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Diag. Cht. No. 8201-3.

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

(HYDROGRAPHIC)

Type of Survey HYDROGRAPHIC Field No. DA-10-5-71 Office No. H-9217
LOCALITY
State AIASKA
General Locality .SUMNER. STRAIT
Locality PT. BARRIE TO TOTEM BAY
<u></u>
19 71
CHIEF OF PARTY RAY E. MOSES
LIBRARY & ARCHIVES
DATE AUG. 13, 1973

★U.S. GOVERNMENT PRINTING OFFICE: 1974-763-098

FORM C&GS-537

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

REGISTER NO.

HYDROGRAPHIC TITLE SHEET

H-9217

INSTRUCTIONS - The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

FIELD NO.

DA-1Ø-5-71

General locality Southheast Alaskies Super Strait Locality Bunner Straits: Pt. Barrie to Totem Bay Scale 1:10,000 Date of survey 11, June - 1 July 1971 Instructions dated 2 February 1973 Project No. OFR-1,18-DA-71 Vessel Launch DA-1, Launch DA-2, NOAA Ship DAVIDSON Chief of party CDR Ray E. Moses Surveyed by Lt(1g) Rigrz, Lt (1g) Miller, Ens. Young, ST. Faranada Soundings taken by echo sounder, Junktissky pole Raythson DE-723, #919, #553 Graphic record scaled by Ship's Personnel Graphic record checked by Ship's Commissioned Officers Positions Verified by James L. Stringham Automated plot by PMC-FEP Treasth Soundings in fathoms MEEK at MILW REMARKS:	Saaa Alaska
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DESCRIPTIVE REPORT

DA-10-5-71 /

H-9217 /

Yellow Island, Sumner Strait

Southeast Alaska

A. PROJECT

This survey was accomplished according to Project Instructions OPR-448-DA-71, Keku Strait and Sumner Strait, S.E. Alaska dated 2 February 1971.

B. AREA SURVEYED

The survey covered the area in Sumner Strait along the north shore east of Point Barrie between longit tude 133° 36' 00" and 133° 25' 00".

The southern limit of hydrography is in the area of latitude 56° 24' 00" where the sheet junctions with contemporary survey DA=20=1=71. Work was accomplished between 14 June 1971 and 1 July 1971. The survey makes junctions with the following sheets:

DA-20-1-71 19. -10-1-65 H-9223 (1971) Contemporary Survey / H-8861 (1965) Contemporary Survey / H-9218 (1971)

C. SOUNDING VESSEL

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

VESSEL

POSITION NUMBER COLOR

Launch DA-1 Launch DA-2 Blue Red

_2 R

An abstract of positions can be found in the appendix. -

D. SOUNDING EQUIPMENT

Raytheon DE-723 fathometers were used on the survey.

VESSEL

FATHOMETER NO.

Launch DA-1 Launch DA-2 533 / 919 / Echo sounder corrections were determined from bar checks taken daily and from a Nansen cast taken from the ship. Corrections to echo soundings can be found in a separate report titled "Corrections to Echo Sounders OPR-448-DA-71." All soundings are in fathoms. The 1050W time meridian was used in all cases for this survey. Soundings on the boatsheet were reduced to predicted tides based on predictions for Red Bay, S.E. Alaska. Two TC/TI tapes were necessary since two sounding vessels were used on the same day on several occasions.

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 inshore control for the survey. Visual signals used were either existing triangulation or photogrammetric. Existing triangulation was plotted on the sheet by computer by the Pacific Marine Center. Photogrammetric signals were picked and plotted by the ship's commissioned officers. An abstract of signals is included in the appendix of this report. Visual control was used exactlusively by launch DA-2 while both visual and electronic control was used by launch DA-1. Electronic positioning using a Decca "Sea-Fix" system was used for the off-shore portions of the sheet.

FREQUENCY [619.64 KiloHertz LANE WIDTH 92.517 METERS

Visual calibrations were made at the beginning and at the end of each day with additional calibrations taken as necessary. For a complete description of the electronic system used, see "Report on Electronic Control for DA-10-5-71." A copy of this report is in the appendix.

G. SHORELINE

Shoreline and shoal areas were traced onto the boatsheet by the ship's commissioned officers from the following manuscripts:

Verification of the shoreline was carried out by the ship's commissioned officers and is covered in a separate report titled "Field Edit Report - OPR-448-DA-71."

H. CROSSLINES

The percentage of crosslines to sounding lines is 7.5% or 32.25 NM compared to the total of 445.5 NM. All crossings are in agreement.

I. JUNCTIONS

Junctions were made with contemporary surveys DA-20-1-71 and PA-10 1527. Soundings at the junctions agree. Soundings from DA-20-1-71 were reduced for the approximate draft of the DAVIDSON prior to plotting the junction on sheet DA-10-5-71. The junction soundings from DA-20-1-71 are therefore 2 fathoms greater than shown on the boatsheet DA-20-1-71.

J. COMPARISON WITH PRIOR SURVEYS

No prior surveys were available. Comparisons should be made during verification. The following items are noted:

H-9217 DA-10-5-71

Reef at 56° 26.02', 133° 31.58' bare 1 feet at 1040 on June 16, 1971 (Day 167 1007 till Weight 7 feet above Mulish)

Rock at 56° 26.04°, 133° 31.43° awash at 1225 on June 16, 1971. (Bay 167 1004 fide Height 2 feet above Milw)

Rock at 56° 26.16°, 133° 31.00° bare 1 feet at 1350 on June 16, 1971. (Bay 167 1002 tide Height 2 feet above MLLW)

Reef at 56° 25.68', 133° 29.75' bare 1 feet at 0910 on June 17, 1971. (DAY 168 1015 fide Height 10 feet Bhove MLL W)

K. COMPARISON WITH THE CHART

Comparisonswwere made with C&GS chart 8201. Due to the great difference in scales between the survey and the chart, comparison was difficult but depths and features were found to agree.

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 located within the area covered by this boatsheet.

N. STATISTICS

VESSEL	NUMBER OF POSITIONS	NAUTICAL MILES SOUNDING LINES	BOTTOM SAMPLES	DP's
Launch DA-1 Launch DA-2 Ship DAVIDSON	2584 - 3992 - 0	335.3 110.1 0 445.4	31 16 25	20 2 0 22

The total area surveyed is 16.36 square mautical miles. There are 23 sounding volumes with this survey. The soundings on the boatsheet were reduced using predicted tides for Red Bay, Alaska.

O. LOGGING

On time logging of position and sounding data was used as well as sounding volumes for this survey. Logging was done using both a Milcom and a Climatronics logger. Printouts were made by a Friden Flexowriter. A dual indicator format was used. Smooth tapes were logged using either single and dual format as noted on the smooth printouts.

P. RECOMMENDATIONS

There are no recommendations for this survey.

Q. REFERENCES TO REPORTS

Corrections to Echo Sounders OPR-448-1971 Field Edit Report OPR-448-1971 Tide Gage Report OPR-448-1971 Geographic Names Report OPR-448-1971 Report on Electronic Control OPR-448-1971

Respectfully submitted,

Noward W. Herz D LTJG. NOAA

Attachments:

Tide Note
Form #1
Abstract of Positions
List of Stations
Report on Electronic Control for DA-10-5-71
Approval Sheet

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ABSTRACT OF POSITIONS

DAY	LAUNCH DA-1 Position (Vol.)	LAUNCH D.		SHIP DAVID	SON 51.)
165	POSTCEDII (VOIS)	3000-3234		(1)	- · · ·
166	1-314 (2)-				
167	315-558 (3)	3235-3372	(4,5)/		
168	559 - 856 (6)/	3373-3559	(5,7)/		
169	857-1095 (8)/	3560-3755	(10)/		
170	1096-1316 (11)	3756-3822 9001 - 9016	(12)		
171	1317-1577 (9,13)	9001-9010	(21)		
172	1578-1785 (14)				
173	1786-1986 (15)/	3823-3991	(17)/		
174	1987-2140 (16)				
175	2142-2324 (18)			8000-8016	(22)
180	2335-2430 (19)/		7001-7023,	9017-9020	(21)/
181 '	2431-2491 (19)			8021-8029 9021-9047	(22)
182	2492-2584 (20)			7U&I=7U4/	(21)

T-SHEET LIST OF MANUSCRIPTS

T-12462 -	- T-13376 -
T-12463	T-13377 T-12225
T-12266	T-13338
T-12467	T-13340
T-12468	T-13341 (
T-12469	-T-13339
T-13374	T-13342

LIST OF STATIONS

ELECTRONIC STATIONS

Red-

DONNA, 1971 001 56° 23'33.712"N 133° 41' 25.996"W

Green-

CRO, 1915 599 560 25' 11.812"N (Used from 3 June to 5 June 133° 30' 57.540"W 1971)

CHERYL, 1971 002 560 29' 22.831"N (Used from 7 June to 9 June 133° 21' 22.150"W 1971)

Sea-Fix Frequence - 1619.64 kc. (Range-Range) / One (1) lane - 92.517 meters.

LIST OF STATIONS ON DA-10-5-71

	•
SIGNAL NUMBER	ORIGIN OF STATION
501′	T-13338
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503,	11 11
504/	¥¥ \$\$
505 / 506 /	11
5067	11
507 /	 #
508	11
509 /	Ħ
510 / 511 /	37
512/	Ħ
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514'	T-13340
515 / 516 /	11
516	T-13338 ′
517 /	T-13340 -
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519°	11 11
520'	n
521′	11
522	11
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530 <	II
531	11
590/	SHINGLE, 1915
59 8 /	T-13340
599 /	CRO, 1915
5 3?	T-13339

215.

Survey DA 10-3-71 Corrections From Bar Checks

Table 11 Fathometer #919

From	To	Corrn
0.0fm 1.7	1.6fm 6.8	+0.1 +0.2
6.9	300.0	+0.3

Table 12 Fathometer #553

From	То	Corr
0.0fm	0.8fm	+0.1
0.9	2.7	+0.2
2.8	6.3	+0.3
6.4	300.0	+0.4

Survey DA 10-4-71 Corrections from Bar Checks

Table 13 From	Fathometer #553	Corrn
0.0fm	4.7fm	+0.2fm
4.8	7.2	+0.3
7.3	300.0	+0.4

Table 14 Fathometer #919

From	То	Corrn
0.0fm	7.3fm	+0.2fm
7.4	300.0	+0.3

Survey DA 10-5-71 Corrections from Bar Checks

Table 15 Fathometer #553

From	To	Corrn
0.0fm	0.5fm	+0.1fm
0.6	3.3	+0.2
3.4	6.7	+0.3
6.8	300.0	+0.4

TABLES OF CORRECTIONS TO ECHO SOUNDERS OPR 448 1971

TABLE 1 Velocity Correction for Temperature and Salinity Depth

From	To	Corrn
8.8 fm	9.9fm	0.0fm
10.0 29.1	29.0	+0.1
46.1	46.0 62.0	+0.2
62.1	78.0	+0.3 +0.4
78.i	96.0	+0.5
96.1	125.0	+0.6
125.1	177.0	+0.7
177.1	356.0	+0.8

Survey DA 10-1-71 Corrections from Barchecks

Table 2 Fathometer #142

From	То	Corrn
0.0fm 2.1 5.7	2.0fm 308.6 300.0	+0.1fm +0.2 +0.3
Table 3	Fathometer #919	
From	То	Corrn
0,0fm 1.5	1.4fm 300.0	+0.1fm +0.2
Table 4	Fathometer #1276	
From	То	Corrn
0.0fm	300.0fm	0.0fm

APPROVAL SHEET

Hydrographic Survey

DA-10-5-71

H-9217

OPR-448

Yellow Island, Summer Strait

Southeast Alaska

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

Ray E. Moses CDR. NOAA

Commanding Officer NOAA Ship DAVIDSON

APPROVAL SHEET

The smooth sheet has been inspected, is complete, and meets the requirements of the General Instructions for automated surveys and the Hydrographic Manual. (Note: All exceptions are listed in the Verifier's Report)

Examined and approved,

James S. Green

Supervisory Cartographic Technician

Approved and forwarded,

Walter F. Forster, LCDR, NOAA

Chief, Processing Division

Pacific Marine Center

Pt. Baker T. G. used for correctors

TIDE NOTE

Red Bay Entrance

Location Lat. 56° 19.5'N Long. 133° 18.2'W

Plane of Reference MLLW

Time Meridian 105°W

Type of Gage Portable Bubbler

Totem Bay

Location Lat. 56° 29.6'N Long. 133° 24.5'W

Plane of Reference MLLW

Time Meridian 105°W

Type of Gage Portable Bubbler

All records for the Totem Bay tide gage were destroyed after 29 July 1971. See Tide Gage Report OPR-448-1971.

Hourly height tapes, printouts, copies of Form 362 and a field tide note were forwarded to PMC.

Tide station reports, leveling records, marigrams and Form 362 were transmitted to Chief, Tides Branch with cover letter requesting the following to be furnished to PMC:

- 1. Verified copies of Form 362's with values entered in original record gaps.
- 2. Datum: Value of MLLW on the marigrams.
- 3. Form 712's for insertion in Descriptive Report.
- 4. Time and height relationships between gages operated in the area surveyed.
- 5. Recommended zoning for tide correctors.

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY 8/29/72

TIDE NOTE FOR HYDROGRAPHIC SHEET

Processing Division: Pacific Marine Center

Hourly heights are approved for hourly heights smooth printout

Tide Station Used (NOAA Form 77-12): Point Baker, Alaska

Period: May 3, 1971 (123-203)

HYDROGRAPHIC SHEET

OPR 448

Locality: Sumner Strait

Plane of reference (mean lower low water)= 3.5 which is 3.5 feet on tide staff.

Height of Mean High Water above Plane of Reference is 11.9 ft.

Remarks: Hourly heights have been corrected for June 8, 1971. and June 9, 1971 and are indicated on printout in red.

Chief, Tides Branch

NOAA FORM 76-155 (11-72) N	IATIONAL O	CEANIC		EPARTME! OSPHERIC				RVEY NU	MBER	
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NOAA FORM 77-27 (9-72) (PRESC BY HYDROGRAPHIC MANUAL 20-2, 8-94, 7-13)

HYDROGRAPHIC SURVEY STATISTICS HYDROGRAPHIC SURVEY NO. H-9217

HYDROGRAPHIC SURVEY NO. <u>B-9217</u>								
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DESCRIPTIVE REPORT 1			1	OVERLAYS				5
DESCRIPTION	DEPTH RECORDS	HORIZ, CONT. RECORDS	PRIN	TOUTS	TAPE ROLLS	PUNCHED	CARDS	ABSTRACTS/ SOURCE DOCUMENTS
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POSITIONS F	REVISED				85	0		
DEPTH SOUNDING	S REVISED				3ØØ	35		
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SIGNALS ERRONI	EOUSLY PLOTTED	ORTRANSFERRE	ED O			0		
				TIME (MANHOURS)				
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JUNCTIONS					5	49		
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS					18ø	40		
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ALL OTHER WORK					236	117		
TOTALS					445	220	ýg l	
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James L	Stringham	sung	lass		3/27/72 8/1/7			
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U.S. G.P.O. 1972-769-562/439 REG.#6

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REMARKS:

INITIALS

H-9217

Items for Future Presurvey Reviews

Minor differences were noted between the present and prior surveys of 1886. These differences are attributed to the less accurate control and survey methods used on the prior surveys.

Position Lat.	n Index Long.	Bottom Change Index	Use <u>Index</u>	Resurvey Cycle
562	1333	0	1	50 years
562	1334	0	1	50 years

OFFICE OF MARINE SURVEYS AND MAPS MARINE CHART DIVISION HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO. H-9217

FIELD NO. DA-10-5-71

Alaska, Summer Strait, Pt. Barrie to Totem Bay

SURVEYED: June 14 through July 1, 1971

PROJECT NO.: OPR-448 SCALE: 1:10,000

Raytheon DE-723 CONTROL: SOUNDINGS:

Visual Fixes on Shore Echo Sounders

Signals and Decca "Sea-Fix"

Chief of Party R. E. Moses Surveyed by H. W. Herz G. L. Miller S. A. Young
F. S. Paranada

Automated Plot by Gerber Digital Plotter (PMC)

Verified and Inked by j. L. Stringham

Reviewed by C. D. Meador Date: April 18, 1975

Inspected by F. B. Powers

Description of the Area

This inshore survey covers an area of Sumner Strait along Kupreanof Island from Totem Point to two miles east of Point Barrie. The southern limits closely approximate the 100fathom curve.

The shoreline is edged by intermittent rocky ledge. Numerous islands, rocky reefs, rocks awash, and foul areas exist in the offshore parts of the survey.

The bottom is irregular to the 20-fathom curve. Between the 20- and 50-fathom curves the shelf edge of Kupreanof Island is clearly visible. Beyond the 50-fathom curve, the bottom slopes more gradually to deeper depths.

The predominant bottom characteristics are mud, gravel, pebbles, stone, sponge, and shell. Kelp is found throughout the area.

2. Control and Shoreline

The origin of the control is adequately discussed in Paragraph F of the Descriptive Report.

The shoreline originates with the Class I photogrammetric manuscripts T-13338 and T-13340 of 1969-71 and the final reviewed photogrammetric manuscript T-12225 of 1961-70. Minor shoreline additions in red are by the hydrographer.

Several foreshore characteristics shown as "rocky" or "rky" on T-13338 and T-13340 were more appropriately described as boulders on the present survey smooth sheet.

3. Hydrography

- A. Depths at crossings are in good agreement.
- B. The usual depth curves are adequately delineated except in some inshore foul areas and where the foul nature of the off-lying islands, rocky reefs, and rocks awash restricted the development of hydrography. Supplemental dashed and brown curves were added and the supplemental 6-fathom curve was added to emphasize the following shoals:
- (1) A 5.9-fathom sounding in latitude 56°26.76', longitude 133°26.58'.
- (2) A 5.7-fathom sounding in latitude 56°25.21', longitude 133°30.3'.
- (3) A 5.3-fathom sounding in latitude 56°25.83', longitude 133°34.13'.
- C. The development of the bottom configuration is adequate. However, handlead soundings to determine the least depths on the following shoals would have been desirable:
- (1) A 1.7-fathom sounding in latitude 56°25.35', longitude 133°30.93'.
- (2) A 4.7-fathom sounding in latitude 56°25.36', longitude 133°33.43'.
- (3) A 5.7-fathom sounding in latitude 56°25.21', longitude 133°30.3'.

4. Condition of the Survey

The field work, sounding records, smooth plotting, sounding printouts, and the Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual supplemented by the Instruction Manual - Automated Hydrographic Surveys except as follows:

- A. The hydrographer did not describe signals located offshore of the high water line.
- B. Where soundings obscured part of the rock awash symbols, the verifier displaced the rock awash symbols rather than the soundings.
- C. The verifier did not ink the complete bottom characteristics on the smooth sheet of the present survey.

5. Junctions

Adequate junctions were effected with H-8861 (1965) on the west, and with H-9223 (1971) on the south. The junction with H-9218 (1971) on the east will be discussed in the review of that survey.

6. Comparison with Prior Surveys

A. H-1749 (1886) 1:80,000 H-1753 (1886) 1:80,000 H-1754 (1886) 1:80,000

These H-sheets constitute one complete survey and represent the only complete prior coverage of the present survey.

A comparison between the prior and present surveys indicates the bottom has remained unchanged since 1886. However, minor differences of up to two fathoms in a few sounding values exist. These differences can best be explained by the less accurate control and survey methods used on the prior survey.

The present survey is adequate to supersede these H-sheets within the common area.

B. H-3811WD (1915-16) 1:20,000 H-3812WD (1915) 1:20,000 H-3812aWD (1916) 1:20,000

Several detached soundings and areas on the above wire-drag surveys fall within the limits of the present survey. A sounding of 7.6 fathoms in latitude 56°25.02', longitude

- 133°33.12', on the present survey invalidates the effective wire-drag depth of 47 feet (7.8 fathoms) from H-3812WD in the area. Otherwise, there are no conflicts between the present depths and the effective wire-drag depths. The following soundings are carried forward in green to supplement the present survey:
- (1) A 3.3-fathom sounding in latitude 56°25.5', longitude 133°33.02', from H-3811WD.
- (2) An 8.8-fathom sounding in latitude 56°24.78', longitude 133°24.99', from H-3812WD
- (3) A 6.5-fathom sounding in latitude 56°25.2', longitude 133°27.52', from H-3812WD.
- (4) A 6-fathom sounding in latitude 56°24.56', longitude 133°29.12', from H-3812WD.
- (5) A 5.8-fathom sounding in latitude 56°25.03', longitude 133°30.95', from H-3812WD.

 (6) A 5.6-fathom sounding in lat. 56°24.98', long. 133°24.75', from H-3812 2 W.D.
- 7. Comparison with Chart 8201, 1:217,828 (latest print date 19th Ed., March 2, 1974)

A. Hydrography

The charted hydrography originates with the previously discussed prior surveys which require no further consideration, supplemented by the partial application of depths from the boat sheet (Bp. 82429) and verified smooth sheet of the present survey. Several rocks awash and ledges located on the present survey are not presently charted. In addition, items charted from the prior surveys differ with the final smooth sheet data.

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

B. Aids to Navigation

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

8. Compliance with Instructions

This survey adequately complies with the Project Instructions.

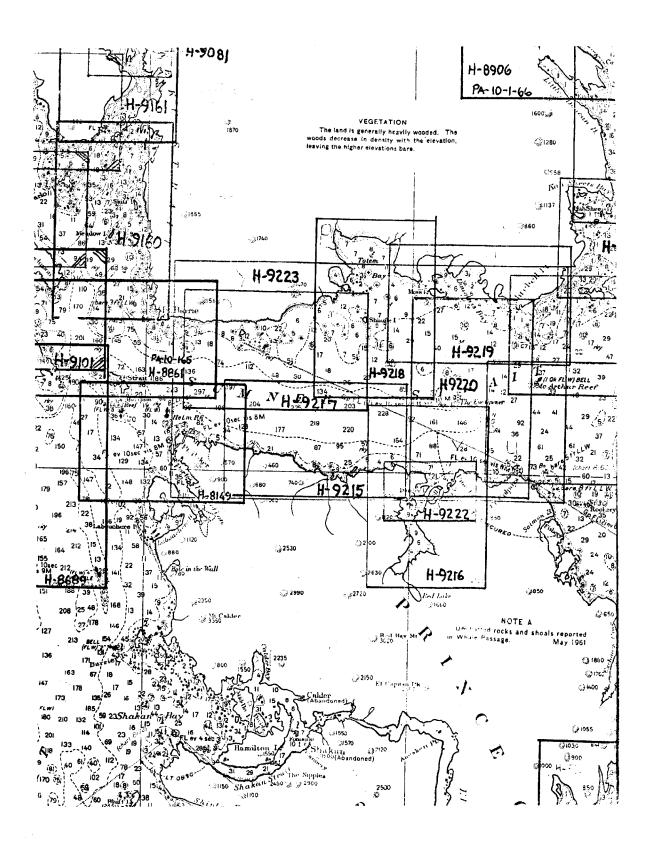
9. Additional Field Work

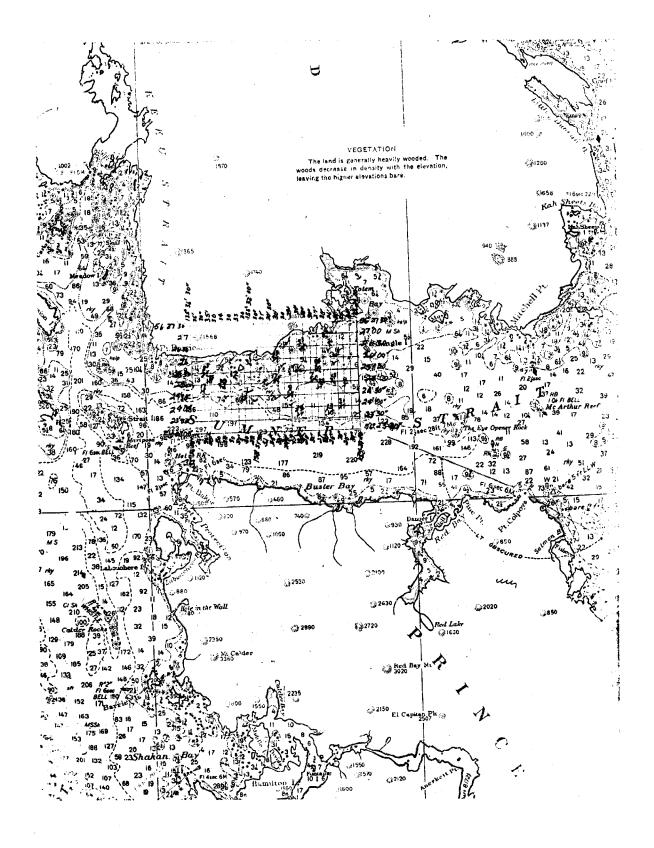
This is a good basic survey and no additional field work is recommended.

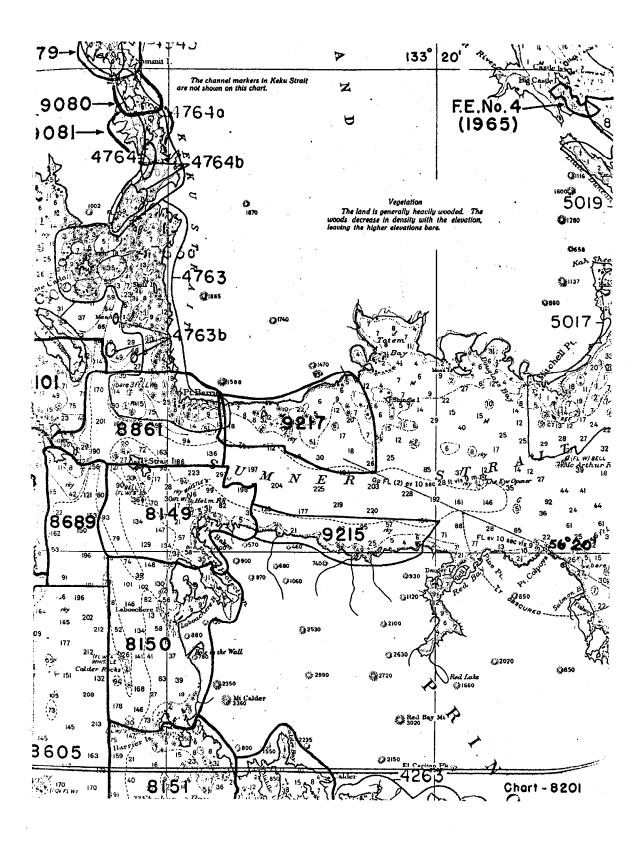
Examined and Approved:

Marine Chart Division

Office of Marine Surveys and Maps







RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. _

H-9217

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.

CHART	DATE	CABTOGRAPHER	REMARKS
8201	10/19/1	3 Janes Chal-	profit rait before After Verification Review Inspection Signed Via
· 	/	/	Drawing No. 24 applied mise conections over
	3-1-18	Heres	ages vermano
8201	3/27/78	KANIS	Part Ber After Verification Review Inspection Signed Via
			Drawing No. Examined for contral corrections
			. ب/ بده
17360	4/11/79	rector	Full Part Before After Verification Review Inspection Signed Via
			Drawing No. 28
			Full Part Before After Verification Review Inspection Signed Via
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FORM CAGS-8352 SUPERSEDES ALL EDITIONS OF FORM CAGS-975.

USCOMM-DC 8558-P63