

9301

Diag. Cht. No. 1214-2 & 1215-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey SHORELINE (PHOTOGRAMMETRIC)

Field No. PH-54 (49)C Office No. T-9301

LOCALITY

State NEW YORK

General locality GREAT SOUTH BAY

Locality CAPTREE ISLAND TO POINT O'WOODS

194 9

CHIEF OF PARTY

H. A. Paton, Baltimore Photo. Office

E. R. McCarthy, Chief of Field Party

LIBRARY & ARCHIVES

DATE Aug 7 - 1951

8-1870-1 (1)

9301

DATA RECORD

T - 9301

Project No. (II):

Ph-54(49)C

Quadrangle Name (IV):

Field Office (II): Babylon, N. Y.

Chief of Party: E. R. McCarthy

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: Hubert A. Paton

Instructions dated (II) (III):

20 October 1949
3 February 1950

Copy filed in Division of
Photogrammetry (IV)

Office Files

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV): 5-5-50

Date reported to Nautical Chart Branch (IV):

Applied to Chart No. 578

Date: 7-17-51

Date registered (IV): 19 July 1951

Publication Scale (IV): —

Publication date (IV): —

Geographic Datum (III): N. A. 1927

Vertical Datum (III): MHW

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): ~~SIDEWALK, 1949~~ PO1, 1933

Lat.: 40° 39' 14.292 (440.9)
40° 38' 31.812" (981.3m)

Long.: 73° 07' 49.244 (1156.9)
73° 11' 46.577" (1094.5m)

Adjusted

~~Unadjusted~~

Plane Coordinates (IV): Lambert Conformal State: N.Y.

Zone: L.1.

Y= 157,292.03

X= 2,241,307.47

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

Areas contoured by various personnel
(Show name within area)
(II) (III)

(shoreline)

DATA RECORD

Field Inspection by (II): W. H. SHEAROUSE)
 J. A. CLEAR)
 J. T. BEECHER)
 H. R. SPIES)
 H. R. MOORE)

Date: Jan. 1950

Planetable contouring by (II): _____

Date: _____

Completion Surveys by (II): *None*

Date: _____

Mean High Water Location (III) (State date and method of location): 8-14-44 and 10-11-47 (date of photography) - verified in part by planetable and visual field inspection during field season ending January 1950.

Projection and Grids ruled by (IV): T. L. Janson

Date: 2-9-50

Projection and Grids checked by (IV): H.D.W.

Date: 2-10-50

Control plotted by (III): B. Wilson

Date: Feb. 1950

Control checked by (III): A. K. Heywood

Date: Feb. 1950

Radial Plot or Stereoscopic Control extension by (III): D. M. Brant and
 A. C. Rauck, Jr.

Date: Feb. 24, 1950

Stereoscopic Instrument compilation (III): Planimetry
 Contours

Date: _____

Date: _____

Manuscript delineated by (III): B. Wilson

Date: April 7, 1950

Photogrammetric Office Review by (III): R. Glaser

Date: April 28, 1950

Elevations on Manuscript checked by (II) (III): _____

Date: _____

4

U. S. Coast and Geodetic Survey "C" camera—focal length,
Camera (kind or source) (III): 6" (1944)
U.S. Dept. of Agriculture Single lens camera (1947)

Number	Date	Time	Scale	Stage of Tide (above MLW)
ASA-7D-52 to ASA-7D-57 incl.	10-11-47	1328	1:10,000	0.1 ft. ✓
44-C-2944 to 44-C-2948 incl.	8-14-44	1345	1:10,000	0.4 ft. ✓

From Predicted Tables

Tide (III)

Reference Station: Sandy Hook
Subordinate Station: Fire I. Lt., Great South Bay
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
1.0	4.6	5.6
0.2	0.7	0.8

Washington Office Review by (IV): *Everett H. Ramey*

Date: *28 June 1950*

Final Drafting by (IV): *Day, Taylor, Lucas, Dean*

Date: *22 Jan 1951*

Drafting verified for reproduction by (IV): *C. Kupiec*

Date: *23 Jan 1951*

Proof Edit by (IV): *Everett H. Ramey*

Date: *13 Apr 1951*

Land Area (Sq. Statute Miles) (III): *4*

Shoreline (More than 200 meters to opposite shore) (III): *17 miles*

Shoreline (Less than 200 meters to opposite shore) (III): *0.2 mile*

Control Leveling - Miles (II): *Inapplicable*

Number of Triangulation Stations searched for (II): *11*

Recovered: *7*

Identified: *8 **

Number of BMs searched for (II): *5*

Recovered: *4*

Identified: *4*

Number of Recoverable Photo Stations established (III): *7*

Number of Temporary Photo Hydro Stations established (III): *9* ✓

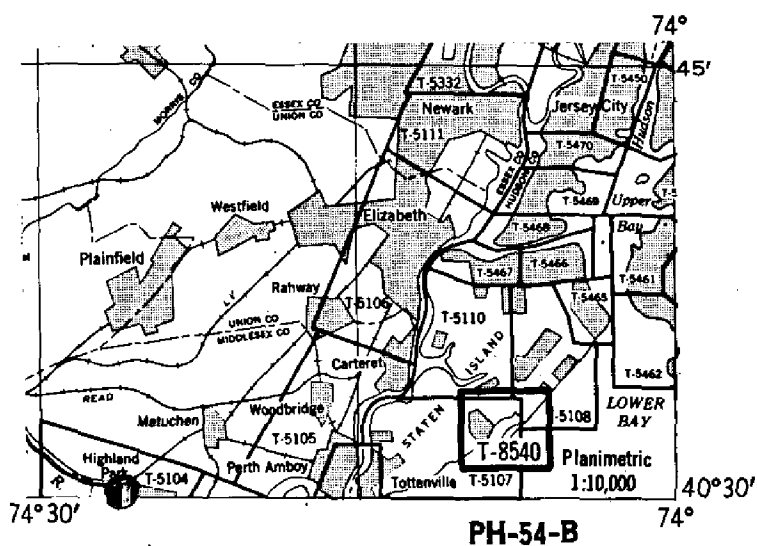
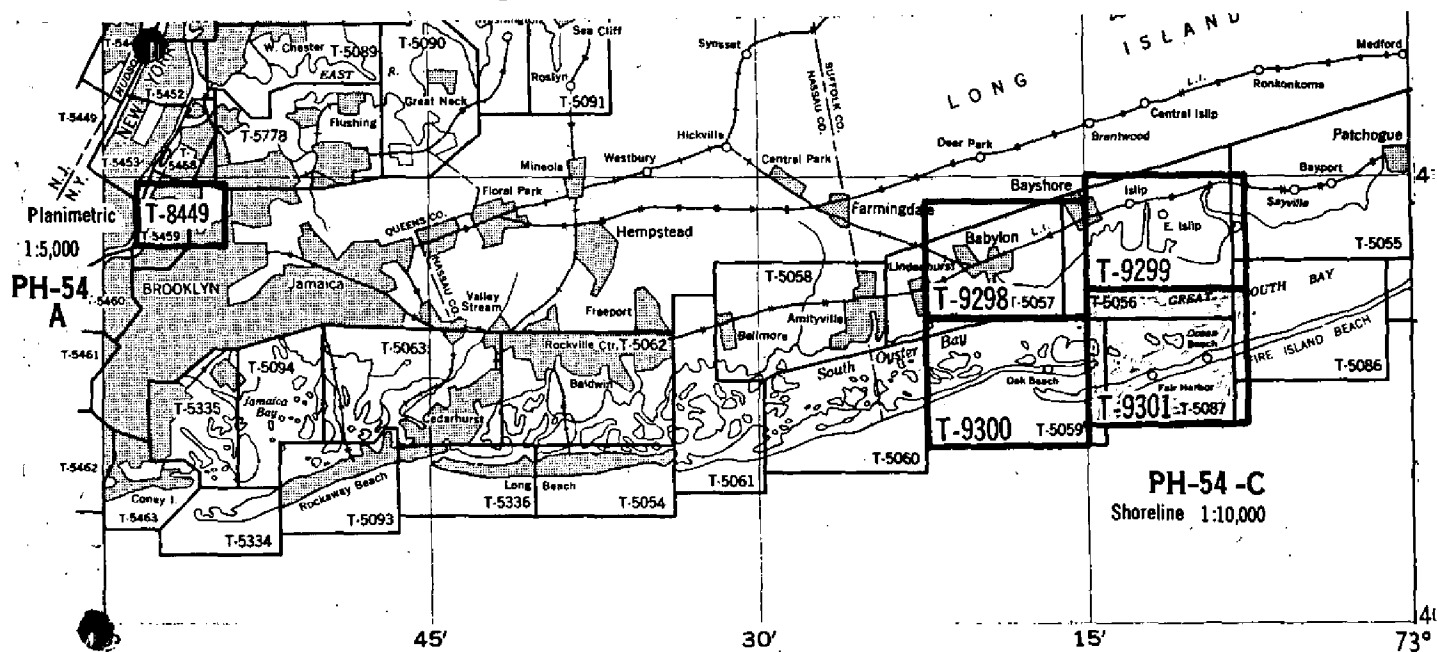
Remarks: ** Includes one newly established station - Sidewalk, 1949.*

PLANIMETRIC AND SHORELINE MAPPING PROJECT

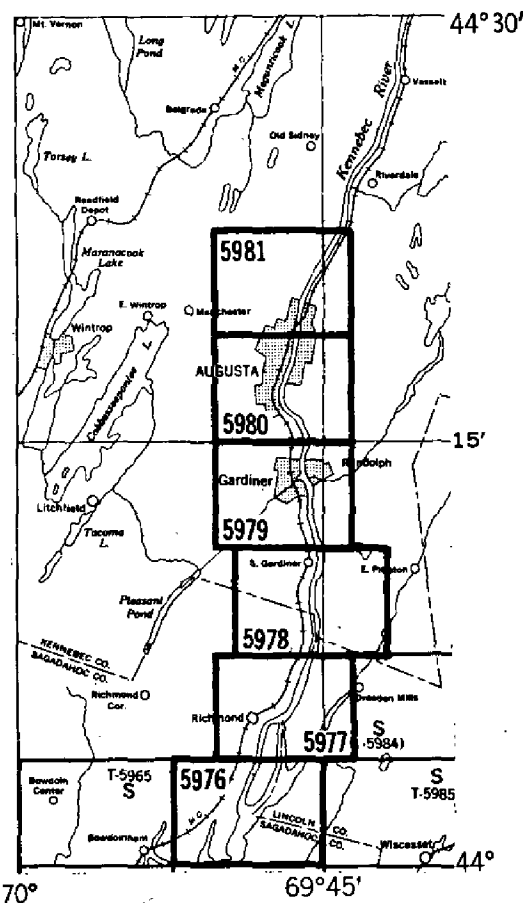
PH-54 (49)

PH-51 (49)

NEW YORK, Long Island, and Staten Island



PH-51 (49)
MAINE, Kennebec River
SHORELINE
1:10,000



Summary to Accompany T-9301

Shoreline map T-9301 is one of four similar maps in Project Ph-54(49)C and is the southeasterly map of this project. It covers a portion of Great South Bay and Fire Island Inlet and land area adjacent extending from Captree Island to the village of Point-O'-Woods.

This is a graphic compilation project, in advance of hydrographic surveys to be done in this area at an early date. The field operations preceding compilation included the inspection of shoreline and alongshore areas and the establishment of some additional horizontal control.

The manuscript is at a scale of 1:10,000 and shows shoreline, alongshore features and photo-hydro stations. It covers 4' in latitude by $7\frac{1}{2}$ ' in longitude.

A cloth-mounted lithographic print with the descriptive report will be registered and permanently filed.

**Field Inspection Report
and
Photogrammetric Plot Report**

These reports for this survey are filed in the General Files, Division of Photogrammetry as part of the Descriptive Report for survey T-9300 and cover all of project Ph-54(49)C, surveys T-9298 through T-9301.

MAP T-9301

PROJECT NO. Ph-54(49)C

SCALE OF MAP 1:10,000

SCALE FACTOR 1.000

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y -COORDINATE LONGITUDE OR x -COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION		N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
SOUTH RANGE, 1933	LI P 56	N. A. 1927	40 38	55.421					1709.5	141.3		
			73 08	51.326					1205.9	203.8		
SALTAIRE, TANK, 1933	G-4084 P. 64	"	40 38	09.586					295.7	1555.1		
			73 11	34.337					806.9	603.1		
POINT-O-WOODS TANK, 1933	" "	"	40 38	59.159					1824.8	26.0	See Item 67	
			73 07	52.848					1241.7	168.0		
POI, 1933	LI P 49	"	40 39	14.292					440.9	1409.9		
			73 07	49.244					1156.9	252.7		
OCEAN BEACH WIND- MILL, 1933	G-4084 P. 66	"	40 38	48.898					1508.3	342.5		
			73 08	55.898					1313.4	96.4		
WHIG EAST FLAG- POLE, 1933	G-4084 P. 64	"	40 39	03.867					119.3	1731.5	Station disturbed. See Form 526	
			73 14	37.236					874.9	534.8		
FIRE ISLAND LIGHT- HOUSE, 1865	G-1246 P. 12	"	40 37	56.431					1740.7	110.0		
			73 13	08.469					199.0	1211.0		
SIDEWALK, 1949	W.O. G-8444	"	40 38	31.812					981.3	869.5		
			73 11	46.577					1094.5	315.3		
FILL, 1949	W.O. G-8444	"	40 39	30.520					941.4	909.4	Topographic Station	
			73 10	09.576					225.0	1184.5		
WIND, 1949	W.O. G-8444	"	40 39	21.754					671.0	1179.8	Topographic Station	
			73 12	14.947					351.1	(1058.5)		

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1 FT. = 3048006 METER

COMPUTED BY: H.R. Rudolph

DATE 2-7-50

CHECKED BY: G.N. Nathan

DATE 7 Feb. 1950

M-2388-12

COMPILATION REPORT
T-9301
Ph-54(49)C

FIELD INSPECTION REPORT

The field inspection report for this area is included in the descriptive report for Survey T-9300 submitted to the Washington Office 4-19-50. *Filed in General Files, Div. of Photogrammetry*

PHOTOGRAMMETRIC PLOT REPORT

The photogrammetric plot report for this area is included in the descriptive report for Survey No. T-9300 submitted to the Washington Office on 4-19-50. *Filed in General Files, Div. of Photogrammetry.*

31. DELINEATION

This survey was delineated by graphic methods.

The shoreline of Great South Beach, extending the width of the map has not been delineated on the manuscript in accordance with instructions.

The 1947 stereo-coverage and three-cut detail points ended at longitude 73°09'. From there eastward the delineation is from one very fuzzy 1947 photo and from one sharp 1944 photo. Even though these two photos were used to the very edge, it is believed this area is within accuracy requirements. *See Item 66*

32. CONTROL

The identification, density and placement of horizontal control within the area of this survey was entirely satisfactory. *See Item 67*

33. SUPPLEMENTAL DATA

- (1) Geographic names standard No. 3 dated 2-7-50 on AMS Bay Shore East quadrangle.
- (2) Air photo compilations T-5086, T-5087, and T-5059 of this bureau.

34. CONTOURS AND DRAINAGE --

Inapplicable.

35. SHORELINE

The shoreline inspection was adequate.

The delineation of low water lines were based on field inspection

35. SHORELINE (continued)

data. Shoal and shallow lines were delineated from office interpretation of the photographs.

See Item 66

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS

Forms 567 for one non-floating aid and 8 landmarks are being submitted with this report.

See Items 67 and 68

38. CONTROL FOR FUTURE SURVEYS

Seven forms 524 are being submitted with this report.

A list of recoverable topographic stations and photo-hydro stations with descriptions of the latter is included in item 49.

39. JUNCTIONS

Junction with Survey No. T-9300 to the west has been made and is in agreement. Junction with T-9299 to the north is an all water area. To the east and south are the project limits.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41-45

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with the AMS Bay Shore East Quadrangle, scale 1:25,000, edition of 1944, revised to 1947.

The manuscript was also compared with U.S.C. & G.S. Air photo compilations T-5086, T-5087, and T-5059.

47. COMPARISON WITH NAUTICAL CHARTS

This survey has been compared with nautical chart No. 578, scale 1:40,000, published April 26, 1948, corrected to February 27, 1950.

Items to be applied to nautical charts immediately

- (1) Telephone cable crossing - terminal at Saltaire
- (2) Power transmission cable crossing - terminal at Fair Harbor

Items to be carried forward

None.

Respectfully submitted
28 April 1950

Bernice Wilson
Bernice Wilson
Carto Survey Aid

Approved and forwarded
4 May 1950

Hubert A. Paton
Hubert A. Paton
Comdr., USC&GS
Officer in Charge

Wm

49. NOTES FOR THE HYDROGRAPHER

The following is a tabulation of recoverable topographic stations shown on the manuscript:

FILL, 1949
WIND, 1949
STACK, 1949
STACK, 1949
SPIRE, 1949
TANK, 1949
MAST, 1949

The following is a list of photo-hydro stations and their descriptions:

(Numbers 042 and 043 were assigned in the compilation office)

Photo-hydro No.	Photograph No.	Description
035	7D-56	Corner of bulkhead
036	44C-2946	NE gable
037	44C-2946	NW corner of pier
038	7D-55	W gable
039	7D-55	NW corner of pier
040	7D-55	SW corner of pier
041	7D-53	SW corner of pier
042	7D-54	End of jetty
043	7D-55	House and 25 ft. wood tower with private light.

50-

PHOTOGRAMMETRIC OFFICE REVIEW

T. 9301

1. Projection and grids h 2. Title h 3. Manuscript numbers h 4. Manuscript size h

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy h 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) h 7. Photo hydro stations h 8. Bench marks h
~~9. Plotting of sextant fixes~~ 10. Photogrammetric plot report h 11. Detail points h

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline h 13. Low-water line h 14. Rocks, shoals, etc. h 15. Bridges h 16. Aids to navigation h 17. Landmarks h 18. Other alongshore physical features h 19. Other along-shore cultural features h

PHYSICAL FEATURES

20. Water features h 21. Natural ground cover h 22. Planetable contours h 23. Stereoscopic instrument contours h 24. Contours in general h 25. Spot elevations h 26. Other physical features h

CULTURAL FEATURES

27. Roads h 28. Buildings h 29. Railroads h 30. Other cultural features h

BOUNDARIES

31. Boundary lines h 32. Public land lines h

MISCELLANEOUS

33. Geographic names h 34. Junctions h 35. Legibility of the manuscript h 36. Discrepancy overlay h 37. Descriptive Report h 38. Field inspection photographs h 39. Forms h40. Raymond Blaser
ReviewerJoseph Steinberg
Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler_____
Supervisor

43. Remarks:

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NON-FLUORESCENT LANDMARKS FOR CHARTS

TO BE CHARTED
~~NON-FLUORESCENT~~

STRIKE OUT ONE

Baltimore, Md.

April 28

1950

I recommend that the following objects which have ~~(assessed)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(determine)~~ the charts indicated.

The positions given have been checked after listing by

R. A. Glaser

NEW YORK				POSITION				METHOD OF LOCATION AND SURVEY NO.		DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE		LONGITUDE		DATUM							
			° ' "	D. M. METERS	° ' "	D. P. METERS								
* TANK	Steel, black	POINT-O-WOODS TANK	40 38	1824.8	73 07	1241.7	N. A. 1927	Triang. 9301	1933	X	X	X	70, 578 1108	
TANK	Steel, gray, (Formerly charted as WINDMILL)	OCEAN BEACH WINDMILL	40 38	1508.3	73 08	1313.4	"	"	1933	X	X	X	"	
STACK	Brick (50' high)(At Ocean Beach)	STACK	40 38	1721	73 09	443	"	Photo Plot 9301	1949	X	X	X	"	
SPIRE	Church, white (75' high)	SPIRE	40 38	1438	73 09	709	"	"	1949	X	X	X	"	
TANK	Steel, gray (150' high)	TANK	40 38	1203	73 09	547	"	"	"	X	X	X	"	
TANK	Steel, black (approx. 100' high)	SALTPIRE TANK	40 38	295.7	73 11	806.9	"	Triang. 9301	1933	X	X	X	"	
MAST	Steel, red & white (300' high)	MAST	40 37	1698	73 12	1407	"	PHOTO PLOT 9301	1949	X	X	X	"	
STACK	Brick (50' high)(At Saltaire)	STACK	40 38	350	73 12	470	"	"	"	X	X	X	"	
Original filed with Nautical Chart Letter L-290(1950)														
* See Item 67														

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating* aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

**TO BE CHARTED
TO BE DELETED**

STRIKE OUT ONE

NONFLOATING AIDS: URBAN MARKS FOR CHARTS

Baltimore, Maryland

April 28 1950

I recommend that the following objects which have ~~been~~^{been} inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by

B. Glaser

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids to navigation*, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

48. GEOGRAPHIC NAMES

— • Atlantic Ocean • —

— • Captree Island •

— • Clam Pond •

— • Dickerson Channel •

~~— • East Channel •~~

— • East Island •

— • East Fire Island •

— • Fair Harbor •

— • Farm Shoals •

— • Fire Island Inlet •

— • Fire Islands •

— • Great South Bay •

— • Great South Beach •

— • Ocean Bay Park •

— • Ocean Beach •

— • Point O' Woods •

~~— • Ronge Channel •~~

— • Saltaire •

— • Sexton Island •

— • Short Beach •

— • Snakehill Channel •

— • West Channel •

— • West Fire Island •

— • Whig Inlet •

• Names approved

6-28-50

a.j.w.

Review Report-T-9301
Shoreline Map
28 June 1930

62. Comparison with Registered Topographic Surveys:

T-479	1:10,000	1834
T-1375	1:10,000	1873-74
T-1314	1:10,000	1873
T-1851	1:10,000	1887
T-2948	1:10,000	1909
T-5059	1:10,000	1933
T-5086	1:10,000	1933
T-5087	1:10,000	1933

This survey supersedes the above surveys for nautical charting purposes for the area of this map.

63. Comparison with Maps of Other Agencies:

Bay Shore East, New York
(AMS quadrangle) 1:25,000 1944, revised 1947

64. Comparison with Contemporary Hydrographic Surveys:

None

65. Comparison with Nautical Charts:

578	1:40,000	1941	revised 50-2/6
1214	1:80,000	1940	" 48-6/14

66. Adequacy of Results and Future Surveys: *No significant differences occur between this map and the charts.*

Features below the plane of mean high-water are subject to verification or revision by hydrographic surveys. This survey complies with project instructions and meets the National Standards of Map Accuracy, except for the area at the east limit, accuracy of which could not definitely be determined (see items 31 & 67).

67. Control:

In the resection of two new stations in the area of Survey T-9299, it was noted that directions to triangulation station "Point-O'-Woods, Tank, 1933" were inconsistent with the other observed directions. The position of the tank observed on disagrees with the published position of the station by approximately 15 meters. Insufficient photographic coverage prevented a conclusive check of the compilation in this area.

Page 2
T-9301

This investigation is discussed in more detail under Item 67 of the Descriptive Report for T-9300. A new Form 526 has also been submitted to the Division of Geodesy. This station is also listed on Form 567, attached.

68. Landmarks and Aids:

Nautical Chart 578 shows a radio beacon near Fire Island Lighthouse. This survey positions a radio mast at approximately this same position (Form 524 submitted). The field inspector did not report whether or not this mast held a beacon.

Reviewed by:

Everett H. Ramey
Everett H. Ramey

Approved by:

A. V. Griffith
Chief, Review Section
Division of Photogrammetry

H. Rodman
Chief, Nautical Chart Branch
Division of Charts

O. S. Reading
Chief, Div. of Photogrammetry

W. M. Seafie
Chief, Div. Coastal Surveys
U.S.N.

NAUTICAL CHARTS BRANCH

SURVEY NO. 9301

Record of Application to Charts

[illegible]

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.