

5732

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Form 504
Rev. Dec. 1933

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, Director

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. 2
Hydrographic }

State NEW YORK

LOCALITY

South Shore - Long Island

Broad Channel to East Rockaway Inlet

1934

CHIEF OF PARTY

M. O. Witherbee

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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. 2

REGISTER NO. **5732**

State New York

General locality South Shore - Long Island

Locality Broad Channel to East Rockaway Inlet

Scale 1:10,000 Date of survey June 5 to Oct. 9, 1934

Vessel Sachem Shore Party No. 2

Chief of Party M. O. Witherbee

Surveyed by G. A. Stanton

Protracted by _____

Soundings penciled by _____

Soundings in ~~fathoms~~ feet

Plane of reference M. L. W.

Subdivision of wire dragged areas by _____

Inked by M. Silberberg

Verified by M. S.

Instructions dated Feb. 25, 1933, to R. P. Eymann, 192 (Basic Instructions)

Remarks: Project HT 178 assigned to M. O. Witherbee

Also see letter to M. O. W. dated June 27, 1934
and Supplemental Instruction of Aug. 16, 1934

HYDROGRAPHIC SHEET

No Descriptive Report received todate: May 1, 1935.

HYDROGRAPHIC SURVEY NO. 5732

Smooth Sheet 1

Boat Sheet 1

Sounding Records 3 Vols. _____

Descriptive Report No

Title Sheet No

List of Signals No

Landmarks for Charts (Form 567) _____

Statistics No

Approved by Chief of Party No

Recoverable Station Cards (Form 524) _____

Special Chart for Lighthouse Service
(Circular Nov. 30, 1933) _____

Remarks No Descriptive Report received to date: May 1, 1935

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. ..5732

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

Number of positions on sheet	1073
Number of positions checked	20
Number of positions revised	1
Number of soundings recorded	4603
Number of soundings revised	26
Number of signals erroneously plotted or transferred	0

Date: June 13, 1935

Verification by *M. Silverberg*

Time: 35 hrs.

Review by *R.J. Christman*

Time: 10½ hrs

TIDE NOTE FOR HYDROGRAPHIC SHEET

May 27, 1935.

Division of Hydrography and Topography:

✓ Division of Charts: Attention Mr. E. P. Ellis

Tide Reducers are approved in
3 volumes of sounding records for

HYDROGRAPHIC SHEET 5732

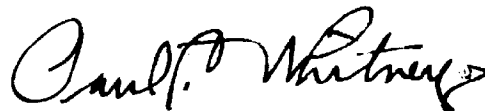
Locality Broad Channel to East Rockaway Inlet, South Shore Long Island, N. Y.

Chief of Party: M. O. Witherbee in 1934
Plane of reference is mean low water reading
4.3 ft. on tide staff at Far Rockaway (East Rockaway Inlet)
10.2 ft. below B.M. 4

0.7 ft. on tide staff at Long Beach
12.9 ft. below B. M. 1

Height of mean high water above plane of reference is 3.9 feet at
Long Beach; 4.1 feet at Far Rockaway.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

1. CONFORMITY TO HYDROGRAPHIC MANUAL

The sounding records are neat and legible and conform to the requirements of the hydrographic manual. The position numbers and day letters are carelessly drawn. The colors on the volume covers do not agree with the records. Insufficient bottom characteristics were taken and those that were recorded had to be placed on the smooth sheet. The hydrographic and topographic signals were not shown as being checked and had to be verified. The hydro signal LOT could not be verified since no cuts were recorded. The list of signals were not recorded on the first page of Volume one.

2. DEPTH CURVES

The usual depth curves could be drawn except in places where the spacing between soundings were such as to permit only the representative curve to be shown. In the streams only portions of the curves can be drawn. In general it was possible to draw smooth curves.

3. FIELD PLOTTING

The field plotting was sufficient to the extent required for the soundings. All buoys and dangers were located satisfactorily. The execution of the buoys however had to be improved for clarity. One position was corrected 200 meters.

4. OFFICE PLOTTING

The office plotting consisted of corrections as listed above. Black barrall buoy No. 1 was plotted. The high water line was compared with the photo- compilation south of 40-36 and all necessary changes made. There are however differences in this survey north of 40-36 as shown on H-4225 (1926) but no changes were made because they could not be verified with the compilation not yet received in the office. There are however no conflicts with the hydrography.

5. JUNCTIONS

No junctions were made since the only contemporary survey to the east H-5731 (1934) has not been verified. This survey is a resurvey of work done in 1927 (See H-4792 and H-4793) and therefore no soundings were transferred from these sheets.

Respectfully submitted,

M. S. Silverberg

June 13, 1935

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5732 (1934)

Broad Channel to East Rockaway Inlet, South Shore - Long Island, New York
Surveyed in October, 1934
Instructions dated February 25, 1933 (R. P. Eymen)

Hand Lead Soundings.

3 Point Fixes on Shore Signals.

Chief of Party - M. O. Witherbee.
Surveyed by - G. A. Stanton.
Protracted by - L. C. A., P. W. S., S. T. Y.
Soundings penciled by - J. J. M., M. O. W., G. M.
Verified and Inked by - M. Silverberg.

1. Condition of Records.

The records do not conform to the requirements of the Hydrographic Manual as follows:

- a. No list of signals was entered in the sounding record.
- b. Abstract of position number and day letters was not entered on the cover and title page of the sounding records in color. This was corrected in the office.
- c. An insufficient number of bottom characteristics were recorded.
- d. Evidence of checking by the field party of topographic and hydrographic signals is lacking in that the initials of the plotter and checker do not appear on the sheet. The checking was accomplished in the office.
- e. No Descriptive Report was submitted.

2. Compliance with Instructions for the Project.

The plan and extent of the development are in accordance with the instructions for the project.

3. Sounding Line Crossings.

Depths at sounding line crossings are in satisfactory agreement and depths generally are consistent.

4. Depth Curves.

Within the limits of the survey the usual depth curves may be satisfactorily drawn, including portions of the low water line.

5. Junctions with Contemporary Surveys.

The junction with H-5731 (1934) to the eastward will be considered in the review of that sheet.

The survey overlaps the U. S. Engineer's survey of 1934 (EP. 27530 and 27531) in East Rockaway Inlet. The agreement is good as indicated by the 6 foot curve, although there are indications of deepening in the channel. This is of small importance, as the channel has now been dredged, see EP. 28715-16 (1935).

6. Comparison with Prior Surveys.

- a. H-47 (1835), H-1437 (1879),
H-54 (1840), H-1538 (1882).

Three of these surveys carry soundings on the outside coast into depths of 12 feet; the other, H-1437 (1879), is a survey of East Rockaway Inlet, which, however, on the present survey, is shown about 3 miles farther to the west. Only in recent years have steps been taken to protect this shore and the changes since the above surveys were made have been so extensive that no useful cartographic purpose would be served by making a detailed comparison with the present survey.

- b. H-4792 (1927), H-4793 (1927).

These surveys are on a scale of 1-10,000. The area is very changeable and many natural, as well as artificial, changes have taken place since these surveys were made. A jetty has been constructed at East Rockaway Inlet and the controlling depth at the entrance shown by the present survey is 8 feet instead of 7 feet as shown on H-4792 (1927). The deep holes in Reynolds Channel have shoaled in some cases as much as 10 feet, and the positions of some of the shoal areas have shifted to the eastward. Similar changes are indicated in other channels common to the two surveys, though the 1934 survey does not fully develop the area, showing only one line of soundings in part of Bannister Creek. There is nothing in the records to indicate the condition of the water areas outside of the channel line.

Because of the many changes, the above surveys should be superseded by H-5732 (1934) for future charting purposes.

7. Comparison with Chart No. 542 and No. 579.

- a. Hydrography.

Within the area of the present survey the chart is based on surveys discussed in the foregoing paragraphs and on surveys by the

U. S. Engineers. HP. 27530 and 27531 of 1934 are the latest complete survey of the Inlet and are the authority for the two charted wrecks. These wrecks are not mentioned in the records of H-5732 (1934) but the sounding of 7 feet agrees with the depth over the wreck in the channel noted on the blueprint. The two wrecks should be retained on the chart.

*Channel wreck removed. See
Rps. 28715, 28716 S.M.A.*

The short breakwater or jetty charted in lat. 40°35.45', long. 73°44.95' originates with U. S. Engineer's Survey HP. 24096 (1930), where it is shown as a line of piles. These piles are not mentioned in the 1934 survey records nor do they show on the air photos taken in March, 1934, but in the absence of definite proof of their non-existence at the present time, this feature should be shown on the chart by a broken line.

b. Aids to Navigation.

A post light has been established on the end of the jetty and the buoys have been shifted after the field work on H-5732 (1934) was completed (see N to M 46 of 1934). Buoys in this Inlet are not charted due to the frequent shifting made necessary by changing conditions in the channel.

8. Field Plotting.

Protracting of positions and penciling of soundings were well done, only one position being found in error.

9. Additional Field Work Recommended.

The survey is complete and satisfactory. No additional work is necessary.

10. Superseding Old Surveys.

Within the area covered, the present survey supersedes the following surveys for charting purposes:

H- 47 (1835)	in part.
H- 54 (1840)	" "
H-1437(1879)	" "
H-1538(1882)	" "
H-4792(1927)	" "
H-4793(1927)	" "

11. Reviewed by - R. J. Christman, June, 1935.

Inspected by - A. L. Shalowitz.

Examined and approved:

C. K. Green, *C. K. Green*
Chief, Section of Field Records.

R. O. Pollock
Chief, Division of Charts.

F. S. Border
Chief, Section of Field Work.

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

Applied to Chart 579. 3.m.a. July 25, 1935

25 Jan 2, 1936

[Signature]