

4305

Diag. Chrt. No. 1205-B

Form 304 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY
State: <u>Maine</u>
11-5613
DESCRIPTIVE REPORT.
Hydrog. Sheet No. <u>4305</u>
LOCALITY:
<u>Vicinity of C. Porpoise</u>
<u>Fletcher Neck to C. Porpoise</u>
<u>19²³</u> <u>19¹⁸</u>
CHIEF OF PARTY:
<u>O. W. Swainson</u>

4305

Descriptive Report to Accompany

Hydrographic Sheet B

The work represented by sheet B was executed under orders dated June 3, 1923.

Location.

The area covered by this sheet lies between Wood Island Light and Cape Porpoise, Maine. It joins hydrographic sheet C on the north. Its offshore limit is the twenty fathom curve. Sounding lines were carried as close to the low water curve as possible.

Control.

No triangulation was done by this party south of Fletchers Neck. Consequently the signals used were chiefly triangulation stations located by previous surveys and hydrographic signals located by both the present and previous parties. Description of the stations are forwarded separately.

Tides.

The tides used were obtained from the automatic gauge at Biddeford Pool and the portable staff at the Cape Porpoise 1919 station.

Soundings.

Leading aft soundings were adjusted by subtracting one fathom in every five and calling the result a no bottom sounding at that depth.

Cross sounding lines were run occasionally, usually at the beginning or end of a day's work, to check up on the results.

All of the soundings are hand lead. The headway of the boat was decreased sufficiently at each sounding to get up and down casts.

Shoal soundings were not developed nor were the soundings spaced as closely as usually because the area was to be wire dragged immediately

O. W. Swainson
Chief of Party

John McCormick, Deck Officer

STATISTICS HYDROGRAPHIC SHEET NO. B.

DATE 1923	LETTER	VOL- UME	POSI- TIONS	SOUND- ings	MILES STATUTES	VESSELS	TIDES	REMARKS
Oct. 3	A	1	90	321	22.0	Ogden	B. Pool	
Oct. 4	B	1	76	269	18.0	Ogden	" "	
Oct. 5	C	1	65	197	16.0	Ogden	Cape Porpoise	
Oct. 12	D	1	64	205	15.5	Ogden	B. Pool	
Oct. 12	E	2	124	526	12.0	A-97	Cape Porpoise	
Oct. 27	F	2	30	92	8.5	Ogden	B. Pool	
Oct. 29	G	2	10	43	2.0	A-97	Cape Porpoise	
TOTAL			459	1653	94.0			

SHEET TO ACCOMPANY SHEET B (HYDROGRAPHIC).

* B.P.T.G. is Biddeford Pool Tide Gauge Readings.

Note on Oct. 5, 12 and 27 Tide Staff at Cape Porpoise was used.

All soundings on Sheet are in feet.

Plane of Reference of B.P.T.G. -- Mean low water.

Plane of Reference of Cape Porpoise Tide Staff - Mean low water.

Lowest Tide observed on Gauge.

Highest Tide Observed on Gauge.

Boat sheet accompanies Smooth Sheet.

Report on inking of hydrographic
Sheet 4805.

- 1 The sounding records were complete excepting cuts to hydrographic signals used by this party.
- 2 The protracting was done very poorly.
- 3 As this survey was to be dragged no investigation was made of shoal soundings.
- 4 Leading aft soundings were not inked.

F. H. Edmonston

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

April 18, 1924.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4305.

Cape Porpoise, Maine

Surveyed in 1923.

Instructions dated June 2, 1923.

Chief of Party, O. W. Swainson.

Surveyed by O. W. Swainson.

Protracted and soundings plotted by V. A. Bishop.

Verified and inked by H. R. Edmonston.

1. The records conform to the requirements of the General Instructions except boats' courses are not always stated, not enough bottom characteristics given especially on shoals, and descriptions of beginnings and endings of lines often omitted.
2. The plan and character of development conform to the requirements of the General Instructions. The failure to develop shoals was due to the fact that drag work was being done by the same party.
3. The plan and character of development satisfy the specific instructions.
4. The sounding line crossings are adequate.
5. The information is sufficient for drawing the usual depth curves except close inshore.
6. The field plotting was completed to the extent prescribed in the General Instructions. The protracting was poorly done and much of it had to be re-protracted.
7. The junction with the adjacent work on the north is good.
8. No further surveying in the area covered by this sheet is needed.
9. The character and scope of the surveying are good and the field drafting fair.
10. Reviewed by E. P. Ellis, April, 1924.

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. B.....4305

State . . . Maine . . .

Vicinity of C. Porpoise

General locality . . . ~~Wood Island Light~~ . . .

Fletcher Neck

Locality . . . ~~Wood Island Light~~ to Cape Porpoise. . .

Chief of party . . . O. W. Swainson . . .

Surveyed by . . . Wire Drag Party No. 1 . . .

Date of survey . . . October . . . 1923 . . .

Scale 1 - 20,000

Soundings in . . . Feet

Plane of reference . . . Mean Low Water

Protracted by V. A. Bishop . Soundings in pencil by V. A. Bishop

Inked by Verified by

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

List of plane table and hydrographic stations accompany Sheet C

Remarks: The above tidal data forwarded November 28, 1923.