

4370

Diag. Cht. No. 1207-2

Form 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY
State: <u>Massachusetts</u>
11-5613
DESCRIPTIVE REPORT.
Hydrographic Sheet No. <u>4370</u>
LOCALITY: <u>Mass. Bay.</u> <u>Scituate Harbor</u>
<hr/> 1924 <hr/>
CHIEF OF PARTY: <u>Geo. L. Bean, H. & G. E.</u>

4370

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 4370

Locality: Scituate Harbor, Mass.

Chief of Party: G. L. Bean in 1924.

Plane of reference is Mean low water reading
3.7 ft. on ~~Scituate~~ at Scituate.
atue gauge

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.

DESCRIPTIVE REPORT

of

Hydrographic Sheet No.

Scituate Harbor and Vicinity
Scituate, Mass.

June and July 1924 Scale 1 : 5,000

Geo.L.Bean Chief of Party.

This survey was made in accordance with the Director's Instructions dated May 29, 1924, by a shore party using Hydrographic Launch No. 65. The party consisted of Geo.L.Bean in charge, P.R. Hathorne, D.O. left angle and recording and four hands. The survey consisted entirely of handlead work. An eight pound lead was used.

The survey includes Scituate Harbor and from the ~~North~~ North end of Cedar Point to the South end of Second Cliff, and out to the five fathom ~~xx~~ curve. Fifty meter lines and under were used in the channel and one hundred meter lines elsewhere.

The control was established by triangulation and topography. See triangulation and topography reports.

The bottom is hard outside the harbor and sticky in the harbor and entrance between the breakwaters. It is fairly regular. Soundings are in feet and quarters and were reduced from the tidal plane established in 1915. A portable automatic guage was maintained at the Town Dock.

The shoreline is rocky and rocks extend offshore about two hundred to three hundred meters. Rocks which bare at low water lie outside the one fathom curve. Strangers in small draft boats should not approach closer than five hundred meters of the shore except in the buoyed channel. Inside the breakwater small boats must follow the buoyed channel except at high water. Good anchorage for small boats can be had just South of spar buoy number eight and about two hundred and fifty meters West of the North end of the South breakwater. Anchorage space is also available just North of the Town Dock, but this space is very crowded and arrangements must be made with the Harbor Master.

The entrance channel is a dredged channel and is not maintained. Cave-ins often occur and strangers should keep close to the center of the channel. Gasolene, coal, water and supplies may be had at Scituate, and small engine repairs made, but there are no marine ways. The Coast Pilot notes for this sheet are taken up in a separate report.

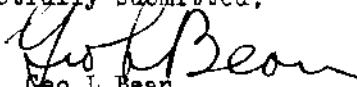
Many small boats yachts and pleasure boats congregate at ~~Scituate~~ Scituate during the Summer months and there are several local boats which make a specialty of fishing parties. Commercial fishing is mostly confined to lobster fishing, and a few mackerel in season.

Good landmarks are numerous. The old Scituate Lighthouse is very prominent. It is a white tower about sixty feet high, two hundred and fifty meters NW of the South end of the North breakwater. The new Proving Ground Chimney is a very ^{prominent} mark. It is about one hundred and fifty feet high, built of yellow brick and very noticeable. It lies about one mile NW of Scituate Harbor and about one-fourth mile inshore. Lawson's Tower is an excellent landmark. It is a large standpipe located at Scituate Center and about one hundred and fifty feet high. First ~~and~~ Second ~~cliffs~~ and Third Cliffs are easily picked up several miles offshore. A large boulder, named the Old Sow, lies two hundred and sixty meters N.E. from the old Scituate Lighthouse and one hundred and sixty meters offshore. It is bare about two feet at high water.

There is very little tidal current in Scituate Harbor. Outside there is an estimated current of one knot, usually stronger on the ebb. The current is Northerly on flood tide and Southerly on the ebb.

Scituate Harbor is said to be very rough during the heavy Winter Easterly storms. During cold Winters it freezes over entirely. On one occasion a lighter of coal was discharged onto sleds in the vicinity of the breakwaters and hauled over the ice by horses.

Respectfully submitted,


Geo. L. Bean
Lieutenant.

STATISTICS, Scituate Harbor, Massachusetts.

Date, 1924.	Letter.	Volume.	Positions.	Soundings.	Miles, statute.	Vessel.
July 2,	a	1	22	144	2.5	Launch #65
" 3,	b	1	180	921	17.8	" "
" 7,	c	1	45 63	560 578	7.3	" "
" 7,	c	2	39	397	4.2	" "
" 9,	d	2	32	242	5.8	" "
" 7		Angle book	11			" "
Total			347	2282	37.6	

Nov. 21, 1924

Report on Verification of Hydrographic
sheet 4370

○ The sounding records are complete
excepting the boat heading by compass.

The courses would have helped in
the verification of this sheet.

The beginning and endings of lines
were recorded in the records.

The smooth sheet was clear and
the positions well protracted.

The drafting conforms to the general
instructions except that the depth
curves were inked.

H. R. Edmiston

ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY

AND REFER TO NO. 4-DEM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON December 3, 1924.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4370

Scituate Harbor, Massachusetts.

Surveyed in 1924

Instructions dated May 29, 1924.

Chief of Party, G. L. Bean.

Surveyed by G. L. Bean and P. R. Hathorne.

Protracted by P. R. Hathorne.

Soundings plotted by G. L. Bean.

Verified and inked by H. R. Edmonston.

1. The records conform to the requirements of the General Instructions except boat's courses were omitted throughout and changes in courses were frequently omitted.
2. The plan and character of development fulfill the requirements of the General Instructions.
3. The plan and extent of development satisfy the specific instructions.
4. The sounding line crossings are inadequate in a number of cases. The defects are caused by misplaced lines due, evidently, to erroneous angles. It has been possible to adjust some of these lines to better locations.
5. The development is sufficient to enable the curves to be drawn.
6. The field plotting was completed to the extent prescribed by the General Instructions and was accurately done. The soundings were plotted in quarter feet instead of whole feet, and the curves which were inked had mostly to be erased.
7. The junctions with adjoining surveys are satisfactory.

8. While there are undoubtedly some misplaced soundings, as noted in paragraph 4, the errors are not serious and no further surveying is required in the area covered by the sheet.
9. The character of the surveying is fair and the field drafting is good.
10. Reviewed by E. P. Ellis, November, 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. 4370

State . . . Massachusetts

General locality . . . Massachusetts Bay

Locality Scituate Harbor

Chief of party Geo. L. Bean

Surveyed by Geo. L. Bean

Date of survey July, 1924

Scale 1 : 5000

Soundings in Feet

Plane of reference M.L.W.C Scituate

Protracted by P.R.H. Soundings in pencil by G.L.B.

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 . Angle Book

Report on Coast Pilot notes

Remarks:

60
18
3 78 R
20
24.8
5 0 8
104
12 4.8