

9038

Diag. Cht. No. 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. **DA-10-3-69**
Office No. **E-9038**

LOCALITY

State **Washington**
General Locality **Hood Canal**
Locality **Dabob Bay - Quilcena Bay**

1969

CHIEF OF PARTY
R. E. Moses

LIBRARY & ARCHIVES

DATE **9-21-72**

9038

HYDROGRAPHIC TITLE SHEET

H-9038

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-10-3-69
H-9038 (1969)

State Washington

General locality Hood Canal
~~Western Washington Puget Sound~~

Locality Dabob Bay - Quilcene Bay

Scale 1:10,000 Date of survey 20 Mar - 15 Apr, 1969

Instructions dated 17 December, 1969 Project No. OPR-412

Vessel Ship DAVIDSON, Launch II (1196), 17' Whaler (WZ 304I)

Chief of party CDR Ray E. Moses

Surveyed by K.A. Domoto, G.H. Endrud, B.W. Fisher, G.F. Tornberg

Soundings taken by echo sounder, ~~and track plotter~~ Raytheon DE-723, Nos. 1276, 214, 919, 1286

Graphic record scaled by Ship's Personnel

Graphic record checked by Ship's Officers

Pos. Verified by C.R. Lehman

Protracted by G.F. Tornberg Automated plot by PMC - Gerber
verified by Digital Plotter

Soundings ~~protracted~~ by C. R. Lehman

Soundings in fathoms ~~from~~ at ~~MLLW~~ MLLW

REMARKS:

Applied to steds 11/2/72
[Signature]

DESCRIPTIVE REPORT

To Accompany

Hydrographic Survey H-9038 DA-10-3-69
H-9038 (1969)

OPR-412 Washington

Scale 1:10,000

USC&GSS DAVIDSON

Ray E. Moses

CDR, USESSA

Commanding Officer

1969

DESCRIPTIVE REPORT

DA-10-3-69 H-9038 (1969)

A. PROJECT

This survey was accomplished according to Project Instructions: OFR-412, HOOD CANAL, DABOB BAY, AND ELLIOTT BAY, WASHINGTON, dated 17 December, 1968 and ✓ the following supplements:

Change No. 1: Amendment to Instructions 31 Jan. 1969

Change No. 2: Supplement to Instructions 20 Feb. 1969

Change No. 3: Supplement to Instructions 13 Mar. 1969

B. AREA SURVEYED

The survey covered the area of upper Dabob Bay and ✓ Quilcene Bay, Washington, between the latitudes: $47^{\circ} 44' 45''$ and $47^{\circ} 51' 00''$, and longitudes: $122^{\circ} 47' 00''$ and $122^{\circ} 52' 00''$.

Work was accomplished between 20 March and 15 April, 1969.

The survey makes a junction with the following sheet:

DA-10-1-69 H-9035 Contemporary survey
H-9035 (1969)

C. SOUNDING VESSEL

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

<u>VESSEL</u>	<u>POSITION NUMBER</u>	<u>COLOR</u>
Launch II (1196)		Green ✓
17' Whaler (WZ 3041)		Orange

A summary of each vessel's work by position number is ✓
attached.

Bottom samples were taken by the Ship DAVIDSON shown ^(on boat sheet) in
blue and by the University of Washington shown in brown. ✓

D. SOUNDING EQUIPMENT

Raytheon DE-723 fathometers were used: ✓

Launch II	# 1276, # 214
17' Whaler	# 919
Ship DAVIDSON	# 1286

Echo sounder corrections were determined from bar
checks taken daily by the launches and sounding machine
comparisons obtained by the ship. Launch and whaler
fathometers were initialed at zero, requiring draft
corrections for their soundings. The ship's fathometer
was initialed at the ship's draft. All soundings are
in fathoms.

In some cases, traces on the "C" scale are poor due to ✓
a thick layer of mud and silt. In such cases, the least
depth was used.

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 angles. An abstract of signals and manuscripts is included in the appendix.

G. SHORELINE

Shoreline 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 Report, Hood Canal & Dabob Bay, Washington, March-April 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 5.4% (12.4 miles). There is good agreement at crossings.

I. JUNCTIONS

Junction was made with the following sheet:

DA-10-1-69	H-9035	Contemporary survey
H-9035(1969)		

There is good agreement at the junction.

J. COMPARISON WITH PRIOR SURVEYS

There are seven (7) areas of investigation from the pre-survey review:

- (1) Area #11 (Lat. $47^{\circ} 48.8'$ ⁷, Long. $122^{\circ} 52.0'$)

The location of the remains of an old logging railroad trestle is correct as shown on the photographs. Southeast corner is position #8070, Volume XI, page 26. ~~(#11)~~
**Apparently submerged remains continuing about 50 meters farther south of this position.*

- (2) Area #12 (Lat. $47^{\circ} 48.1'$, Long. $122^{\circ} 51.95'$)

Depths were determined in the Quilcene Boat Haven--positions 8082-8084, Volume XI, page 30. *(Two Soundings.)*

- (3) Area #13 *(partial)*

The north end of Quilcene Bay is very shallow with various pilings and bulkheads. These items have been verified in the Field Edit Report--Hood Canal-Dabob Bay, Washington, March-April 1969. *positions of the* Pilings at Lat. $47^{\circ} 48.9'$ and Long. $122^{\circ} 51.1'$ are given in Volume I, Page 29, positions 9014-9016. *Should be charted in accordance with the present survey.*

- (4) Area #14 (Lat. $47^{\circ} 46.95'$, Long. $122^{\circ} 49.91'$)

No rock was found in this area. Retain this rock awash. See Review
No record of investigation found. Par 6A

- (5) Area #15 (Lat. $47^{\circ} 47.38'$, Long. $122^{\circ} 49.2'$)

has been deleted from the chart
 There is no dolphin at this location. The southern dolphin was used as a triangulation signal (#219) and is in good condition.

- (6) Area #16 (Lat. $47^{\circ} 48.7'$, Long. $122^{\circ} 49.08'$)

The location of these dolphins were verified--positions 9017, 9018, and 9021 in Volume I, pages 29-30, and hydrographic signal #224. 9017 (S. pile), 9018 (N. pile), 9021 is Dol. *Should be charted as shown on present survey.*

- (7) Area #17 (Lat. $47^{\circ} 48.9'$, Long. $122^{\circ} 47.7'$)

There are no pier ruins at this location.
Recommend pier ruins be deleted from the chart.

K. COMPARISON WITH THE CHART

Comparison of soundings and depth curves with C&GS chart

#6422, 4th edition, 10 June 1968, is very good.

L. ADEQUACY OF SURVEY

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

M. AIDS TO NAVIGATION

There are two (2) navigational aids on this survey: ✓

<u>Lat.</u>	<u>Long.</u>	<u>Name</u>	<u>Characteristic</u>
47°44.8'	122°48.55'	Tabook Point Light	Fl 4sec 15ft
47°44.8'	122°51.10'	Pulali Point Light	Fl 4sec 30ft

Characteristics of these lights were not verified. There are also two (2) warning lights used by the Navy when the torpedo range is being used:

47°45.7'	122°51.0'	Whitney Pt. Warning Light	✓
47°47.2'	122°49.3'	Dabob Bay Dol. Antenna Warning Light	

These lights have the following characteristics:

Fl Green	Caution
Fl Red	Range in use

A Navy maintained special purpose buoy (orange-white) ✓ with radar reflectors is located at Lat. 47° 47.6', Long. 122° 48.4', position #8329 in Volume 13, page 48. Numerous spherical orange mooring buoys used by the Navy are located in various locations depending on their operations.

The restricted area off Whitney Point is still in effect. ✓

Refer also to the separate report on Landmarks for Charts & Fixed Aids to Navigation for OPR-412.

N. STATISTICS

	<u>Number of Positions</u>	<u>Nautical Miles Sounding Lines</u>	<u>Bottom Samples</u> ✓
Launch II (1196)	2036	212.6	0
17' Whaler (WZ 3041)	479	24.5	0
Ship DAVIDSON	14	0.0	14
Univ. of Washington	24	0.0	24
	2553		

The total area surveyed is 9.9 square nautical miles. There are fourteen (14) volumes with this survey. Positions have been made up for the University of Washington bottom samples which were taken off graphically from the University's boat sheet. These positions are included with the bottom samples taken by the Ship DAVIDSON in Volume I.

The tide station used for this sheet is the Whitney Point Tide Gauge on time meridian 120° W. The soundings on the boat sheet were reduced using predicted tides for Zelatched Point.

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.

Separate position and sounding tapes have been made for minus soundings and zero soundings.

P. RECOMMENDATIONS

There are no recommendations for this boat sheet. ✓

Q. REFERENCES TO REPORTS ✓

Corrections to Echo Soundings-OPR 412
(forwarded with this report)

Field Edit Report-OPR 412
(forwarded to CFS 3, 7 June, 1969, transmittal
letter no. DA-31-69)

Geographic Names Report-OPR 412
(forwarded with this report)

Landmarks Report-OPR 412
(forwarded with this report)

Respectfully submitted,

Gordon F. Tornberg

Gordon F. Tornberg
LTJG, USESSA

APPROVAL SHEET

OPR-412

DA-10-3-69 H-9038 (1969)

H-9038

Hood Canal-Dabob Bay

Washington

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

Ray E. Moses
Ray E. Moses
CDR, USESSA
Commanding Officer
USC&GSS DAVIDSON

ABSTRACT OF CORRECTIONS TO ECHO SOUNDERS

In all corrections, Table 2 refers to Launch II 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)

<u>Launch II</u> <u>Sounding</u>	<u>Corr'n</u>	<u>Whaler</u> <u>Sounding</u>	<u>Corr'n</u>
2.7	+0.2	1.4	+0.3
5.4	+0.3	15.5	+0.2
9.8	+0.4	21.1	+0.1
14.4	+0.3	42.5	0.0
21.7	+0.2	200.0	+0.1
42.4	+0.1		
200.0	+0.2		

* Includes draft correction--see special report on Velocity Corrections - OPR-412

Fathometer Initial Correction (Fathoms)

<u>Launch II</u>			<u>Whaler</u>		
<u>Day</u>	<u>Time</u>	<u>Corr'n</u>	<u>Day</u>	<u>Time</u>	<u>Corr'n</u>
079	080000	0.0	100	080000	0.0
080	080000	0.0	104	080000	0.0
	130830	-0.2		105900	-0.1
085	080000	0.0		110200	0.0
	115830	+0.1		112000	+0.2
	171615	0.0		112900	0.0
086	080000	0.0		130300	+0.1
087	080000	0.0		130800	0.0
092	080000	0.0	105	080000	0.0

Launch II

<u>Day</u>	<u>Time</u>	<u>Corr'n</u>
	144100	+ 0.1
093	080000	0.0
	111000	+ 0.1
	111230	+ 0.2
	142615	0.0
	144330	+ 0.1
097	080000	0.0
098	080000	0.0
099	080000	0.0
100	080000	0.0
101	080000	0.0
105	080000	0.0

All times are 120° W.

Also refer to special report Corrections to Echo Soundings--
OPR-412.

Note: These positions should not be used for charting. See smooth sheet for final positions.

LIST OF OBSTRUCTIONS

<u>Item</u>	<u>Pos.</u>	<u>Vol.</u>	<u>Page</u>	<u>Approx. Lat.</u>	<u>Approx. Long.</u>	
Filing ✓	9014	1	29	47 48.9	122 51.1	
Filing ✓	9015	1	29	47 48.9	122 51.1	N. Gillcree Bay
Filing ✓	9016	1	29	47 48.9	122 51.1	
Filing	9017	1	29	47 48.7	122 49.1	S. pile of (4)
Filing	9018	1	29	47 48.7	122 49.1	1st pile S. of Sta 224
Buoy	9019	1	30	47 48.9	122 49.2	S. Buoy of (4)
Buoy	9020	1	30	47 48.9	122 49.2	N. Buoy of (4)
Dolphin	9021	1	30	47 48.8	122 49.2	Dol. S. (4) Buoy
Rock	8000	11	4	47 44.9	122 51.0	✓ * (9) N. 202 just off shore
Log	8006	11	6	47 45.0	122 50.9	Log (dead head) N. of above RK.
Govt. tide staff ✓	8015	11	9	47 45.6	122 50.9	Just above (203)
Whitney Pt. pier	8021	11	11	47 45.7	122 51.0	depth 2 1/2 just off pier, above tide gage.
Whitney Pt. pier	8022	11	11	47 45.7	122 51.0	
Filing	8037	11	15	47 45.7	122 51.1	Pile just off point of Spit.
Trestle	8070	11	26	47 47.6	122 52.1	loc. of off Sta 208
Jetty	8081	11	30	47 48.1	122 51.9	N. of Boat Haven - (Gillcree)
Rock	8196	11	65	47 47.1	122 51.0	* (4) N. of Fishermen's Pt
Rocks	8201	11	67	47 46.8	122 51.1	* (6) 2 Rks off Fish. Pt
Rock	1951	12	26	47 49.7	122 48.1	* NW. Sta (2) # 230
Rock (Red Bluff) ^{off}	8235	13	16	47 46.8	122 50.3	* (7) RK off Bid beach
Radio Antenna ✓	8254	13	23	47 47.4	122 49.2	Land Marker above Sta 220
Rock	8260	13	26	47 47.8	122 49.1	* (8) above Sta 221
Wreckage	8280	13	32	47 48.9	122 49.3	inshore of 4 Buys Sta 224
Rock South of Sta 226	8289	13	36	47 49.4	122 49.4	* (9) just off shore
Navy buoy	8329	13	48	47 47.6	122 48.4	Ra. ref. entrance N-Arm of Dabob Bay

LIST OF STATIONS ON DA-10-3-69 H-9038 (1969)

<u>Signal No.</u>	<u>Origin of Station</u>
201	PULALI 2 No 1, 1961
202	USN, South Askania--White dome 1969 ✓
203	✓USN, M-16--White dome - 1969 1969 ✓
204	T-12251 ✓
206	T-12251 ✓
207	T-12251 ✓
208	T-12251 ✓
210	T-12251 ✓
211	Vol. 1, pgs. 3,4,6,8,11 ✓
212	T-12246 ✓
213	T-12246 ✓
214	T-12246 ✓
215	Vol. 1, pgs. 3,4,7 ✓
216	Vol. 1, pgs. 4,7 ✓
217	Vol. 1, pgs 6,7,14,16 ✓
219	DABOB BAY DOLPHIN ANTENNA, 1961 ✓
220	Vol. 1, pgs. 13,14,15 ✓
221	Vol. 1, pgs. 13,14,15,16 ✓
223	Vol. 1, pgs. 11,12,13 ✓
224	Vol. 1, pgs. 12,13 ✓
226	Vol. 1, pgs. 12,13 ✓
227	T-12246 ✓
228	T-12247 ✓
229	LONGSPIT 2, 1955 ✓
230	Vol. 1, pgs. 12,13,14 ✓
231	GRASS 2, 1955 ✓
232	T-12252 ✓
233	Vol. 1, pgs. 13,15,16 ✓
234	TONGUE 2, 1961 ✓
236	FULTON, 1955 ✓
237	TABOOK 2 (USN), 1961 ✓ /

H-9038 (1969)

LIST OF MANUSCRIPTS

T-12246 ✓
T-12247 ✓
T-12251 ✓
T-12252 ✓
T-12256 ✓
T-12257 ✓

ABSTRACT OF POSITIONS

<u>Day</u>	<u>Launch II</u>	<u>Whaler</u>	<u>DAVIDSON</u>	<u>Univ of Wash</u>
079	0001-0097			
080	0098-0230			
084		9000-9021		
085	0231-0506			
086	0507-0732			
087	0733-0864			
092	0865-0930			
093	0931-1087			
097	1088-1262			
098	1263-1474			
099	1475-1672			
100	1673-1877	8000-8201	5000-5013	
101	1878-1957			
104		8202-8329		
105	1958-2036	8330-8456		
**				7013-7025
**				7030-7034
**				7040-7045

** Positions made up for University of Washington bottom samples.

VISUAL HYDRO SIGNAL CORRECTION

DA-10-3-69 H-9038 (1969)
#-9038
OPR 412
SHEET A
EDIT 31019

USC&GSS DAVIDSON

214 47 48 1459 122 50 1004 214

correction made 11-18-69 JH

H.S.O. ck

APPENDIX

- A-1 TIDE NOTES
- A-2 TIDE NOTES FOR HYDROGRAPHIC SHEET
- A-3 GEOGRAPHIC NAME LIST
- A-3 Form #1
- A-4 TRIANGULATION STATIONS
- A-5 ~~BOAT SHEET LAYOUT~~ TRIANGULATION PLOTTER CARDS
- A-6 ABSTRACT OF CORRECTIONS TO ECHO SOUNDERS
- A-8 LIST OF OBSTRUCTIONS
- A-9 LIST OF STATIONS ON DA-10-3-69 H-9038 (1969)
- A-10 LIST OF MANUSCRIPTS
- A-11 DUAL INDICATOR POSITION-SOUNDING TAPE
- A-12 ABSTRACT OF POSITIONS

TIDE NOTES

The tide station used for this survey was the Whitney ✓
Point gauge.

Location:	Lat. 47°45'44" Long. 122°51'03"
Plane of Reference:	MLLW
Time Meridian:	120° W
Type of gauge:	Portable Bubbler

The tide height data were corrected for differences in time and height. MLLW was 2.1 ft. on the staff during February 19-March 18 and 5.0 ft. on the staff thereafter due to the staff being lowered.

Tide tape printout is filed with the field records.

VISUAL HYDRO SIGNAL CONTROL DATA

DA-10-3-69

OPR-412

USC&GSS DAVIDSON

31019

201	47	44	0508	122	51	0075	201
202	47	44	1510	122	51	0133	202
203	47	45	1074	122	50	1167	203
204	47	45	1303	122	50	1217	204
206	47	46	1479	122	51	1086	206
207	47	47	0424	122	51	1205	207
208	47	47	1276	122	52	0083	208
210	47	48	0546	122	52	0069	210
211	47	48	0935	122	51	1210	211
212	47	49	1577	122	51	0289	212
213	47	49	0985	122	51	0053	213
214	47	49	1459	122	50	1104	214
215	47	47	1384	122	50	1138	215
216	47	47	0000	122	51	0189	216
217	47	46	1555	122	50	1102	217
219	47	47	0414	122	49	0353	219
220	47	47	0644	122	49	0456	220
221	47	47	0930	122	49	0320	221
223	47	48	1175	122	48	1083	223
224	47	49	1573	122	49	0172	224
226	47	49	1282	122	49	0288	226
227	47	50	0443	122	49	0275	227
228	47	50	1141	122	48	1140	228
229	47	50	0423	122	48	0438	229
230	47	49	1276	122	47	1093	230
231	47	48	1467	122	47	0805	231
232	47	48	1152	122	47	0671	232
233	47	47	1119	122	47	0280	233
234	47	46	0770	122	47	0836	234
235	47	45	0299	122	49	0271	236
237	47	44	1472	122	48	0644	237

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,

Cornelius A. J. Pauw
for: William M. Martin
Supervisory Carto. Tech.

Approved and Forwarded,

Walter L. Bradley, CDR, NOAA
Chief, Processing Division
Pacific Marine Center

TIDE NOTE FOR HYDROGRAPHIC SHEET

November 6, 1969

~~Newport Chart Division:~~ C. O., USC&GSS DAVIDSON

Plane of reference approved ~~XXXXXX~~ for tide tape printout

HYDROGRAPHIC SHEET 9038

Locality: Dabob Bay, Washington

~~Observe Run:~~ Year: 1969

Plane of reference is mean lower low water

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

Whitney Point, Dabob Bay, Washington

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

10.3 feet

Remarks


Chief, Tides and Currents Branch

GEOGRAPHIC NAMES

Survey No. H-9038

Name on Survey	Source of Name										
	A	B	C	D	E	F	G	H	K		
Big Quilcene River ✓											1
Bolton Peninsula ✓											2
Broad Spit ✓											3
Camp Discovery ✓											4
Camp Harmony ✓											5
Dabob Bay ✓											6
East Quilcene ✓											7
Fishermans Point ✓											8
Frenchmans Point ✓											9
Little Quilcene River ✓											10
Long Spit ✓											11
Quilcene Bay ✓											12
Quilcene Boat Harbor ^{Haven} ✓											13
Red Bluff ✓											14
Tabook Point ✓											15
Tarboo Bay ✓											16
Toandos Peninsula ✓											17
Whitney Point ✓											18
											19
											20
											21
APPROVED BY											22
<i>A. Joseph Wrought</i>											23
CHIEF GEOGRAPHER											24
											25
											26
											27

PREPARED BY

Chas. E. Harrington

CARTOGRAPHER

FORM C&G-946
(REV. 11-65)
(PRESC. BY
HYDROGRAPHIC
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. H-9038

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

RECORD DESCRIPTION		AMOUNT	RECORD DESCRIPTION		AMOUNT	
SMOOTH SHEET & PNO		1	BOAT SHEETS		1	
DESCRIPTIVE REPORT		1	OVERLAYS		3	
DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/SOURCE DOCUMENTS
ENVELOPES						
CAHIERS	1					
VOLUMES		14				
BOXES			1			
T-SHEET PRINTS (List)						

SPECIAL REPORTS (List)

OFFICE PROCESSING ACTIVITIES

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

PROCESSING ACTIVITY	AMOUNTS			
	PRE-VERIFICATION	VERIFICATION	REVIEW	TOTALS
POSITIONS ON SHEET				2553
POSITIONS CHECKED	2553		255	
POSITIONS REVISED	159		15	
DEPTH SOUNDINGS REVISED	202		20	
DEPTH SOUNDINGS ERRONEOUSLY SPACED	63		10	
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED			-	
	TIME (MANHOURS)			
TOPOGRAPHIC DETAILS	40		24	
JUNCTIONS	82		2	
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS	160		2	
SPECIAL ADJUSTMENTS				
ALL OTHER WORK	96		124	
TOTALS	328		152	

PRE-VERIFICATION BY	BEGINNING DATE	ENDING DATE
VERIFICATION BY <i>Clarence R. Lehman</i>	BEGINNING DATE 8-28-70 6-15-72	ENDING DATE 10/5/70 7/7/72
REVIEW BY <i>Edmund G. Brunson</i>	BEGINNING DATE 5-22-74	ENDING DATE 6-20-74

Insrvt. DR Engle 54403 Carstens 15115 1973/74 8-14-74

USCOMM-DC 36271-P68
11-27-74

Reg. No. H-9038

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 REQ'D _____ INITIALS _____

REMARKS:

*for soundings on revised lines
New positions, ~~deleted on printout~~ should
be determined at the final update.*

H-9038

Items for Future Presurvey Reviews

The bottom is considered adequately developed on the present survey. Only minor differences were noted in the bottom since the prior surveys. These changes are attributed largely to methods of surveying.

The rock awash discussed in par. 6A of this review should be investigated at an opportune time to verify its existence and determine its elevation.

<u>Position Index</u>		<u>Bottom Change</u>	<u>Use</u>	<u>Resurvey</u>
<u>Lat.</u>	<u>Long.</u>	<u>Index</u>	<u>Index</u>	<u>Cycle</u>
474	1230	2	2	50 Years
474	1225	2	2	50 Years
475	1225	2	2	50 Years

OFFICE OF MARINE SURVEYS AND MAPS

MARINE CHART DIVISION

HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO. H-9038

FIELD NO. DA-10-3-69

Washington, Hood Canal, Dabob Bay and Quilcene Bay

SURVEYED: March 20 - April 15, 1969

PROJECT NO.: OPR-412

SCALE: 1:10,000

SOUNDINGS: DE-723 Depth Recorders
Leadline

CONTROL: Sextant Fixes on
Shore Signals

Chief of Party R. E. Moses
Surveyed by K. A. Domoto
..... G. H. Endrud
..... B. W. Fisher
..... G. F. Tornberg
Automated Plot by Gerber Digital Plotter (PMC)
Verified and inked by C. R. Lehman
Reviewed by E. G. Brunson
Date: 6-21-74
Inspected by D. R. Engle

1. Description of the Area

This survey covers the northern half of Dabob Bay and all of Quilcene Bay. The bottom slopes sharply from the eastern and western shorelines of both bays to maximum depths along their center lines, and very gradually from the extensive mud flats at their northern extremities toward the deep water to the south. Maximum depths of 102 fathoms were found near the southern limit of the survey.

Predominant bottom characteristics in the area are mud, sand, and gravel.

2. Control and Shoreline

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

The shoreline originates with advanced photogrammetric manuscripts T-12246, T-12251, T-12252, T-12256, and T-12257 of 1962-69, and incomplete manuscript T-12247 of 1962-65. Revisions appearing in red are by the hydrographer.

The "object in water" in lat. $47^{\circ}47.66'$, long. $122^{\circ}49.09'$ plotted from the photographs on T-12251 was identified by the field editor as a pile with an antenna. It has been transferred to the present survey as a pile (position approximate) and should be labeled accordingly on the photogrammetric survey.

3. Hydrography

A. Depths at crossings are in good agreement.

B. The usual depth curves are adequately delineated except, that the low water curve was not completely defined in some areas. A few soundings were carried forward from H-1640b to aid in the delineation of the low-water line.

C. The development of the bottom configuration and the investigation of least depths are adequate.

4. Condition of the Survey

The smooth plotting, sounding records, Descriptive Report and various sounding printouts are adequate and conform to the requirements of the Hydrographic Manual, supplemented by the Instruction Manual-Automated Hydrographic Surveys.

5. Junctions

An adequate junction was effected with H-9035 (1969) on the south.

6. Comparison with Prior Surveys

A. H-160b (1884) 1:20,000

This prior survey covers the area of the present survey. A comparison of the prior and present depths indicates stable bottom in this area. Differences in depths are minor, generally no greater than one fathom and are attributed to natural change and differences in survey methods. The present survey more closely develops the bottom configuration and reveals numerous features not previously shown.

A rock awash charted in lat. $47^{\circ}46.95'$, long. $122^{\circ}49.92'$ (Presurvey Review Item No. 4) from H-1640b (1884) is not considered disproved by the present survey and has been carried forward to the present survey.

Except for a few supplementary soundings and the rock mentioned above, the present survey is adequate to supersede the prior survey within the common area.

7. Comparison with Chart 6422, 6th Ed., October 21, 1972

A. Hydrography

The charted hydrography originates with the previously discussed prior survey which requires no further consideration, supplemented by the partial application of information from the present survey boat sheet and smooth sheet before verification and review. Items charted from several miscellaneous sources are noted on Bp 88856 compiled during the review of the present survey. Only minor differences are noted between the present survey and charted depths.

Attention is directed to the following:

(1) The pipe charted in lat. $47^{\circ}45.71'$, long. $122^{\circ}50.95'$ from Chart Letter 679 of 1966 is a floating pipeline. This item was not investigated on the present survey and should be retained on the chart.

(2) The numerous piles charted in approx. lat. 47°49.5', long. 122°51.2' from 1959 photographs do not appear on the present survey nor are they visible on the field photographs. Apparently only those shown by the field editor still remain. It is recommended that the chart be revised to conform to the present survey information.

(3) The row of 4 piles charted between lat. 47°48.89' and lat. 47°48.99' in approx. long. 122°49.20' from the boat sheet of the present survey are apparently in error. The field records describe them as "buoys" and they are believed to be mooring buoys. It is recommended that the chart be revised to conform to the present survey information.

Except as noted above, the present survey is adequate to supersede the charted hydrography within the common area.

B. Aids to Navigation

The only buoys located on the present survey are special purpose buoys and mooring buoys maintained by the Navy.

The charted positions of fixed aids are in agreement with the present survey positions and adequately serve the purpose intended.

8. Compliance with Instructions

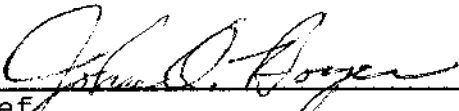
The survey adequately complies with the Project Instructions except that presurvey item no. 14, a charted rock awash in lat. 47°46.95', long. 122°49.92' was not disposed of. No evidence of an investigation of this item could be found in the field records.

9. Additional Field Work

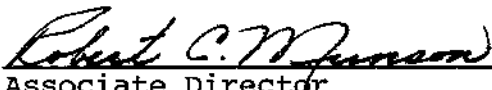
This survey is considered to be a good basic survey and no additional hydrography is recommended. However, the rock

awash mentioned in par. 8 above should be investigated at a future date.

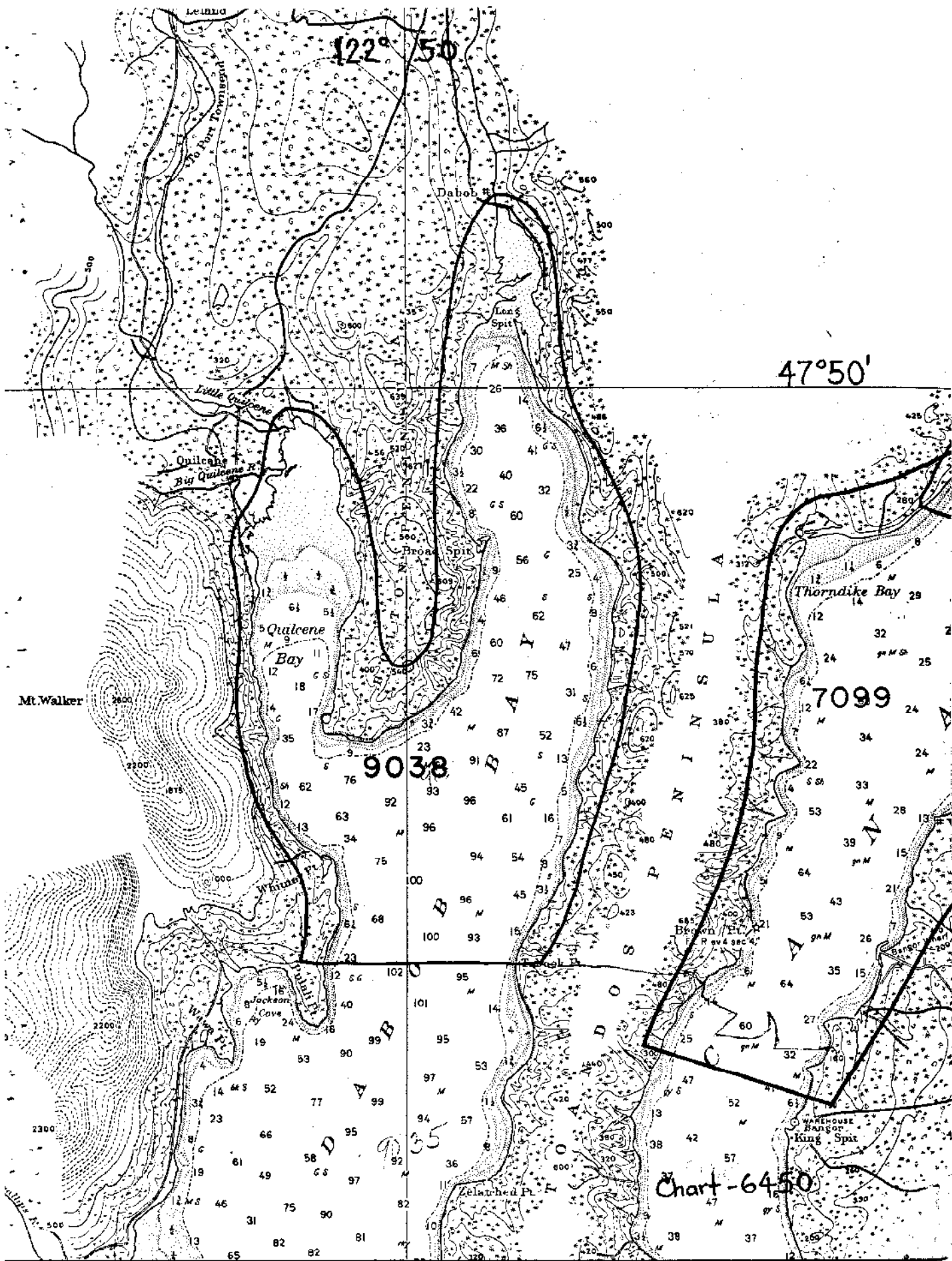
Examined and Approved:



Chief
Marine Chart Division



Associate Director
Office of Marine Surveys and Maps



122° 50'

47° 50'

9038

7099

Chart-6450

Mt. Walker

Little Quilcene
Big Quilcene Pt.

Quilcene Bay

Whitcomb Pt.

Jockson's Cove

Dabob Pt.

Long Spit

Brono Spit

Thorndike Bay

Warehouse
King Spit

Shelikof Pt.

P
E
N
I
N
S
U
L
A
O
F
A
L
A
S
K
A

