

5612

774

Diag'd. on Diag. Ch. No. 1215-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Photogrammetric Shoreline

Field No. PH-16(47) Office No. T-5612

LOCALITY

State New York

General locality Long Island

Locality Jones Beach to Gilgo Beach

1947

CHIEF OF PARTY

R.J. Sipe

LIBRARY & ARCHIVES

DATE December 19, 1949

8-1870-1 (1)

5612

DATA RECORD

T - 5612

See Review Report (Supplement)

Project No. (II):

PH-16(47)

Quadrangle Name (IV):

Field Office (II):

West Hempstead, N. Y.

Chief of Party: Riley J. Sipe

Photogrammetric Office (III):

Baltimore, Md.

Officer-in-Charge: Thos. B. Reed

Instructions dated (II) (III):

10 September 1947

2 March 1948

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): *3-15-49* Date reported to Nautical Chart Branch (IV): *3-21-49*

Applied to Chart No. *579* Date: *May 1949* Date registered (IV): *11-9-49*

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III):

N. A. 1927

Vertical Datum (III):

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

MHW

Reference Station (III): JONES 2, 1933

Lat.: 40° 36' 23.680" (730.4m) Long.: 73° 26' 27.126" (637.7m)

Adjusted

~~XXXXXX~~

Plane Coordinates (IV):

State: N.Y.

Zone: Long Island

Y= 139,323.71'

X= 2,155,256.83'

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.

DATA RECORD

Field Inspection by (II): *See also Review Report (Supplement)*

Date:

I. Y. Fitzgerald

9-4-47 to -9-15-47

W. R. Shearuse [Ph-54(49)c]

Jan. 1950

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location):

Same as date of photographs ^{5/12/47} ~~supplemented by field inspection~~ ~~Sept 47~~
Section of coastal shoreline east of 73° 24.2 revised 3/5 from photograph
A.S.A. - 7-D-74 of 10/2/47 in order to join T-9300 *See Review Report (Supplement)*
 Projection and Grids ruled by (IV): H.R.

Date: 11-14-47

Projection and Grids checked by (IV): T.L.J.

Date: 11-14-47

Control plotted by (III): F.J.Tarcza

Date: 5-12-48

Control checked by (III): M.F.Kirk

Date: 5-49

Radial Plot or Stereoscopic

Control extension by (III): *H.R. Eichert [for Ph-54(49)c]*
 F.J.Tarcza

Date: Mar 1950

8-1948

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III):

J. D. McEvoy

Date:

12/14/48 to 2/23/49

Photogrammetric Office Review by (III):

J. Steinberg

Date:

3-1-49

Elevations on Manuscript

checked by (II) (III):

Date:

Camera (kind or source) (III): *C&GS, single-lens, type D, focal length 12"*

PHOTOGRAPHS (III)

Number	Date	Time	Scale (Ratioed)	Stage of Tide
*47-D-148 to 47-D-153	5-27-47	1050	1:10,000	0.3' above MLW
**47-D-39 to 47-D-42	5-27-47	0940	1:10,000	1.3' above MLW
35-139 and 140*	unknown		1:10,000	

* not used for detailing. *ENR*

ASA-70-73 10-20-47 1232 1:10,000 3.5' above MLW
to 74
[See Review Report (Supplement)]
Tide (III)

Reference Station: Sandy Hook
Subordinate Station: Long Beach outer Coast
Subordinate Station: Green Island, Hempstead Bay

Ratio of Ranges	Mean Range	Spring Range
1.0	4.6	5.6
1.0	4.5	5.4
0.4	2.0	2.4

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

Date: *4 Aug 1949*

Final Drafting by (IV): *Catherine F. Manly* 7/6/50 7/28/50

Date: *1 June 1950*

Drafting verified for reproduction by (IV): *W.O. Hallum* *W. Streifer*

Date: *12-22-50*

Proof Edit by (IV): *W. Streifer*

Date: *1/4 51*

Land Area (Sq. Statute Miles) (III): 8.5

Shoreline (More than 200 meters to opposite shore) (III): 19 statute miles

Shoreline (Less than 200 meters to opposite shore) (III): 29 statute miles

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 5

Recovered: 4

Identified: 2

Number of BMs searched for (II): 0

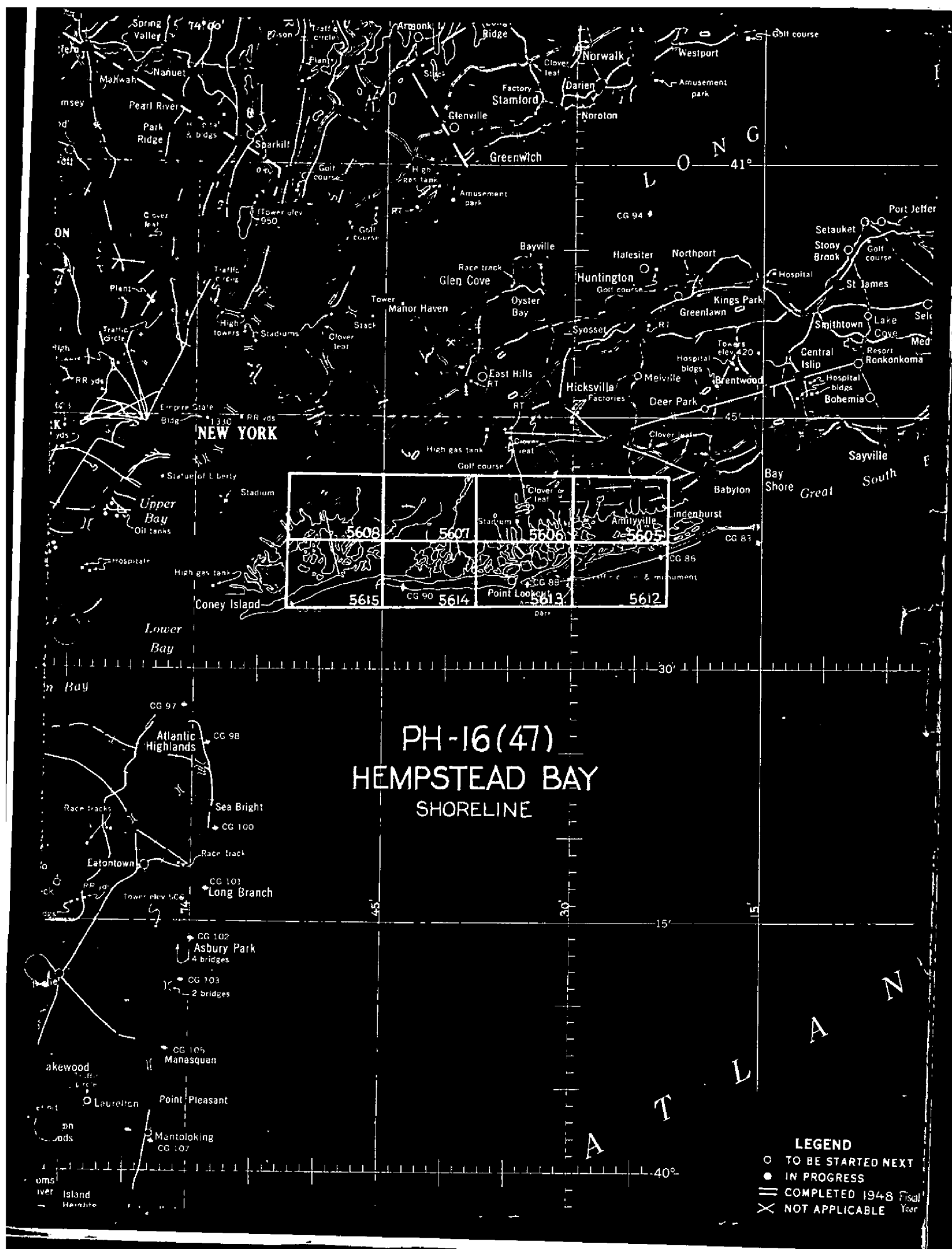
Recovered:

Identified:

Number of Recoverable Photo Stations established (III): 1

Number of Temporary Photo Hydro Stations established (III): 2

Remarks:



Summary to Accompany T-5612

Shoreline map T-5612 is one of eight similar maps in Project Ph-16(47) and is at the eastern part of the project. It covers a part of the Great South Bay and the land areas adjacent.

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

At the time of the field inspection, there was incomplete photographic coverage along the eastern limit of this map. Consequently, this map was completed at a later date in conjunction with project Ph-54(49)C. This is discussed more fully in the Review Report (Supplement), attached to the report for this map.

The manuscript consists of one sheet at a scale of 1:10,000 and covers $3 \frac{3}{4}$ ' in latitude by $7 \frac{1}{2}$ ' in longitude.

FIELD INSPECTION REPORT
T-5612
(40-33.75 / 73-22.50)
Project Ph-16(47)
R.J. Sipe, Chief of Party

This report is for one of eight shoreline sheets comprising Project Ph-16(47). Information contained herein is that which applies, in general, to this sheet alone. Field Inspection Report, Project Ph-16(47) contains information which applies to the project as a whole; and, to which this report is cross referenced. *See Review Report (Supplement)*
This is filed in the Div. of Photogrammetry General Files.

1. DESCRIPTION OF THE AREA:

This sheet has within its limits the southern section of South Oyster Bay, numerous marsh islands and Tobay Beach. South of Tobay Beach is the Atlantic Ocean.

2. COMPLETENESS OF FIELD INSPECTION:

See Field Inspection Report, Project Ph-16(47).

3. INTERPRETATION OF THE PHOTOGRAPHS:

See Field Inspection Report, Project Ph-16(47).

4. HORIZONTAL CONTROL:

Two C & G S triangulation stations were recovered and identified as control for the plot. One three point fix was made to replace a triangulation station not recovered.

7. MEAN HIGH WATER LINE:

See Field Inspection Report, Project Ph-16(47).

8. LOW WATER LINE:

See Field Inspection Report, Project Ph-16(47).

9. WHARVES AND SHORELINE STRUCTURES:

See Field Inspection Report, Project Ph-16(47).

10. DETAILS OFFSHORE FROM THE HIGH WATER LINE:

A wreck lying in the Atlantic Ocean just offshore and to the east of triangulation station JONES 2 was identified. See Compilation Report, Sect. 32.

See Field Inspection Report, Project Ph-16(47).

11. LANDMARKS AND AIDS TO NAVIGATION:

Fixed aids to navigation in this sheet marking the State Boat Channel were not identified. (See Field Inspection Report, Project Ph-16(47)).

Landmarks are adequately discussed in Field Inspection Report, Project Ph-16(47).

12. HYDROGRAPHIC CONTROL:

Only two photogrammetric hydrographic stations were identified. There are few objects suitable for use which could be positively identified. A list of these stations is attached.

15. BRIDGES:

There are no bridges over navigable water in this sheet.

18. GEOGRAPHIC NAMES:

See special Geographic Names Report by Mr. A. J. Wraight, Topographic Engineer.

19. COAST PILOT INFORMATION:

See Field Inspection Report, Project Ph-16(47).

Submitted:
18 November 1947

I. Y. Fitzgerald
I. Y. Fitzgerald,
Cartographer

SCALE FACTOR 1.000

FACTOR DISTANCE
GRID OR PROJECTION LINE
IN METERS

393.4	(1457.3)
211.6	(1198.7)

730.4 (1120.3)
637.7 (772.9)

737.3 (1113.4)
619.5 (761.1)

372.2	(1478.5)
955.7	(155.0)

427.2	(1423.5)
1249.3	(161.6)

DATE 3 May 1948

M-2388-12

COMPILATION REPORT

SHORELINE MANUSCRIPT, SURVEY T-5612

Manuscript T-5612 is one of eight shoreline surveys in Project No. Ph-16(47) Long Island. This manuscript covers the area along the south shore of Long Island from Jones Beach State Park to Gilgo Beach. *See Review Report (Supplement)*
Compilation instructions for this project dated 2 March 1948 have been complied with.

26. CONTROL

For the layout of control on this manuscript refer to the radial plot report. A list of control stations is included in this report on Form M-2388-12.

27. RADIAL PLOT

Refer to the Radial Plot report for Surveys T-5605, 5606, 5612 and 5613 submitted to the Washington Office 2 September 1948. *Filed in Div of Photogrammetry General Files*

28. DELINEATION

Compilation is in accordance with Photogrammetry Instructions No. 17 dated 15 September 1947.

Limits of areas of marsh, high ground and interpretation of other inland features were determined after careful stereoscopic examination of the photographs.

Field inspection was inadequate for the area ^{not} covered by recent photographic coverage. The area between longitude $72^{\circ} 22\frac{1}{2}'$ and longitude $72^{\circ} 23'$ was not delineated because recent photography was not available. Photographs Nos. M 35-139 and M 35-140 covering the aforementioned area were furnished the compilation office but were not used since it is believed that they are too old for accurate delineation. *See Review Report (Supplement)*

30. MEAN HIGH WATER LINE

Delineation of the MHWL is in accordance with field identification.

31. MEAN LOW WATER LINE

~~Only that portion of the MLWL identified by field inspection was delineated.~~ *Subject to change or verification by hydrographic surveys. etc*

32. DETAILS OFFSHORE FROM THE MHWL

Delineated in accordance with field identification.

The field party identified a wreck off Tobay Beach. The compilation office, however, identified what appears to be a wreck approximately 120 meters east northeast of the field location. Both positions have been plotted on the manuscript accompanied with a note requesting that the loca-

32. DETAILS OFFSHORE FROM THE MHWL (Continued)

tions be checked by the hydrographic party.

33. WHARVES AND SHORELINE STRUCTURES

No comment

34. LANDMARKS AND AIDS TO NAVIGATION

One previous and one new landmark recommended for charting by the field party were located on the manuscript. The positions of these landmarks are reported on form No. 567 submitted with this report.

35. HYDROGRAPHIC CONTROL

Two photo-hydro stations were located and delineated in accordance with field identification. They are as follows:

1201 Flagpole (Tobay Parking Field)
1202 Windmill

37. GEOGRAPHIC NAMES 814 ✓

Geographic names were taken from the final name standards furnished by the Washington Office. A list of names is attached to this report.

39. JUNCTIONS

Junction was made with survey T-5605 to the north and with survey T-5613 to the west and found to be in good agreement. There are no contemporary surveys to the south or east. T-9300 to east. See Review Report (Supplement)

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

This manuscript was compared with U. S. Army Engineers' quadrangle Jones Beach, N.Y., scale 1:25,000, published in 1943.

Comparison was made with this quadrangle by use of the vertical projector and it was found to be in disagreement, the most noted disagreement being a general shift of planimetry, in the eastern area of the quadrangle, of approximately 3.0 mm easterly. Also, the shoreline is shown on the quadrangle 3.0 to 13.0 mm farther offshore than that shown on the manuscript.

44A. COMPARISON WITH EXISTING PLANIMETRIC SURVEYS

Comparison was made with U.S. Coast & Geodetic Survey No. T-5060, scale 1:10,000, and found to be in generally good agreement except for man made changes and a small shifting of the coast line. The coast line has eroded up to a maximum of 6 mm generally except between long. 73° 27' 15" and long. 73° 27' 45" where it has built up 2 mm.

45. COMPARISON WITH EXISTING NAUTICAL CHARTS

This manuscript was compared with U. S. Coast and Geodetic Survey Charts No. 578 and 579, scale 1:40,000 published May 1941. Minute comparison was not possible because of the great difference in scale between the surveys. They appear, in general, to be in good agreement.

The following topographic information shown on Survey T-5612 is of sufficient importance to warrant immediate application to the chart:

None

The following topographic details above the plane of MHW are not shown on this manuscript but are believed to still exist and should be carried forward on the chart:

None.

Low water features are shown in part and should be completed by the hydrographic party.

Respectfully submitted
28 February 1949

Joseph D. McEwen
Cartographic Draftsman
Compilation and Descriptive Report

Joseph Steinberg
Photogrammetrist
Photogrammetric Office Review

Harry R. Rudolph
Supervisor

Approved and forwarded
14 March 1949

Thomas B. Arnold
Officer in Charge
Baltimore Photogrammetric Office

PHOTOGRAMMETRIC HYDROGRAPHIC STATIONS
T-5612

No.	Photo.	Description
1201	47 D 149	Flag pole, Tobay Parking Field.
1202	149	Windmill.

GEOGRAPHIC NAMES

- Amity Channel
- Atlantic Ocean ~~but preferably~~
- Black Banks
- Diamond Shoals
- East Overlook
- Gilgo Beach
- Gilgo Heading
- Gilgo Island
- Green Island
- Green Island Channel
- Gukenheimer Pond
- Jones Beach Causeway
- Jones Beach State Park
- Middle Line Island
- Ocean Parkway
- South Line Island
- South Oyster Bay
- State Channel
- Tobay Beach
- Tobay Heading
- West Gilgo
- ~~Zachs Bay~~ ZACHS ✓
- Jones Beach Coast Guard station NO. 86.

Gilgo Channel

Long Island Sound
Blame it on the
heat - 96° today - L.H.

Names preceded by
are approved. 6-27-48
L. HECK

Review Report
Shoreline Map T-5612
4 Aug. 1949

*See Supplement to
this report which
follows. ENR*

44. Comparison with Existing Maps

A. Quadrangle

Jones Beach, N.Y. (C of E) 1:10,000 1933-34

B. Planimetric

T-3	1:20,000	1835	T-4274	1:10,000	1926
T-1538	1:10,000	1880	T-4275	1:10,000	1926
T-1539	1:10,000	1880	T-5060	1:10,000	1933
T-2949	1:10,000	1909	T-6008	1:10,000	1933
T-3484	1:20,000	1914	T-6011	1:20,000	1933

*This map supersedes these surveys for nautical
charting purposes.*

45. Comparison with Nautical Charts

578	1:40,000	May 1941
579	1:40,000	May 1941

47. Adequacy of the Compilation

Field inspection was adequate for the compilation of the shoreline and details immediately adjacent. This map meets the required standards of national accuracy. Fore-shore and offshore details are subject to verification or completion by hydrographic surveys. Refer to Section 32, Compilation Report.

Reviewed by:

Everett H. Ramey
Everett H. Ramey

Approved by:

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

H. H. Edmonson
Chief, Nautical Chart Branch
Division of Charts

O. S. Reading
Chief, Division of Photogrammetry

W. M. Scaife
Chief, Div. of Coastal Surveys

Review Report (Supplement)
Shoreline Map T-5612
1 June 1950

The small area at the eastern limit of this map, referred to in Item 28, Compilation Report, was compiled onto this manuscript in conjunction with Project Ph-54(49)C in accordance with the field inspection for that project. This completes the area of this map to the junction with map T-9300 at longitude $73^{\circ}22'30''$. The junction between project Ph-16(47) and project Ph-54(49)C is indicated on the manuscript.

Field inspection for Project Ph-54(49)C was done by E. R. McCarthy in accordance with the Director's instructions dated 20 October 1949, copy filed in the Office Files, Division of Photogrammetry. The Field Inspection Report for project Ph-54(49)C is filed as part of the Descriptive Report for Map T-9300. *The photogrammetric plot report for Ph-54(49)C also is filed with report for T-9300. ENR*

The shoreline east of longitude $73^{\circ}24.2'$ was revised in order to junction with T-9300. It appears possible that the field inspection party may have misidentified the MHW line in this area. This item is being referred to the hydrographic survey party for verification or change.

Review by:

Everett H. Ramey

Approved:

S. V. Griffith
S. V. Griffith *SB*

NAUTICAL CHARTS BRANCH

SURVEY NO. T.5612

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.