

5326

U. S. COAST & GEODETIC SURVEY
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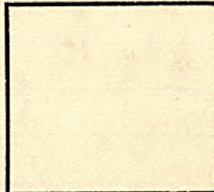
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Form 501
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director



State: New York

DESCRIPTIVE REPORT

Topographic } Sheet No. 10 5326
Hydrographic }

LOCALITY

~~Montauk Neck Harbor (Great Road)~~

V-S-G-D

19 33

CHIEF OF PARTY

A. P. Ratti, Lieut., U.S.C. & G.S.

5326

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

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HYDROGRAPHIC TITLE SHEET

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. 10 5326

12/1/33

REGISTER NO.

State New York

General locality Long Island

Locality ~~Great Pond~~ Montauk Harbor

(U.S.G.B. Decision)

Scale 1-5,000 Date of survey October, 1933

Vessel Project No. HT-133-Party No. 5

Chief of Party A. P. Ratti

Surveyed by A.P.R., J.C.T., & D.S.L.

Protracted by J.J.R., & C.R.S.

Soundings penciled by D.S.L.

Soundings in ~~fathoms~~ feet

Plane of reference M.L.W.

Subdivision of wire dragged areas by ----

Inked by ---- R. E. DeWent

Verified by ---- W.H. Bamford + R. E. DeWent

Instructions dated February 25, 1933

Remarks: _____

DESCRIPTIVE REPORT TO ACCOMPANY

HYDROGRAPHIC SHEET No. 10 (Field Number), MONTAUK YACHT HARBOR, NEW YORK.

DATE OF INSTRUCTIONS

Instructions for this survey are dated February
25, 1933

LIMIT AND EXTENT

This survey covers all of Montauk Yacht Harbor (Great Pond) and Block Island Sound around the entrance to the harbor, a distance about one half mile off shore and one half mile east and west of the inlet. The off shore work makes a junction with Sheet 9 (Field No.).

H. 5344

SURVEY METHODS

All sounding lines are controlled by sextant fixes. Signals used were located by triangulation 1932-33 and by topography, shown on topographic sheets K and L. See page 1, volume 1 for list of signals.

Soundings were obtained by sounding pole and hand lead.

DANGERS

944nd
✓ Latitude 41-03.6, Longitude 71-55.8 at positions 52 D, 53 D, 54 D, sunken rocks. That at 52 D is awash at extreme low water, while those at 53 D and 54 D are submerged about 1 foot at extreme low water. Boats going to the so called West Dock (Lat. 41-03.5, Long. 71-55.8) should not take a direct course from the end of the dredged channel south of Star Island as the rocks are on about that line.

✓ Latitude 41-03.7, Longitude 71-55.9 at position 77 D a sunken rock submerged about 0.5 foot at extreme low water. (1/2 MLW)

✓ Latitude 41-03.1, Longitude 71-55.3 at position 49 F a rock bare 2.5 feet at extreme low water. (bare 2.5 MLW)

Latitude 41-04.1, Longitude 71-55.1 a group of rocks located by topography, bare about 2 feet at extreme low water.

(bare 1 1/2 LW T. 4768)

27

Latitude 41-03.1, Longitude 71-54.5 a rock ledge running out directly west from station "GAB"-a distance of 35 to 40 meters from high water line.

Latitude 41-04.6, Longitude 71-56.3 sunken rocks spilled out from inside ends of breakwater. Boats should keep at least 50 meters away from west breakwater and at least 30 meters from east breakwater at these points. Sunken rocks also extend out a short distance from outside end of east breakwater (at red light).

Latitude 41-03.5, Longitude 71-55.6. The shoal, which extends off from the point on which station "Tiny" is located, is very rocky and boats should keep at least 200 meters clear of this point. The small bay just south of this point (west of the small island) is shallow and full of small rocks and can not be safely entered in a power boat.

CHANNELS

A dredged channel with a minimum width of about 50 meters and minimum depth of 10 feet passes between the breakwaters, past the Harbor Master's dock and around the east side of Star Island, widening out to about 300 meters opposite the Yacht Club. From this point a slightly shallower channel about 50 meters wide runs due south close past the tip of Star Island and ends in a widened out area southeast of the Island. Boats should keep close to the island as a small shoal area comes to within 70 meters east of the Island, 200 to 350 meters south of the Yacht Club dock.

A small dredged private channel extends out from dock south of station "GAS". This is 6 to 7 feet in depth but is not extended out to water of this depth.

A roughly circular area about 175 meters in diameter with a depth of about 10 feet has been dredged opposite and at "West Dock".

REMARKS

Tide staffs located at the Harbor Master's dock and at West Dock were read at all times when hydrography was done on this sheet.

STATISTICS SHEET NO. 10 (Field No.)

Area - 2.5 Square Statute Miles

| Date 1933 | Letter | Volume | Positions | Soundings | Miles Stat. |
|--------------|------------|--------------|-------------------|-------------------|-----------------------|
| October 10 | A | 1 | 141 | 1073 | 14.0 |
| " 11 | B | 1 | 95 | 697 | 7.9 |
| " 12 | C | 2 | 123 | 866 | 11.0 |
| " 16 | D | 2 | 119 | 800 | 8.0 |
| " 17 | E | 3 | 158 | 646 | 17.5 |
| " 18 | F | 3 | 69 | 330 | 4.0 |
| " 19 | G | 3 | 26 | 137 | 1.5 |
| " 20 | H | 3 | 80 | 467 | 5.5 |
| " 23 | J | 4 | 88 | 525 | 6.0 |
| " 27 | K | 4 | 87 | 440 | 6.0 |
| " 30 | L | 4 | 59 | 300 | 3.2 |
| TOTALS | Days 11 | Volumes 4 | Positions 1045 | Soundings 6281 | Statute Miles 74.7 |

Respectfully submitted

Daniel S. Ling
 (Surveyor)

Examined and approved

A. P. Ratti

A. P. Ratti

Lieut. C. & G. Survey.

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

Refer to No. 30-MDS

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

November 9, 1933

To: Lieutenant A. P. Ratti,
U. S. Coast and Geodetic Survey,
Amagansett, N. Y.

From: The Director,
U. S. Coast and Geodetic Survey.

Subject: Tide Data, ^{Montauk Harbor} ~~Great Pond~~, L. I.

With further reference to your letter of October 17, 1933, your tide observations at Great Pond have been compared with simultaneous observations at our standard tide station at Sandy Hook.

The plane of mean low water determined from this comparison for the reduction of soundings corresponds to a reading of 0.3 foot on tide staff inside Great Pond.

Acting Director.

Approval Sheet for Hydrographic Sheet No. 10 Field

This sheet and accompanying records have been inspected
and are approved.

A handwritten signature in cursive script, reading "A.P. Ratti".

Chief of Party.

Division of Hydrography and Topography:

November 24, 1933.

Division of Charts:

Tide Reducers are approved in
4 volumes of sounding records for

HYDROGRAPHIC SHEET 5326

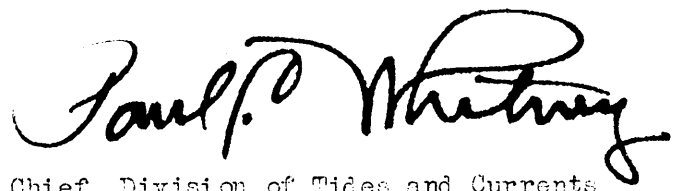
Locality ~~Great Pond~~ Montank Hbr.
Great Pond, Long Island, New York

Chief of Party: A. P. Ratti in 1933

Plane of reference is mean low water reading
0.3 ft. on tide staff at West Dock, Inside Great Pond
10.8 ft. below B. M. 1

Height of mean high water above plane of reference is 2.1 feet.

Condition of records satisfactory except as noted below:


Chief, Division of Tides and Currents

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. *5326*.....

The following statistics will be submitted with the cartographer's report on the sheet:

| | |
|---|----------------------|
| Number of positions on sheet | <i>1045</i> |
| Number of positions checked | <i>47</i> |
| Number of positions revised | <i>5</i> |
| Number of soundings recorded | <i>6281</i> |
| Number of soundings revised | <i>3</i> |
| Number of signals erroneously plotted or transferred | <i>0</i> |

Date: *December 19, 1933*.....

Cartographer: *W. H. Bamford & R. E. DeWent*.....

Dec. 18, 1933

Section of Field Records.

Report on Hydrographic Sheet 5326

Great Pond
Long Island
New York

Surveyed in October 1933

Instructions dated - Feb. 25, 1933

Chief of Party - A. P. Ratti

Surveyed by - A. P. R. - J. C. Lison, - D. S. King

Protracted by - J. J. R. & C. R. S.

Sounding's penciled by - D. S. L.

Topography inked by - Field Party

Verified & inked by - W. H. Sumford & R. E. Talbot

1 The records conform to the requirements of the Hydrographic Manual.

2 The plan and character of development fulfill the requirements of the Hydrographic Manual.

3 The plan and extent of development satisfies the specific instructions.

4 The sounding line crossings are adequate and in good agreement.

5 The 3, 6, 12, 18, 30, 60 foot curves are shown. The 3 foot curve is shown ^{in violet} in the interior of Great Pond, which is the harbor of the Montauk Yacht Club.

6 The field flattening was completed to the extent prescribed in the Hydrographic Manual, except.

(a) The spacing of soundings in Block Island sound and the main dredged channel varied from the records in many cases. This was particularly true where the time interval changed between positions.

(b) Bottom characteristics often differed from those recorded in the records, both in character & location in this manner:
I Characteristics recorded were not plotted in the recorded position.
II Characteristics plotted were not always recorded.

- 7 The field drafting was satisfactory
- 8 No junctions with adjacent sheets were made
No adjacent sheets are verified

9 Remarks

(a) Lat $41^{\circ}-04.35'$, Long $71^{\circ}-55.95'$, 4-5 E day. A 27 ft. sounding appears in a 13 ft. area. This sounding was questioned in the records, (Vol 3 p 4) and was not inked. This sounding omitted from sheet p 27

(b) Lat $41^{\circ}-03.3'$, Long $71^{\circ}-55.4'$, A rock, mentioned in the records, (V. 3 p 29) as ~~Big Rock~~ ^{1 m. left of} ~~Big Rock~~ was plotted as an 'awash rock'

(c) In the main channel leading in to ~~Star~~ ^{the large} Island, several depths of 10 to 13 feet appear in an area charted at 15 ft.

(d) Topographical names with the exception of Mounts were not inked, there being no authority available for them.

(e) These remarks are supplemented by those of Mr. Bamford, who checked the rocks and the plotting.

Respectfully submitted.

Ralph E. DeWent.

Dec. 19, 1933.

Partial Report on H 5326

Dec. 4, 1933.

1/ The protracting was checked and five positions were found to be erroneously plotted - these were changed.

2/ All half foot soundings were plotted by the field party and a number of them were plotted as $0\frac{1}{2}$ - this is contrary to the instructions contained in the Hydrographic Manual (ref. TP 153 HM.)

3/ The name of the signal "BUOY" in Latitude $41^{\circ}05'$ (approx.) was omitted from the smooth sheet and also from the boat sheet by the field party. The name of the signal BUOY was obtained from the contemporary topographic sheet of this locality.

4/ In latitude $41^{\circ}03'30'' + 525$ m. and longitude $71^{\circ}56' + 75$ m. (approximate) - a foul area

Partial report on H 5326

Page 2

4 CONT'D.

is indicated. In the sounding records between position 86 D + 87 D - a note is found - "OCCASIONAL RKS". This is the only authority for indicating this area as "foul".

Warren H Bamford

SECTION OF FIELD RECORDS

Review of Hydrographic Sheet No. 5326.

Great Pond, Long Island, New York

Surveyed in 1933

Soundings obtained by sounding pole and hand lead.

Instructions dated February 25, 1933. (A. P. Ratti).

Chief of party - A. P. Ratti.

Surveyed by - A. P. Ratti, J. C. Tribble, D. S. Ling.

Protracted by - J. J. R. and C. R. S.

Soundings penciled by - D. S. Ling.

Verified and inked by - W. H. Bamford, R. E. DeMent.

1. The records conform to the requirements of the Hydrographic Manual.
2. The plan, character and extent of the survey satisfy the specific instructions.
3. The sounding line crossings and agreement of adjacent lines are satisfactory. There are some differences of one foot but these could be caused by actual differences of only a few tenths of a foot as the pole soundings were recorded to the nearest half foot.
4. The information is sufficient for completely drawing the usual depth curves with the exception of the low water or zero curve which was taken from the topographic sheet when not fixed by soundings. A three foot curve, shown in violet, has been added inside the harbor.
5. The junction in Block Island Sound with H. 5344 is satisfactory.
6. Previous work.

The only previous survey of Great Pond was made in 1911 and is plotted as a sub-sketch on H. 1539. The lines are widely spaced, depend on sextant located signals, and have been plotted on a very small scale. (1-40,000). This survey should be superseded by the recent work, H. 5326.

7. The survey as a whole is thought to be very good. The area has been well covered and shoal development is generally sufficient. A few split lines should have been run northwest from Star Island in the vicinity of signal Tin as the soundings do not develop the low water curve. T. 4768 shows an opening to be almost adjacent to the shoreline of Star Island but whether the depth is $\frac{1}{2}$ foot or more is unknown. The 11 and 12 foot shoaling, which lies in the channel between the south ends of the breakwaters, should have been more closely developed by additional soundings. Note that the Descriptive Report states that this channel was dredged to a minimum depth of 10 feet.

8. No additional work is required. (*See let to Ratti Feb. 3 re depth on chart*)

9. Reviewed by - R. L. Johnston - Jan. 31, 1934.

L. O. Colbert
L. O. Colbert,
Chief, Section of Field Records.

B. Jordan
Chief, Section of Field Work.

Examined and approved:

W. H. Bamford
Chief, Division of Charts.

G. T. DeMent
Chief, Division of H. & T.

February 3, 1934.

To: Lieut. A. P. Ratti,
U. S. Coast and Geodetic Survey,
Ship HYDROGRAPHER,
P. O. Box 702,
Port Arthur, Texas.

Through: Commanding Officer,
U. S. Coast and Geodetic Survey Ship HYDROGRAPHER.

From: The Director,
U. S. Coast and Geodetic Survey.

Subject: Hydrographic survey No. 5326, Montauk Yacht Harbor.

There are inclosed a photostat of a section of survey H. 5326, Montauk Yacht Harbor, and a copy of a page from the sounding record.

There is a question of the depth over the rock on position 54 D. In the Descriptive Report under the paragraph headed "Dangers" it is stated that "There are sunken rocks at 52, 53 and 54 D. That at 52 D is awash at extreme low water, while those at 53 and 54 D are submerged about one foot at extreme low water." This appears to be contrary to the soundings shown at 54D in the record.

If the sounding at 54 D was not on top of the rock and a rock exists at this place which is submerged only one foot at extreme low water, it will be necessary to add it to the hydrographic sheet and to the chart.

It is requested that you advise whether this should be done.

(Signed) J. H. HAWLEY

Inclosure.

Acting Director.

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

U. S. Coast & Geodetic Survey
Ship "HYDROGRAPHER"
Port Arthur, Texas.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY
February 6, 1934

8
8
1934 FEB - 9 - AM 10:39

TO: The Director,
Coast and Geodetic Survey,
Washington, D. C.

FROM: Lieutenant A. P. Ratti,
Coast and Geodetic Survey.

SUBJECT: Hydrographic survey No. 5326, Montauk Yacht Harbor.

With reference to your letter 80 - DRM of February 3, 1934, please be advised that the sounding at 54D was not on top of the rock and that a rock should be added to the hydrographic sheet and chart.

A. P. Ratti

A. P. Ratti, Lieutenant,
Coast and Geodetic Survey
Ship "HYDROGRAPHER".

Applied to chart 362 - 7/19/49 RDG