

9499

Diag. Cht. No. 1216-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. _____ Office No. T-9499
Project Fh-59(50)

LOCALITY

State New Jersey

General locality Long Beach

Locality Barnegat Light

1952

CHIEF OF PARTY

Harry F. Garber, Chief of Field Party
Hubert A. Paton, Baltimore Photo. Office

LIBRARY & ARCHIVES

AUG 22 1955

DATE _____

9499

DATA RECORD

T - 9499

Project No. (II): **Ph-59(50)** Quadrangle Name (IV):

Field Office (II): **Pleasantville, N. J.**

Chief of Party: **Harry F. Garber**

Photogrammetric Office (III): **Baltimore, Md.**

Officer-in-Charge: **H. A. Paton**

Instructions dated (II) (III): **26 May 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): **JUG 16 1951**

Date reported to Nautical Chart Branch (IV): **JUG 22 1951**

Applied to Chart No.

Date:

Date registered (IV): **Aug 11, 1955**

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

Reference Station (III): **LOVELADIES, 1932**

Lat.: **39° 43' 49.131" (1515.2m)** Long.: **74° 07' 21.273" (506.6m)** *Adjusted* ~~Adjusted~~
~~Unadjusted~~

Plane Coordinates (IV):

State: **N.J.**

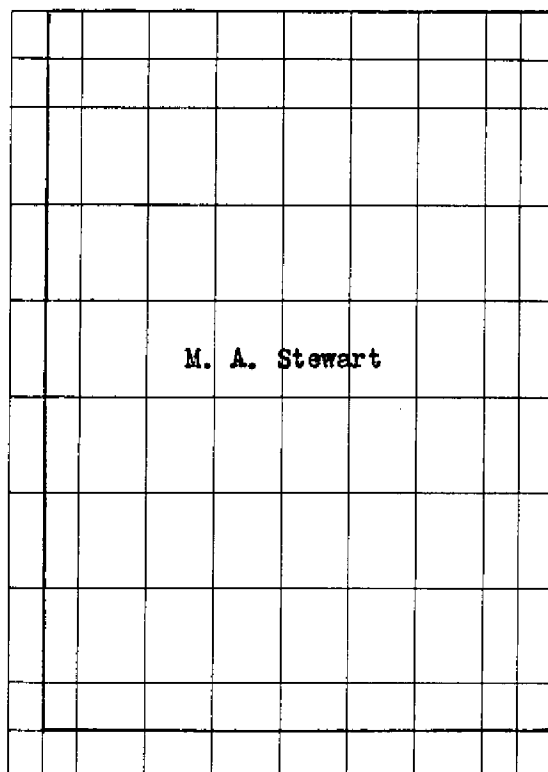
Zone:

Y=

X=

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.



39°37.5'

74°00'

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

DATA RECORD

Field Inspection by (II): M. A. Stewart

Date: Sept.-Oct. 1950

Planetable contouring by (II): M. A. Stewart

Date: Sept.-Oct. 1950

Completion Surveys by (II): Joseph K. Wilson

Date: Oct. 1951

Mean High Water Location (III) (State date and method of location): April 1950 Determined by field inspection

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

Date: 1-5-51

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

Date: 1-16-51

Control plotted by (III): J.C. Richter

Date: 4-11-51

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

Date: 4-11-51

Radial Plot of Stereoscopic

~~and~~ by (III): F.J. Tarcza

Date: 5-2-51

Stereoscopic Instrument compilation (III):
Planimetry
Contours

Date:

Date:

Manuscript delineated by (III): J.Y. Councill

Date: 5-17-51

Photogrammetric Office Review by (III): R. Glaser

Date: 6-8-51

Elevations on Manuscript
checked by (II) (III): R. Glaser

Date: 6-8-51

Camera (kind or source) (III):

Number	Date	PHOTOGRAPHS (III)		Scale	Stage of Tide
		Time			
50-0-1051	4-16-50	1418		1:10,000	0.4' above MLW
50-0-1052	"	"		"	0.4' Above MLW

SUPPLEMENTAL PHOTOGRAPH

51-0-1810	3-23-51	Unknown	1:10,000
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Tide (III)

From Predicted Tide Tables

Reference Station: Sandy Hook, N.J.
Subordinate Station: Barnegat Inlet (E of Lt. House)
Subordinate Station: Highpoint

Ratio of Ranges	Mean Range	Spring Range
	4.6	5.6
0.7	3.1	3.8
0.2	0.8	1.0

Washington Office Review by (IV): *K. N. Maki*

Date: *11/24/52*

Final Drafting by (IV): *Ronald Hopkins T 9499 N*

Date: *12/8/54*

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): * 1 sq mi

Shoreline (More than 200 meters to opposite shore) (III): * 4.8 mi

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

Control Leveling - Miles (II): 2.0

Number of Triangulation Stations searched for (II): 10 Recovered: 4 Identified: 2

Number of BMs searched for (II): 8 Recovered: 5 Identified: 1

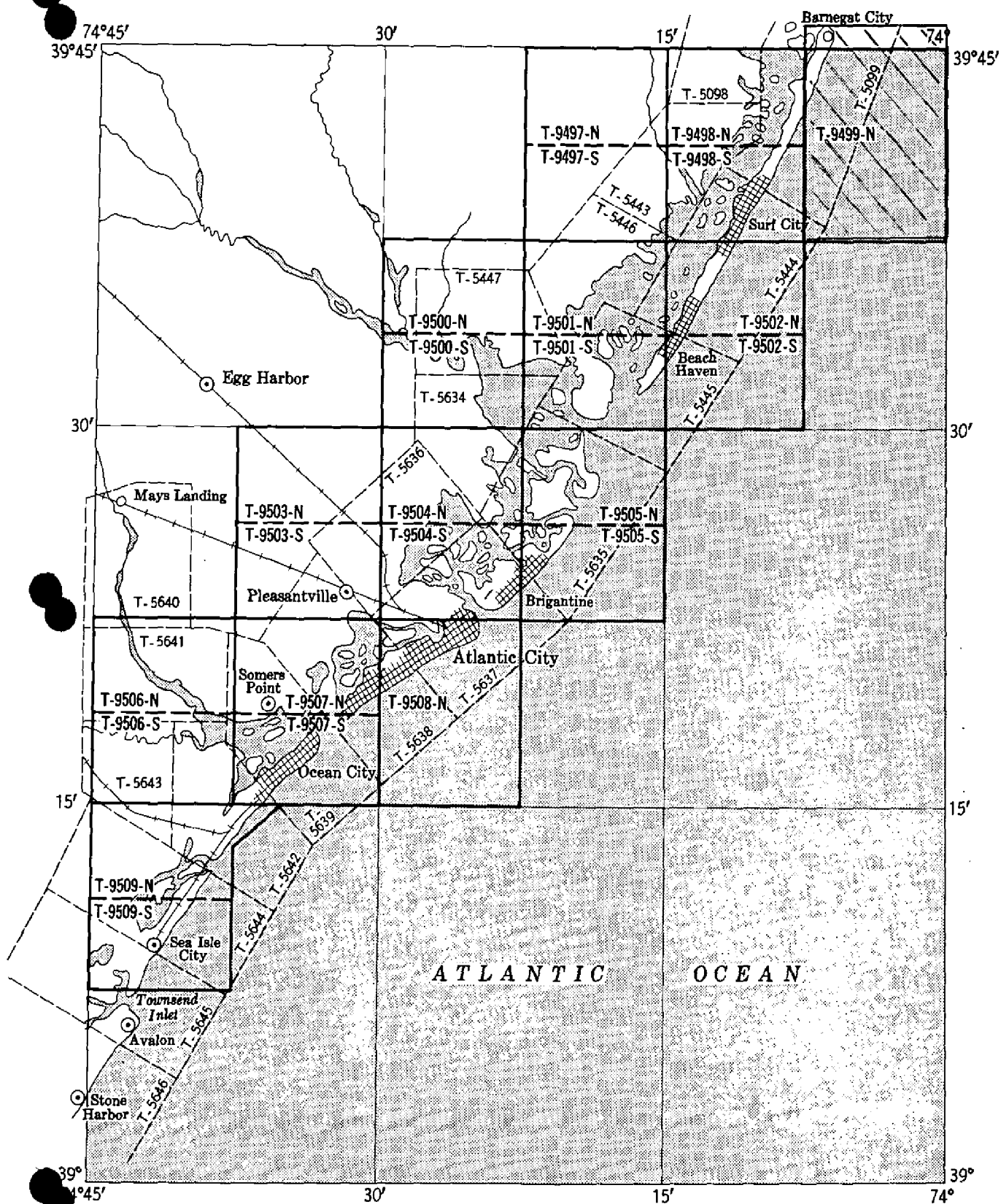
Number of Recoverable Photo Stations established (III): 2

Number of Temporary Photo Hydro Stations established (III): none

Remarks: The above statistics cover area north of quadrangle limit to Barnegat Inlet.

Exceptions: Statistics preceded by asterisk (*) apply only to area within neat limits of manuscript.

NEW JERSEY COAST, Townsend Inlet to Barnegat City



T-9497-N, T-9497-S to T-9509-N, T-9509-S are Topographic Maps
 Mapped by the U.S.C. and G.S. from aerial photographs to be taken in 1950
 Scale 1:10,000

Summary to Accompany Descriptive Report T-9499

Topographic map T-9499 is one of 13 similar maps in project Ph-59(50). This project covers the New Jersey coast from Townsend Inlet north to Barnegat City. T-9499 is the most northeasterly map in the project. This map was compiled entirely by graphic methods. The field operations preceding compilation included complete field inspection, the establishment of some additional horizontal control and the determination of numerous elevations for planetable contouring. The compilation was at a scale of 1:10,000. The manuscript consists of one sheet $3\frac{3}{4}'$ in latitude by $7\frac{1}{2}'$ in longitude. The south half is all water area. The entire map was field edited. The map is to be published by the Geological Survey at a scale of 1:24,000 as a standard $7\frac{1}{2}'$ topographic quadrangle. The registered copies under T-9499 will include one one-half quadrangle cloth-mounted print at scale 1:10,000 identified as T-9499N and a complete $7\frac{1}{2}'$ quadrangle cloth-mounted color print at scale 1:24,000. Hydrographic information furnished by this Bureau, depth curves and soundings, will be included on the color print.

FIELD INSPECTION REPORT
QUADRANGLE T-9499
Project Ph-59

Harry F. Garber, Chief of Party

The field work for the quadrangle was done under the direction of Mr. George E. Varnadoe, Cartographic Engineer. In addition to Page 3, the work was accomplished by the following personnel:

<u>Name and Title</u>	<u>Phase</u>	<u>Date</u>
E. T. Jenkins Cartographer	Horizontal Control Recovery and Identification. Shoreline Inspection.	Aug. 1950
H. R. Moore Cart. Sur. Aid	Vertical Control Recovery and Identification.	Aug. 1950

2. AREAL FIELD INSPECTION

This report is intended to cover T-9499 and that part of Long Beach Island north of the quadrangle limit to Barnegat Inlet. The land area (approximately 3 square miles) is a portion of the island described in the report for quadrangle T-9502.

3. HORIZONTAL CONTROL

All known horizontal control was searched for and reported on Form 526. The area described herein is covered by two single lens photographs, each of which was fixed by locating and identifying a point opposite the center (along the line of flight) in addition to the identification of two triangulation stations. These points were located by a four-point theodolite fix observing four directions on triangulation stations. They are control points E and F.

The stations reported lost are:

Barnegat Coast Guard West Gable Cupola
Barnegat Light 2

4. VERTICAL CONTROL

All known vertical control was searched for and reported on Form 685A. One bench mark, 87, was identified and used. Fly

levels were run from S-7 south to P-7 and designated level points Nos. 98-7 to 98-9 established to supplement elevations for contouring. The error of closure for this line was 0.3 feet and no adjustment was made.

5. CONTOURING AND DRAINAGE

The contouring was done by plane-table methods directly on single lens 1:10,000 scale photographs at a contour interval of ten (10) feet. The natural drainage is by seepage into the sand ridge. The highest elevation is 28 feet, which is the peak of a small shifting sand dune.

6. WOODLAND COVER

Except for a few small areas near Barnegat Inlet, there is no woodland cover, the remainder of the vegetation being low brush and marsh.

7. SHORELINE AND ALONGSHORE FEATURES

The two rock jetties, extending into the ocean at Barnegat Inlet, are under construction. Information pertaining to their construction is shown on the photographs.

The sand bars visible on the photographs, in Barnegat Inlet, are constantly shifting, thus presenting a hazard to navigation.

(a) The mean high water line along the ocean was determined by measurements from nearby identifiable topographic features. In the bay area, the shoreline was mostly apparent and little difficulty was encountered in its delineation.

(b) The low water line was delineated either by visual observations at low water or by the same method used to locate the ocean mean high water line.

(c) The foreshore has been classified on the photographs.

(e) Wharves and piers not clearly discernible on the photographs were delineated.

(f) The only submarine cable, across Barnegat Inlet, was identified on photograph 50-0-1052.

8. OFFSHORE FEATURES

All offshore features were identified and classified on the photographs.

9. LANDMARKS AND AIDS

Barnegat Lighthouse, which is no longer in use as such, is the oldest and best-known landmark in the area.

(d) The two lights on the ends of the rock jetties at the mouth of Barnegat Inlet were not located. These lights will be located during the surveys for the quadrangle in which they fall.

All other fixed aids to navigation were located in accordance with the project instructions, and reported on Form 567.

11. OTHER CONTROL

Recoverable topo stations are:

Barnegat City Water Tank 1950
Chy (USED) 1935
S. Gable Yellow Bungalow 1935

13. GEOGRAPHIC NAMES

This will be the subject of a special report to be submitted by Mr. H. R. Moore, Cartographic Survey Aid.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

In addition to the above-mentioned reports, the field data are listed in transmitting letter, dated 4 November 1950.

Submitted by:

24 Nov. 1950

George E. Varnadoe
George E. Varnadoe
Cartographic Engineer

Approved by:

Harry F. Garber
Harry F. Garber
Chief of Party

PHOTOGRAMMETRIC PLOT REPORTPROJECT PH-59(50)SURVEYS T-9498, T-9499, and T-950221. AREA COVERED

This radial plot covers the areas of Surveys T-9498, T-9499, and T-9502 along the Atlantic coast of New Jersey, from Beach Haven to Barnegat and Barnegat City.

22. METHOD - RADIAL PLOT

Map Manuscripts - The map projections are on vinylite sheets, ruled with polyconic projections in black and New Jersey grids (Transverse Mercator) in red - at a scale of 1:10,000.

Control stations and substitute stations were plotted using meter bar and beam compass, except substitute stations for monuments whose positions were in grid coordinates. These substitute stations were plotted using steel protractor.

A sketch showing the layout of surveys, distribution of control and photograph centers, and a list of control stations are attached to this report.

Photographs - The photographs used in this radial plot are single lens, Type O, ratioed prints at a scale of 1:10,000, the contact scale being 1:24,000. Forty-one (41) photographs were used. They are numbered as follows:

50-0-980 to 50-0-991, incl.
50-0-997 to 50-0-1004, incl.
50-0-1009 and 50-0-1010
50-0-1035 to 50-0-1053, incl.

Templets - Acetate templets were made from all photographs, using a master templet to correct errors due to film and paper distortion.

Closure and Adjustment to Control

Vinylite sheets with 5000 foot square grids were used as base sheets and all control was transferred to these by matching common grids. The radial plot was constructed beginning with the flight along the shoreline, Nos. 50-0-1035 to 50-0-1053. Most of these photographs had a control point opposite the centers so that they had three control points well spaced to fix each templet as well as quite a number of other control points. The other flights were then laid running northward from the first flight. Survey T-9497, on the west of the area of this radial plot, has been compiled previously. A paper print was available and the positions of identifiable common pass points were transferred to the base sheets. Since there is considerable distortion in the paper print, an accurate transfer could not be made but these points served as a guide, so that a junction could be made with the completed survey. There was sufficient control in survey T-9498

for a good radial plot. Although three control stations were not held, all being in areas with abundant control, there was no unusual difficulty in constructing the radial plot.

23. ADEQUACY OF CONTROL

Control was adequate for a good radial plot and along the shoreline there was sufficient to fix nearly all photographs individually. There were three stations which were not held in the radial plot.

SUB. PT. CONTROL POINT "E" - The radially-plotted position falls 0.4 mm northwest from the geographic position. This station was established by a three-point theodolite fix and it is possible that there is a small error in the position. No definite reason for this discrepancy was found.

SUB. PT. TERRACE, 1932 - the radially-plotted position falls 0.3 mm southeast from the geographic position, and SUB. PT. R.M. 2, BEACH HAVEN, 1937 - the radially-plotted position falls 0.3 mm west from the geographic position. The reasons for these two discrepancies are not apparent. The image points are the centers of intersection of wide streets and difficult to prick accurately. The errors are small and it was possible to find the discrepancies only because there was sufficient other control nearby. These are probably accumulations of small errors in identification, establishing substitute points, and plotting their positions.

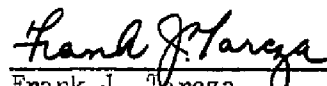
24. SUPPLEMENTARY DATA

No graphic control surveys were used in this radial plot. Although the positions of a number of topographic stations were available their positions were not plotted but established in the radial plot. The previous positions were established in 1935 and 1936.

25. PHOTOGRAPHY

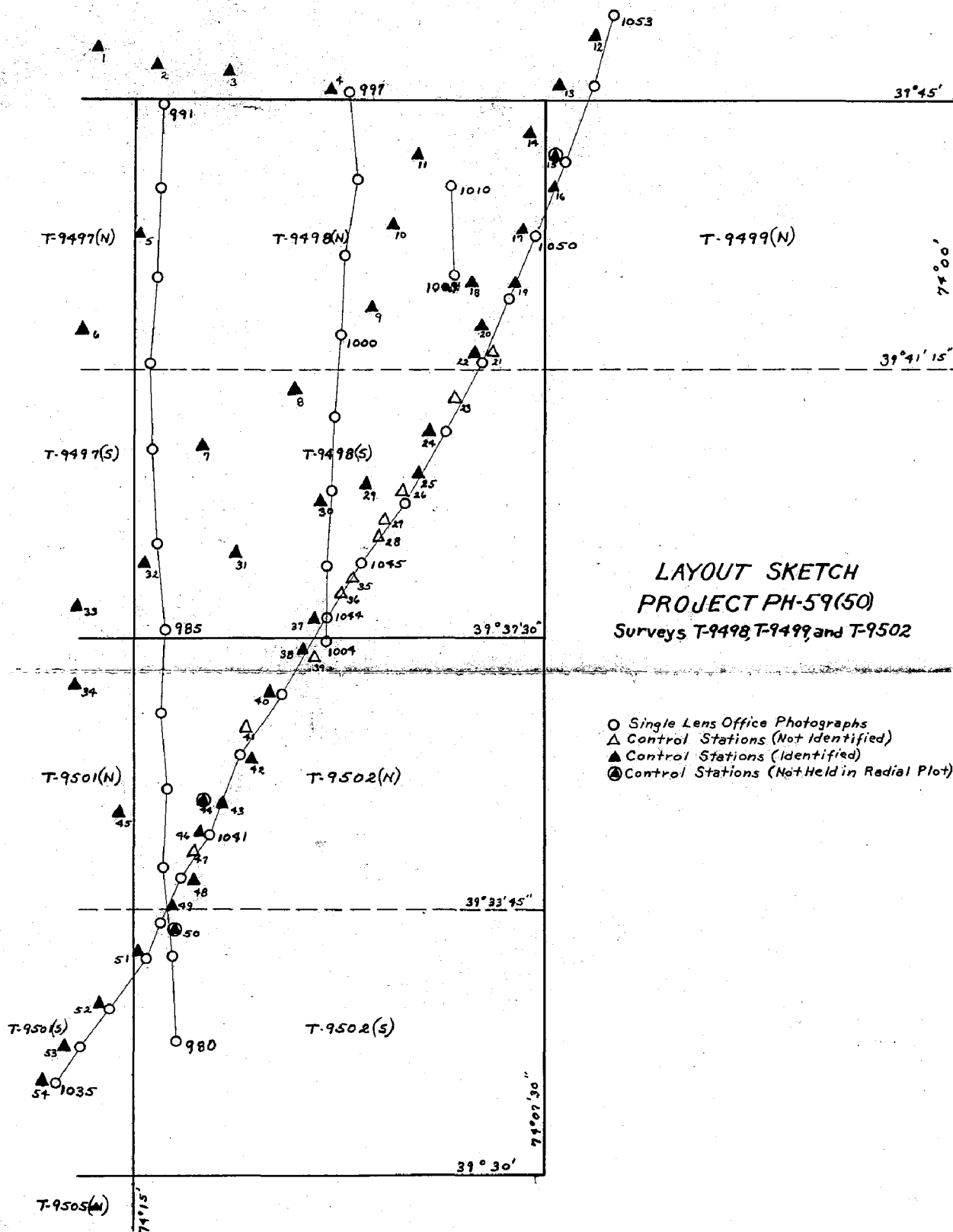
The photographic coverage was adequate and the definition of photographs is good. No badly tilted photographs were found. There is very little relief in most areas so that the effect of any tilt is small.

Respectfully submitted


Frank J. Tarcza
Cartographic Engineer

No.	Station	Identification
1.	MON. 2287, 1935 (NJGCS)	Sub. Pt.
2.	MON. 8603, 1940 (NJGCS)	Sub. Pt.
3.	BARNEGAT WATER TANK, 1932	Direct
4.	GULF, 1935	Sub. Pt.
5.	McKINLAY, 1932	Sub. Pt.
6.	MON. 5609, 1940 (NJGCS)	Sub. Pt.
7.	CLAM, 1935	Sub. Pt.
8.	TURTLE, 1935	Sub. Pt.
9.	FLAT, 1935	Sub. Pt.
10.	GUN, 1935	Sub. Pt.
11.	CONKLIN (USE) 1946	Sub. Pt.
12.	BARNEGAT LIGHTHOUSE, 1872	Direct
13.	CONTROL POINT "F"	Direct
14.	VOL, 1946	Sub. Pt.
15.	CONTROL POINT "E"	Sub. Pt.
16.	LOVELADIES COAST GUARD CUPOLA, 1932	Direct
16.	LOVELADIES, 1932	None
17.	CONTROL POINT "D"	Direct
18.	CONTROL POINT "C"	Sub. Pt.
19.	HIGH POINT STANDPIPE, 1950	Direct
20.	CAMP WHELAN CUPOLA, 1935	Direct
21.	HARVEY CEDARS COAST GUARD CUPOLA, 1935	None
22.	HARVEY CEDARS, 1932	Sub. Pt.
23.	RUSTIC, 1946	None
24.	CONTROL POINT "B"	Direct
25.	SURF, 1932	Sub. Pt. (standpipe)
25.	SURF CITY STANDPIPE, 1950	Direct (Sub.Pt. for SURF)
26.	MON. 5291, 1941 (NJGCS)	None
27.	MON. 5292, 1941 (NJGCS)	None
28.	MON. 5293, 1941 (NJGCS)	None
29.	CONTROL POINT A	Sub. Pt.
30.	BONNET, 1935	Sub. Pt.
31.	POPULAR, 1935	Sub. Pt.
32.	CEDAR RUN, 1935	Sub. Pt.
33.	DINNER (USE) 1946	Sub. Pt.
34.	WEST, 1935	Sub. Pt.
35.	MON. 5294, 1936 (NJGCS)	None
36.	MON. 5295, 1936 (NJGCS)	None
37.	MON. 5296, 1936 (NJGCS)	Sub. Pt.
38.	BRANT, 1936	Sub. Pt.
39.	MON. 5297 (NJGCS) 1937	None
40.	MON. 5298, 1937 (NJGCS)	Sub. Pt.
41.	PEA HALL, 1932	None
42.	MON. 8201, 1937 (NJGCS)	Sub. Pt.
43.	STANDPIPE, 1932	Direct
44.	TERRACE, 1932	Sub. Pt.
45.	SHELTER, 1935	Sub. Pt.

No.	Station	Identification
46.	MON. 8203, 1937 (NJGCS)	Sub. Pt.
47.	MON. 8204, 1937 (NJGCS)	None
48.	MON. 8205, 1937 (NJGCS)	Sub. Pt.
49.	BEACH HAVEN WATER TANK, 1932	Direct
50.	R.M. 2, BEACH HAVEN, 1937	Sub. Pt.
51.	MON. 8207, 1937 (NJGCS)	Sub. Pt.
52.	MON. 8208, 1937 (NJGCS)	Sub. Pt.
53.	BONDS, 1932	Sub. Pt.
54.	CONTROL POINT "G"	Direct



SCALE FACTOR

SCALE FACTOR

SCALE OF MAP 1:10,000

PROJECT NO. Ph-59(50)

MAP T. 9499

[illegible]

Page 14

1 FT. = .3048006 METER
COMPUTED BY: J.C.

06 METER
BY: J.C. Richter

DATE 14 Dec. 1950

CHECKED BY: M.F. Kirk

DATE..

16 Jan. 1951

M-2388-12

COMPILATION REPORT

T-9499

31. DELINEATION

The manuscript was delineated by graphic compilation methods.

32. CONTROL

The identification, density and placement of horizontal control was adequate for the satisfactory completion of the manuscript.

33. SUPPLEMENTAL DATA

1. A.M.S. Toms River, New Jersey quadrangle --
Geographic names
2. A.M.S. Long Beach, New Jersey quadrangle -
Geographic names
3. Borough Engineer's plat map of Barnegat City (now known as
Barnegat Light)
U.S. Gov't sand dyke
4. County Engineer's road map of Ocean County, N.J.
Boundary data

34. CONTOURS AND DRAINAGE

No comment.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection was adequate; however, after delineation from the 1950 photographs was completed, a photograph of the area exposed in March 1951 became available to this office which indicates the possibility of a considerable change in the MHWL on the ocean side of Long Beach at Barnegat Light (town).

The low water line to the east of the island was delineated from field inspection. The shallow lines to the west of the island were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS

Reference in item 9, field report, to lights and lighthouse are for the area just north of project limits.

38. CONTROL FOR FUTURE SURVEYS

Four forms 524 are being submitted with this report. One of these stations is north of the project limits, and one recommends the deletion of a station which is no longer prominent. The names of the two stations which apply to this manuscript are listed in item No. 49.

39. JUNCTIONS

Junction has been made and is in agreement with T-9498-N to the west.

There are no contemporary surveys to the north, south or east.

The junction to the north with the A.M.S. Toms River quadrangle will be covered in the near future by revisions to be shown by chart letters on T-5097.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41 through 45

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with the following maps:

1. Sheet 616311 A.M.S. Series V722 Long Beach, New Jersey, scale 1:62,500, published in 1948.
2. USC&GS Topographic map T-5097, Barnegat Inlet, N.J., scale 1:10,000.
3. USC&GS topographic map T-5099, Upper Long Beach, N.J., scale 1:10,000.


47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 825, scale 1:40,000, published July 1946 (4th Edition)
(3-20-50)

Items to be applied to nautical charts immediately: None

Items to be carried forward: None.

Respectfully submitted
12 June 1951


Raymond Glass
Cartographer (Photo.)

Approved and forwarded



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

48. GEOGRAPHIC NAME LIST

Atlantic Ocean

Barnegat Bay

* Barnegat Light (town)

Barnegat Light Borough

Central Avenue

Long Beach

Long Beach Boulevard

Long Beach Park

Long Beach Township

Ocean County

Vol Sedge

Names underlined in
red are approved.

11-24-52

L. Heck

* Former name of Barnegat City
legally changed to Barnegat Light.
See Hergl. Names Report on file in Hergl.
Names Sect., Div of Charts for official
correspondence.

K. D. M. 12/12/52

T-9499

49. NOTES FOR THE HYDROGRAPHER

The following recoverable topographic stations are delineated on the manuscript:

GABLE 1950

* CHIMNEY (~~CHI USE-W Chy on Ho 1935~~) 1950

* 1950, ^{geographic} position determined by photogrammetric methods supersedes the 1935 position. The date, 1950, is retained on the manuscript.

K. H. M.

50-

PHOTOGRAMMETRIC OFFICE REVIEW

T. 9459

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

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines B 32. Public land lines B

MISCELLANEOUS

33. Geographic names B 34. Junctions B 35. Legibility of the manuscript B 36. Discrepancy overlay B 37. Descriptive Report B 38. Field inspection photographs B 39. Forms B 40. Raymond Blaser Joseph Steinberg
Reviewer Supervisor, Review Section of 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.

Jack Smith
CompilerJoseph W. Vorseck
Supervisor

43. Remarks:

NOTES TO REVIEWER

T-9499

The note "Tele line" on field photo 50-0-1052 probably should be interpreted to be the abbreviation for telegraph line; however, this line is believed to be the Coast Guard telephone line and has been indicated on the manuscript by the legend "Tp".

FIELD EDIT REPORT
Quadrangle T-9499
Project Ph-59(50)

Harry F. Garber, Chief of Party

The field edit of this quadrangle was accomplished during the month of October, 1951.

51. METHODS

The quadrangle was inspected by traversing all passable roads by truck and by walking to other areas, which required a special inspection. Augmenting visual inspection, standard surveying methods were used for corrections and additions.

All additions, corrections and deletions have been either indicated on the field edit sheet or referenced to the field photographs. A legend describing the symbols and colored inks used is shown on the field edit sheet.

One 20,000 scale field edit sheet and two photographs, Numbers 50-0-1052 and 51-0-1810, are submitted with field edit information.

52. ADEQUACY OF COMPILATION

The map compilation was adequate, with the exception of a few corrections and additions. The major portion of the corrections is due to changes made since the field inspection.

Attention is called to the shoreline on the ocean side of Long Beach at Barnegat Light (town). A severe storm in November, 1950, shifted the Mean High Water Line further inshore. Measurements were made with a steel tape to several identifiable points on the photographs.

The railroad, paralleling the Long Beach Boulevard, has been dismantled. A few segments of the old railroad can be seen on the ground, but it is generally covered by brush and has no value as a topographic feature.

53. MAP ACCURACY

The horizontal positions of the map details in general appear to be good.

The storm of 1950 affected some of the contours near the ocean beach. These contours have been corrected on the photographs. Also, several 20-foot contours, which were omitted during the original work, have been shown on the photographs.

No accuracy tests were required for the quadrangle.

54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

Mr. T. T. Taylor, civil engineer and surveyor who has been a resident in the area for forty years, states that he will be willing to examine a proof copy of this quadrangle for possible errors. Mr. Taylor's address is: Brant Beach, New Jersey.

56. REMARKS

Attention is called to photographs 50-0-1052 and 51-0-1810 where the shoreline and the contours were changed in quadrangle T-9830 (Project Ph-72(51)).

19 October 1951

Submitted by:

Joseph K. Wilson
Joseph K. Wilson #72
Cartographer

23 October 1951

Approved by:

Harry F. Garber
Harry F. Garber
Commander, USC&GS
Chief of Party

Review Report T-9499
Topographic Map
24 November 1952

62. Comparison with Registered Topographic Surveys.-

T-121	1:20,000	1839
T-1015	1:10,000	1866
T-1315b	1:20,000	1873
T-1371	"	1874
T-2457	"	1899-1915
T-5097	1:10,000	1932-33
T-5099	"	1932
T-6398b	"	1935, 36 (Graphic Control)
T-6499	"	1935, 36 " "

T-9499 supersedes all the above surveys in common areas.

63. Comparison with Maps of Other Agencies.-

Long Beach, N.J., USE 15' quadrangle 1:62,500,
1941, copied in 1946.

Considerable cultural development has occurred in the map area subsequent to the publication of the USE quadrangle. The shoreline on the Atlantic Ocean side as shown on T-9499 has receded approximately 50-60 meters in comparison with the same shoreline on the USE quadrangle.

The Long Beach township boundary line on T-9499 is not in agreement with the boundary as shown on the USE quadrangle.

64. Comparison with Contemporary Hydrographic Surveys.- None

65. Comparison with Nautical Charts.-

825, 1:40,000, Intracoastal Waterway, ed. 1946,
corr. to 5/14/51
1216, 1:80,000, ed. 1940, corr. to 4/23/51

There are no significant differences between the charts and the map.

66. Adequacy of Results and Future Surveys.- This map complies with all instructions and is adequate as a base for hydrographic surveys and the construction of nautical charts. The map complies with the National Standards of Accuracy.

Reviewed by:

K. N. Maki
K. N. Maki

L. C. Lande
Chief, Review Section
Div. of Photogrammetry

W. W. Swanson
Chief, Div. of Photogrammetry *WWS*

19 Aug, 1955

J. H. Edmonson
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Carl O. Heston
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