. A.	Olmstead
·	Date:	April 6, 1973
Inspected by	D. R.	Engle

1. Description of the Area

This survey is located in the upper regions of Taku Inlet between Flat Point and Taku Point. The bottom is generally smooth in the southern part of the survey with extensive mud flats sloping gently from the eastern shore to the natural 5 to 10-fathom channel where it rises abruptly to the western shore. The bottom becomes more irregular in the northern part of the survey where the effects of Taku Glacier are more apparent. The channel here is narrow and 1 to 5-fathoms in depth with extensive mud flats extending from both of its sides. No bottom samples were obtained on the present survey. However, the bottom characteristics from prior surveys indicate the bottom to consist of soft mud and sand.

2. Control and Shoreline

The origin of control is given in the Descriptive Report. The shoreline originates with shoreline revision surveys RS-705 and 706 dated 1959.

The <u>rocks awash</u> just south of Flat Point originate with RS-706 (1959) on which they are labeled "awash at MHW". However while running hydrography adjacent to these rocks at about 1/3 tide the hydrographer

noted that he could not see these rocks. Therefore, the rock awash symbols were retained, but the note "awash at MHW" was deleted from the smooth sheet.

3. Hydrography

Depths at crossings are in adequate agreement. The depth curves are adequately delineated except the low water line (which was not required by the special project instructions).

The development of the bottom configuration and determination of least depths are considered adequate.

4. Condition of Survey

The field plotting, sounding records and the Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual, except for the following:

- A. The velocity correctors used were averages of bar checks from an earlier survey. Thus, day to day differences in depths are likely due to lack of bar checks while hydrography was being run.
- B. No bottom samples were taken during hydrographic field work.
- C. Sounding volumes were not signed by either the Officerin-Charge or the Chief of Party to indicate they had been inspected and approved.

5. Junctions

An adequate junction was effected with H-8545 (1960) on the south. A prior survey, H-8032 (1952) was considered for junctioning on the east, west and north but was not used due to extensive shoaling in this area.

6. Comparison with Prior Surveys

A. H-2055 (1890) 1:40,000 H-6275 (1937) 1:10,000 H-6267 (1937) 1:10,000

These prior surveys have been superseded by H-8032 and H-8033 (1952) within the common area and are not further considered in the present review.

B. H-8032 (1952) 1:10,000 H-8033 (1952) 1:10,000

A comparison of these prior surveys and the present survey reveals extensive shoaling throughout the area of the present survey. The maximum shoaling has occurred in the northern half of the survey where prior channel depths of 10 to 15 fathoms have shoaled to present depths of 1.3 to 5.0 fathoms and the channel has shifted approximately 200 meters westerly. The 1-2-3, and 5-fathom curves on the eastern side of the Inlet have moved westerly from 400 to 800 meters but those on the western side have remained generally stable.

The extensive shoaling that has taken place in this area is caused by the deposition of silt from both the Taku River and the advance of Taku Glacier immediately northward.

The present survey is adequate to supersede the prior surveys within the common area.

7. Comparison with Chart 8235 (13th Ed; August 14, 1971)

A. Hydrography

The charted hydrography originates primarily with the present survey, partially applied from the boat sheet before verification and review, supplemented by prior surveys already discussed. Only minor differences were noted between the charted depths and the present survey depths except the land the present survey depths except the land depth erroneously charted in latitude 58°22.18', long. 134°02.40' from the present survey. This should be revised to $2\frac{1}{2}$ fathoms.

The present survey is adequate to supersede the charted hydrography within the common area.

B. Aids to Navigation

No aids to navigation are charted in this area.

8. Compliance with Instructions

The survey adequately complies with the Project Instructions.

9. Additional Field Work

This is an adequate investigation of the shoaling in this portion of Taku Inlet and is a basic survey of the area covered. No additional hydrography is recommended.

Examined and Approved:

Marine Chart Division

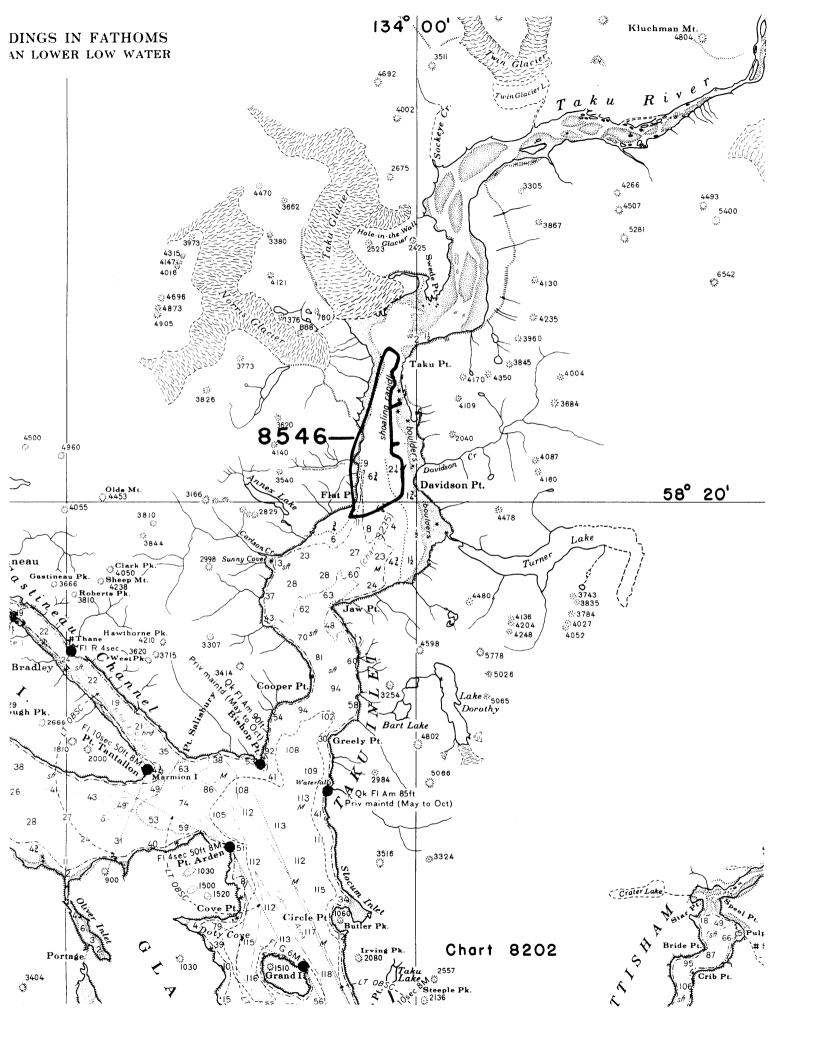
Associate Director Office of Marine Surveys

and Maps

<u>H-8545</u>
Information for Future Pre-Survey Reviews

Continual change in the bottom has occurred in upper Taku Inlet since the earliest survey because of the advance of Taku Glacier and the deposition of sediment. The bottom has shoaled throughout the survey area. The channel has become shoaler and narrower and has migrated farther westward with each successive survey. It is anticipated that this trend will continue.

	Resurvey Cycle Information						
Position Lat.	Index Long.	Bottom Change Index	Use Index	Resurvey Cycle			
581	1341	6	1	25 Years			
582	1341	6	1	25 Years			



NAUTICAL CHARTS BRANCH

SURVEY NO. H-8546

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
7-12-61	8202	ii. J. Keeler	Partially applied Before Verification and Review
			without going thru larger scale
1-16-62	8235	J.J. Streifler	Before After Verification and Review
		,	(partially)
9/10/73	8235	E. Frey	Refere After Verification and Review before insp
6/13/75	8135	C.S. Torber	Follyapp & After Verification and Review and inspection
6/14/13	8202	C.S. Forbes	April + appl After Verification and Review and inspection Appl + Iru chart 8235, duy # 17
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
		<u> </u>	Before After Verification and Review
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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.