

4822a&b&c&d

Diag. Cht. Nos. 1206-1207-1208-1210-2

4822a&b&c&d

Form 504  
Ed. June, 1928

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

E. Lester Jones Director

C. & G. SURVEY  
L & A  
JAN 21 1929  
Acc. No.

New Hampshire  
Massachusetts  
Rhode Island  
States

DESCRIPTIVE REPORT

Chart	1206	4822a
Topographic	1207	4822b
Hydrographic	1208	4822c
Reconnaissance	1210	4822d

LOCALITY

Isles Of Shoals, N.H. to  
Pt. Judith, R.I.

19 28

CHIEF OF PARTY

E. W. Eickelberg.

DESCRIPTIVE REPORT TO ACCOMPANY

WORK DONE

EN ROUTE

PORTLAND, MAINE TO NORFOLK, VIRGINIA.

Authority:

Orders from Director dated October 16, 1928.

Methods:

Positions were obtained by sextant angles on charted objects those used being encircled and given a hydrographic name.

Soundings were taken with the fathometer to fathoms and half fathoms and reduced to feet.

Temperatures and Salinities were assumed to be the same as on the working grounds off Portland where the corrections due to these factors were negligible.

For "A" Day - October 24 - the predicted tides at Rockport, Mass. and for "B" Day - October 25 - the predicted tides at Newport, R. I. were used for reducers.

Two officers were used for a sounding watch. One on the bridge, took right angle, plotted, and kept the angle record; the other in the radio room took left angle, read the fathometer and kept the sounding record. While the angles were being taken the Chief Radio Operator read the fathometer. The angle record was afterwards copied into the sounding record.

Charts Nos. 1206, 1207, 1208 and 1210 were used for boat sheets and for smooth sheets.

Area Covered:

One line was run from the Isle of Shoals to a point N. E. of Brant Rock, Mass. A second line was run from a point S. E. of the Sakonnet River to Point Judith.

No further lines were run there because of lack of objects for fixes or because of the depth being less than 15 fathoms, the limit for fathometer work.

Discrepances:

The lines run were compared with the charts of the area. On "A" Day the bottom was so irregular that no conclusions could be drawn. On "B" Day the fathometer showed greater depths than the chart in all cases. It is not believed that this error varying from 1 to 3 fathoms is due to any error in the fathometer. The above work was done with Launch #132 in tow and as it was in a leaky condition, especially so during bad weather, it was not deemed advisable to stop, cast her adrift, in order to obtain serial temperatures, bottom specimens, and check soundings.

*E. W. Eickelberg*  
E. W. Eickelberg,  
H. & G. Engineer,  
U. S. C. & G. Survey.

erm/s

STATISTICS

DAY	DATE	MILEAGE	SOUNDINGS	POSITIONS	VESSEL	REMARKS.
A	Oct. 24	72.2	223	46	Ship	
B	Oct. 25	17.0	47	12	Ship	
TOTALS:		89.2	270	58		

March 18, 1928

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in  
1 volume of sounding records for

HYDROGRAPHIC SHEET 4022a (Reconnaissance work).

Locality: Isles of Shoals, N. H. to Pt. Judith, R.I., Coast of New England.

Acting Chief of Party: E. W. Bickelberg in 1928

Plane of reference is mean low water

~~XXXXXXXXXXXXXXXXXXXX~~

~~XXXXXXXXXXXXXXXXXXXX~~

Predicted tides at Rockport, Mass., and Newport, R. I.

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 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.

P.A.L.C. W.

Chief, Division of Tides and Currents.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.  
48222a

HYDROGRAPHIC TITLE SHEET  
Reconnaissance

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. Chart NO. 1206.

REGISTER NO. **48222a**

State New Hampshire and Massachusetts

General locality Coast of N. H. & Mass.

Locality Isles of Shoals, N. H. to Cape Ann, Mass.

Scale 1:80,000 Date of survey Oct. 24, 1928, 19

Vessel LYDONIA

Chief of Party E. W. Eickelberg, H. & G. E.

Surveyed by J. H. Service, E. B. Roberts, H. A. Paton, M. G. Ricketts.

Protracted by J. H. Service, H. A. Paton.

Soundings penciled by H. A. Paton

Soundings in ~~fathoms~~ feet

Plane of reference Mean low water.

Subdivision of wire dragged areas by \_\_\_\_\_

Inked by H. A. Paton.

Verified by E. W. Eickelberg.

Instructions dated October 16, 1928., 19

Remarks: \_\_\_\_\_

\_\_\_\_\_

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET  
Reconnaissance

REG. NO. 4822b

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. Chart No. 1207<sup>b</sup>

REGISTER NO. 4822b

State Massachusetts

General locality Coast of Mass., Mass. Bay.

Locality Cape Ann Mass. to North River Mass.

Scale 1:80,000 Date of survey Oct. 24, 1928, 19

Vessel LYDONIA

Chief of Party E. W. Eickelberg, H. & G. E.

Surveyed by J. H. Service, E. B. Roberts, H. A. Paton, M. G. Ricketts.

Protracted by J. H. Service, H. A. Paton.

Soundings penciled by H. A. Paton

Soundings in ~~various~~ feet

Plane of reference Mean low water.

Subdivision of wire dragged areas by ---

Inked by H. A. Paton

Verified by E. W. Eickelberg.

Instructions dated October 16, 1928, 19

Remarks: \_\_\_\_\_

\_\_\_\_\_

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET  
Reconnaissance

REG. NO.  
4822C

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. Chart 1208<sup>C</sup>

REGISTER NO. **4822C**

State Massachusetts

General locality ~~Coast of Mass., Mass. Bay~~ Cape Cod Bay.

Locality ~~Mass. Bay~~ North east of Plymouth Bay.

Scale 1:80,000 Date of survey Oct. 24, 1928

Vessel LYDONIA

Chief of Party E. W. Eickelberg, H. & G. Engr.

Surveyed by J. H. Service, E. B. Roberts, H. A. Paton, M. C. Ricketts.

Protracted by H. A. Paton

Soundings penciled by H. A. Paton

Soundings in ~~1000~~ feet

Plane of reference Mean low water.

Subdivision of wire dragged areas by -----

Inked by H. A. Paton

Verified by E. W. Eickelberg

Instructions dated October 26, 1928, 19

Remarks: Work stopped to render aid to fishing vessel in distress.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET  
Reconnaissance

REG. NO. 4822d

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. Chart No. 1210<sup>d</sup>

REGISTER NO. **4822d**

State Mass. and R. I.

General locality Buzzards Bay, Mass.

Locality Approaches to Buzzards Bay to Pt. Judith, R. I.

Scale 1:80,000 Date of survey Oct. 25, 1928, 19

Vessel LYDONIA

Chief of Party E. W. Eickelberg, H. & G. E.

Surveyed by J.H. Service, E.B. Roberts, H.A. Paton, M.G. Ricketts.

Protracted by H. A. Paton

Soundings penciled by H. A. Paton

Soundings in ~~fathoms~~ feet

Plane of reference Mean low water

Subdivision of wire dragged areas by -----

Inked by H. A. Paton

Verified by E. W. Eickelberg

Instructions dated October 16, 1928, 19

Remarks: \_\_\_\_\_