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Form 301	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
State: <u>Ore.</u>	
<small>J. 5613</small>	
DESCRIPTIVE REPORT.	
Hyd.	Sheet No. <u>4489</u>
LOCALITY:	
<u>Pacific Coast</u>	
<u>Chetko River to</u>	
<u>C. Sebastian</u>	
1925	
CHIEF OF PARTY:	
<u>T.J. Maher</u>	

JAN 22 11 52 AM '26

DEPARTMENT OF COMMERCE

U.S.COAST AND GEODETIC SURVEY

Col. E. Lester Jones, Director.

(G)

Descriptive report of hydrographic survey  
of Southern Coast of Oregon- Cape Sebastian  
to Brookings.

Steamer GUIDE  
1925

T.J.Maher  
Commanding Officer

Descriptive Report- To accompany inshore hydrographic sheet.

Southern Coast of Oregon. (c) Sheet

Cape Sebastian to Brookings. 1925

1. The work on this sheet was done in accordance with the Director's instructions dated May 6, 1925.
2. Area covered: Brookings north to Cape Sebastian. 42-02' N., to 42-20' N. Latitude and 124-24' W. to 124-34' W. Longitude.
3. No new obstructions to navigation were discovered in this survey. No dangerous currents or shoals were found.
4. The soundings up to 85 fathoms were taken with the Rude Fischer sounding tubes while running at  $2/3$  speed. All deeper soundings were taken with the Sonic Depth Finder while running at Standard speed. Some of the soundings from 10 to 15 fathoms are not within the allowable percentage of error but are apparently better than existing soundings at these places. They were taken while running to and from anchorage so that there was no expense involved in getting them.
5. The control was furnished by visual fixes on triangulation and plane table positions. The I.M.s. and D.P.s. of all plane table positions used are listed on a separate sheet. These plane table positions were transferred to the hydrographic sheet from photostat copies of the Topographic sheet.
6. During June, July, and early part of August, strong northwesterly winds were encountered. In general a southerly set of about  $\frac{1}{2}$  to 1 knot prevailed. Inshore to the southward of Rogue River Reef the currents are irregular. Hunter Cove affords anchorage for small boats during northwesterly weather. With a heavy southwesterly ground swell breakers have extended almost across the entrance and the seas have piled up heavily inside.

C

During northwesterly weather anchorage may be had to the eastward of Mack's Arch. The full force of the wind is felt but the seas are very much moderated by the reefs. More detailed information regarding landmarks and features of interest to the navigator have been forwarded to Lt. Lukins, who has been engaged in Coast Pilot work in this section.

Work by T. J. Maher, Chief of Party.

Descriptive report by W. F. White.

*W. F. White*

*Approved  
Samuel R. Archer  
Commanding Officer*

STATISTICS

HYDROGRAPHIC SHEET "G".

Date - 1925	Letter	Volume	Positions	Soundings	Miles Statute	Vessel
July 13	B	1	33	127	24.00	Guide
" 15	C	1	24	46	8.60	"
" 27	D	1	43	93	27.10	"
" 28	E	1	46	71	15.50	"
" 29	F	1	41	75	18.10	"
" 30	G	1	32	51	14.00	"
" 31	H	2	54	115	18.00	"
Aug. 10	J	2	69	121	29.90	"
" 11	K	2	97	163	30.40	"
Sept. 11	L	2	12	19	4.40	"
" 12	M	2	60	106	20.70	"
" 17	N	3	124	217	39.70	"
" 18	P	3	108	164	34.00	"
" 28	Q	3	41	63	14.00	"
" 30	R	3	23	36	11.50	"
Oct. 2	S	3	14	31	4.50	"
" 12	T	3	46	82	19.10	"
" 13	U	3	23	43	8.05	"
" 13	U	4	5	12	2.04	"
" 14	V	4	24	50	8.05	"
" 26	W	4	30	70	11.71	"
" 27	X	4	53	99	12.40	"
" 28	Y	4	65	123	26.00	"
" 30	Z	4	61	103	22.75	"
TOTAL			1128	2080	424.50	

All soundings in fathoms.

Automatic Tide Gauge No. 121 - Located at Port Orford, Oregon

Lat. 42° - 44' - 30" N.

Long. 124° - 29' - 53" W.

Plane of Reference:

M.L.L.W. 2.5'

Lowest tide observed - + 0.20'

Highest tide observed - + 11.05'

LIST OF PLANE TABLE POSITIONS TRANSFERRED TO

HYDROGRAPHIC SHEET FROM PHOTOSTAT COPY

OF TOPO. SHEET.

Object & Descr.	Lat.	D.M. (Metres)	Long.	D.P. (Metres)	Height	Remarks
Dot Rock	42°-11'	1469.0	124°-23'	247.5		Highest point
Black Rk.	42°-11'	1798.0	124°-23'	282.7		" "
Yellow Rk.	42°-12'	1265.74	124°-23'	448.7	84.00	" "
Pointed Rk.	42°-15'	428.40	124°-24'	1047.6		Highest of 3 pts.
Round or Dome Rk	42°-15'	800.00	124°-24'	1025.0		Rounded top
Cove Rk.	42°-18'	54.91	124°-24'	1119.0	170.0	Highest point

February 17, 1926.

~~Division of Hydrography and Topography:~~

Division of Charts:

Tide reducers are approved in  
4 volumes of sounding records for

HYDROGRAPHIC SHEET NO. 4489

Locality: Oregon Coast

Chief of Party: T. J. Maher in 1925

Plane of reference is  
2.4 ft. on tide staff at Port Orford.

For reduction of soundings, condition of records satisfactory  
except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A. M. or P. M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.



Chief, Division of Tides and Currents.

Hydrographic Sheet No. 4489.

Chetco River to Cape Sebastian - Oregon

With the exception of the few "sonic" soundings on 4 day, positions 53-65 inclusive on the western edge of the sheet the soundings are with the "tubes" and an occasional vertical cast with the lead to check the tubes.

The area surveyed appears to be sufficiently well covered and the depth recorded probably approximates the depth sufficiently close for all practical purposes.

The records are always clear as to time and signals and numerous repeated positions and soundings appear which leave open areas on the sheet.

Plotting by Field Party generally good  
Plotting by Field Party appropriately accurate  
No additional work appears necessary.

John D. Tomney.  
5/8/26



POST-OFFICE ADDRESS: Str. GUIDE, San Pedro, Calif.

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

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DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

Str. GUIDE,  
February 4th, 1926.

To: Director, Coast and Geodetic Survey, Wash., D.C.  
From: Commanding Officer, Str. GUIDE, San Pedro, Calif.  
Subject: Hydrographic Sheet "G". (H. 4489)

After the transmission to the office of the smooth sheet covering the inshore work off the Oregon Coast, in the area between Cape Sebastian and Brookings, I made an examination of the record books, checking the soundings against the graphs and found on "J" and "K" days exceptional discrepancies. Inquiry revealed the fact that the officer who plotted the smooth graphs used certain soundings which were rejected. I had these graphs re-plotted and soundings corrected, but as the smooth sheet had already been forwarded, corrections on it could not be made. It is therefore requested that soundings on "J" and "K" days be re-plotted.



Thos. J. Maher

COMMANDING OFFICER,  
Str. GUIDE.

TJM-e

IN REPLY ADDRESS THE DIRECTOR  
U. S. COAST AND GEODETIC SURVEY  
AND NOT THE SIGNER OF THIS LETTER

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

AND REFER TO No. 11-DFM

WASHINGTON

June 16, 1928.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4489

South of Cape Sebastian, Oregon

Surveyed in 1925

Instructions dated May 6, 1925 (GUIDE)

Chief of Party, T. J. Maher.

Surveyed by W. F. White.

Protracted and soundings plotted by W. F. H.

Verified and inked by J. D. Torrey.

1. The records conform to the requirements of the General Instructions.
2. The plan and character of development fulfill the requirements of the General Instructions except that generally the lines were run with the shore rather than normal to it.
3. The plan and extent of development satisfy the requirements of the specific instructions with the exception that a number of soundings below 100 fathoms were taken with the sonic depth finder. The instructions call for tube work up to 100 fathoms.
4. The information is sufficient for drawing the usual depth curves.
5. The usual field plotting was done by the field party.
6. The junction with the contemporary adjacent survey, H. 4585, is satisfactory, except in the vicinity of lat.  $42^{\circ} 20'$ , long.  $124^{\circ} 35'$  to  $124^{\circ} 39'$ , where the sonic soundings on H. 4489 are considerably below 100 fathoms. These soundings (positions 53-65 y) were therefore rejected.

The junctions with the older surveys, H. 1945, H. 1239 and H. 1240 are adequate. However, there are extensive blank areas on H. 1240 just east of the junction that should be surveyed.

The junctions with the other contemporary sheets will be taken up when those sheets are reviewed.

7. The sounding line crossings, while not as good as have been obtained with tubes, are acceptable.
8. a. Additional work will be required to investigate the correctness of the 30 fathom sounding (pos. 43 T) in lat.  $42^{\circ} 12 \frac{1}{2}'$ , long.  $124^{\circ} 26 \frac{1}{2}'$ . Although the two tubes agree in themselves it is possible that bottom was not obtained, notwithstanding the fact that the sounding records note a bottom characteristic.  
b. Additional development should be done in the vicinity of the 46 fathom sounding in lat.  $42^{\circ} 18 \frac{1}{2}'$ , long.  $124^{\circ} 31 \frac{3}{4}'$ .
9. Attention is called to the fact that at position 6 D in lat.  $42^{\circ} 18 \frac{1}{2}'$ , long.  $124^{\circ} 31 \frac{1}{2}'$  a 24 fathom sounding (tube) was obtained. Subsequent development in this area showed depths around 60 fathoms and the sounding was therefore rejected. It should be noted in this connection that a 46 fathom sounding (pos. 7-8 E) was obtained 320 meters S x W of this position surrounded by depths of 62 to 66 fathoms.
10. Character and scope of field operations - good.  
Field drafting - very good.
11. Reviewed by A. L. Shalowitz.

Approved:

\_\_\_\_\_  
Chief, Section of Field Records (Charts)

\_\_\_\_\_  
Chief, Section of Field Work (H. & T.)

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4489

HYDROGRAPHIC TITLE SHEET

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. "G" 4489

REGISTER NO. 4489

State Oregon

General locality Pacific Coast  
~~Coast of Southern Oregon~~

Locality Cheiko River to C. Sebastian  
~~Gape Sebastian to Brookings~~

Scale 1:40,000 Date of survey July - Oct. <sup>13</sup> <sup>30</sup> 192<sup>5</sup>

Vessel Guide

Chief of Party Lt. Com. Thos. J. Maher

Surveyed by Lt. Com. Thos. J. Maher

Protracted by W. F. White

Soundings penciled by W. F. White

Soundings in fathoms ~~feet~~

Plane of reference M.L.L.W.

Subdivision of wire dragged areas by

Inked by J. D. Torrey

Verified by J. D. Torrey

Instructions dated May 6, 192<sup>5</sup>

Remarks: