9417

Diagram 6450-2

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. RA-40-4-74 & RA-10-1-74 Office No. H-9417						
LOCALITY						
State Washington						
General Locality . Strait of Juan De Fuca						
Locality Approach to Admiralty Inlet						
1974						
CHIEF OF PARTY						
CDR K.W. Jeffers						
LIBRARY & ARCHIVES						
DATE January 6, 1985						

Chts

☆ U.S. GOV. PRINTING OFFICE: 1978-669-441

"RECOLD OF HERAICHTION TO CHARTS"

FORM	C&GS-537
(5.36)	

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

HYDROGRAPHIC TITLE SHEET

H-9417

INSTRUCTIONS - The Hydrograph	ic Sheet	should be	accompanied	by this form,
filled in as completely as possible	e, when	the sheet i	s forwarded to	the Office.

FIELD NO.

111 COR44 110 1

filled in as completely as possible, when the sheet is forwarded to the Office.	RA-14Ø-14-714 & RA-1Ø-1-714
State Washington	
General locality Strait of Juan de Fuca	
Locality Approach to Admiralty Inlet	17-25
Scale 1:40,000 & 1:10,000 Date of surv	· •
Instructions dated 1 March 1974 Project No.	OPR-412-RA-74
Vessel NOAA Ship RAINIER	:
Chief of party CDR K. William Jeffers	
Surveyed byNOAA Ship RAINIER Personnel	•
Soundings taken by echo sounder, toward treath poster. Ross Model 5000	ð S/N's 1040, 1042 & 1046
Graphic record scaled by Ship's personnel	
	PMC Harris
Verified Exoracted by Stanley H. Otsubo Automa	
verified Soundings managed by Stanley H. Otsubo	
Soundings in fathoms 201624000 at 20142000 MLLW	
REMARKS: Time meridian: ذ	
Mean Longitude of Survey 123/50/00	
-	
Auos Sux V 19	2/13/85 55/
- March 2000	

A. PROJECT

This survey was conducted in accordance with Project Instructions: OPR-412-RA-74, dated 1 March, 1974. Also included in this survey is a large-scale development of Partridge Bank.

B. AREA SURVEYED

The general area of this survey is between Partridge Bank and Dallas Bank: Lat. 48° 10.0'N to Lat. 48° 16.0'N and Long. 122° 45.0'W to Long. 123° 00.0'W.

The special investigation included a development of Partidge Bank.

The main sheet was assigned field number RA-40-4-74, and Registry Number H-9417. The 1:10,000 development of Partridge Bank was assigned field number RA-10-1-74 only.

The survey began on 17 April, 1974 (JD 107) and was completed on 25 April, 1974 (JD 115).

C. SOUNDING VESSEL

Soundings were obtained by NOAA Ship Rainier (2120), one Unifilite launch (RA-6) and one aluminum Fairweather launch (FA-5).

D. SOUNDING EQUIPMENT AND CORRECTIONS TO ECHO SOUNDINGS

All soundings were recorded on Ross Model 5000 fathometers. Launches RA-6 and FA-5 used Ross S/N's 1040 and $\frac{1054}{1054}$, respectively. The Rainier used Ross S/N 1042.

During the operation of the Ross fathometer, the initial value on the fathogram was maintained near zero through continuous monitoring and peridodic adjustment. The fathogram was scanned continuously in the field and compared to the digitized value to agree with the fathogram.

The blanking function was employed to eliminate spurious returns, and the fathometer was internally phased and adjusted so as to have no phase corrections. Phase checks were routinely made.

Bar checks down to 7 fm. were taken routinely and the results abstracted.

 μ RA-6 used a 0.4 fm. Transducer Correction (TRA), and FA-5 , a 0.2 fm. TRA.

All applicable corrections are incorporated on a TC/TI (Transducer Correction/Table Indicator) Tape for automated processing (see appendix).

Velocity corrections were computed from bar checks and a TDC cast taken on 24 April, 1974.

The sounding equipment operated well during the survey with no noteworthy errors which would have an effect on the accuracy of the soundings. For further information on sounding corrections refer to Corrections to Echo Soundings, OPR-412-RA-74.

E. BOATSHEETS

The boatsheet's Transverse Mercator Projection and soundings were plotted by Rainier personnel using the onboard PDP/8e Complot System. The Rainier used PDP/8e S/N 1011, and a Houston Instrucment Complot DP-3 plotter, s/n 4670-4.

The Central Meridian of the projection is 123° 00.0'W Long., and the southern control latitude is 5,320,000 meters north of latitude zero. Position numbers and soundings were machine plotted. Signals were hand plotted.

Main scheme sounding lines are plotted in black ink, crosslines in red, and bottom sampled in green.

The first plot was made on 17 April, 1974 and the final plot was made on 1 May, 1974.

F. STATION CONTROL

All stations and signals used existing triangulation. See Station List in appendix for more detailed information.

G. POSITION CONTROL

The survey was controlled exclusively by Motorola Mini-Ranger (a range-range system). Mini-Ranger sites were picked to provide the strongest possible arc intersections. Almost all hydrography was accomplished with arc intersections greater than 30° and less than 150° .

The Mini-Ranger receivers were calibrated at the beginning and end of each day and the results abstracted. The calibration was accomplished by visual three-point sextent fixes on Mini-Ranger and visual signals. A mathematical solution for three-point sextent fixes was obtained by using program AM560s (with slope correction) version: 4/1/74, in the PDP/8e computer.

A special tape providing the ships heading at each position fix was made to compensate for Ross tansducer-Mini-Ranger antenna displacement as requested in the letter dated 5 March, 1974. (See appendix) The Ross transducer was located 114 feet aft of the Mini-Ranger antenna.

The Rainier used Range Console unit s/n 720 with receiver/ transmitter s/n 727. RA-6 used range console s/n 715 with R/T s/n 720. FA-5 used range console s/n 711 with R/T s/n 718.

For more information on Daily calibrations refer to appendix and Mini-Ranger Report, OPR-412-RA-74.

H. SHORELINE

Since the closest work to the shore was $\frac{1}{2}$ mile, no shoreline information is included.

I. CROSSLINES

 $\frac{\text{RA}-40-4-74}{\text{RA}-10-1-74}$: 30.5 NM or 7.5% of the 403.8 NM run. No crosslines were run on this sheet.

Crosslines show good agreement with main scheme lines.

J. JUNCTIONS

The only junctions made with contemporary surveys was between RA-40-4-74 and RA-10-1-74. The two boatsheets show excellent junction.

K. COMPARISONS WITH PRIOR SURVEYS

Prior surveys covering this area are:

Registry No.	<u>Scale</u>	Date
RA-40-4-74		tion level
н-8927	1:20,000	1967 Junctional Sur
H-8930	1:10,000	1967 Junctional surv
н-6613	1:20,000	1941
RA-10-1-74		
H-6616	1:10,0000	1941

All prior surveys show goodjunction with boatsheets. No general or detailed changes seem to have occured within the area of this survey.

L. COMPARISON WITH THE CHART

C&GS chart 6450, 21st Ed., Jan. 12, 1974 was compared to the surveys conducted in this area and no noticeable changes have occured.

M. ADEQUACY OF SURVEY

H- 9417 and RA-10-1-74 were completed and are adequate to superfede prior surveys for the intended special charting, with one exception: splits on RA-40-4-74 were unable to be completed. The area includes about $1\frac{1}{2}$ sq. miles on the extreme right hand side of the boatsheet.

All fathograms were scanned and re-checked for peaks and deeps, with any corrections applied to the master tape.

N. AIDS TO NAVIGATION

No information was obtained with regard to exesting or new aids to navigation.

O. STATISTICS

Boatsheet	NM of snd. lines	sq. mi. of hydro	Position	BS
RA-40-4-74	403.8	38.0	780	1
RA-10-1-74	88.5	4.8	559	0

RA-40-4-74

Launch	miles of snd. lines	Positions	BS
Ship	189	380	$\frac{\overline{1}}{1}$
RA-6	114.8	238⁄	ō
FA-5	100.0	162	Ö

RA-10-1-74 was surveyed by RA-6 only.

Q. RECOMMENDATIONS

Any further dredging in vicinity of survey will change the characteristics of the bottom due to its irregular bottom contours.

K. REFERENCES TO REPORT

1. Corrections to Echo Soundings, OPR-412-RA-74.

2. Mini-Ranger REport, OPR-412-RA-74.

S. DATA PROCESSING PROCEDURES

Launches RA-6 and FA-5 were equipped with a NOS Hydrolog system which when used in conjunction with program Am170, version:11/10/72 (without slope correction), allowed for all sounding data to be recorded in master tape format. The Rainier used AM100, version: 11/10/72 which enabled the ship to plot on-line. Launches RA-6 and FA-5 used program AM200, version: 3/23/73 for a sounding plot. Corrector tapes were prepared only to update Mini-Ranger calibration correctors.

Separate master and corrector tapes were prepared for each day. Standard formats as specified in the Instrction Manual, <u>Automated Hydrographic surveys</u>, were used for the TC/TI and velocity corrector tapes.

TRA corrector values and velocity table numbers shown on the Hydroplot/Hydrolog Tapes are to be ignored for processing at PMC. The correct data is listed on the TC/TI and velocity corrector tapes. All soundings were plotted with predicted tide corrections.

respectfully submitted,

arth Stroble ENS, NOAA

TC/TI TAPE LISTING
RA-40-4-74
FATHOMETER: ROSS 1042
VESSEL: 2120

212600 Ø 0003 0023 108 000000 000000 173415 Ø 0003 0023 113 000000 000000 160515 Ø 0003 0023 114 000000 000000 160516 Ø 0003 0023 115 000000 000000

109?

TC/TI TAPE LISTING
RA-40-1-74
FATHOMETER: ROSS 1040
VESSEL: 2126

202325 0 0001 0004 085 000000 000000

TC/TI TAPE LISTING RA-10-1-74 FATHOMETER: ROSS 1040 VESSEL: 2126

173646 Ø 0003 0004 107 000000 000000 203837 0 0003 0004 112 000000 000000 162045 0 0003 0004 113 000000 000000

TC/TI TAPE LISTING RA-40-4-74 FATHOMETER: ROSS 1040 VESSEL: 2126

TC/TI TAPE LISTING
RA-40-1-74
FATHOMETER: ROSS 1041
VESSEL+ 2125

a Marie compress 👰

TC/TI TAPE LISTING
RA-5-2-74
FATHOMETER: ROSS 1054
VESSEL: FA-5 (2025)

204138 0 0003 0004 112 000000 000000

TC/TI TAPE LISTING RA-10-2-74 FATHOMETER: ROSS 1054 VESSEL: FA-5 (2025)

165325 Ø ØØØ3 ØØØ4 113 ØØØØØØ ØØØØØØ

TC/TI TARE LISTING

RA-40-4-74
FATHOMETER: ROSS 1054 *
VESSEL: 2025

170249 Ø 0003 0004 109 000000 000000 162102 Ø 0003 0004 114 000000 000000 162504 Ø 0003 0004 115 000000 000000 221601 Ø 0003 0004 115 000000 000000 1162

* assume 1046 intended /

VESSEL: 2120 (SHIP RAINIER)

SHEET : RA-40-4-74

TIME		DAY		PATTERN	1	PATTERN 2
+	•-+		+		+	
212600	•	108	•	-00019	•	+00010
231500	•		•	- 00023	•	+00014
000030	•	109	•	-00023	1	+00014
*****			•		•	
173415	¥	113	•	+00004	. •	+00005
	•		*		•	
160515	•	114	•	-00002	•	+00013
205015	•		•	+00001	•	+00010
000000	•	115	•	+00001	¥	+00010
	•		•		•	
160816	•	115	ŧ	-00002	•	+00013
172930	•		•	-00005	•	+00015

VESSEL: 2126 (RA-6) SHEET : RA-10-1-74

(SPECIAL INVESTIGATION)

TIME		DAY	•	PATTERN 1		PATTERN 2
,,,,,,,,	•				•	
173646	•	109	•	+00035	•	+00014
	•		•		•	
203837	•	112	•	+00031	•	+00017
212006	•		•	+00030	•	+00013
224004	1		•	+00029	•	+00009
000006	•	113	•	+00029	•	+00009
	1		. 1		1	
162045	•	113	•	+00027	•	+00005

VESSEL: 2025 (FA-5) SHEET : RA-40-4-74

TIME		DAY		PATTERN 1		PATTERN	2
*	•		•		, +		+
170249	•	109	•	+00014	*	+00006	
162102	i	114	•	+00001	•	+00006	
162504	•	115	•	+00002	•	-00003	
173008	•		•	+00002	•	+00002	
190034	÷		•	+00002	•	+00007	-
203038	•		•	+00002	•	+00011	
	•		•		•		
221601	•	115	٠	+00003	•	+00013	
000003	•	116		+00003	•	+00013	

VESSEL : 2126 (RA-6)

SHEET : RA-40-4-74

TIME	+	DAY		PATTERN	1	PATTERN 2
	•		•			
174436	٠	107	٠	+00045	Ť	-00007
180021	٠	÷	•	+00040	•	-00002
194041	٠		•	+00036	•	+00004
212025	•		•	+00032	•	+00009
	•		•		•	
155240	٠	114	•	+00033	,	+00015
193415	•		•	+00036	•	+00011
223439	•		•	+00037	•	+00008
	*		•		•	
154228	•	115	•	+00037	•	+00011
170022	•		•	+00038	•	+00016



000110 0 0000 0003 000 000000 000000 000260 0 0001 000406 0 0002 000540 0 0003 000665 0 0004 000775 0 0005 000900 0 0006 001300 0 0007

STATION LIST H-9417 AND SPECIAL INVESTIGATIONS

STA 0	LAT	TUT	DE	LONG	TI	JDE	CRT	ELEV	F. KHZ	TYPE/NAME SOURCE
300 *	48	19	07072	122	5Ø	36787	139	0030	149835	SMITH V.I P. 1416 IS. LT. 1867-1954
										PT WILSON " P. 1432
302 *	48	25	12169	122	53	00373	139	0060	149835	LTH 1921-1954 ICEBURG 1854 P. 1414
303 6	48	08	11241	122	50	10923	139	0027	149835	MID RM2 GP COMP. **
400 × 6	48	10	54947	123	Ø 6	32297	243	0000	000000	NEW DUNGENESS LAH
401 *	48	25 2	28,105	123	13	28704	243	0000	000000	1942 V.1 P. 1813 DISCOVERY IS L#1940-1957 V. I 1814
402 6	48	13 2	29438	122	46	Ø5325	243	0000	000000	PT PARTRIDGE LT
403 *	48	24 8	29659	122	39	19100	243	0000	000000	1974 PMCFIELD PARTY DECEPTION PASS LT 1939 V. I P. 1484
404 *	48	27 (0 2954	122	57	43371	243	0000	000000	CATTLE PT LT 1940-1953
405 *	48	25	19989	122	53	34746	243	ØØØØ.	000000	V•I P•1448 ICEBERG PT LT1940 V•I P•1449
406 *	48	24	48346	122	48	38538	243	0000	000000	DAVIDSON RK LT 1935-1954

VISUAL STATIONS SHOW NO ELEVATION
* STATIONS DO NOT FALL ON BOATSHEET
** GEODETIC POSITION COMPUTATION

K

CONTROL ABSTRACT

	7	VESSEL: S	HIP RA	1-40-4-74			,
DAY	POS.	CTRL	<u>s</u> 1	<u>M</u>	<u>S</u> 2	REMARKS	•/
108	0001-90	0004	302		303	none	
113	0091-0182	0004	301		303	none	
114	0183-0334	0004	300		303	BS #214,	
115	0335-388	0004	300		303	none	
		VESSEL:	RA-6	RA-40-4-74			
107	6000-6094	0004	301		303	none	
114	6095-6195	0004	301		303	none	
115	6196-6239	0004	301		303	none	
		vessel:	RA-6	RA-10-1-74			
109	7000-7098	0004	301		303	none	
112	7099-7248	0004	301		303	none	
113	7249-7583	0004	301		303	none	
		VESSEL:	FA-5	RA-40-4-74			
109	5001-5038	0004	3021		30x3	none	1
114	5039-5164		300		303	none	
115	5175-5327		300		303	none	
	J113 J341	0004	500		J./J		

ASCII SIGNAL TAPE LISTING

300	48	19	0707	122	50	3679
301	48	08	3963	122	45	1258
302	48	25	1217	122	53	0037
303	48	Ø8	11374	122	50	1092
400	48	10	5495	123	Ø6	3230
401	48	25	2810	123	13	287Ø
402	48	13	2944	122	46	0532
403	48	24	2966	122	39	1910
404	48	27	0295			4337
405	48	25	1999	122	53	3475
406	AQ.	24	4835	122	48	3854

APPROVAL SHEET

H-9417 (RA-40-4-74) RA-10-1-74)

OPR-412-FA-RA-74

Strait of Juan de Fuca, Washington

This survey was carried out in accordance with the Hydrographic Manual, PMC OPORDER, and the Instruction Manual for Automated Hydrographic Surveys. The boatsheet and data were examined daily for completeness and accuracy.

This sheet is considered complete and adequate for the special charting purposes of the survey.

X. William Jeffers Commander, NOAA

CO, RAINIER



U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL OCEAN SURVEY Pacific Marine Center

Date : 5 March 1974

Reply to Attn. of: CPM32

: Commanding Officer

NOAA Ship RAINTER

Chief, Processing Division

Subject: Ross Transducer--Mini-Ranger Antenna Displacement, OPR-412

The EDP Branch will be able to compensate for Ross transducer -- Mini-Renger antenna displacement using computer procedures. This is a temporary solution and must only be used for this project (OPR-412). Data Processing will require a special tape to be logged providing the ship's heading at each position fix.

This tape shall be logged in the following format, using an ASI or similar data logger in ASCII code. One word is to be logged for each fix word on the HYDROPLOT master tape.

Format: HHMMSS O OHDG FIXN DAY 000000 000000

Where: HHMMSS is the time of the fix word

is the ship's heading in degrees OHDG

is the fix number of the position FIXN

is the Julian day number

All unused fields and the leading character of the heading field are to be zeros.

Include a copy of this memorandum in the Descriptive Report. COURSE NISSO ONLY BE LOGICIES UPON AMKING COURSE CHOUGHE -TIXA TO BE LOGIGIED WITH NEW COURSE -'IIIMMSS WILL BE CONTROLING FRE MERGING ENMY TO MERGING WITH AT POST.

7. CH 0.7 10. RET TO --

The man who was to send to My problem & Aron.



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration

GREEN J

Date: April 24, 1975

Reply to Attn of:

C323

Subject: Replotting Survey H-9417

Chief, Processing Division (CPM3)

In reviewing survey H-9417, Strait of Juan de Fuca, disagreements with prior surveys were revealed. An examination of the tide corrector printout for H-9417 indicates that errors in the tide correctors exist. A value of 7.7 feet has been used instead of 3.1 feet for the value of the plane of reference (MLLW) at Port Townsend in computing tide correctors for H-9417. See tide note for hydrographic sheet.

The smooth plot, boat sheet, overlays, descriptive report, and all records are being returned for correcting the reduction of soundings and replotting the survey.

The priority for this survey remains as originally established.

Richard H. Houlder

Chief, Marine Chart Division

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, Cdr., NOAA Chief, Processing Division

Pacific Marine Center

TIDE NOTE

RA-40-4-74 RA-10-1-74 RA-10-2-74 RA-5-1-74

It is recommended that the tide station at Smith Island, Washington, latitude 48 19.05'N., longitude 122 50.25'W., be used to control the soundings on surveys RA-40-4-74, RA-10-1-74, and RA-10-2-74. Due to improper operation of the gage at Smith Island, a number of hourly tidal heights were not recorded. If tidal information must be obtained elsewhere, the station at Port Townsend, Washington, latitude 46 06.9'N., longitude 122 45.0'W., should be used for surveys RA-40-4-74 and RA-10-1-74. The alternate tidal information for the survey RA-10-2-74 should be obtained from the station at Mosquito Pass, Washington, latitude 48 34.8'N., longitude 123 10.3'W. It is recommended that the tide station at Reservation Bay, Washington, latitude 48 24.9'N., longitude 122 39.1'W., be used to control the soundings on survey RA-5-2-74. The gages operated on Greenich Mean Time. Hourly heights from the Smith Island Station will be furnished by the ship to PMC Processing Division. Hourly heights from the stations at Port Townsend and Mosquito Pass will be furnished to PMC by the tide station observers. Reduction to MLLW and copies of the marigrams will be furnished by Tides Division, Rockville.

Predicted tides for boatsheet control were obtained from the Tide

Tables, 1974, West Coast of North and South America, using the Port Townsend
substation.

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

TIDE NOTE FOR HYDROGRAPHIC SHEET

Processing Division: Pacific Marine Center:

Hourly heights are approved for Form 362

Tide Station Used (NOAA Form 77-12): Smith Island Port Townsend

Period: April 1, 1974

HYDROGRAPHIC SHEET: H9417

OPR: 412

Locality: Strait of Juan De Fuca

0.9 (Smith Island)

Plane of reference (mean lower low water): 3.1 (Port Townsend)

Height of Mean High Water above Plane of Reference is 7.7 Port Townsend

6.4 Smith

Recommended Zoning: Remarks:

Island

(1) Hydro north of Smith Island, direct on Smith Island Gage.

Correction on Port Townsend

 $\sqrt{(1)123^{\circ}00 - 122^{\circ}55'}$ v/(2)122°55'- 122°50' East of 122050

x0.87 Range _ 30 min.

x0.87 Range - 15 min.

a. 48°16' - 48°14' apply range ratio x0.87

(3) 6. 48°14' - 48°12' apply range ratio x0.92

(4) /c. From 48°12' south to Admiralty Inlet - Zone direct on Port Townsend

Johns R Hulland La Chief, Tides Branch

GEOGRAPHIC NAMES Survey No.	. /	Crair Crair	OF NO OF	Net lasts	or total tro	Orico Had	O Guide of	Asora Wenglin	N. S. Taki	<i>y</i> /
Name on Survey	A	5 % O	C 40 Q	D	E	or F	, G	23° H	S. K	
DALLAS BANK										1
DEDICHNESS.								,		2
MIDDLE IP	<u> </u>			*						3
PARTRIDGE BANK /										4
PT WILSON										5
ADMIRALTY JULET	,								,	6
McCURDY POINTY										7
POINT PARTRIDGE J										8
PROTECTION JSCAND										9
STRAIT OF JUAN DE FUCA	/									10
										11
										12
										13
	v * .									14
	·									15
										16
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	. ,									18
										19
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					Apr	roved				21
					ر ال		tarin			22
					Stat	f Ge	i	4		23
	,					eb.	1975			24
										25
										26
		-							1	1

ACTOR MALE

HYDROGRAPHIC SURVEY STATISTICS HYDROGRAPHIC SURVEY NO. <u>H-9417</u>

RECORDS ACCOMPANYING SURVEY: To be completed when survey is registered.

RECOR	D DESCRIPTION		АМО	UNT		RECORD DESCR	RIPTION	AMOUNT	
SMOOTH SHEET & PNO + 3			1		BOAT SHEETS			2	
DESCRIPTIVE RE	PORT		1		OVERL	AYS		5 _{11 1/2}	
DESCRIPTION	DEPTH RECORDS	HORIZ.		PRINT	routs	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS	
ENVELOPES				1					
CAHIERS	1 & Misc.	Data		7	x				
VOLUMES								ļ	
BOXES									

T-SHEET PRINTS (List)

NONE

SPECIAL REPORTS (List)

OFFICE PROCESSING ACTIVITIES

The following statistics will be submitted with the cartagrapher's report on the survey

		AMOL	INTS		
PROCESSING ACTIVITY	PRE- VERIFICATION	VERIFICATION	REVIEW	TOTALS	
POSITIONS ON SHEET					
POSITIONS CHECKED		1497	1497		
POSITIONS REVISED		7	ρ		
DEPTH SOUNDINGS REVISED		26ø	27		
DEPTH SOUNDINGS ERRONEOUSLY SPACED					
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED					
	TIME (MANHOURS)				
Verification of Control		2	2		
Verification of Positions		13 201 -132	.6		
Verification of Soundings		132	6		
Smooth Sheet Compilation		105			
ALL OTHER WORK			54		
TOTALS		3/8 -199	68		
PRE-VERIFICATION BY	and the second second	BEGINNING DATE	ENDING	DATE	
VERIFICATION OF THE		BEGINNING DATE		EN 2 1976	
Stanley/H. Otsubo/		June 17, 19		DOI 13, 1974	
Juna Juna	··	9 Apr 76		Apr 76	

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

DATE	TIME HEQ'D . INITIALS .
REMARKS:	
•	
	Reg. No.
The magnetic t	tape containing the data for this survey corrected to reflect the changes made
during evaluat	tion and review.
When the magne	etic tape has been updated to reflect the of the survey, the following shall be
completed:	MAGNETIC TAPE CORRECTED
DATE	TIME REQ'D. INITIALS
REMARKS:	

H-9417
Information for Future Presurvey Reviews

This is an area of stable bottom.

Position Lat.	on Index Long.	Bottom Change Index	Use <u>Index</u>	Resurvey Cycle
481	1230	1	6	50 years
481	1225	1	6	50 years

OFFICE OF MARINE SURVEYS AND MAPS

MARINE SURVEYS DIVISION

MODIFIED HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO. H-9417

FIELD NO. RA-40-4-74 RA-10-1-74

Washington, Strait of Juan de Fuca, Approach to Admiralty Inlet

SURVEYED: April 17-25, 1974

SCALE: 1:40,000 and 1:10,000

PROJECT NO.: OPR-412

SOUNDINGS: Ross Fineline Depth Recorder

Model 5000

CONTROL: Mini-Ranger (Range-Range Mode)

3-

Chief of Party K. W. Jeffers Surveyed by Ship's Officers

Automated Plot by Harris Xynetics Plotter (PMC)

Verified by S. H. Otsubo Reviewed by L. Quinlan

Date: April 29, 1976

Cursory inspection made--survey G. K. Myers processing considered complete May 14, 1976

1. Control and Shoreline

The origin of the control is adequately covered in part F of the Descriptive Report.

There is no shoreline within the limits of this survey.

2. Hydrography

- A. Depth curves at crossings are in good agreement.
- B. The standard depth curves are adequately delineated.
- C. The development of the bottom configuration and determination of least depths are considered adequate.

3. Condition of the Survey

A. The sounding records and smooth plotting conform to the requirements of the Hydrographic Manual and the Instruction Manual for Automated Hydrographic Surveys.

- B. The following records were not inserted in the Descriptive Report as prescribed by requirements of the Automated Hydrographic Manual, revised October 1968:
 - (1) Parameters for Digital Computing Polyconic Projections (Form #1).
- (2) Computer Parameters for Electronically Controlled Surveys (Form #3).
 - (3) Reference of Hydrographic Data buoys and bottom characteristics.
- (4) The Descriptive Report Data Record of the smooth sheet preparation was not completed.
- C. An insufficient number of bottom characteristics were obtained in the field.

4. Junctions

Adequate junctions have been effected with H-6653 (1941) on the west; and H-8927 (1967) and H-8930 (1967) on the southwest. The present survey should be used to supplement the following surveys: H-6613 (1940-41) on the northwest, H-6614 (1940-41) on the northeast, and H-6817 (1940-41) on the southeast. A partial butt junction was effected with H-6616 (1940-41) on the northeast because of extensive overlap between the two surveys.

5. Comparison with Prior Surveys

H-6612 (1940-41) 1:20,000

This survey covers most of the present survey area. There are no significant differences between prior and present depths except on some bottom irregularities which were not investigated on the present survey. The prior least depths and a few bottom characteristics have been carried forward.

With these additions, the present survey is adequate to supersede the prior survey in the common area.

 Comparison with Chart 6450 (18441), 23rd Ed., December 6, 1975 184SC (18423), 15th Ed., March 1, 1975

A. Hydrography

The charted hydrography originates with the previously discussed prior survey which requires no further consideration supplemented by Notice

to Mariners. Present hydrography is also supplemented by the following early surveys: H-8927 (1967), H-8930 (1967), H-6817 (1942-43), H-6614 (1940-41), H-6616 (1940-41), and H-6613 (1940-41). These prior soundings are considered reliable depths and should be retained on the chart.

The non-dangerous submerged wreck, charted at latitude 48°11.62', longitude 122°46.6', originating with Notice to Mariners 36/69 was neither proved nor disproved by the present survey. This wreck should be retained on the chart.

Except as noted in the aforementioned reference, the present survey is adequate to supersede the charted hydrography in the common area.

B. Aids to Navigation

The navigational aids adequately mark the features intended.

7. Compliance with Instructions

This survey adequately complies with the Project Instructions.

8. Additional Field Work

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

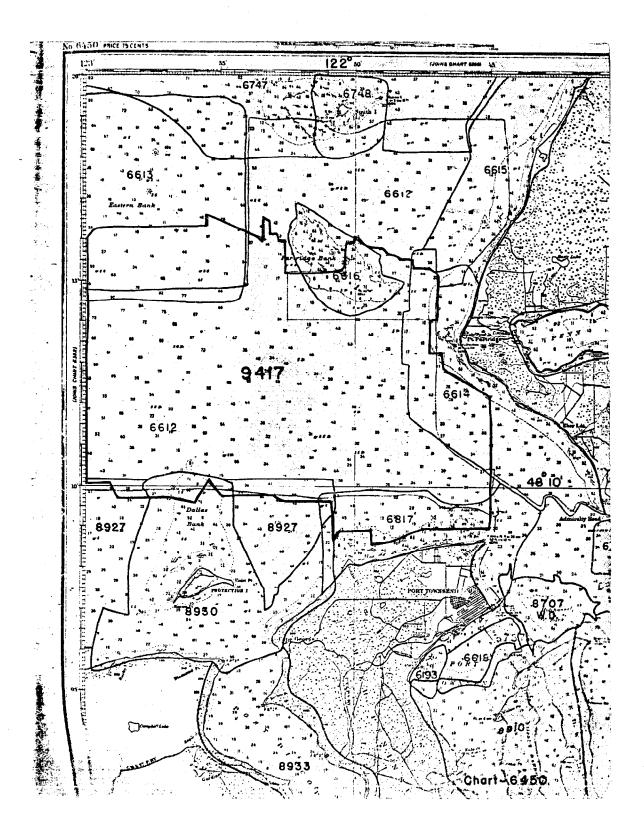
Examined and Approved:

Marine Surveys Division

Hydrographic Surveys Branch

Office of Marine Surveys and Maps

Chief Nautical Charting Division



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.

CHART	DATE	CARTOGRAPHER	REMARKS
18467	4/11/79	R.a. Lillis	Full Part Before After Verification Review Inspection Signed Via
			Drawing No. 12 4/13/79 RCS
		0 - 1.00.	
1844)	9/18/79	R.a. Zillis	Full Part Before After Verification Review Inspection Signed Via
			Drawing No. 49 10/12/79 pcs
9423	9/18/29	R.a. Lellis	Full Para Before After Verification Review Inspection Signed Via
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