

4479

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

State: Oregon

11-5813

DESCRIPTIVE REPORT.

Hydrographic Sheet No. 4479

LOCALITY:

Pacific Coast

C. Blanco to Port Orford

1924

CHIEF OF PARTY:

R. F. Luce

6279
4479

OCT 26 8 55 AM '25

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DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

Col. E. Lester Jones, Director.

Descriptive report of hydrographic survey of
Southern Coast of Oregon - Cape Blanco to
Port Orford.

Steamer Guide,
1924.

R. F. Luce,
Commanding Officer.

4452
Forwaded Oct 20, 1925
J. H. Allen

DESCRIPTIVE REPORT - To accompany inshore hydrographic sheet.
SOUTHERN COAST OF OREGON ,
CAPE BLANCO TO PORT ORFORD, 1924.

The work on this sheet was done in pursuance of the Director's orders of April 29th, 1924.

(2) No new obstructions to navigation were discovered in this survey, which was in the area just west of Orford Reef from about the 30 to the 100 fathom curve.

(3) The soundings up to 85 fathoms were taken with Rude-Fischer tubes, and those in greater depths with the depth finder (sonic).

(4) The control was furnished by visual fixes on points located by triangulation.

Work by R. F. Luce, Chief of Party.

Descriptive report by G. D. Cowie.
G. D. Cowie

See attached sheet for data on unfinished work.

DATA FROM THE UNFINISHED WORK ON HYDROGRAPHIC
SHEET - GLENN BRUNO TO PORT ORFORD - 1924.

The Soundings as follows have not been corrected
for tidal reduction, this data having been forwarded to
the Washington office on May 16th, 1925.

Positions 1C to 4C sonic
18E to 23E
1K to 32 K sonic.

The plotted position of Tichenor's Rock was based
on a triangulation position, 1924, and does not check with
the position as located by sextant cuts taken at the station
in 1925. These positions on the sheet based on "Tich"
should be checked after proper location of it is verified.

Div. of Hydrog. cannot vouch for accuracy of triangulation computations because there is not at present a check for "Tich"

SK.

STATISTIC SHEET NO

SOUTH OF CAPE BLANC

INSICRE

Date 1924	Letter	Volume	Position	Soundings	Miles	Vessels
July 21	A	1	40	94	13.2	GUIDE
Aug. 28	B	1	36	64	10.6	"
Sept. 17	C	1	13	23	4.7	"
Sept. 18	D	1	16	31	6.3	"
Sept.						
Oct. 3	E	1	26	53	8.7	"
" 9	F	1	19	39	6.0	"
" 10	G	1	22	65	10.3	"
" 22	H	1	54	147	21.0	"
" 22	H (cont'd)	2	22	58	8.8	"
" 23	J	2	62	134	23.3	"
Nov. 6	K	2	51	99	22.4	"
			<u>361</u>	<u>807</u>	<u>135.3</u>	

All sounding in fathoms

Tide gauge located at Port Orford

Lat. $42^{\circ} - 44' - 30''$ N.
 Long. $124^{\circ} - 29' - 53''$ W.

Plane of reference: M.L.L.W. 3.91ft.
 Lowest tide observed: -1.40 ft.
 Highest tide observed: 7.60 ft.

Division of Hydrography and Topography:

~~Division of Charts:~~

Tide reducers are approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET NO. **4479**

Locality: **Coast of Oregon**

Chief of Party: **R. F. Luce in 1924.**

Plane of reference is
3.7 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.

Report on Hyd. 4479.

The character and completeness of the sounding records were satisfactory with the following exceptions:

1. A number of soundings positions on "K" day were designated by names of wrong signals.
2. It was also found that the reduction of the sonic soundings for this day was incorrect due to a misinterpretation of the position of the water line in reference to the position of the sonic instrument, which was installed on the bottom of the vessel.
3. A number of vertical casts were not reduced in some cases where such casts were taken simultaneously with regular casts.

The plotting and protracting of the soundings was in general very good.

The sheet should seem to be sufficiently developed, if another line of soundings was run W x S of Arch Rock Summit, though there is no apparent reason that this unsurveyed area might contain a hidden danger or need of development.

The sheet was clean, legible, and in general satisfactory as to draftsmanship.

Respectfully submitted,
S. Pisigari

Dec. 19, 1925.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON December 22, 1925.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4479

Cape Blanco to Port Orford, Oregon

Surveyed in 1924

Instructions dated April 29, 1924.

Chief of Party, R. F. Luce

Surveyed by R. F. L. and K. T. Adams

Protracted by F. B. Porcher and G. D. Cowie

Soundings plotted by V. A. Powell and G. A. Billingsley.

Verified and inked by G. Risegari.

1. The sounding records were defective in the following respects:

distance
The height of the sonic oscillator below the waterline was subtracted instead of being added.

When a simultaneous vertical cast sounding was taken, the tube or sonic sounding only was reduced and plotted.

Errors
~~Moving~~ objects were recorded for several positions on K. day. Clarifying notes in the Remarks column were lacking.

The exact time of changing ship's course was not always clearly given.

2. The plan and character of development conform to the requirements of the General Instructions.
3. The plan and character of development conform to the requirements of the specific instructions except for the partial omission of check sounding lines. A more serious omission is the failure to obtain bottom characteristics which are very important on charts of this area. They were especially called for in the specific instructions but only 13 are recorded for the entire survey.

4. The sounding line crossings are adequate and the information is sufficient for drawing the usual depth curves.
5. The usual field plotting was done by the field party. The only adverse criticisms are the failure to show sufficient position numbers and to note in the records several cases where different signals from those recorded were used in plotting.
6. The junctions with the adjoining sheets are satisfactory.
7. No indications of dangers were found and no further surveying is required.
8. The character and scope of the surveying and field drafting are good.
9. Reviewed by E. P. Ellis, December, 1925.

Note:

On account of the rejection of sounding lines involving Δ Tich, a gap is left in the work, vicinity of lat. $42^{\circ} 43'$, long. $124^{\circ} 38'$, which should be filled in.

Oct. 16, 1926.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

4479

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. 4479

State . Oregon

General locality . . . Pacific Coast
~~Southern Coast~~

Locality Cape Blanco to Port Orford

Chief of party . R.F. Luce

Surveyed by . . R.F. Luce . . . K.T. Adams

Date of survey . July 21, 1924 . to . Nov. 6, 1924

Scale 1:40000

Soundings in . . . Fathoms

Plane of reference . Mean Lower Low Water

Protracted by N.D.P. & G.D. Archer & G.D. Condie Soundings in pencil by V.A.P. Powell - C.A. Billingsley
G. Ruzari

Inked by J.H.S. Verified by G. Ruzari

Records accompanying sheet (check those forwarded):

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

2 Sounding books, Wire-drag books, Photographs.

Data from other sources affecting sheet

Triangulation data furnished by Washington Office.

Remarks: