

9239

Diag. Cht. No. 5802.

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-10-12-71 Office No. H-9239

LOCALITY

State OREGON

General locality UMPQUA RIVER

Locality UMPQUA RIVER ENTRANCE

1971

CHIEF OF PARTY

CDR GERALD CA SALADIN

LIBRARY & ARCHIVES

DATE 10-17-74

USCOMM-DC 37022-P66

Charts
6695C
6004 ✓
5802

9239

HYDROGRAPHIC TITLE SHEET

H-9239 ✓

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-10-12-71 ✓

State OREGON

General locality UMPQUA RIVER

Locality UMPQUA RIVER ENTRANCE

Scale 1:10,000

Date of survey ^{29 ✓} 18 Oct - ³³ 28 Nov 1971

Instructions dated 27 August 1971

Project No. OPR-498-DA-71

Vessel Launch DA-1, Launch DA-2

Chief of party CDR Gerald C. Saladin

Ens. Young

Surveyed by Lt(jg) Hewitt, Lt(jg) Herz, Lt(jg) Miller, Lt(jg) Arnold

Soundings taken by echo sounder, ~~XXXXXXXXXX~~

Graphic record scaled by Ship's Commissioned Officers

Graphic record checked by _____

Protracted by _____

Automated plot by PMC - Gerber

Soundings penciled by _____

Digital Plotter

Soundings in ~~XXXXX~~ feet at ~~XXXXX~~ MLLW

REMARKS:

*Errors on Class I manuscript, require
correction from final reviewed manuscript
for shoreline and pile data. See also bps.*

RHC 10/75



A-5

cht.

669 sc

6004 ✓

5802

*checked for
land cont.
11/13/74
JMK*

Applied to stds 11/12/74

UB

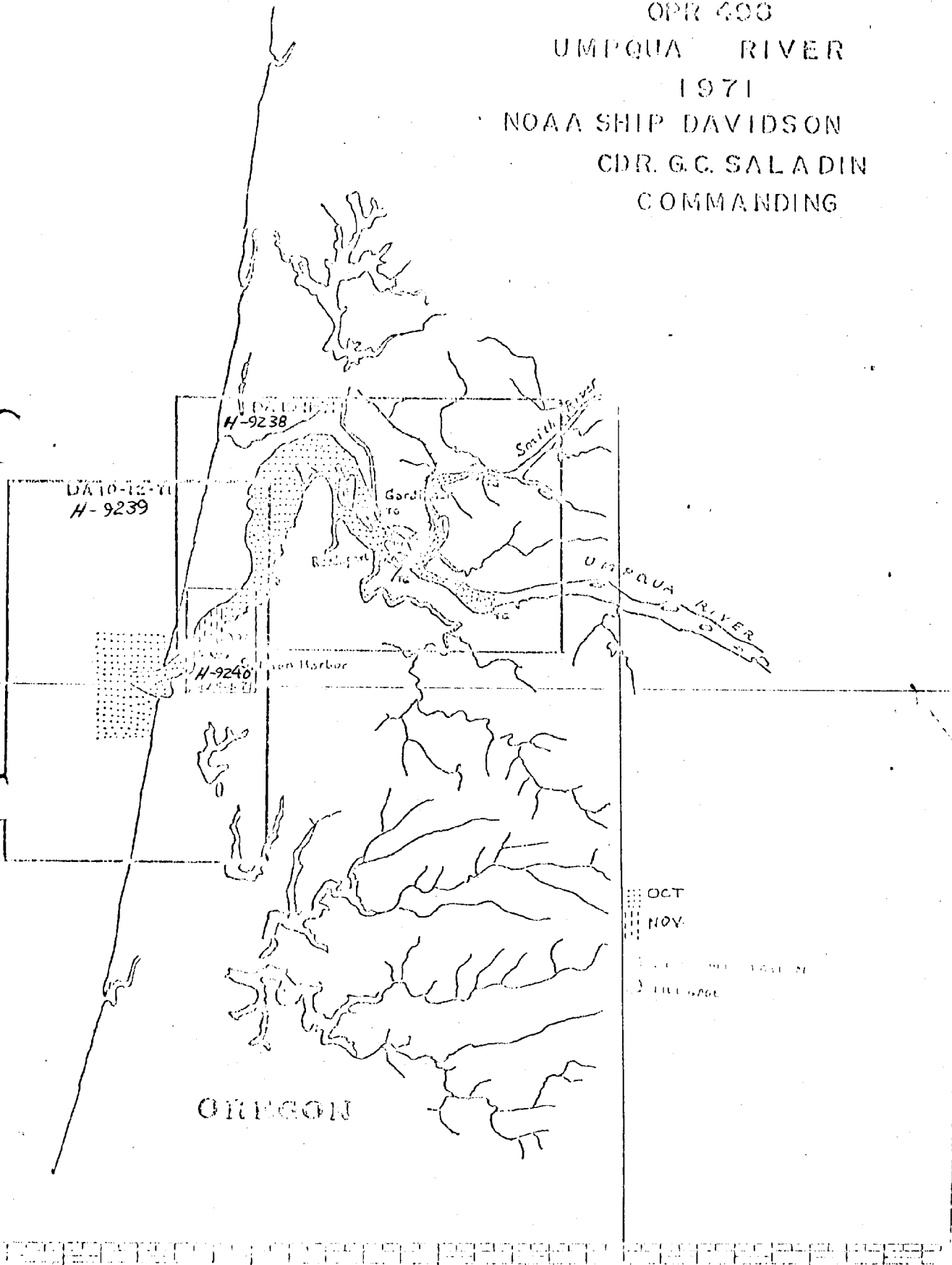
ADP

OPR 498
UMPQUA RIVER

1971

NOAA SHIP DAVIDSON

CDR. G.C. SALADIN
COMMANDING



DESCRIPTIVE REPORT

DA-10-12-71

(H-9239)

UMPQUA RIVER ENTRANCE, OREGON

A. PROJECT

This survey was accomplished according to Project Instructions OPR-498-DA-71, UMPQUA RIVER, OREGON dated 27 August 1971.

B. AREA SURVEYED

The area surveyed covers the entrance of the river between latitude 43°39'00"N and 43°41'00"N bounded to the west by longitude 124°14'15"W and continues up river to longitude 124°10'30"W. Up river the survey junctions with contemporary survey DA-10-11-71 (H-9238). The survey also junctions with DA-2.5-1-71 (H-9240) in the Winchester Bay area.

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 DA-1		Blue
Launch DA-2		Red

An abstract of positions can be found in the appendix.

D. SOUNDING EQUIPMENT

Raytheon DE-723 fathometers were used on this survey.

<u>VESSEL</u>	<u>FATHOMETER #</u>
Launch DA-1	214, 553
Launch DA-2	1276

Echo sounder corrections were determined from bar checks taken daily. Corrections to echo soundings can be found in a separate report titled "CORRECTIONS TO ECHO SOUNDERS OPR-498-DA-71". All soundings are in feet. The 120°W time meridian was used in all cases for this survey.

Soundings on the boatsheet were reduced using predicted tides based on predicted tides for the Umpqua River Entrance, Oregon. 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 control on all portions of the survey. A single Decca "Sea-Fix" electronic control station was established to provide a line of position so the coxswain could get uniform spacing on portions of the sheet. All visual fixes were taken using existing second order control or newly established third order control. Third order control was established by intersection and traverse off of the existing 2nd order control. Existing second order control was plotted on the boatsheet by computer at the Processing Division, Pacific Marine Center. Other control was plotted on the boatsheet by the ship's survey department. See "GROUND CONTROL OPR-498-DA-71" for more information concerning ground control. The photogrammetric support data was received after the boatsheet was started and the ground control was established. Many signals were located which had been established by the U.S. Army Corps of Engineers as aids in dredging, and pre- and post-dredge surveys.

G. SHORELINE

Shoreline and shoal areas were traced onto the boatsheet from the following manuscripts:

TP-00209

TP-00208

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-498-DA-71". The smooth sheet should only use the "Advanced Manuscript" as there were numerous changes made to the manuscripts in the field edit.

H. CROSSLINES

The percentage of crosslines to lines of soundings is 10.5% or 11.5% compared to the total of 108.8%. All crossings are in agreement.

I. JUNCTIONS

A junction was made with contemporary survey DA-10-11-71 (H-9238). There is good agreement at the junction. ✓

J. COMPARISON WITH PRIOR SURVEYS

Comparison was made with the U.S. Army Corps of Engineers Pre-Dredge survey UI-1-439-16 April 1971 (1:3,000). Dredging in the channel was completed prior to work on boatsheet DA-10-12-71 and the boatsheet shows deeper soundings in dredged areas. Areas that were not dredged agree with soundings from the Corps of Engineers Pre-Dredge survey. ✓

The following pre-survey review items were investigated:

Item No. 1: The reported wave gage in Lat. $43^{\circ}39'00''$ N, Long. $124^{\circ}13'36''$ W was searched for but not located by fathometer. It is assumed that the gage is still there. It was not feasible to locate it with a fathometer and no divers were available during the search.

Item No. 2: Submerged ruins in Lat. $43^{\circ}40'24''$ N, Long. $124^{\circ}11'38''$ W were investigated. A line spacing of 25 meters was used to develop the area and excess soundings were plotted on an overlay that accompanies the boatsheet. The submerged ruins exist and should be shown on the chart.

Item No. 3: Submerged ruins in Lat. $43^{\circ}41'00''$ N, Long. $124^{\circ}11'23''$ W were investigated. Twenty-five meter spacing in the area was used to develop the existing ruins. Excess soundings were plotted on boatsheet overlay No. 1. The ruins exist and should be charted.

Item No. 4: Dolphins in Lat. $43^{\circ}41'17''$ N, Long. $124^{\circ}11'06''$ W do not exist.

Item No. 5: Dolphins in Lat. $43^{\circ}41'23''$ N, Long. $124^{\circ}10'57''$ W do not exist.

K. COMPARISON WITH THE CHART

Comparisons were made with NOS chart 6004. Soundings outside of the river entrance are in general agreement with those of the chart. Soundings in the entrance channel and in the river are not in good agreement in most cases. It was assumed that the frequent dredging by the Corps of Engineers has altered both the entrance and river depths. Deposition and scour of sediment in the river is also assumed to have altered some of the depths. ✓

L. ADEQUACY OF SURVEY

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

M. AIDS TO NAVIGATION

Numerous fixed aids to navigation within the bounds of the survey have been located and are included in the Field Edit Report. Floating aids to navigation were located by sextant fixes with check angles and are included as detached positions on the boatsheet.

N. STATISTICS

VESSEL	NUMBER OF POSITIONS	NAUTICAL MILES SOUNDING LINES	BOTTOM SAMPLES	DP's
Launch DA-1	603✓	66.25✓	8✓	3✓
Launch DA-2	506✓	42.55✓	16✓	2✓

The total area surveyed is 4 nautical square miles. There are 7 sounding volumes with this survey. The soundings on the boatsheet were reduced using predicted tides for UMPQUA RIVER ENTRANCE, OREGON.

O. MISCELLANEOUS

Fathograms show that the bottom of the river is quite rough. As none of the river work was done with swell or surf conditions, fathograms were scanned for controlling depths where the bottom showed irregularity. It is assumed that these irregularities are sand ridges and are not rocks or solid objects.

The Winchester Bay area including the new boat basin was not surveyed on this sheet. A separate sheet was made at a scale of 1:2,500 for this area. For soundings in the area consult boatsheet DA-2.5-1-71 (H-9240).

P. RECOMMENDATIONS

There are no recommendations for this survey.

Q. REFERENCES TO REPORTS

CORRECTIONS TO ECHO SOUNDERS OPR-498-DA-71
FIELD EDIT REPORT OPR-498-DA-71
TIDE REPORT OPR-498-DA-71
GROUND CONTROL REPORT OPR-498-DA-71

Respectfully submitted,

Howard W. Herz

Howard W. Herz
LTJG NOAA

Attachments:

Tide Note
Form No. 1
Abstract of Positions
Triangulation Stations and Manuscripts
List of Stations
Development Overlay No. 1
Approval Sheet

TIDE NOTE

The tide station used for this survey was the Winchester Bay guage located at the Winchester Bay Coast Guard Station.

Location Lat. $43^{\circ}40'88''N$, Long. $124^{\circ}10'6''W$

Plane of Reference MLLW

Time Meridian $120^{\circ}W$

Type of Guage Portable Bubbler

The tide height data were corrected for differences in time and height.

H-9239

OPR-	TIDE REQUIREMENTS	SURVEYS	HOURLY	HEIGHTS REQUIRED FOR C391 VERIFICATION
DAY	ACTUAL	HYDRO.	HOURLY	HEIGHTS
***	*****	*****	***	***
291	091245	133109	0700	1600
293	111630	154100	0900	1900
302	083800	172630	0600	2000
306	094515	115636	0700	1400
308	093315	125732	0700	1500 / 500
309	100300	152700	0800	1800
312	090100	103239	0700	1500 / 100
322	105000	113600	0800	1400

000000

LIST OF STATIONS

DA-10-12-71

NOTE: Volumes referred to below are C&GS form 251, Observations of Horizontal Directions. These volumes are submitted with a separate report titled "GROUND CONTROL REPORT OPR-498-DA-71".

SIGNAL	ORIGIN OF STATION
201	KING (1949), 1966 ✓
202	BENT, 1966 ✓
203	Vol. 3 Pg 19-20 ✓
204	Vol. 3 Pg 16-18 ✓
206	Vol. 3 Pg 1-4; ✓ Vol. 4 Pg 1-10 ✓
207	Vol. 3 Pg 1-4; ✓ Vol. 4 Pg 1-10 ✓
208	Vol. 3 Pg 1-4; ✓ Vol. 4 Pg 1-10 ✓
209	Vol. 3 Pg 1-4; ✓ Vol. 4 Pg 1-10 ✓
210	Vol. 3 Pg 1-4; ✓ Vol. 4 Pg 1-10 ✓
211	CORNWALL, 1920 ✓
212	Vol. 4 Pg 1-2 ✓
214	UMPQUA RIVER LIGHTHOUSE, 1908 ✓
215	Vol. 4 Pg 1-10; ✓ 13, 14; ✓ Vol. 6 Pg 7-10 ✓
216	Vol. 4 Pg 11-12; ✓ Vol. 6 Pg 7-10 ✓
217	TP-00209 ✓
218	TP-00209 ✓
219	TP-00209 ✓
220	TP-00209 ✓
221	Vol. 5 Pg 10-11 ✓
222	Vol. 5 Pg 8-11 ✓
223	Vol. 2 Pg 1-8; ✓ Vol. 3 Pg 1-4; ✓ Vol. 4 Pg 1-10 ✓
224	Vol. 2 Pg 1-8; ✓ Vol. 4 Pg 1-10 ✓
225	Vol. 2 Pg 1-9; ✓ Vol. 4 Pg 20-24, ✓ 30-32 ✓
226	Vol. 4 Pg 20-24, ✓ 30-32; ✓ Vol. 5 Pg 8-9 ✓
227	Vol. 2 Pg 1-5; ✓ Vol. 4 Pg 20-24, ✓ 30-32 ✓
228	Vol. 2 Pg 1-9; ✓ Vol. 4 Pg 20-24, ✓ 30-32 ✓

TRIANGULATION STATIONS

STATION	LATITUDE	LONGITUDE	SIGNAL
BENT, 1966	43°40'9.108 ✓	124°11'56.417 ✓	202 ✓
CORNWALL, 1920	43°41'13.831 ✓	124°10'37.939 ✓	211 ✓
KING (1948), 1966	43°39'17.225 ✓	124°12'20.207 ✓	201 ✓
ULPQUA RIVER LIGHTHOUSE, 1908	43°39'44.840 ✓	124°11'50.302 ✓	214 ✓

LIST OF MANUSCRIPTS

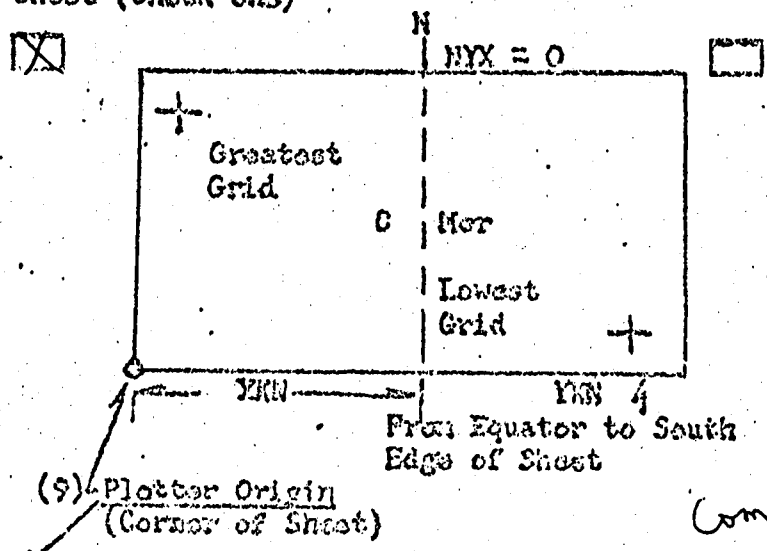
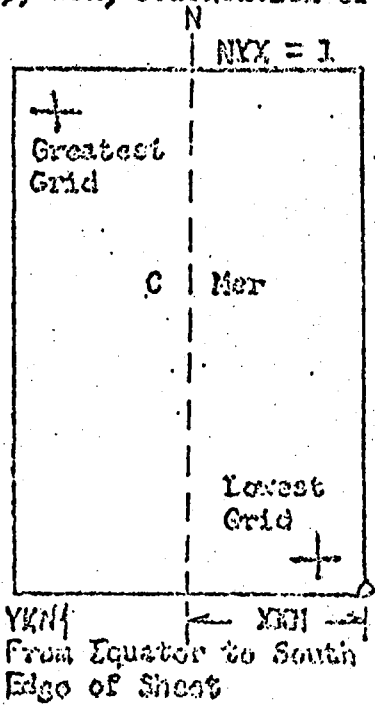
TP-00208 ✓

TP-00209 ✓

ABSTRACT OF POSITIONS

DAY	LAUNCH DA-1	LAUNCH DA-2	BOTTOM SAMPLES	DP's
291		1-114 (1)✓		
298	501-654 (2)✓			
302	656-1001 (3)✓	115-219 (1)✓		9001-9003 (7)✓
306	1002-1103 (4)✓			
308		300-452 (5)✓		
309		453-500 (5)✓	8001-8016 (7)✓	9004-9005 (7)✓
		2001-2035 (5)✓		
312		2036-2086 (6)✓		
322			8017-8024 (7)✓	

- (1) Project No. 498
- (2) H No. _____
- (3) Field No. "A"
- (4) Requested by CDR G.C. Saladin
- (5) Ship or Office DAVIDSON
- (6) Date Required ASAP
- (7) Visual Ft. (0) or Kathars (1) (8) Electronic (fill out form #3)
- (10) XKN (SP 5) Distance from CMER to East Edge (NYX = 1) or West Edge (NYX = 0). (Origin) 4435.24
4480.8 Meters
- (11) YKN (SP 2/1) Distance from Equator to South Edge of Sheet. (Origin) 4,830,089.075 Meters
- (12) Central Meridian 124° 13' 00"
- (13) Survey Scale 1:10,000
- (14) Size of Sheet (Check one) 36x60 42x60
- (15) NYX, Orientation of sheet (Check one)



Latitude 43° 36' 30" N
 Longitude 124° 09' 40" W

Computed: RLA
 - R.P.

Grid Limits	
(16) Greatest Latitude	<u>43° 43' 30"</u> (Projection Line Interval Page 4 Hydro Manual)
(17) Lowest Latitude	<u>43° 37' 00"</u>
(18) Difference	<u>6' 30"</u>
(19)	<u>30"</u>
(20)	<u>13 YKN</u>
(21) Greatest Longitude	<u>124° 16' 00"</u>
(22) Lowest Longitude	<u>124° 10' 30"</u>
(23) Difference	<u>5' 30"</u>
(24)	<u>1 30"</u>
(25)	<u>12 YKN</u>

Run on that one with 1151 with 200 feet.

H-9239

AUG 2 1972

SIGNAL PLOTTING CARDS

H-NO. - 9239

H-NO.	Y	X	LATITUDE	LONGITUDE	X	Y
9239	201	71	43391722	124122021	03773	05419
9239	202	71	4340911	124112642	03213	07150
9239	203	71	43395373	124125358	04305	06665
9239	204	71	43395926	124130574	04344	06780
9239	206	71	43402318	124121130	03564	07556
9239	207	71	43403467	124120945	03520	07928
9239	208	71	43404553	124120577	03434	08280
9239	209	71	43405539	124120116	03325	08600
9239	210	71	43410918	124115549	03192	09047
9239	211	71	43411383	124103794	01369	09198
9239	212	71	43400124	124122755	03946	06845
9239	214	71	43394484	124112030	03069	06314
9239	215	71	43390076	124122332	03357	04883
9239	216	71	43382884	124123354	04086	03831
9239	217	71	43400473	124120732	03470	06533
9239	218	71	43400651	124113200	03109	07016
9239	219	71	43401134	124113122	03091	07179
9239	220	71	43401360	124113102	02615	07246
9239	221	71	43404027	124110732	02039	08110
9239	222	71	43403785	124110822	02000	08660
9239	223	71	43410824	124105003	01654	09016
9239	224	71	43410966	124104550	01549	09062
9239	225	71	43413349	124104506	01536	09899
9239	226	71	43412437	124110589	02026	09348
9239	227	71	43410976	124112442	03461	09065
9239	228	71	43404017	124114334	02139	09107

May 14, 1973

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 362

Tide Station Used (NOAA form 77-12): Salmon Hbr., Winchester Bay

Period: Oct. 16, - Nov. 19, 1971

HYDROGRAPHIC SHEET: H9239 H9240

OPR: 498

Locality: Umpqua River, Entrance

Plane of reference (mean lower low water): 3.6 feet

Height of Mean High Water above Plane of Reference is 6.3 feet

Remarks: Recommended Zoning:

Use Winchester Bay gage for both sheets.

BT
G. I. THURLOW

Chief, Tides Branch

DAVIDSON
DA-10-12-71
H-9239
TIME MERIDIAN - 120 WEST
TIDE STATION - SALMON HARBOR, WINCHESTER BAY
YEAR - 1971
CORRECTIONS IN FEET
MLLW CORRECTION - 3.6 FEET
TIME SHIFT - 0000
RANGE RATIO - 01.00

080900 00 1033 0000 291 0 080000 000000
081500 00 1034
082000 00 1035
082500 00 1036
083000 00 1037
083500 00 1038
083900 00 1039
084400 00 1040
084800 00 1041
085300 00 1042
085700 00 1043
090200 00 1044
090700 00 1045
091200 00 1046
091700 00 1047
092300 00 1048
092800 00 1049
093300 00 1050
093900 00 1051
094400 00 1052
095000 00 1053
095600 00 1054
100300 00 1055
100900 00 1056
101600 00 1057
102300 00 1058
103200 00 1059
104100 00 1060
105200 00 1061
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112900 00 1063
115300 00 1062
120400 00 1061
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122700 00 1058
123400 00 1057
124000 00 1056

*Reviser - file with
sbg points*

124000 00 1056
124600 00 1055
125100 00 1054
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131300 00 1050
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150500 00 1024
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114700 00 1042
115500 00 1043

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192800	00	1025
193300	00	1024
193800	00	1023
194300	00	1022
194800	00	1021
195300	00	1020
1957		

194300 00 1022
194800 00 1021
195300 00 1020
195700 00 1019
200100 00 1018
200500 00 1017
200900 00 1016
201200 00 1015
201600 00 1014
201900 00 1013
202300 00 1012
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003700 00 0002
005100 00 0003
010700 00 0004
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023700 00 0004
024700 00 0003
025500 00 0002
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051200 00 1022
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052700 00 1025 ✓
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130300 00 1016
131100 00 1015

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193700 00 1035
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195200 00 1032
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200600 00 1029
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145800 00	1029
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160500 00 1010
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204000 00 0002
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205700 00 1002
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211600 00 1006
212100 00 1007
212500 00 1008
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213900 00 1011
214400 00 1012
214800 00 1013
215300 00 1014
215700 00 1015

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H-9329 OPR-498
Velocity Tables

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000208 00 1006

000254 00 1004

000290 00 1002

000327 00 0000

000363 00 0002

000402 00 0004

000464 00 0006

000538 00 0008

000700 00 0010

000840 00 0012

000980 00 0014

001120 00 0016

001260 00 0018

001400 00 0020

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000157 00 1006

000224 00 1004

000292 00 1002

000358 00 0000

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000494 00 0004

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000624 00 0008

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000818 00 0012

000960 00 0014

001380 00 0020

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000362 00 0002

000463 00 0004

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000670 00 0008

000780 00 0010

000890 00 0012

001000 00 0014

001110 00 0016

001220 00 0018

001330 00 0020

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000046 00 0000

000079 00 0002

000118 00 0004

000180 00 0006

000250 00 0008

000350 00 0010

DA-10-12-71
OPR 498 AREA UMPQUA RIVER
VESSEL DA-2
DAY 291; 302; 308; 309; 312
LOCATION
TYPE OF TAPE SMOOTH TC/TI TAPE
VOLUME

logged by: FSP

TRA CORRECTION/TABLE INDICATOR TC/TI TAPE

313 291 1971

091245 0 1010 0003 291 000000 000000

120545 0 1011

121145 0 1010

122815 0 1011

130630 0 1010

083800 0 0000 0003 302 000000 000000

123500 0 0000

093315 0 0000 0003 308 000000 000000

123732 0 0000

093430 0 1010 0003 309 000000 000000

150315 0 1010

~~090100 0 000000~~ cut

090100 0 1010 0003 312 000000 000000

103239 0 1010

DA-10-12-71

OPR 498 AREA UMPQUA RIVER

VESSEL ~~DA-1~~ DA-1

DAY 291; 302; 309; 312, 308, 306, 298,

POSITION

TYPE OF TAPE SMOOTH TC/TI TAPE

VOLUME

TRA CORRECTION TABLE INDICATOR TC/TI TAPE

313 298. 1971

111830 0 0000 0002 298 000000 000000

113515 0 0000

133615 0 0000 0001 298 000000 000000

164000 0 0000

093730 0 1001 0001 302 000000 000000

130415 0 1002

172630 0 1002

094515 0 0000 0001 306 000000 000000

115836 0 0000

APPROVAL SHEET

Hydrographic Survey

DA-10-12-71

H-9239

OPR-498-DA-71

UMPQUA RIVER ENTRANCE, OREGON

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

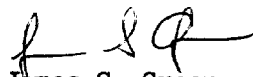


Gerald C. Saladin
CDR NOAA
Commanding Officer
NOAA Ship DAVIDSON

APPROVAL SHEET

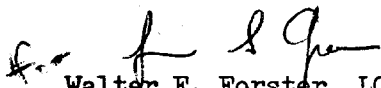
The smooth sheet has been inspected, is complete, and meets the requirements of the General Instructions for automated surveys and the Hydrographic Manual. (Note: All exceptions are listed in the Verifier's Report)

Examined and approved,



James S. Green
Supervisory Cartographic Technician

Approved and forwarded,



Walter F. Forster, LCDR, NOAA
Chief, Processing Division
Pacific Marine Center

GEOGRAPHIC NAMES

Survey No.

H-9239

Name on Survey

	On Chart No.	On previous survey	On U. S. quadrangle Maps	From local information	On local maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
	A	B	C	D	E	F	G	H	K	
CORNWALL POINT										1
NORTH SPIT										2
PACIFIC OCEAN										3
SALMON HARBOR										4
UMPQUA RIVER										5
WINCHESTER BAY (City)										6
WINCHESTER POINT										7
WINCHESTER BAY										8
										9
										10
										11
										12
										13
										14
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										27

Approved by
 Ches E. Harrington
 Staff Geographer
 19 Nov 1974

HYDROGRAPHIC SURVEY STATISTICS
HYDROGRAPHIC SURVEY NO. H-9239

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		7	
DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/SOURCE DOCUMENTS
ENVELOPES			1			
CAHIERS	1 & RAW DATA P/O					
VOLUMES	7					
BOXES						

T-SHEET PRINTS (List) TP-00208 TP-00209

SPECIAL REPORTS (List)

OFFICE PROCESSING ACTIVITIES

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

PROCESSING ACTIVITY	AMOUNTS			TOTALS
	PRE-VERIFICATION	VERIFICATION	REVIEW	
POSITIONS ON SHEET				
POSITIONS CHECKED		1123		
POSITIONS REVISED		36		
DEPTH SOUNDINGS REVISED		166		
DEPTH SOUNDINGS ERRONEOUSLY SPACED				
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED				
	TIME (MANHOURS)			
Verification of Control		8		
Verification of Positions		83		
Verification of Soundings		100		
Smooth Sheet Compilation		120		
ALL OTHER WORK <i>Topo REVISIONS</i>		6		
TOTALS		317		
PRE-VERIFICATION BY	BEGINNING DATE		ENDING DATE	
VERIFICATION BY <i>M.S. [Signature]</i>	BEGINNING DATE		ENDING DATE <i>11/22/74</i>	
Robert Montemayor <i>Robert Montemayor</i>	March 3, 1974		Sept. 13, 1974	
REVIEW BY	BEGINNING DATE		ENDING DATE	

VERIFIER'S REPORT
 HYDROGRAPHIC SURVEY, H - 9239

INSTRUCTIONS - This form serves to identify items of a check list in verification together with items which are separately reported to the Reviewer. The form is not to be forwarded to the Reviewer. A report, which is prepared for the Reviewer, should identify items by number and letter and will be filed in the Descriptive Report until the survey is reviewed.

CL - Check List Items: should be checked as having been completed during the verification processes.

R - Report Item: This column refers to those items reported to the reviewer and is used to indicate the items discussed.

Part I - DESCRIPTIVE REPORT	CL	R	Part III - JUNCTIONS (Continued)	CL	R	
<p>Note: The verifier should first read the Descriptive Report for general information and problems.</p> <p>1. The Descriptive Report was consulted, paragraphs checked if found satisfactory, and notations were made in soft black pencil regarding action taken. Remarks Required: -- None</p>	X		<p>10. Junctions with contemporary surveys were satisfactory except as follows: Remarks Required: -- Consider conditions after adjustments have been made; note adjustments made. Make special notes of Butt junctions and areas which are SUPERSEDED.</p>		X	
<p>Soundings originating with the survey and mentioned in the Descriptive Report have been verified and checked in soft black pencil, including latitude and longitude, together with position identification. Remarks Required: -- None</p>	X		<p>Part IV - VOLUMES</p> <p>11. All items affecting the plotting of the survey which are entered in the remarks columns of the sounding records were noted and check marked. In all cases appropriate action was taken and exceptions noted in the volumes. Remarks Required: -- None</p>	X		
<p>3. All reference to survey sheets mentioned in the Descriptive Report should include registry number and year. Remarks Required: -- None</p>	X			<p>12. Condition of sounding records was satisfactory except as follows: Remarks Required: -- Mention deficiencies in completeness of notes or actions for the following: (a) rocks (b) line turns (c) position values of beginning and ending of lines (d) bar check or velocity correctors (e) time recording (f) notes or markings on fathograms (g) was reduction of soundings accurately done? (h) was scanning accurate? (i) were peaks at uneven intervals missed? (j) were stamps completed? (k) references to adjacent features</p>		
<p>Part II - SHORELINE AND SIGNALS</p> <p>4. Source of shoreline signals Remarks Required: -- List all surveys a. Give earliest and latest dates of photographs b. Field inspection date c. Field Edit date d. Reviewed-Unreviewed</p>		X	<p>Part V - PROTRACTING</p> <p>13. All positions verified instrumentally were check marked in color in the sounding records, and verifier initialed the processing stamp. Remarks Required: -- None</p>			
<p>The transfer of contemporary topographic information was carefully examined and reconciled with the hydrography. Remarks Required: -- Discuss remaining differences.</p>	X			<p>14. The protracting and plotting of all unsatisfactory crossings were verified. Remarks Required: -- None</p>	X	
<p>6. The plotting of all triangulation stations, topographic stations and hydrographic signals has been checked and noted in processing stamp No. 42 on the smooth sheet. Remarks Required: -- None</p>	X			<p>15. All detached positions locating critical soundings, rocks, buoys, breakers, obstructions, kelp, etc., were verified and the position numbers are legible. Remarks Required: -- None</p>	X	
<p>7. Objects on which signals are located and which fall outside of the high-water line have been described on the sheet. Remarks Required: -- List those signals still unidentified.</p>	X					
<p>Part III - JUNCTIONS</p> <p>Note: Make a cursory comparison preliminary to making soundings in area of overlap.</p> <p>8. All junctions of contemporary or overlapping sheets were transferred in colored ink and overlapping curves were made identical. Remarks Required: -- None</p>	X					
<p>9. The notation in slanted lettering "JOINS H---- (19)" was added in colored ink for all verified contemporary adjoining or overlapping sheets. Those not verified are shown in pencil. Remarks Required: -- None</p>	X					

Part V - PROTRACTING (Continued)	CL	R	Part VIII - AIDS TO NAVIGATION	CL	R
16. The protracting was satisfactory except as follows: Remarks Required: -- Refers to protracting in general except for specific faults repeated often, or faults in control information, which required considerable replotting or adjustments.	X		26. All fixed aids located together with those on the contemporary topographic sheets, have been shown on the survey. Remarks Required: -- Conflicts of any nature listed.	X	
17. The protractor has been checked within the last three months. Remarks Required: -- Date of check, type of protractor and number.	X		27. All floating aids listed in the Descriptive Report should be verified and checked in soft black pencil, including latitude and longitude and position identification. Remarks Required: -- None	X	
Part VI - SOUNDINGS			Part IX - BOAT SHEET		
18. All soundings are clear and legible, and critical soundings are a little larger than adjacent soundings. Remarks Required: -- None	X		28. The boat sheet was constantly compared with the smooth sheet with reference to notes, position of sounding lines and supplemental information. Remarks Required: -- None	X	
19. Sounding line crossings were satisfactory except as follows: Remarks Required: -- Discuss adjustments.	X		29. Heights of rocks awash were correctly reduced and compared with topographic information. Remarks Required: -- Note excessive conflicts with topographic information.	X	
20. The spacing of soundings as recorded in the records was closely followed; Remarks Required: -- None	X		Part X - GENERAL		
21. The scanning, reduction, spacing, plotting of questionable soundings have been verified. Remarks Required: -- None	X		30. All information on the sheet is shown in accordance with figures 82 and 83 in the Hydrographic Manual (Pub. 20-2). Remarks Required: -- None	X	
22. The smooth plotting of soundings was satisfactory except as follows: Remarks Required: -- Refer to legibility, errors in spacing, and errors in numbers - but not to errors in scanning.	X		31. Unnecessary pencil notes have been removed from the sheet. Remarks Required: -- None	X	
Part VII - CURVES			32. Degree, minute values and symbols have been checked; also electronic distance arcs have been properly identified and checked on the smooth sheet. Remarks Required: -- None	X	
23. The depth curves have been inspected before inking. Remarks Required: -- By whom was the penciled curves inspected.		X	33. The bottom characteristics are adequately shown. Remarks Required: -- None	X	
24. The low-water line and delineation of shoal areas have been properly shown in accordance with the following: a. From T-Sheet in dotted black lines b. From soundings in orange c. Approximate position of sketched curve is dashed orange d. Approximate position of shoal area not sounded in black dashed Remarks Required: -- None	X		Part XI - NOTES TO THE REVIEWER		
25. Depth curves were satisfactory except as follows: (This statement should not refer to the manner in which the curves were drawn). Remarks Required: -- Indicate areas where curves could not be drawn completely because of lack of soundings. For some inshore areas a general statement is sufficient.	X		34. Unresolved discrepancies and questionable soundings.	X	
			35. Notation of discrepancies with photogrammetric survey inserted in report of unreviewed photogrammetric survey or on copy.	X	
			36. Supplemental information.		X

Verified by

Robert Montemayor

Date

Sept 13, 1974

VERIFIER'S REPORT

H-9239

DA=10-12-71

This sheet was constructed and plotted at Pacific Marine Center, Seattle, Washington. Information relating to this will be noted under the heading by the number and letter as on the Verifier's Report, C&GS Form 946A.

PART II SHORELINE AND SIGNALS

4. The shoreline was transferred from Class I Manuscripts scale 1:10,000, TP00208 and TP00209. *The following reviewed shoreline manuscripts were applied to H-9239 (1971) and reflect the correct changes made to the shoreline and offshore features TP-00208 (1971/75) and TP-00209 (1971/75).*

PART III JUNCTIONS

This survey junction with H-9240, 1971, scale 1:2500, in Salmon Harbor: Agreement was good. Curves were left in pencil due to the difference in Scale.

PART VII CURVES

23. Penciled curves were inspected by Clarence R. Lehman, Cartographic Technician.

PART XI NOTES TO THE REVIEWER

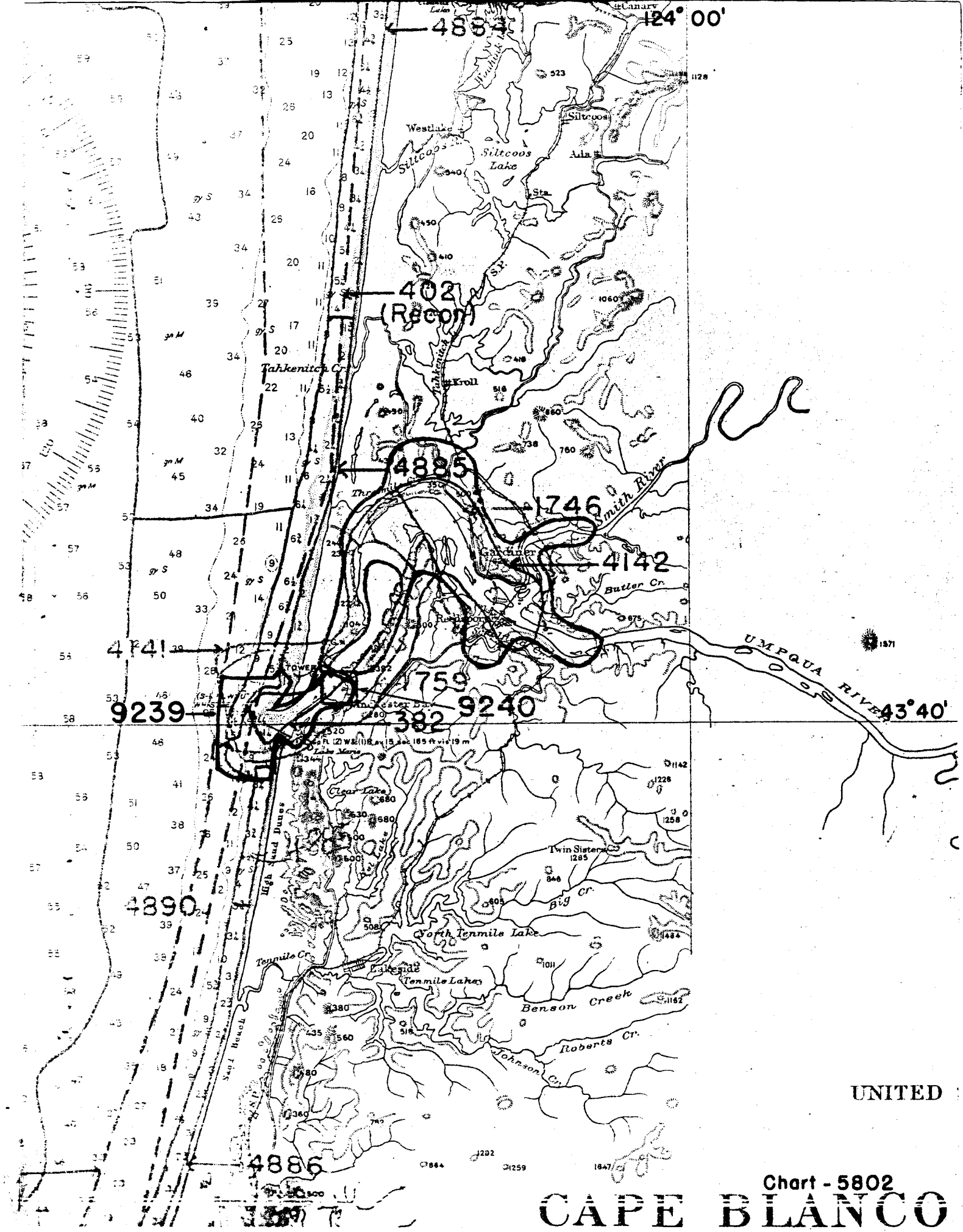
36. The current station displayed on the boat sheet at latitude $43^{\circ}40'018''$, and longitude $124^{\circ}12'321''$ was not transferred to the smooth sheet because of a critical sounding.

This survey is considered adequate to supersede prior surveys of the area.

Respectfully submitted,

Robert Montemayor

Robert Montemayor
Cartographic Technician
September 16, 1974



UNITED STATES

Chart - 5802
CAPE BLANCO

