

4452

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Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: Oregon

11-5613

DESCRIPTIVE REPORT.

Hydrographic Sheet No. 4452

LOCALITY:

Southern Coast

C. Blanco to Coquille R.

1924

CHIEF OF PARTY:

R. E. Luce

Descriptive report to accompany Hydrographic sheet #1.

Oregon Coast, Coquille River to Cape Blanco.

A topographic survey of the coast was made during the season and a description of the coast line is given in the descriptive report accompanying that sheet. The coast line alone here is dotted with outcropping rocks and inshore navigation is very dangerous.

There are no good anchorages, along this section of the coast in either northerly or southerly weather. Landings in surf boats are extremely difficult and only in the calmest of weather can it be done.

The contours as a rule follow the general trend of the coast line. Soundings were all either vertical casts or by tube.

Currents as a rule were in the direction of the wind and varied with the wind.

The control for the survey was by fixes with angles on small signals built over triangulation stations. In addition several signals and large rocks were located by topography and used during the season.

EMPIRE, OREGON

DAY	Letter	Tide	Soundings	Miles, Statute	Vessel
June 2, 1924	A	1	17	3	GUIDE
10	B	2	150	54.6	"
11	C	3	15	58.8	"
12	D	4	74	10.6	"
18	E	5	110	50.5	"
19	F	2.5	100	46.0	"
20	G	8	149	8.8	"
24	H	5	177	42.5	"
25	I	4.4	129	60.7	"
26	J	2	151	60.1	"
27	K	5	127	20.7	"
July 2, 1924	M	5	94	40.9	"
9	N	5	71	29.9	"
14	P	6	58	16.8	"
15	Q	6	111	41.4	"
16	R	6.7	101	40.0	"
17	S	7	43	16.0	"
18	T	7	56	31.3	"
21	U	7	14	8.0	"
31	V	7	56	67 1565	13.6
Aug. 13, 1924	W	7	56	12.7	"
14	X	7.8	32	9.5	"
19	Y	8	67	22.5	"
20	Z	8	58	16.3	"
21	A'	8	29	6.5	"
22	B'	8	65	129 549	19.5
22	C'	8	31	10.2	"
Sept. 2, 1924	D'	8	221	54	6.5
26	E'	9	44	83	11.8
Oct. 3, 1924	F'	9	25	67	8.9
9	G'	9	23	72	8.8
22	H'	9	22217	47 50	8.5
Nov. 5, 1924	I'	9	8	10	2.4
6	J'	9	11	18 364	4.0
Total			1970	5564 4964	781.8

Soundings are in fathoms

Tide Gauge located at Empire, Oregon

Lat. -43° - 27.7' North
 Long. -124° - 16.8' West

Plane of reference -- 4.49
 Highest Tide -- 14.1
 Lowest Tide -- 2.6

field records.

June 17, 1925

~~Division of Hydrography and Topography:~~

Division of Charts:

Tide reducers are approved in
volumes of sounding records for

9
HYDROGRAPHIC SHEET

4452

Locality:

Near Marshfield, Oregon.

Chief of Party:

Plane of reference **H. P. Luce in 1924**

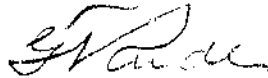
ft. on tide staff at **mean lower low water and is**

4.4 **Empire, Oregon.**

5.7 " " " " **Port Oxford, Oregon**

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 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.

Report of Sinking and Verifying H. 4452.

The protracting and plotting were well done. The field drafting was good and completed as far as called for in the General Instructions.

Nearly all the sounding was done by means of sounding tubes and results are excellent. There are indications of continued improvement as the work progressed from early in the season until it closed in the fall. Several composite curves of "comparative soundings" which were plotted in the office bear out the above statement.

The purpose of plotting ^{in the office} many days work and many different tubes on one graph was to study the general variations of results of the tube soundings. While this method does not eliminate barometric and temperature variations, the indications are not without some value.

In plotting the graphs for "comparative casts" in the field, several days work was shown on one graph. While this is contrary to the instructions in Bulletin 109, it is justifiable in order to secure sufficient points for plotting a good curve.

There are a few soundings which disagree with adjacent work. They are retained since they are in considerable depth of water, and not critical.

Aug. 19, 1925

J. M. Albert, Cartographer
Section of Field Records.

Many soundings, which were called "miss" in the field because the allowable disagreement between the two tubes ^{was} exceeded, were accepted in the office under approval of the Assistant Chief of Field Records. These accepted did not exceed by about $\frac{1}{2}\%$ the percentages allowed in circular of Bulletin 109. This does not stretch the point very much since in plotting in whole fathoms we neglect as much as $\frac{1}{10}$ fathom i.e. 49.6 fathoms would be plotted as 49.

J.M.A.

ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY

AND REFER TO NO. 4-DFM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON August 26, 1925.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet H. 4452

Off the Oregon Coast

Surveyed in 1924

Instructions dated April 29, 1924.

Chief of Party, R. F. Luce.

Surveyed by R. F. L., K. T. Adams, G. D. Cowie, L. B. Clore and L. P. Raynor

Protracted by H. B. Brown.

Soundings plotted by H. B. B.

Verified and inked by F. M. Albert.

1. The records conform to the requirements of the instructions included in Bulletin No. 93 for February, 1923, except as follows:

a. Letters were used to designate tube numbers and an index given at the beginning of the day's work instead of entering the tube numbers directly in the column provided for same. The method employed leads to confusion and necessitates the carrying in mind of the letter of a certain tube when using the graphs with the records. There is very little saving in labor by this method and it should be discouraged.

b. The reduced soundings corrected for tide were entered in fathoms and tenths instead of fathoms and feet.

c. Several days' work was plotted on one graph for a certain tube instead of using one graph for each day's work. This was done on account of the few comparative readings taken on certain days. There is no particular objection to this method so long as the temperature and barometer are approximately the same on the different days.

d. The records are not clear as to what distance the tubes were fastened above the lead. It was assumed that where no mention was made the tubes were attached very close to the lead.

2. The plan and extent of development conform to the requirements of the specific instructions.
3. The sounding line crossings are excellent.
4. The information is sufficient for drawing the usual depth curves.
5. The usual field plotting was done by the field party. The position numbers and day letters were much too large, but the plotting was well done.
6. There are no contemporary surveys that join this sheet.
7. There are no indications of dangers within the area of this survey and no further surveying is required.
8. The character and scope of surveying (except for the few defects in the keeping of the records) are excellent.
9. Reviewed by A. L. Shalowitz, August, 1925.

Approved
L. S.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4452

State Oregon

General locality *Pacific Southern Coast* ~~North Pacific Ocean~~

Locality *Cape Blanco* . . to . . ~~Coquille River to Cape Blanco~~

Chief of party Lt. Comdr. R. F. Luce.

Surveyed by Lt. Comdr. R. F. Luce *K. J. Adams*
L. P. Cowie

Date of survey June - November, 1924 *L. P. Cowie*

Scale 1:40,000

Soundings in Fathoms.

Plane of reference Mean lower low water.

Protracted by *H. B. Brown* Soundings in pencil by *H. B. Brown*

Inked by *G. D. Cowie* *F. M. Albert* Verified by *H. B. Brown*

Records accompanying sheet (check those forwarded):

Des. report, _____ Tide books, _____ Marigrams, _____ Boat sheets,

_____ Sounding books, _____ Wire-drag books, _____ Photographs.

Data from other sources affecting sheet

Remarks: