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Diag. Cht. No. 8102-3.

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. DA-10-7-69 Office No. H-9085

LOCALITY

State Alaska

General locality Clarence Strait

Locality Tolstoi Bay and Vicinity

19.69

CHIEF OF PARTY

R. E. Moses

LIBRARY & ARCHIVES

DATE ______11-27-72

USCOMM-DC 37022-P66

FORM	C&GS-537
(5-66)	

U.S. DEPARTMENT OF COMMERCE REGISTER NO. ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

H-9085

INSTRUCTIONS - The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.	DA-10-7-69
State Alaska	
General locality Clarence Strait	
Locality Tolstoi Bay and Vicinity	
Scale 1: 10,000 Date of sur	vey 11 Oct - 28 Oct, 1969
Instructions dated 26 August, 1969 Project No.	OPR-465
Vessel Ship DAVIDSON, Launch 1, Launch RA-4,	17' Whaler
Chief of party CDR Ray E. Moses	
G.H. Endrud, B.W. Fisher, G.F. Torn Surveyed by W.K. Taguchi, D.L. Suloff	
Soundings taken by echo sounder, ************************************	723, Nos. 214, 553, 919,
Graphic record scaled by Ship's Personnel	1276, 1284, 1286
Graphic record checked by Ship's Officers	
Protracted by Ship's Officers Automa	ted plot by PMC, Seattle
Soundings penciled by Ship's Officers	
Soundings in fathoms XfXXXX at XXXXXX MLLW	
•	
REMARKS:	
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<i>e r</i>	3 48

DESCRIPTIVE REPORT

To Accompany

Hydrographic Survey H-9085 DA-10-7-69

OPR-465 Alaska

Scale 1:10,000

USC&GSS DAVIDSON

Ray E. Moses CDR, USESSA

Commanding Officer

DESCRIPTIVE REPORT

DA-10-7-69

A. PROJECT

This survey was accomplished according to Project Instructions: OPR-465, CLARENCE STRAIT, SOUTHEAST ALASKA, dated 26 August, 1969.

B. AREA SURVEYED

The survey covered the areas of Tolstoi Bay, Windfall Harbor, and the shoreline of Clarence Strait between the two areas. The total area is included between latitudes: 55° 35' 30" and 55° 42' 30"; and longitudes: 132° 19' 30" and 132° 27' 30".

Work was accomplished between 11 October and 28 October, 1969.

The survey makes a junction with the following sheets:

DA-10-6-69	H-9084 (1949)	Contemporary	survey
FA-20-3-69	H-9091 (1969)	Contemporary	survey
FA-20-4-69	H-9092 (1969)	Contemporary	survey

C. SOUNDING VESSEL

The following vessels were used to obtain soundings on this survey:

MITTER OF THE	TOCTOTON	ALTERATORIES	COLOD
VESSEL	POSITION	MAMPEK	COTOR

Launch 1 Red
Launch RA-4 Green
17' Whaler Blue

Bottom samples taken by the Ship DAVIDSON are shown with \checkmark orange position numbers.

D. SOUNDING EQUIPMENT

Raytheon DE-723 fathometers were used:

Launch 1 # 919, 1276 Launch RA-4 # 214, 1286 17' Whaler # 919, 553 Ship DAVIDSON # 1284

Echo sounder corrections were determined from bar checks taken daily by the launches and vertical casts made by the Ship FAIRWEATHER. Launch and whaler fathometers were initialed at zero, requiring draft corrections for their soundings. This draft correction is included along with the velocity correction in the Modified Velocity Correction tape. The Ship's fathometer was initialed at the Ship's draft. Since the Ship was used only for bottom sampling, there are no corrections for the Ship's work. All soundings are in fathoms. Differences between actual and assumed initial values are compensated by initial corrections (TC/TI tape).

E. SMOOTH SHEET

The smooth sheet will be constructed and plotted by the Processing Division, Pacific Marine Center, Seattle, Washington.

F. CONTROL

Visual three-point fixes were used for control in this survey. There were three types of visual signals used: triangulation, photogrammetric, and hydrographic. The triangulation signals were machine plotted on the sheet. Photogrammetric signals were located by either direct or radial plots from the office photographs. Hydrographic signals were cut in with sextant and transit angles. An abstract of signals and manuscripts is included in the appendix.

G. SHORELINE

Shorëline and shoal area outlines were traced onto the boat sheet from the photo manuscripts (see appendix) by the Ship's officers. Verification of the shoreline was carried out by Ship's officers in the manuscript field edit covered by FIELD EDIT REPORTS, Thorne Bay-Tolstoi Bay, Alaska, OPR-465, October, 1969.

There is good agreement between the photogrammetric and hydrographic location of features on this survey. The low water line is defined by the soundings.

H. CROSSLINES

The percentage of crosslines run was 7.7% (18.0 miles). \checkmark There is good agreement at crossings.

I. JUNCTIONS

Junctions were made with the following sheets:

DA-10-6-69	H-9084 (1969)	Contemporary	survey
FA-20-3-69	H-9091 (1969)	Contemporary Contemporary	survey
FA-20-4-69	H-9092 (1869)	Contemporary	survey

There is good agreement at the junctions.

J. COMPARISON WITH PRIOR SURVEYS

There are three areas that were investigated from the pre-survey review:

1. Area # 8 (Lat. 55° 37.9', Long. 132° 26.7')

The area was investigated and no sunken rock was found. a reduced sounding of 3.4 fms. was the least depth found. (3.7)

2. (Lat. 55° 40.3', Long. 132° 24.3')

This area pointed out in the pre-survey review, was developed on Overlay No. 1. A least depth of $\frac{5.4}{5.7}$ fms. was found. (5.7)

3. (Lat. 55° 40.7', Long. 132° 25.1')

Soundings shoaler than the depth shown on the pre-survey review were found in this area. A least depth sounding of 27 fms. was found.

(22)

Two other areas not noted in the pre-survey review were also investigated.

The area in the vicinity of Tolstoi Island (Lat. 55° 41.6', Long. 132° 25.5') was developed to determine the extent of the shoal area. These reduced soundings are plotted on Development Overlay No. 2.

A reduced sounding of 0.9 fms. was found in the anchorage area in the south end of Tolstoi Bay at Lat. 55° 37.4% and Long. 132° 26.9%. There is extensive kelp growth in this area.

The above depths were reduced using the actual tides. All soundings on the boat sheet and overlays were reduced using predicted tides for Lyman Anchorage, Alaska.

K. COMPARISON WITH THE CHART

Comparison of soundings and depth curves with C&GS Chart 8124, 7th Edition, Sept 2, 1968 is relatively good considering the scale (1:40,000) and the fact that the location of the bay in regards to latitude is inaccurate. Many significant soundings are not included on this chart. Listed below are some of the more important significant soundings for Tolstoi Bay reduced using actual tides.

Lat.	Long.	Least Depth
55 40 38	132 26 34	16
55 40 27	132 25 41	18
55 40 20	132 24 43	9.3
55 40 22	132 24 20	5.4
55 37 51	132 26 47	8.0
55 37 27	132 26 54	0.9

L. ADEQUACY OF SURVEY

This survey is considered complete and adequate to supercede prior surveys.

M. AIDS TO NAVIGATION

There are no aids to navigation on this boat sheet. There is however, a privately owned log mooring buoy located in Tolstoi Bay at Lat. 55° 38.85', Long. 132° 25.90'. (Position 1369, Vol. 13, pg. 36)

Refer also to the separate report on LANDMARKS OPR-465.

N. STATISTICS

	Number of	Nautical Miles	Bottom
	Positions	Sounding lines	Samples
Launch 1	1438	148.8	3
Launch RA-4	717	70.4	0
17' Whaler	286	14.8	0
Ship DAVIDSON	17	0	17

The total area surveyed is 7.0 square nautical miles. There are fourteen (14) volumes with this survey.

The tide station used for this sheet is the THORNE Tide Gauge at Thorne Head on time meridian 105° W. The soundings on the sheet were reduced using predicted tides for Lyman Anchorage, Alaska.

O. LOGGING

The HUL Logger (BCD Code)/ Friden Flexowriter logging system was used with this survey. A "dual indicator" format is used which combines both the sounding tape and position tape into one "position and sounding tape". An example and explanation of this format is included in the appendix.

P. RECOMMENDATIONS

There are no recommendations for this boat sheet.

Q. REFERENCES TO REPORTS

Corrections to Echo Soundings-OPR 465 (forwarded with this report)

Field Edit Report-OPR 465
(forwarded to CFS 3, 19 Nov. 1969,
transmittal letter No. DA-97-69)

Geographic Names Report-OFR 465
(forwarded with this report)

Landmarks Report-OPR 465 (forwarded with this report)

Respectfully submitted,

Gordon F. Tornberg

LTJG, USESSA

APPROVAL SHEET

OPR-465

DA-10-7-69

H-9085

Tolstoi Bay

Southeast Alaska

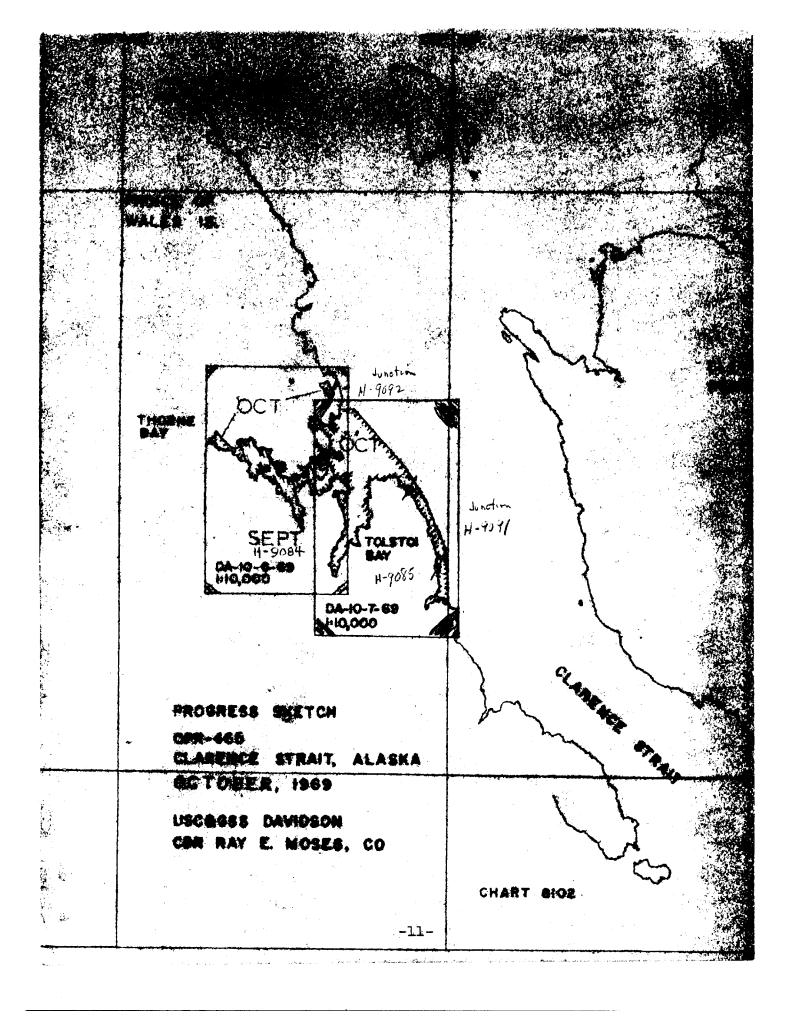
The field work on this survey was accomplished under my supervision. Frequent inspections were made of the boat sheet and other records.

Rey E. Moses CDR, USESSA

Commanding Officer USC&GSS DAVIDSON

APPENDIX

Tide Notes
Geographic Name List
Parameters for Digital Computing
Triangulation Stations
Boat Sheet Layout
Abstract of Corrections to Echo Sounders
Fathometer Initial Correction
List of Obstructions
List of Stations on DA-10-7-69
List of Manuscripts
Development Overlay No. 1
Development Overlay No. 2
Dual Indicator Position-Sounding Tape
Abstract of Positions



ABSTRACT OF CORRECTIONS TO ECHO SOUNDERS

In all corrections, Table 1 refers to Launch 1, Table 2 refers to Launch RA-4, and Table 3 refers to the 17' Whaler. The combined position-sounding tape does not call for specific correction tables, so corrections dependent upon vessel must be entered with care. All position-sounding tapes were logged separately for each vessel used. No corrections were logged for the Ship DAVIDSON since it was used only for bottom sampling.

Modified* Velocity Corrections (Fathoms)

Tab	le l	Tab	le 2	Tab	le 3
Depth	Corr'n	Depth	Corr'n	Depth	Corr'n
4.2 8.7 21.0 38.0 56.0 74.0 90.0 104.0 118.0 146.0 160.0 174.0 188.0 202.0 400.0	0.2 0.4 0.6 0.6 0.7 0.9 0.1 1.2 1.4 1.6 1.7	2.8 5.3 7.7 11.0 28.0 46.0 80.0 95.0 106.0 136.0 150.0 164.0 178.0 192.0 400.0	0.2 0.4 0.6 0.7 0.9 0.1 1.2 1.4 5.6 7.8 1.7 1.7 1.7 1.7	0.9 3.6 6.0 8.0 10.0 27.0 44.0 61.0 78.0 91.0 105.0 119.0 133.0 146.0 160.0 174.0 188.0 202.0	0.2 0.4 0.6 0.7 0.9 0.1 1.2 1.4 1.6 1.9

[&]quot;Depth" refers to the depth down to which the correction *pplies.

^{*} Includes draft correction--see Special Report on Velocity Corrections-OPR 465.

FATHOMETER INITIAL CORRECTION (FATHOMS)

	Table 1			Table 2			Table 3	
Day	Time	Corr	Day	Time	Corr	Day	Time	Corr
284 288 289 293 294	080000 080000 080000 080000 080000 145700	0.0	285 287 293	080000 080000 085000 090500 092700 080000	0.0 0.0 0.2 0.0 0.2	286 288	080000 080000 090500 091500 092000 111000	0.0
295 296	080000 111000 143600 080000 123000 131300 133500	0.0 0.2 0.0 0.1 0.2	294 296	080000 093500 103000 135700 154800 080000	0.0 -0.1 0.0 0.2 0.0 0.0	289	080000	0.0
300 301	080000	0.0		102700 111400 114000 144600 153500	0.0 -0.2 0.0 -0.1			

All times are 105° W.

Also refer to special report on Corrections to Echo Soundings-OPR 465.

LIST OF OBSTRUCTIONS

<u>Item</u>	Pos.	Vol.	Page	Lat.	Long.
Field Edit DP's	8001-8071	3	5-27	*	*
Log Mooring Buoy	1369	13	36	55 38.9	132 25.9

LIST OF STATIONS ON DA-10-7-69

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Signal No.
                                   Origin of Station
  701
                             STAY, 1966
  702
                             T-12380
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                             T-12380
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                             Vol. 2, pg. 28
  706
                             T-1238Ó
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                             T-12380
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                             T-12380 Supplement
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Vol. 3, pg. 29-31
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Vol. 3, pg. 17; Vol. 6, pg. 45, 46
T-12376
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Vol. 3, pg. 17
Vol. 9, pg. 72
T-12381
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LIST OF MANUSCRIPTS

T-12380 Supplement T-10687 T-12381 T-12376 T-12380

ABSTRACT OF POSITIONS

<u>Day</u>	Launch 1	Launch RA-4	17' Whaler	DAVIDSON
284 285 286 287 288 289 293 294 295 296	0001-0128 0138-0271 0272-0391 0392-0497 0498-0756 0757-0955 0956-1167 1168-1368	3001-3109 3110-3318 3319-3364 3365-3496 8038-8060 8061-8071 3497-3690	5001-5145 5146-5176 5177-5258	9001 - 9017
301	9018 1369-1442 9019-9020			

(图4)	
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> Comp: 8871 Checked!

DUAL INDICATOR

POSITION-SOUNDING TAPE

Pos Ft

Time Ind Sndg Num Day Fm LA RA LO CO RO
111230 01 0015 1878 101 1 046150 012580 0201 204 206

111245 01 0020

111300 01 0016

111315 01 0011

111330 C1 0010 1879 101 1 045400 014140 0201 204 206

Time Hour, min., sec.

Ind Indicator: 00 Soundings in whole units

Ol Soundings in units and tenths

Sndg Depth in feet or fathoms

Pos Num Position number

Day Julian day number

Ft/Fm Indicator: O Feet

1 Fathoms

LA Left Angle

RA Right Angle

LO Left object

CO Center object

RO Right Object

FORM 197 (3-16-55)

Cr. To. Strate, P.O. Cijde of Mass J.S. Light Lieb GEOGRAPHIC NAMES Hours de grand Survey No. #-9085 On Ho. Name on Survey В Ε F CLARENCE STRAIT 1 KASAAN PENINSULA 2 PPINCE OF WALES ISLAND 3 THORNE HEAD 4 TOLSTOI BAY 5 TOLSTOI ISLAND 6 TULSTOI POINT 7 WINDFALL HARBOR 8 9 10 11 12 13 14 15 16 17 18 -19 20 APPROVED BY PREPARED BY 21 22 CHIEF GEOGRAPHER CARFOGRAPHER 23 24 26 27

TIDE NOTES

The tide station used for this survey was THORNE at Thorne Head, Alaska.

Location

55° 40' 58"

1320 271 38"

Plane of Reference

MLLW

Time Meridian

105°W

Type of gauge

Portable Bubbler

The tide height data were corrected for differences in time and height. MLLW was 4.8 ft. on the staff during 17 September to 12 October, 1969, and -2.1 ft. on the staff thereafter. The staff was relocated on 12 October after the original was destroyed by floating debris.

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

TIDE NOTE FOR HYDROGRAPHIC SHEET

January 27, 1970

Neuricek Charon Division x x

Pacific Marine Center

Plane of reference approved in

volumes wissenedings records for

Tide tape printout

HYDROGRAPHIC SHEET

9085

Clarence

Locality: - Keku Strait, S.E. Alaska

Chiefrik Rann:

Year: 1969

Plane of reference is

mean lower low water

Tide Station Used (Form C&GS-681):

Thorne, Thorne Bay, Keku Strait

Height of Mean High Water above Plane of Reference is as follows:

14.6 feet

Remarks

J. M. Symons
Chief, Tides and Currents Brench

FORM C&GS-946 (REV. 11-65) (PRESC. BY HYDROG RAPHIC MANUAL 20-2, 6-94, 7-13)

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

HYDROGRAPHIC SURVEY STATISTICS HYDROGRAPHIC SURVEY NO. <u>H-9085</u>

RECORDS ACC	OMPANYING SUR	VEY: To be	e comp	leted whe	n survey	is registered.			
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VOLUMES		14							
BOXES				1					
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OFFICE OF MARINE SURVEYS AND MAPS

MARINE CHART DIVISION

HYDROGRAPHIC SURVEY BRANCH

REGISTRY NO. H-9085 FIELD NO. DA-10-7-69
Alaska, Clarence Strait, Tolstoi Bay and Vicinity
SURVEYED: October 11, 1969 to October 28, 1969
SCALE: 1:10,000 PROJECT NO.: OPR-465
SOUNDINGS: DE-723 Echo Sounders CONTROL: Sextant fixes on shore signals
Chief of Party. Surveyed by. B. W. Fisher G. F. Tornberg R. L. Baker W. K. Taguchi D. L. Suloff Protracted by. Gerber Digital Plotter
PMC Soundings plotted by Gerber Digital Plotter PMC
Verified and inked by

1. Description of the Area

This survey covers Tolstoi Bay and adjacent inshore slope of the west side of Clarence Strait from Thorne Head south to Windfall Harbor.

Inspected by..... R. H. Carstens

The bottom in Clarence Strait is characterized by steep rugged slopes which extend to depths of over 100 fathoms. In Tolstoi Bay steep gradients extend from shore to depths of greater than 80 fathoms.

Many rocky shoals and reefs exist inshore and evidences of kelp were found in many areas of the present survey,

Predominant bottom characteristics in the area are mud, sand, and pebbles. Rocky ledges and reefs intersperse foul and gravel beaches along the shore.

Shoreline and Control

The source of control is adequately described in the Descriptive Report. The shoreline originates with advanced manuscripts T-12376, T-12380 and Supplement, and T-12381 all based on 1963 air photography and a 1969 field edit; and T-10687 (1956) a Class 1 Map. A conflict between the shoreline on T-10687 and T-12381 was resolved in the Coastal Mapping Division.

3. Hydrography

Depths at crossings are in good agreement considering the nature of the bottom. The usual depth curves are adequately delineated, except in foul areas or where ledge and reefs made passage dangerous. In some cases, brown and broken curves were drawn by the reviewer to emphasize lesser depths in areas of deeper soundings.

The delineation of bottom configuration was in general good. However, no hand lead verification of critical depths was accomplished. Depths through major channels in the approaches to Tolstoi Bay are deep and adequately developed to provide a safe passage. However, inshore development of the western side of Clarence Strait is sparse in some places and some off-lying shoals are inadequately delineated.

4. Condition of the Survey

The plotting, sounding records and various printouts are adequate and conform to the Hydrographic Manual supplemented by the Instruction Manual. - Automated Hydrographic Surveys. However, some closely spaced soundings in deep depths could have been excessed without harming the delineation of the bottom.

Ledges and reefs were sometimes erroneously delineated on the verified smooth sheet because hydrographic data was not always consulted. Boat sheet references and hydrographic notes in the sounding volumes should be utilized to properly delineate these features.

5. Junctions

Adequate junctions were effected with H-9084 (1969) on the northwest, H-9092 (1969) on the north and northeast, and H-9091 (1969) on the east and southeast.

6. Comparison with Prior Surveys

A. H-1649b (1885) 1:80,000 H-1653a (1885) 1:20,000

These early smaller scale reconnaissance surveys provide only general information of this area which precludes any detailed comparison with the present survey. However, it is evident that the general character of the bottom has remained the same. The present survey portrays the bottom configuration in much greater detail and is adequate to supersede the prior surveys in the common area.

B. H-3810 WD (1915-1916) 1:40,000

The wire drag survey covers a portion of the present survey. Effective drag depths do not conflict with depths on the present survey.

7. Comparison with Chart 8124 (Latest print date, November 4, 1972)

Chart 8142 (Latest print date, February 10, 1973)

A. Hydrography

The charted hydrography originates largely with depths from the boat sheet (BP-77734) and the verified smooth sheet of the present survey. Boat sheet depths are about 1 fm. shoaler than depths on the smooth sheet.

The present survey is adequate to supersede the charted information in the common area.

8. Compliance with Project Instructions

This survey adequately complies with the project instructions.

9. Additional Field Work

This is an excellent basic survey and no additional field work is required immediately. However, at an opportune time, determination of least depth on the 6.9 fm. shoal in lat. 55°38.5', long. 132°21.06', would be desirable.

Examined and Approved:

Chief Marine Chart Division Associate Director

Office of Marine Surveys and

Maps

H-9085

Information for Future Pre-Survey Review

- 1. The inshore area on the east side of Kasaan Peninsula is sparsely sounded and should be developed in greater detail.
- 2. The 6.9 shoal in lat. 55°38.5', long. 132°21.06', has not been developed adequately for least depth.
- 3. The rock awash at MLLW charted at lat. 55°41.44', long. 132°26.78', from T-12376 (BP-87611) falling in about 3 fathoms of water was neither verified or disproved by the hydrographer.

This rock should be investigated at low tide, and if found, its elevation should be determined.

Position Lat.	Index Long.	Bottom Change Index	Use Change Index	Resurvey Cycle
553	1323	1	1	50 yrs.
554	1323	ı	1	50 yrs.

The Computer and Excess Sounding Cards for this survey have not been corrected to reflect the changes made to the Computer Card and Excess Card Printouts at this time of the review.

When the cards have been updated to reflect the final results of the survey, the following shall be completed:

CARDS CORRECTED

•			and the second s		
DATE	TIME	REQ'D_		INITIALS	
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REMARKS:

RECORD OF APPLICATION TO CHARTS

INSTRUCTIONS

- A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

 1. Letter all information.

 2. In "Remarks" column cross out words that do not apply.

 3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

	DATE	CARTOGRAPHER	REMARKS
8142	2/14/73	E. Frey	Est Part Before Marification Review Inspection Signed Via
			Drawing No. 11 App'd critical corr's only in
			Wind fall Harbor
8124	6/14/23	E. Frey	Full Part Balore After Verification Review Incomesion Signed Via
		/	Drawing No. App'd critical corr's only. Revised som
		'.	solas & added several rocks awash & rock ledge
8102	6/14/23	E. Frey	Full Part Before After Verification Resident Inspection Signed Via
		*	Drawing No. Revised some sdas via cht BIZY & others
			by direct reduction
8102	5/31/74	E Frey	Full Part Raface After Verification Review Inspection Signed Via
		,	Drawing No. Exam'd review only for critical corr's
			No corr's made
8/42	10/8/74	m.D. Kanis	Full Dest Before After Verification Review Inspection Signed Via
	,	,	Drawing No.
8124	11/12/26	21. J. Boraweli	Fell Part Refere After Verification Review Inspection Signed Via
			Drawing No. Added or Revised MLLW Ledges, Man
			Minor Revisions in 3 10 20 Im Carves Added Shoot Such Part Part After Verification Review Inspection Signed Via
17420	4/27/84	Botenwalous	
	,	•	Drawing No. 22, Felly aged through 17426,
			and Doubly sound through (HT 17423
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
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			Full Part Before After Verification Review Inspection Signed Via
,			Drawing No.
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