**DESCRIPTIVE REPORT**

**Type of Survey**  Topographic

**Field No.** Ph-72(51)  **Office No.** T-9830 N&S.

**LOCALITY**

**State**  New Jersey

**General locality**  Barnegat Bay

**Locality**  Borough of Island

**1951-53**

**CHIEF OF PARTY**

H.F. Garber, Chief of Field Party

H.A. Paton, Baltimore Photo, Office

**LIBRARY & ARCHIVES**

**DATE**  December 17, 1959
DATA RECORD

T - 9830

Project No. (II): Ph-72(51)  Quadrangle Name (IV): BARNEGAT INLET

Field Office (II): Edenton, North Carolina  Chief of Party: Harry F. Garber

Photogrammetric Office (III): Washington, D.C.  Officer-in-Charge: Louis J. Reed, Chief,

Instructions dated (II) (III): 18 April 1951 Stereoscopic Mapping Sec

Copy filed in Division of

Photogrammetry (IV)

Method of Compilation (III): Single Lens; Stereoplanigraph control extension and compilation by Kelsh Plotter.

Manuscript Scale (III): 10,000

Stereoscopic Plotting Instrument Scale (III): 4,000(ke)lsh

Scale Factor (III): Photo: Stereoplanigraph: Kelsh: Manuscript = 20,000: 12,500: 4,000: 10,000

Date received in Washington Office (IV): MAY 29 1952

Date reported to Nautical Chart Branch (IV): JUN - 5 1952

Applied to Chart No. Date: Date registered (IV): 9-16-58

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 (3) refer to sounding datum

i.e., mean low water or mean lower low water

Reference Station (III):

Lat.:  Long.:

Adjusted:

Plane Coordinates (IV):

State:  Zone:

Y =  X =

NEW JERSEY STATE GRID — 5,000ft interval (5,000ft)

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.
100% delineated by Ivan R. Jarrett
on the Kelsh Plotter, model "B".
Ocean shoreline and shoreline of Barrengat inlet corrected to spring of 1953 by field visit. See item 58 near back of this report.
DATA RECORD

Field inspection by (II): John R. Smith, Cartographic Survey Aid Date: August, 1951

Preliminary contouring by (II): John R. Smith, Cartographic Survey Aid Date: August, 1951

Completion Surveys by (II):

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

Shoreline is dated 1951 since it was indicated on field photos by the field inspector during that summer, and this field location was used as a guide during instrument delineation and manuscript compilation. Jack Allen on the Reading Ruling Machine Date: 13 Sep 51

Projection and Grids ruled by (IV): Howard D. Wolfe Date: 18 Sep 51

Projection and Grids checked by (IV): Morton Keller Date: 23 Sep 51

Control plotted by (III):

Control checked by (III): Stanley W. Trow Date: 25 Sep 51

Stereoscopic Control extension by (III): Morton Keller Date: 21 Feb 52

delineation by Stereoscopic Instrument Ivan R. Jarrett Date: 26 Mar 52

Contours

Compilation (III):

Manuscript checked by (III): Henri Lucas Date: 26 May 52

Photogrammetric Office Review by (III): Louis J. Reed Date: 29 May 52

Elevations on Manuscript checked by (A) (III): Louis J. Reed Date: 29 May 52

Form T: Page 3
**PHOTOGRAPHS (III)**

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>1700 thru 1708 and 1807 thru 1810</td>
<td></td>
<td>930</td>
<td>20,000</td>
<td>About 1 ft below MHW on outside of bank, and about MHW on the inside.</td>
</tr>
</tbody>
</table>

**Tide (III)**

Reference Station: Sandy Hook

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4.2'</td>
<td></td>
</tr>
</tbody>
</table>

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 4 sq mi

Shoreline (More than 200 meters to opposite shore) (III): 28 miles

Shoreline (Less than 200 meters to opposite shore) (III): variable

Control Leveling - Miles (II): 2.5

Number of Triangulation Stations searched for (II): 12 Recovered: 7 Identified: 8

Number of BMs searched for (II): 11 Recovered: 7 Identified: 7

Number of Recoverable Photo Stations established (III): two, plus two old ones recovered.

Number of Temporary Photo Hydro Stations established (III): None.

Remarks:
1. Preface:
FIELD INSPECTION REPORT
QUADRANGLE T-9830
PROJECT PH-72(51)

Harry F. Carber, Chief of Party

The field work for this quadrangle was done in accordance with instructions, dated 18 April 1951, Project Ph-72(51), under the direction of Joseph K. Wilson, Supervisor. Field work, in addition to those phases listed on page 3, was done by the following personnel:

<table>
<thead>
<tr>
<th>Name and Title</th>
<th>Phase</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leo F. Beugnet</td>
<td>Horizontal Control</td>
<td>July, 1951</td>
</tr>
<tr>
<td>Cartographic Survey Aid</td>
<td>Recovery and Shoreline</td>
<td></td>
</tr>
<tr>
<td>John R. Smith</td>
<td>Fly Levels</td>
<td>Aug., 1951</td>
</tr>
<tr>
<td>Cartographic Survey Aid</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This report is written in accordance with Paragraph 724 of the Topographic Manual, Part II, dated 1949.

2. AREAL FIELD INSPECTION

The quadrangle comprises a narrow strip of barrier beach lying between the Atlantic Ocean and Barnegat Bay. The sea side of the strip consists of shifting sand dunes, which are partially covered with brush. The bay side of the strip consists of marsh in the southern portion and heavy brush along the remainder.

The field work for the area south of Barnegat Inlet was accomplished during the 1950 season under the supervision of Mr. George E. Varnadoe. (See Field Inspection Report of Quadrangle T-9499, Project Ph-59(50).

The area north of Barnegat Inlet is a part of the Borough of Island Beach. It is privately owned by the Phipps Estate and toll is charged to enter the property. This is a summer resort area and it is very sparsely settled.

Forked River and Cedar Creek Coast Guard Stations have been abandoned. Most of the buildings are intact, and are used for private interests.

No difficulty was encountered in the interpretation of the photographs. The field inspection is believed to be complete.
3. HORIZONTAL CONTROL

(a) Topographic stations JOHN and HILL, 1951 were established during this survey to supplement the existing Horizontal Control. These were located by a theodolite three-point fix on triangulation stations.

(b) All stations are on the N.A. 1927 datum.

(c) All control used within this quadrangle was established by the U.S. Coast and Geodetic Survey. Two USED control stations were searched for, neither of which were recovered. (See Item "e").

(e) A search was made for all known horizontal control points. Stations reported as "lost" or "not recovered" are:

Cedar Creek Coast Guard Flag Tower, 1935
Forked River Coast Guard Station, 1926
Front Centerline North Jetty (USE), 1938
INLET, 1932
Rear Centerline North Jetty (USE), 1938

Stations CEDAR TREE (Temporary) and HALSEY, 1926 were reported lost by J. C. S. in 1935.

(f) To establish a point opposite the photograph centers, it was necessary to run short traverses from nearby triangulation stations. The directions were observed with a Wild T-2 Theodolite. Some of these traverses are approximately 1.0 mile in length. The distance was measured both forward and backward with a 300-foot tape. No grade or temperature corrections were made.

4. VERTICAL CONTROL

(a) A search was made for all known vertical control. Bench marks in the quadrangle which were used are:

<table>
<thead>
<tr>
<th>Name</th>
<th>Agency</th>
<th>Order</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cedar</td>
<td>/2 U.S.C.&amp;G.S.</td>
<td>Third</td>
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<tr>
<td>Fly</td>
<td>/2</td>
<td>&quot;</td>
</tr>
<tr>
<td>R.M. 1 Fly</td>
<td>/2</td>
<td>&quot;</td>
</tr>
<tr>
<td>R.M. 2 Fly</td>
<td>/2</td>
<td>&quot;</td>
</tr>
<tr>
<td>New Jersey</td>
<td>/2</td>
<td>&quot;</td>
</tr>
<tr>
<td>R.M. 2, New Jersey</td>
<td>/2</td>
<td>&quot;</td>
</tr>
<tr>
<td>River</td>
<td>/2</td>
<td>&quot;</td>
</tr>
</tbody>
</table>
(b) A 2.5 mile fly level line was run with a closure of 0.04 foot. The line was not adjusted.

(c) The first and last fly level points are 30-1 and 30-3.

(d) Inapplicable.

5. CONTOURS AND DRAINAGE

The contouring was done by planetable methods directly on single-lens photographs (1:10,000 scale), at a contour interval of ten (10) feet. The natural drainage is by seepage into the sand ridge.

The area consists of a series of shifting sand dunes, the highest of which is forty-three (43) feet.

6. WOODLAND COVER

The cover was classified in accordance with Paragraph 5433 of the Topographic Manual, Part II, dated 1949.

7. SHORELINE AND ALONGSHORE FEATURES

(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 classified by visual inspection.

(b) The low-water line along the ocean was located by the same methods used on the high-water line. No attempt was made to locate the low water line along the bay area.

(c) The foreshore was classified as necessary on the photographs.

(d) Inapplicable.

(e) All docks, wharves, and piers not clearly discernible on the photographs have been delineated thereon.

(f) The only submarine cable, across Barnegat Inlet, was identified on Photograph 51-0-1700.

8. OFFSHORE FEATURES

No offshore features were noted during the field inspection.
9. LANDMARKS AND AIDS

(a) Two landmarks are recommended on Form 567 for charting. Form 567, Form 24A, and a chart section will be submitted at a later date for that portion of the project from Barnegat Inlet to Manasquan Inlet.

(c) There are no Aeronautical Aids within the limits of the quadrangle.

(d) Five fixed aids to navigation fall within the quadrangle limits. Lights Nos. 1 and 3 were located by Mr. George E. Varnadore in 1950. The lights on the ends of the jetties at Barnegat Inlet were located by triangulation. Directions were observed from existing triangulation intersection stations. Light No. 32 was located from directions from triangulation stations.

10. BOUNDARIES, MONUMENTS AND LINES

This is the subject of a "Special Report" which was submitted by Mr. Martin C. Moody, Cartographic Survey Aid in August, 1951.

11. OTHER CONTROL

Two topographic stations (HILL and JOHN, 1951) were established. (See heading no. 3, item (a) of this report). Nine previously established topographic stations were searched for and are reported on form 524, all of which are reported destroyed or lost, with the exception of station "Club, 1935" and "U.S.C.&G.S. B.M. NO. 1, 1936".

12. OTHER INTERIOR FEATURES

All roads and buildings have been classified in accordance with Paragraph 5441 and 5446 of the Topographic Manual, Part II, dated 1949.

There are no bridges over navigable waters within the quadrangle.

13. GEOGRAPHIC NAMES

This is the subject of a "Special Report" which will be submitted at a later date by Mr. Martin C. Moody, Cartographic Survey Aid.
14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

A Coast Pilot Report for the project will be submitted at a later date. There are no other special reports or data, except as noted in Paragraphs 10 and 13.

20 August 1951
Submitted by:
John R. Smith
Cartographic Survey Aid

27 August 1951
Approved by:
Harry F. Garber
Commander, USCGS
Chief of Party
RADIAL PLOT REPORT

21. Area Covered: T-9830; vicinity of Barnegat Inlet, N.J.

22. Method:

A normal hand-templet radial plot was not laid for the extension of horizontal control; instead, it was done by the Stereoplanigraph. Even so, it was necessary to set up only two models, 1808-9 and 1809-10.

23. Adequacy of control:

A combination of recovered benches, newly fixed points of elevation during field inspection, and available datum at the shoreline, provided a great sufficiency of vertical control for model leveling purposes.

Identified horizontal control was sufficient/well distributed to permit direct setups of Kelsh models without Stereoplanigraph bridging, except for two models in the SW corner of the quad as indicated in para 22 above.

24. Supplemental data:

a. No graphic control surveys were applied to this map.

25. Photography:

Photography was adequate in all respects except that overlap was a little over-generous, being 70-75%.

Submitted by:

[Signature]
Stanley W. Trow
Cartographer-Photogrammetric

Approved:

[Signature]
Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer
<table>
<thead>
<tr>
<th>STATION</th>
<th>17</th>
<th>1926</th>
<th>426</th>
<th>426</th>
<th>329</th>
<th>329</th>
<th>17</th>
<th>1932</th>
<th>426</th>
<th>426</th>
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<td>NEW JERSEY</td>
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<td>DUDLEY</td>
<td>74</td>
<td>05</td>
<td>15</td>
<td>4.5</td>
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<td>FLAG TOWER, 1925</td>
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<td>3.2</td>
<td>105.8</td>
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<td>CEEDAR TREE</td>
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Note: Distances are in meters.

Recovered as "LOST"
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<tr>
<th>STATION</th>
<th>N.J. OF</th>
<th>LATITUDE OR U-COORDINATE</th>
<th>N J State Coords</th>
<th>N.A. 1927-DATUM</th>
<th>FACTOR DISTANCE</th>
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<td></td>
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<td>LONGITUDE OR X-COORDINATE</td>
<td>DISTANCE FROM GRID OR PROJECTION LINE IN METERS</td>
<td>FROM GRID OR PROJECTION LINE IN METERS</td>
<td>FROM GRID OR PROJECTION LINE IN METERS</td>
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<td></td>
<td>SOURCE OF INFORMATION (INDEX)</td>
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<td>DISTANCE FROM GRID OR PROJECTION LINE IN METERS</td>
<td>FORWARD</td>
<td>BACK</td>
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<tr>
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<td>48 08.80</td>
<td>39</td>
<td>271.4 1579.1</td>
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<tr>
<td>FORKED RIVER, COAST GUARD, WATCH TOWER, 1935 a</td>
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<td>05 38.48</td>
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<tr>
<td>FORKED RIVER, COAST GUARD, 1932 dm</td>
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<td>39 48 06.773</td>
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<td>STATION</td>
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<td>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</td>
<td>271.4 1579.1</td>
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<td>45 29.227</td>
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<td>06 18.826</td>
<td>448.1 930.2</td>
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<td>&quot;LOST&quot;</td>
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<td>2,154,871.37</td>
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</tbody>
</table>
31. Delineation:

In addition to the normal field inspection, contours were delineated in the field and positioned on the same field inspection photographs. These photos were used as a guide during Kelsh Blotter delineation of the planimetry and shoreline, and during compilation of the combined delineations into the manuscript. Photo coverage and field inspection were complete and satisfactory, and the entire land area of this quad has been mapped.

32. Control:

Both horizontal and vertical control were adequate for controlling this survey, and there is nothing to add to statements already made in sub-headings 3, 4, and 23, of this report.

33. Supplemental Data: See side-headings 14 and 24, also.
   b. Final Name Sheet of approved names; by Mr. Heck.
   c. Instrument photos and 9x9 diapositives; see page 15.
   d. Field inspection photos: 51-0-1700 thru 1707, 1807-10.
   e. Air Photo Compilations: T-5097 and T-5330, 1:10,000.

34. Contours and Drainage: Not applicable.

35. Shoreline and Alongshore Details: Refer to side-heading 7.

Mean high-water line indications on the field inspection photos were used as a guide during instrument delineation of the shoreline. The unstable nature of this shoreline made the field indications difficult, and later, it was difficult to translate them to the instrument work-sheet. However, a reasonable solution has been achieved, especially in view of the fact that it is only temporarily true, at best. The low-water line on the ocean side of the barrier was field indicated and compiled in like manner; no low-water line has been delineated inside the barrier. Foul or shoal areas inside are partially field indicated and office completed, or are entirely instrument delineated.

36. Offshore Details: Not applicable; see side-heading 8.
37. **Landmarks and Aids:** Refer to side-heading 9.

   a. Two landmarks were recommended and photo-identified in the field, and they are shown on the manuscripts in proper symbol. The two landmarks are triangulation stations as follows:

   On T-9830-N  ▲ CEDAR CREEK COAST GUARD, CUPOLA, 1935  
   On T-9830-S  ▲ forked river coast guard watchtower, 1935  

   b. Of the five fixed aids to navigation the field man reported to be located in this quad, lights No.1 and No.32 fall outside the limits. The other three are mapped in correct symbol. Light No.3 was transferred direct from the field identification on photo No.50-0-1052, and the two lights at the ends of the jetties at Barnegat Inlet were plotted by coordinates computed in the field after triangulation observations had been made. No.32 was plotted by Transit fixes; No.1 is not shown since it was not field identified.

38. **Control for Future Surveys:**

   a. Three permanent bench marks were recovered in the area of this quad and have been mapped according to specifications. They are:

   1. RIVER, identified on photo 51-0-1703.
   2. OYSTER CREEK CHANNEL, (EAST END), BARNEGAT BAY, T.B.M. 2 A, 1936, identified on photo 51-0-1508.
   3. SUNSET SHOAL, BARNEGAT BAY, T.B.M. 2 B, 1936, identified on photo 51-0-1609.

   b. No hydro stations were established, field or office.

   c. Two field-recovered and identified topo stations are also mapped for future use. They are CLUB, 1935, and USGS BM No.1, 1936 stamped "A No 1, 1936". BM No.1 was NOT plotted — no field identification for it could be found.

39. **Junctions:**

   T-9828 borders on the north, and T-9829 borders on the west; these match edges agree since all three quads were mapped as part of the same project. But the match edge to the south does not agree and should be corrected during field edit; this is the north edge of T-9829 which was mapped previously as a part of Project Ph-59(50).

40. **Horizontal and Vertical Accuracy:**

   This map is considered to meet requirement specified by National Map Accuracy Standards. The scale is 1:10,000 and the contour interval is 10ft.
46. Comparison with Existing Maps:
TONS RIVER, NEW JERSEY, Ocean County, AMS V722, Sheet 6163 I, 1:50,000, original map of 1941, revised 1946 and 1948.

47. Comparison with Nautical Charts:
MANASQUAN INLET TO LITTLE EGG HARBOR, No. 825, 1:40,000, July 1946 (4th edition), last correction date of 31 Mar 52.

48. Geographic Name List: See numbered page, following.

49. Notes for the Hydrographer: See unnumbered page, following.


Submitted by:

[Signature]
Stanley W. Trow,
Cartographer-Photogrammetric

Approved by:

[Signature]
Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer
<table>
<thead>
<tr>
<th>Name on Survey</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
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</tbody>
</table>

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer
I recommend that the following objects which have **have not** 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 L. J. Reed

Harry F. Barber

Chief of Party.

<table>
<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DATE OF LOCATION</th>
<th>METHOD OF LOCATION AND SURVEY No.</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cedar Creek CG Flag Tower, 1935 (cupola) No. 40 (46)</td>
<td></td>
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<td>39 51</td>
<td>216.4</td>
<td>74 05</td>
<td>367.7</td>
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<tr>
<td>Ported River CG Watchtower, 1935, (wood) No. 48 (59)</td>
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<td>39 48</td>
<td>271.4</td>
<td>74 05</td>
<td>915.4</td>
<td>NA</td>
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<tr>
<td>Cupola (a Cedar Creek CG Station), Ht 40 (46) ft.</td>
<td></td>
<td></td>
<td>39 51</td>
<td>216.4</td>
<td>74 05</td>
<td>367.7</td>
<td>NA</td>
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<tr>
<td>Lookout Tower (a Ported River CG Watchtower) wood 48 (59) ft. High</td>
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<td></td>
<td>39 48</td>
<td>271.4</td>
<td>74 05</td>
<td>915.4</td>
<td>NA</td>
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</table>

Re-listed on Form 567 dated 5/18/53 following Field Edit

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and **nonfloating** objects shall be indicated in accordance with Government Chart Specifications, Parts 1 and 2.
PHOTOGRAMMETRIC OFFICE REVIEW

T. 1830

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

CONTROL STATIONS

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

ALONGSHORE AREAS
(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines
32. Public land lines

MISCELLANEOUS

33. Geographic names
34. Junctions
35. Legibility of the manuscript
36. Discrepancy overlay
37. Description report
38. Field inspection photographs
39. Forms

40. 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  

**NONEFLOATING AIDS OR LANDMARKS FOR CHARTS**  

**Toms River, New Jersey**  
18 May 1953  

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.  
The positions given have been checked after listing by Louis J. Reed  

**Capt. J. C. Sammons**  
Chief of Party  

<table>
<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>D.M. Meters</th>
<th>LATITUDE</th>
<th>D.P. Meters</th>
<th>D.M. Meters</th>
<th>D.P. Meters</th>
<th>CARTESIAN COORD. REF.</th>
<th>DATE OF LOCATION</th>
<th>NOTES</th>
<th>CHARTS AFFECTED</th>
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<tbody>
<tr>
<td>HPOLA</td>
<td>Cedar Creek Coast Guard Sta. 1926, Cupola, 1935, Ht. 40' (46') (one &amp; same)</td>
<td>T-9830N</td>
<td>39 51 216.4</td>
<td>07.015</td>
<td>15.467</td>
<td>NA</td>
<td>1927</td>
<td>Trl.</td>
<td>1926</td>
<td>x x</td>
<td>1216</td>
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<td>DOKOUT TOWER</td>
<td>Forked River Coast Guard Watch Tower, 1935, Ht. 48' (59')</td>
<td>T-9830S</td>
<td>39 48 271.4</td>
<td>08.80</td>
<td>38.48</td>
<td>n</td>
<td>1935</td>
<td>x x</td>
<td>1216</td>
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<tr>
<td>TOWER</td>
<td>Barnegat Light House, 1865, Ht. = 172' (184')</td>
<td>T-9830S</td>
<td>39 45 1578.4</td>
<td>51.173</td>
<td>23.891</td>
<td>n</td>
<td>1865</td>
<td>x x</td>
<td>1216</td>
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<tr>
<td>TANK</td>
<td>Barnegat Light Water Tank, 1950, Ht. 100 (106')</td>
<td>T-9830S</td>
<td>39 45 751.3</td>
<td>74 06</td>
<td>739.5</td>
<td>n</td>
<td>Radial Plot</td>
<td>1950</td>
<td>x x</td>
<td>1216</td>
<td></td>
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</tr>
</tbody>
</table>

**Note:** These are the only landmarks to be charted.

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating*
# Nonfloating Aids or Landmarks for Charts

**Toms River, New Jersey**  
18 May 1953

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

The positions given have been checked after listing by **Louis J. Reed**

Capt. J. C. Sammons  
Chief of Party.

<table>
<thead>
<tr>
<th>STATE</th>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>Sheet</th>
<th>LATITUDE</th>
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<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
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<tr>
<td>New Jersey</td>
<td>Lt. 32</td>
<td>Inland Waterway Light</td>
<td>T-9830N</td>
<td>39 51</td>
<td>1210.2</td>
<td>74 07</td>
<td>575.0</td>
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<td>Lt.</td>
<td>Breakwater Lt. North</td>
<td>T-9830S</td>
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<td>993.0</td>
<td>74 05</td>
<td>607.0</td>
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<td>Barnegat Inlet South</td>
<td>T-9830S</td>
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<td>779.8</td>
<td>74 05</td>
<td>843.5</td>
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<td>Lt. 1</td>
<td>Independent Fisheries Inc., Light</td>
<td>T-9830S</td>
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<td>903.6</td>
<td>74 06</td>
<td>1326.5</td>
<td>&quot; Theod. 1953</td>
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<td>Lt. 3</td>
<td>&quot;</td>
<td>T-9830S</td>
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<td>91.6</td>
<td>74 06</td>
<td>1279.0</td>
<td>&quot; Photo 1950</td>
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</table>

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating
FIELD EDIT REPORT
Project FH-72(51)
Quadrangle T-9330

51. METHODS:

The field edit of this area was accomplished by standard surveying methods in conjunction with visual inspection. Actual field work was completed 15 May 1953.

Field edit data appears on the field edit sheet, discrepancy print, field photographs 51-0-1700, 1701, 1705 and 1807, 50-0-1052, 1053, 1048, 1049, and in this report.

The reviewer's questions are answered on the discrepancy print when feasible.

A legend appears on the field edit sheet, which is self-explanatory.

52. ADEQUACY OF COMPILATION:

The map compilation is adequate and will be complete after field edit revisions have been applied.

53. MAP ACCURACY:

The horizontal accuracy of the map detail is relatively good.

The accuracy of the contouring is relatively good.

54. RECOMMENDATIONS:

None.

55. EXAMINATION OF PROOF COPY:

It is believed that the Engineering Company of Sherman, Sleeper and Taylor, 501 Cooper Street, Camden, New Jersey, is best qualified to examine a proof copy of this work.

56. CONTOURS AND DRAINAGE:

Refer to Item 5, Field Inspection Report.

There are no shifting sand dunes in this area. The only changes that occur in the area of the sand dunes is the apparent constant shifting of the shoreline in the vicinity of Barnegat Inlet.

Numerous feeder ditches have been deleted on the field edit sheet. Note: See 5425, Par. D of Special Publications No. 249.
57. WOODELAND COVER:

Refer to Item 6, Field Inspection Report.

Numerous changes in the classification of vegetation have been shown on the field edit sheet. The majority of the woodland cover in this area is marginal.

58. SHORELINE AND ALONGSHORE FEATURES:

Refer to Item 7, Field Inspection Report.

The position of the mean high water line, throughout the entire area on the ocean side and at Barnegat Inlet, was checked and corrected by planetable methods directly on the field edit sheet.

During the course of this phase of work it was found that a satisfactory junction, M.H.W.L., did not exist with T-9499-N, PH-59(50). The M.H.W.L., ocean side, was checked by planetable methods directly on a copy of the map manuscript for T-9499-N. A satisfactory junction was made. However, after finding the M.H.W.L. in error on T-9499-N, it was necessary to check the M.H.W.L., ocean side, on T-9498-N. The correct N.H.W.L., ocean side, for T-9498-N has been shown on field photographs 50-0-1048 and 1049.

No attempt was made to show the mean low water line. From usual inspection the M.L.W.L., ocean side, appears to be about 60 feet east of M.H.W.L.

The approximate limits of all shallow areas have been shown on the field edit sheet.

Additional piers and boat basins were located, by planetable methods, directly on the field edit sheet in Barnegat Light Borough.

59. LANDMARKS AND AIDS:

Refer to Item 9, Field Inspection Report.

Four prominent structures are recommended as landmarks. Form 567 is submitted.

Five fixed aids to navigation fall within this area. Four of these aids, Lt. 3, Lt. 32, Barnegat Inlet North Breakwater Lt., and Barnegat Inlet South Breakwater Lt., were located during the original survey of this area, 1950, 1951. One aid, Lt. 1, was located by theodolite by this party. Forms 24A and 567 are submitted.
LANDMARKS AND AIDS (Cont'd)

All fixed aids to navigation in this project are erected and maintained by the State of New Jersey, Department of Commerce, Bureau of Navigation, with Capt. Raymond Huber in direct charge of placement and maintenance. The piling on which these lights are placed are permanent, but the lights are removed in November of each and every year and replaced in May of each and every year.

The designation of each and every fixed aid, in this area, is shown on Form 567 for each quadrangle in the project.

No listing of these aids exists other than in the memory of Capt. Raymond Huber.

60. BOUNDARIES:

Refer to Item 10, Field Inspection Report.

The boundary limits of Berkeley, Lacey, Ocean and Long Beach Townships, Island Beach and Barnegat Light Boroughs have been shown on the field edit sheet. These limits were checked or placed on the field edit sheet after careful scrutiny of the legal descriptions for these areas in conjunction with information, interpretations of these legal descriptions, obtained from local officials.

60. OTHER CONTROL:

(A) Refer to Item 11, Field Inspection Report.

Two topographic stations, U.S. C.G.S., B.M.A, No. 1, 1936 and Fly, R.M. No. 1, 1932 (AZ.MK.) were recovered and identified. Forms 24A and 524 are submitted.

60. OTHER INTERIOR FEATURES:

(B) Refer to Item 12, Field Inspection Report.

Numerous additional buildings have been shown on the field edit sheet.

60. JUNCTIONS:

(C) Satisfactory junctions have been made with T-9828 on the north, T-9499 - PH-59(50) on the south, and T-9829 on the west. The Atlantic Ocean is on the east.

Submitted by:
James E. Hundley
Cartographer
20 May 1953
Summary to Accompany Descriptive Report

T-9830

Topographic Map T-9830 is one of 6 similar maps in project Ph-72(51). This project covers the New Jersey coast from latitude 39° 45' near Barnegat Inlet, northerly to latitude 40° 07' 30" near Manasquan Inlet, and also a small area in the vicinity of Avalong (latitude 39° 06' 30"). This map was compiled by stereoplanigraph and Kelsh Plotter. The field operations prior to compilation included complete field inspection, supplemental leveling and planestable contouring. The compilation was at a scale of 1:10,000. The manuscript is in 2 sheets, each 3.75' in latitude and 7.5' in longitude. This map was field edited and is to be published by the Geological Survey at a scale of 1:24,000 as a standard 7.5-minute topographic quadrangle. The registered copies under T-9830 will include 2 one-half quadrangle cloth-mounted prints at scale 1:10,000 designated as T-9830N and T-9830S, and a complete 7.5-minute quadrangle cloth-mounted print in color at scale 1:24,000. Hydrographic data furnished by this Bureau, including depth curves and soundings will be shown on the color print.
62. **Comparison with Registered Topographic Surveys:**

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Year</th>
</tr>
</thead>
<tbody>
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<td>1015</td>
<td>1:10,000</td>
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<td>13156</td>
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<td>5097</td>
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<td>&quot;</td>
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<tr>
<td>6398b</td>
<td>&quot;</td>
<td>1936</td>
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Comparison of T-9830 with the more recent of the above surveys indicates considerable shifting of shoreline in the vicinity of Barnegat Inlet. Other differences are obviously due to cultural developments. T-9830 supersedes all the above surveys in common areas for nautical charting purposes.

63. **Comparison with Maps of Other Agencies:**

Toms River, New Jersey, Ocean City County, AMS W722, Sheet 6163 I, 1:50,000, 1941, revised 1946 and 1948.

64. **Comparison with Prior Hydrographic Surveys:**

<table>
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<td>6141</td>
<td>1:10,000</td>
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</table>

No soundings in conflict with shoreline of T-9830 except in the area of shoreline changes in the vicinity of Barnegat Inlet.

65. **Comparison with Nautical Charts:**

825, 1:40,000, Intracoastal Waterway, 1953, last correction date 8-24-53.

All fixed aids to navigation within the limits of T-9830 have been located except Light "2" and marker "2" in Barnegat Inlet. Charted shoreline should be corrected to that shown on T-9830 in the changeable area of Barnegat Inlet.

66. **Accuracy of Results and use in Future Surveys:**

This map complies with all instructions and is adequate as a base for hydrographic surveys and the construction of nautical charts. This map complies with the National Map Accuracy Standards.
67. **Boundaries:**

The Ocean-Long Beach township line in the vicinity of Barnegat Inlet was further investigated by this Reviewer in May, 1955 and correctly plotted on T-9829 and T-9830 in accordance with information furnished by Mr. Thomas J. Taylor (Engineer and Land Surveyor) of Brant Beach, New Jersey, and Mr. Loyd Camburn (Tax Assessor) of Waretown, New Jersey.

Reviewed by:

[Signature]
John M. Neal

APPROVED:

[Signature]
Chief, Review Branch
Photogrammetry Division

[Signature]
Chief, Nautical Chart Branch
Charts Division

[Signature]
Chief, Photogrammetry Division
27 Nov 1955

[Signature]
Chief, Coastal Surveys Division
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Hydrography for entire project was compiled by John M. Neal and verified by O. Svendsen. All soundings are in feet at mean low water. The 6, 12, 18, 39 and 60-foot depth curves are shown.

John M. Neal

Date

O. Svendsen

Date
### Record of Application to Charts

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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.