

9843  
N4S

Diag. Cht. No. 1216-2.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-72 Office No. T-9843

LOCALITY

State New Jersey

General locality Ocean - Monmouth County

Locality Manasquan

1951-53

CHIEF OF PARTY

H.F.Garber, Chief of Field Party

L.J.Reed, Div. of Photo. Wash.D.C.

LIBRARY & ARCHIVES

DATE January 12, 1959

9-1870-1 (1)

9843

## DATA RECORD

T - 9843

Project No. (II): Ph-72(51)

Quadrangle Name (IV):

Field Office (II): Edenton, North Carolina

Chief of Party: Harry F. Garber

Photogrammetric Office (III): nStereoscopic Mapping Officer-in-Charge: Louis J. Reed  
Section, Washington Office

Instructions dated (II) (III): 18 April 1951

Copy filed in Division of  
Photogrammetry (IV)Method of Compilation (III): Single Lens: Control extended by Stereoplanigraph  
and Delineation by Kelsh Plotter.

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): Manuscript : 10,000 :: Photos : 20,000 :: CF : 1A1,000

Date received in Washington Office (IV):

NOV 6 1952

Date reported to Nautical Chart Branch (IV):

NOV 17 1952

Applied to Chart No.

Date:

Date registered (IV): 2-26-58

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): NA 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):

Lat.:

Long.:

Adjusted

XXXXXX

Plane Coordinates (IV):

State:

Zone:

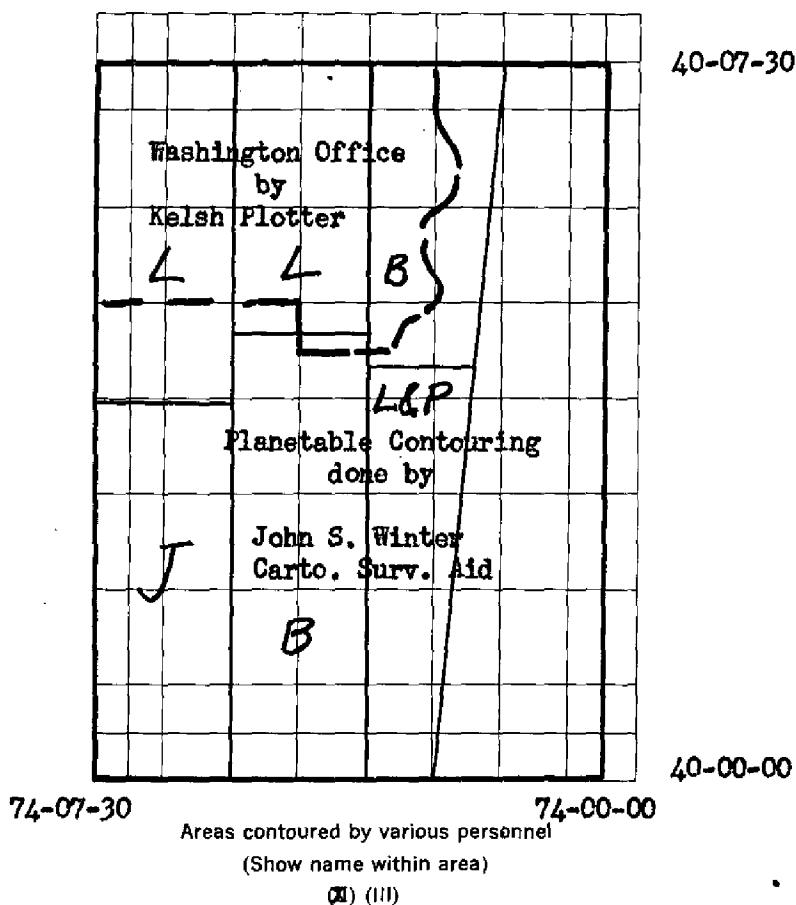
Y=

X=

New Jersey State Grid with interval of 5,000 ft.

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.



Field contouring on photographs was accomplished as indicated on the above sketch. Office contouring on the Kelsh Plotters was done for the balance of the area, in the north-western portion. Culture was delineated for the entire area on the Kelsh Plotters. The instrument work was divided into areas and the instrument operators are listed below opposite symbols found in the sketch.

J indicates area detailed by Ivan R. Jarrett  
 L indicates area detailed by Frank J. Lesslie  
 L&P indicates area by Lesslie and Lt Samuel D. Parkinson working in shifts.  
 B indicates area detailed on the Kelsh Plotters in the Baltimore Office.

## DATA RECORD

Field inspection by (II): **Leo P. Beugnet, Cartographic Survey Aid**  
**John S. Winter, Cartographic Survey Aid**

Date: **September, 1951**

Planetable contouring by (II): **John S. Winter,**  
**Cartographic Survey Aid**

Date: **July-August, 1951**

Completion Surveys by (II):

Date:

Shoreline on this compilation is dated 1951 since the field inspector located it on photographs that summer, and this Mean High Water Location (III) (State date and method of location): location was used as a guide during instrument delineation and during manuscript compilation.

Projection and Grids ruled by (IV): **Jack Allen on the Reading**  
**Ruling Machine**

Date: **11 Sep 51**

Projection and Grids checked by (IV): **Howard D. Wolfe.**

Date: **18 Sep 51**

Control plotted by (III): **Morton Keller**

Date: **19 Sep 51**

Control checked by (III): **Stanley W. Trow**

Date: **19 Sep 51**

~~REVISIONS~~ Stereoscopic **Stanley W. Trow & Morton Keller**  
 Control extension by (III):

Date: **9 Oct 51**

~~REVISIONS~~ **delineation** Planimetry  
 Stereoscopic Instrument ~~extension~~ (III): **See Data page 2**  
 Contours

Date:

**10 Feb 52**

Date:

~~REVISIONS~~ **compiled**  
 Manuscript ~~delineated~~ by (III): **John B. McDonald**

Date: **17 Oct 52**

Photogrammetric Office Review by (III): **Louis J. Reed**

Date: **30 Oct 52**

Elevations on Manuscript  
 checked by ~~(II)~~ (III): **Louis J. Reed**

Date: **30 Oct 52**



Camera (kind or source) (III): USC & GS "O" Camera, 6 inch f, wide-angle

51-0 Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
1716 thru	23 Mar 51	0935	20,000	MSL
1721 1732 thru	"	0940	"	"
1736 1762 thru	"	0945	"	"
1771 1783 thru	"	1010	"	"
1792				

## Tide (III)

Reference Station: Sandy Hook  
Subordinate Station:  
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 37

Shoreline (More than 200 meters to opposite shore) (III): about 63 miles

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

Control Leveling - Miles (II): 27.5

Number of Triangulation Stations searched for (II): 132 Recovered: 101 Identified: 25

Number of BMs searched for (II): 38 Recovered: 23 Identified: 23

Number of Recoverable Photo Stations established (III):

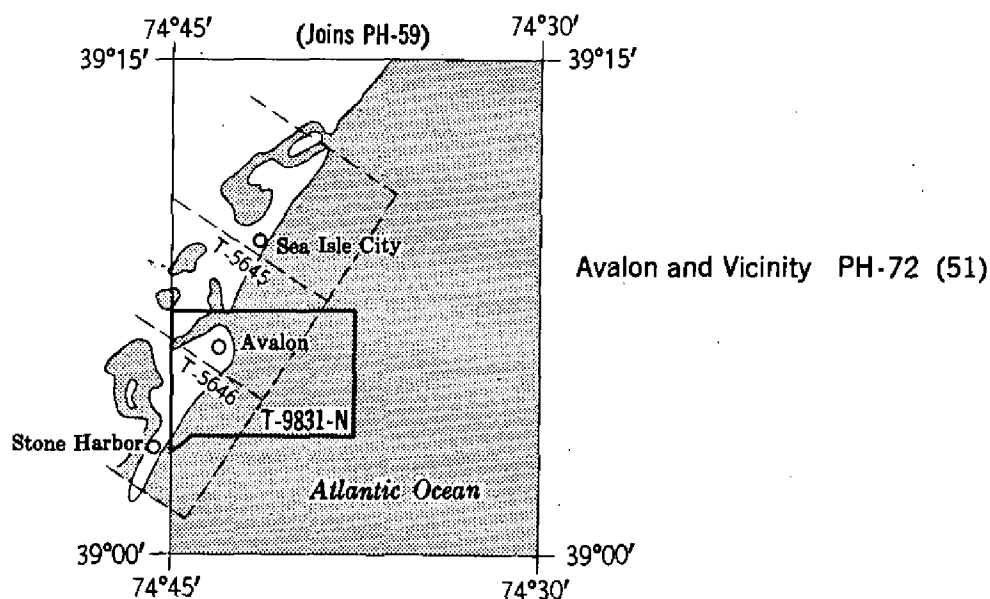
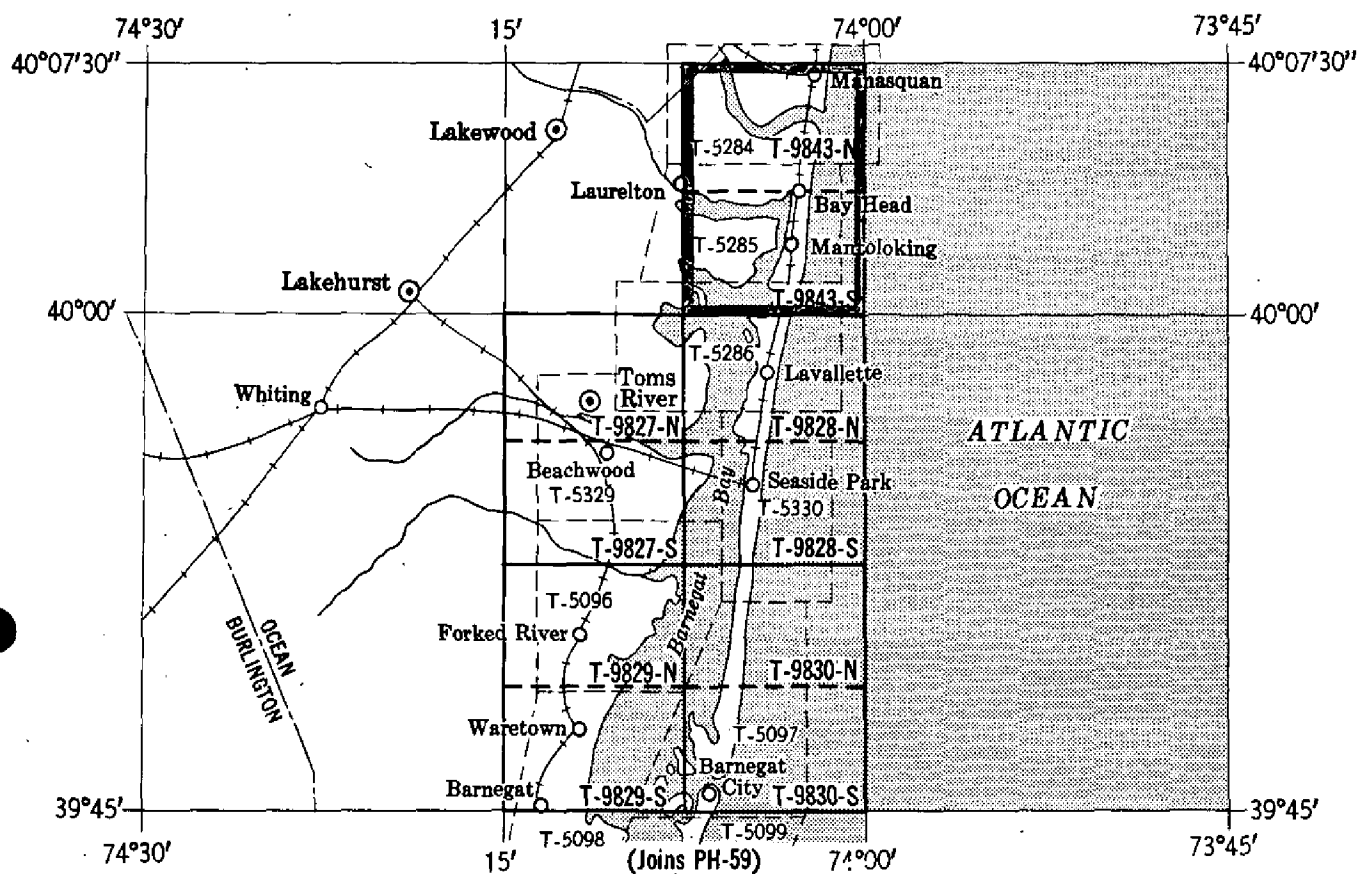
Number of Temporary Photo Hydro Stations established (III): none

Remarks:

# TOPOGRAPHIC MAPPING PROJECT PH-72 (51)

NEW JERSEY, Barnegat Bay - Toms River and Vicinity

Compilation scale 1:10,000



1. Preface:

## FIELD INSPECTION REPORT

Quadrangle T-9843

Project Ph-72(51)

Harry F. Garber, Chief of Party

The field work for this quadrangle was done in accordance with Instructions, Project Ph-72(51), dated 18 April 1951, 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:

<u>Name and Title</u>	<u>Phase</u>	<u>Date</u>
Leo F. Beugnet Cartographic Survey Aid	Horizontal Control Recovery and Shoreline	August, 1951
John R. Smith Cartographic Survey Aid	Fly Levels	July, 1951

2. AREAL FIELD INSPECTION

The quadrangle lies along the Atlantic Coast in Ocean and Monmouth Counties. The portion of the quadrangle adjacent to the Atlantic Ocean is almost fully developed, and comprises the Boroughs of Manasquan, Brielle, Point Pleasant, Point Pleasant Beach, Bay Head, Mantoloking and a small portion of the Borough of Sea Girt. All of these communities are summer resorts.

The area is adequately served by a system of hard-surfaced roads. The New York and Long Branch Railroad is the only railroad within the quadrangle. The railroad, linking Point Pleasant and Seaside Park, has been dismantled.

The Ocean County Airport is located on Metedeconk Neck. It has one sod runway and is used by light planes only.

The U. S. Air Force operates a long-range navigation station near Mantoloking. This station is used for blind flying and according to the Officer-in-Charge, it is of a temporary nature. The boundary of the station has not been shown, but the three steel radio towers were identified on the photographs for aeronautical purposes only. (See item 9 and 11 of this report.)

A considerable amount of building construction was in progress during the field inspection, and along the shore several areas were being filled with dredged material. The areas have been noted on

the photographs and should be investigated during the field edit.

The photography for the area was good, and the detail clear.

### 3. HORIZONTAL CONTROL

(a) No additional control was established.

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

(c) Control established by the U. S. Engineers and the New Jersey Geodetic Control Survey was used along with that established by the U.S.C. & G.S. Stations not established by the U.S.C. & G.S. are:

<u>Station</u>	<u>Agency</u>	<u>Order</u>	<u>Datum</u>
Cross, 1946	U. S. Engineers	Third	N.A. 1927
Hard, "	"	"	"
If, "	"	"	"
Manasquan River 1, 1933	"	"	"
" " 8, "	"	"	"
" " 37, "	"	"	"
Man, 1946	"	"	"
Mono, "	"	"	"
Ren, "	"	"	"
Ring, "	"	"	"
Station "R", 1946	"	"	"
Swan, 1946	"	"	"
Wet, "	"	"	"
R.M. 2 Mantoloking, 1936/N.J. Geod. Control Surv.	"	"	"
R.M. 3 Fish, 1936	"	"	"
Pt. 9224-A, 1949	"	"	"
Pt. 9266, "	"	"	"
Pt. 9267, "	"	"	"
Pt. 15249, "	"	"	"
Pt. 15250, "	"	"	"
Mon. 2201, 1934	"	"	"
" 2202, "	"	"	"
" 2203, "	"	"	"
" 2204, 1936	"	"	"
" 2205, "	"	"	"
" 2206, 1934	"	"	"
" 2207, 1940	"	"	"
" 2208, "	"	"	"
" 2638, 1936	"	"	"
" 3234, 1935	"	"	"
" 5269, 1936	"	"	"
" 5270, "	"	"	"

*Reviewer: Check for distribution  
of control as specified in  
Info. Manual* *SRV*

<u>Station</u>	<u>Agency</u>	<u>Order</u>	<u>Datum</u>
Mon. 5272, 1936	N. J. Geod. Control Surv.	Third	N.A. 1927
" 5273, "	"	"	"
" 5274, "	"	"	"
" 5276, "	"	"	"
" 5277, "	"	"	"
" 6240, 1935	"	"	"
" 8608, 1940	"	"	"
" 8609, "	"	"	"
" 8610, "	"	"	"
" 8611, "	"	"	"
" 8612, "	"	"	"
" 8613, "	"	"	"
" 8615, "	"	"	"
" 8616, "	"	"	"
" 8617, "	"	"	"
" 8618, "	"	"	"
" 8619, "	"	"	"
" 8620, "	"	"	"
" 8621, "	"	"	"
" 8622, "	"	"	"
" 8623, "	"	"	"
" 8680, 1948	"	"	"
" 8681, "	"	"	"
" 8682, "	"	"	"
" 9220, 1937	"	"	"
" 9221, "	"	"	"
" 9222, "	"	"	"
" 9228, "	"	"	"
" 9229, "	"	"	"
" 9290, 1938	"	"	"
" 9291, "	"	"	"
" 9292, "	"	"	"
" 9293, "	"	"	"
" 15210, 1940	"	"	"
" 15211, "	"	"	"
" 15212, "	"	"	"
" 15234, "	"	"	"

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

Blue Tank, 1934  
 Brielle North Transmission Tower, 1934  
 " South " " "  
 Channel (N.J. Board of Commerce and Navigation), 1934  
 Cupola (USE), 1946  
 Drew, 1935  
 Kettle, 1935

Leighton House, 1899  
 Light Stand "A", 1935  
 Manasquan River Entrance Beacon, 1934  
 Manasquan River 10 (USE), 1934  
     "      "      14      "      "  
     "      "      17      "      ", 1933  
     "      "      30      "      ", 1934  
 Mantoloking Coast Guard Station, 1899  
 Meadow (N.J. Board of Commerce and Navigation), 1934  
 Sea Girt State Arsenal Pole, 1934  
     "                    Small Tank, 1934  
     "                    Tall Tank, 1934  
 Seaweed, 1935  
 Shell (N.J. Board of Commerce and Navigation), 1934  
 Slade (USE), 1946  
 Mon. 2200 (NJGGS), 1934  
     "      3235      "      , 1935  
     "      6241      "      , "  
     "      8278      "      , 1938  
     "      8614      "      , 1940  
     "      9223      "      , 1937  
     "      9225      "      , "  
     "      9226      "      , "  
     "      9227      "      , "

#### 4. VERTICAL CONTROL

(a) A search was made for all known vertical control. The following bench marks fall within the limits of the quadrangle:

<u>Name</u>	<u>Agency</u>	<u>Order</u>
A-6	U.S. Coast & Geod. Surv.	First
B-6	"	"
C-6	"	"
D-6	"	"
Z-5	"	"
19.37(NJGS)	"	"
Bay Head, Metedeconk River		
Entrance to TBM 1	"	Unknown
Bay Head, Metedeconk Tiver		
Entrance to TBM 2	"	"
Manasquan Inlet TBM 4	"	"
Manasquan Inlet TBM 5	"	"
Mantoloking, Barnegat Bay TBM 2	"	"
"      "      "      "      3	"	"
"      "      "      "      4	"	"
"      "      "      "      5	"	"

<u>Name</u>	<u>Agency</u>	<u>Order</u>
Upper Highway Bridge, Manasquan River TBM 1	U.S. Coast & Geod. Surv.	Unknown
Upper Highway Bridge, Manasquan River TBM Mn R26	"	"
Upper Metedeconk Boys Camp, Metedeconk River TBM 1	"	"
Upper Metedeconk Boys Camp, Metedeconk River TBM 2	"	"
Upper Metedeconk Boys Camp, Metedeconk River, TBM 3	"	"
RV. 2200	N.J. Geod. Control Surv.	"
RV. 2201	"	"
RV. 2205	"	"
RV. 2206	"	"

(b) 27.5 Miles of supplemental levels were run with a Wye level. (See methods of establishing elevations, which are discussed in the Field Inspection Reports of quadrangle T-9827 and T-9829. The largest error of closure was 0.64 foot. Adjustments were prorated according to the number of setups.

(c) The first and last fly level points are 43-1 and 43-34.

(d) See Field Inspection Report for quadrangle T-9829.

#### 5. CONTOURS AND DRAINAGE

The contouring of this quadrangle was done by both the Kelsh Plotter and by planetable methods. (See line of division on page 2 and report by the Washington Office.)

The contouring, by planetable methods, was done directly on single-lens photographs (1:10,000 scale), at a contour interval of ten feet. The highest elevations are found in the northwestern portion of the quadrangle, in the area contoured by the Kelsh Plotter. Along the ocean beach there are numerous sand dunes, some of which rise to a height of 28 feet. When new buildings are constructed, these dunes are leveled off and the field editor should be alert to these changes.

Attention is called to several large "active" borrow pits. These have been labeled on the photographs, and should be checked by the field editor.

The natural drainage is by the Manasquan River in the north, the Metedeconk River in the west, and Barnegat Bay in the south.



## 6. WOODLAND COVER

The cover was classified in accordance with Paragraph 5433 of the Topographic Manual, Part II, dated 1949. (See Field Inspection Reports for T-9827 and T-9829 for discussion of woodland and swamp limits.)

## 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 and the rivers, the shoreline was classified by visual inspection. (See item 2 of this report in regard to the dredged areas.)

(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 and rivers.

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

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

(f) Several submarine cables and one overhead cable were identified on the photographs.

## 8. OFFSHORE FEATURES

Numerous fish traps were noted offshore from the ocean beach. They were not located by this party.

## 9. LANDMARKS AND AIDS

(a) Twenty-two landmarks are recommended on Form 567 for charting. Three of these landmarks had not been previously charted.

(b) There were no interior landmarks recommended.

(c) The three steel radio towers, at the U.S. Air Force Long Range Navigation Station, are recommended on Form 567 for aeronautical charts.

(d) Sixteen fixed aids to navigation fall within the quadrangle limits. The lights on the ends of the jetties at Manasquan Inlet were located by a theodolite three-point fix on triangulation stations. The remainder of the lights were located by directions observed from triangulation stations, or from photogrammetric points.

→ All are plotted on T 9843 N & T 9843 S  
One additional located by Field Editor  
See Field Edit report Jmw Review



## 10. BOUNDARIES, MONUMENTS AND LINES

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

One boundary marker on the Ocean-Monmouth County line, and one marker on the Point Pleasant Borough line were recovered and identified. The monument on the county line falls west of the quadrangle limits.

## 11. OTHER CONTROL

Forty previously established topographic stations were searched for and reported on Form 524. Recoverable topographic stations established in 1951 are:

Boundary Monument No. 7	
Tank (West Point Pleasant Water Tank)	
Tank (Manasquan Water Works Water Tank)	
Tank (Brielle Water Tank)	
Tower (Manasquan Coast Guard Watch Tower)	
Tower "A" (Adamston U.S.A.F. Radio Tower)	
Tower "B"	"
Tower "C"	"

## 12. OTHER INTERIOR FEATURES

All roads and buildings have been classified in accordance with Paragraphs 5441 and 5446 of the Topographic Manual, Part II, dated 1949. (See new construction under item 2 of this report.)

Many of the buildings throughout the quadrangle have been circled in red by the field inspector to aid the compiler. These were buildings that were either slightly obscured or there was some doubt as to their position or shape.

All bridge information as listed in the "U.S. Engineers List of Bridges Over Navigable Waters in the U.S.", dated July, 1941, and its Supplement, dated January 1, 1948, was verified in the field. All clearances were carefully measured with a steel tape, and the published description verified, except for discrepancies which were reported to the local District Engineer. (See copy attached to this report.)

## 13. GEOGRAPHIC NAMES

This is the subject of a "Special Report", which will be submitted in September, 1951, by Martin C. Moody, Cartographic Survey Aid.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Form 567 and 24a, together with the chart sections, will be submitted upon completion of this project for that portion of the area from Barnegat Inlet to Manasquan Inlet.

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

14 September 1951

Submitted by:

*John S. Winter*  
John S. Winter *N.F.S.*  
Cartographic Survey Aid

27 September 1951

Approved by:

*Harry F. Garber*  
Harry F. Garber  
Commander, USC&CS  
Chief of Party



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

P. O. Box 271  
Edenton, N. C.

POST OFFICE ADDRESS:

TELEGRAPH ADDRESS:

26 September 1961 EXPRESS ADDRESS:

District Engineer  
U. S. Engineer Department  
120 Broad Street  
Philadelphia, Pennsylvania

Dear Sir,

During the course of field work by this party along the New Jersey coast from Manasquan Inlet to Barnegat Inlet the following discrepancies were noted in the "List of Bridges Over Navigable Waters of the United States", dated 1941, and its Supplement, dated 1948: (Field measurements are given first, followed by published measurements.)

Miles Above North	Nearest Town	Owner	Type Bridge	Horiz. Cl.	Vert. Cl. H.W.
1.13	Brielle to Point Pleasant, N. J. Manasquan River	N. J. State Hwy. Dept.	B B	90.5 50.0	36.0 9.2
(Note: This is a new bridge.)					
0.33	State Hwy. Route No. 35, West Point Pleasant, N. J.	N. J. State Hwy. Dept.	B B	47.6 50.0	13.0 10.6
1.33	Levelandtown Rd. West Point Pleasant	"	SW SW	45.0 50.0	15.9 14.6
1.0	Brielle Manasquan Beach, N. J. Bobbies Creek	Monmouth County	B B	30.0 29.7	8.9 2.8 NLW
1.5	Brielle, N. J. Bobbies Creek	"	F F	25.5 14.5	4.0 3.3 NLW

Cl's not req'd. (No sdgs.)

<u>Miles Above Mouth</u>	<u>Nearest Town</u>	<u>Owner</u>	<u>Type Bridge</u>	<u>Horiz. Cl.</u>	<u>Vert. Cl. H.W.</u>
14.1	Island Heights, N. J. Barnegat Bay	N. J. State Hwy. Dept.	B B	80.3 50.2	32.5 8.4

}  
CH 825

(Note: New bridge built in 1950.) ✓

16.5	Seaside Park, N. J. Barnegat Bay	Penn. Railroad	✓
------	-------------------------------------	-------------------	---

(Note: The railroad bridge has been removed.) ✓

Chart 795  
OS 1/21/59

Very truly yours,

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

cc: The Director, USC&GS

RADIAL PLOT REPORT


20-30:

No radial plot was constructed as a means of extending control into each stereoscopic model of this quadrangle for compilation purposes.

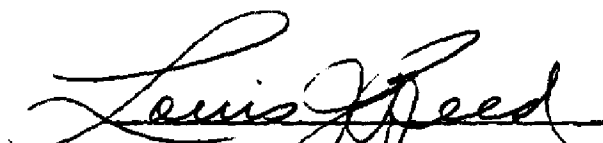
Instead, horizontal positions were located by means of control extensions using the stereoplanigraph, model No 61639. No particular difficulty was encountered during this operation. Basic control and photographs used are indexed on the next page.

Vertical control was not extended; field operations established sufficient elevations to control each model for contouring purposes.

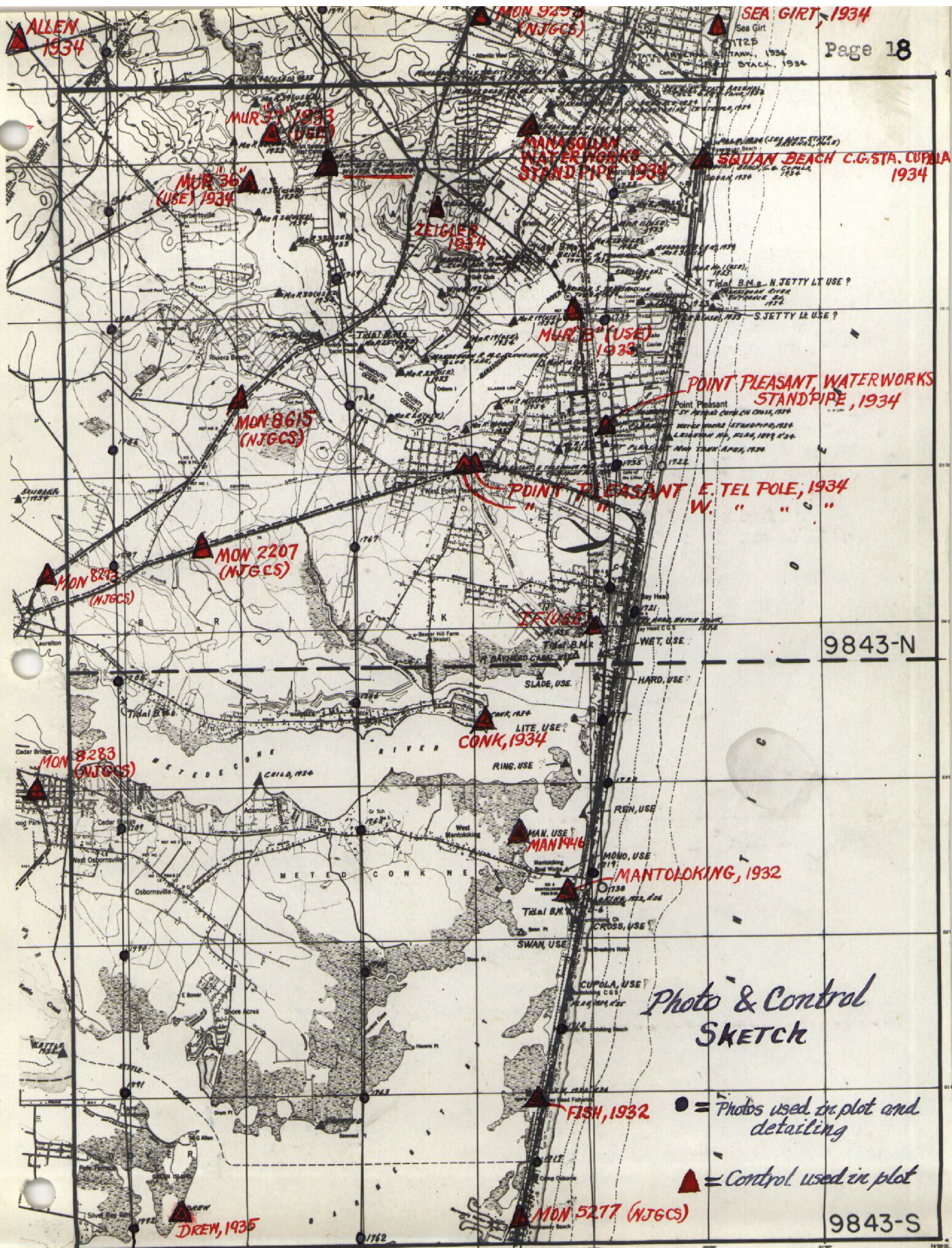
submitted by

  
Stanley W. Trow,  
Cartographer-Photogrammetric

Approved by

  
Louis J. Reed, Chief  
Stereoscopic Mapping Section  
Photogrammetric Engineer





*Photo & Control  
Sketch*

● = Photos used in plot and detailing

▲ = Control used in plot

9843-S







MAP T. 9843-N PROJECT NO. Ph-72(51) SCALE OF MAP 10,000 SCALE FACTOR

STATION	G. P. Page SOURCE OF INFORMATION NUMBER	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
				FORWARD	(BACK)		FORWARD	(BACK)	
MANASQUAN? WATER WORKS, STANDPIPE, 448 1934	448	NA 1927	40 07 12.276 74 03 27.317				378.6 646.9	1472.0 773.8	
MANASQUAN M.E. CHURCH STEEPLE; 1934	447	"	40 07 20.554 74 03 15.660				633.9 370.8	1216.7 1049.9	
MANASQUAN FIRST PRESBYTERIAN CHURCH, 448 STEEPLE, 1934	448	"	40 07 17.188 74 03 17.302				530.1 409.7	1320.5 1011.0	
MANASQUAN BLOCK ICE CO. YELLOW STACK, 1934	449	"	40 07 25.177 74 02 44.688				776.5 1058.1	1074.1 362.6	
MANASQUAN RIVER G & C CLUB, BLACK WOODEN TANK, 1934	446	"	40 06 17.24 74 04 17.42				531.7 412.6	1318.9 1008.5	
WING, 1934, dm	438	"	40 06 09.336 74 04 14.560				288.0 344.9	1562.6 1076.2	
SWITCHER FOUNDATION WHITE TANK, 1934	438	"	40 06 56.213 74 05 13.931				1733.8 329.9	116.8 1090.9	
WET (USE), 1946		"	40 03 52.979 74 02 55.028						
MNR <sup>g</sup> /(USE), 1933	611	"	40 06 00.463 74 03 04.811				14.3 114.0	1836.3 1307.2	
MNR 12(USE), 1934 dm	439	"	40 05 41.360 74 03 24.892				1275.7 589.6		

Page 20

1 FT. = 3048006 METER

COMPUTED BY:

DATE

CHECKED BY:

DATE

M. 2388-12

Ph-72(51)

SCALE OF MAP.....10,000.....

SCALE FACTOR

STATION	G P Page SOURCE OF INFORMATION (INDEX) Number	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	NJ STATE GRID COORDS <del>XXXXXXXXXXXXX</del> <del>XXXXXXXXXXXXX</del> <del>XXXXXXXXXXXXX</del>	DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
MnR 20 (USE), 1934 dm	.438	"NA, 1927	40005 21.143 74 04 41.581			652.1 985.0	
MnR 36 (USE), 1934 dm	.440.	"	40 06 51.67 74 05 50.28			1593.7 256.9 1190.7 230.1	
MnR 37 (USE), 1933	614	"	40 07 10.596 74 05 41.281			326.8 1523.8 977.5 443.2	
"R" (Bayhead Canal'), 1946		"	40 03 50.082 74 03 08.673			.	
MON 2201 . (NJGCS)			.	458 940.54 2 172 520.38		.	
MON 2202 (NJGCS)			.	454 792.69 2 172 970.45		.	
MON 2203 (NJGCS)			.	455 378.81 2 171 284.04		.	
MON 2204 (NJGCS)			.	452 419.82 2 174 503.27		.	
MON 2205 (NJGCS)			.	449 972.87 2 174 054.34		.	
MON 2207 (NJGCS)			.	453 591.62 2 159 240.80		.	

1 FT. = 3048006 METER

COMPUTED BY:..

DATE: \_\_\_\_\_

CHECKED BY:

DATE \_\_\_\_\_

Page

21



MAP T. 2843 S PROJECT NO. Ph-72(51) SCALE OF MAP 10,000 SCALE FACTOR

STATION	G P SOURCE OF INFORMATION (INDEX) Number	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
				FORWARD	(BACK)		FORWARD	(BACK)	
DREW, 1935 dm	413	NA 1927	40 00 13.411 74 06 34.618				413.6 821.1	1436.9 602.1	
CHILD, 1934 dm	433	"	40 02 59.640 74 05 51.050				1839.5 1210.1	11.1 212.1	
CONK, 1934 dm	439	"	40 03 22.990 74 03 54.358				709.1 1288.4	1141.5 133.7	
FLAG, 1934 d	439	"	40 01 39.554 74 03 11.329				1220.0 268.6	630.6 1154.1	
MANTOLOKING, 1932 dm	397	"	40 02 17.995 74 03 13.181				555.0 312.5	1295.6 1110.0	
FISH, 1932 dm	397	"	40 00 57.449 74 03 29.589				1771.8 701.7	78.7 721.2	
SWAN, (USE), 1946		"	40 02 02.417 74 03 37.012						
HARD (USE), 1946		"	40 03 41.926 74 02 57.577						
RING (USE), 1946		"	40 03 08.161 74 03 12.432						
PEN (USE), 1946		"	40 02 48.365 74 03 03.170						

Page 23

1 FT. = 3048006 METER

COMPUTED BY:

DATE

CHECKED BY:

DATE

M-2388-12

[illegible]

COMPILATION REPORT31. Delineation:

This quadrangle has been delineated on stereoscopic plotting instruments as outlined on page 2, Data Records. Field Inspection has been used as a guide thruout delineation on the instruments, and during the compilation of the two manuscripts of this report. No areas of incomplete photo coverage exist, and field inspection was complete. The entire land area of this quad has been mapped.

32. Control:

Horizontal control was adequate for the control of this survey; no new stations were established. Most existing control was recovered and identified. For details, see side-heading 3, page 8, of the Field Inspection Report, and the Radial Plot Report, page 17, both included herein.

Vertical control was adequate. Refer to side-headings 4 and 20-30, this report. Points of elevation for contouring purposes were photo-selected in the office and field established before compilation. Generally, these elevations were found to be in good agreement.

All control of both types that was used to control this survey has been shown on the manuscripts in proper name and symbol. To avoid congestion, many other permanent stations that were recovered have been omitted from the manuscripts. Horizontal control has been plotted and plot-checked by beam compass; vertical control has been compiled from field identification.

33. Supplemental Data:

- a. Special Boundaries Report dated July 1951
- b. Official Name Sheet, compiled by Mr Heck
- c. Instrument Photos and 9X9 Diapositives - see page 18.
- d. Field Inspection Photos 51-O-1716 thru 1724, 1732 thru 1738, thru 1771, and 1782 thru 1792.

34. Contours and Drainage:

The photographic quality of the instrument photographs was satisfactory. Sidelap was acceptable but endlap was about 70%, which is excessive for maintaining accuracy requirements. (This project was worked at a C-factor somewhat greater than that normally considered for efficient contouring). A majority of the contouring on this quad was accomplished on the field photographs, the instrument contouring being confined to the peninsula north of the Manasquan River and the high ground west of the river in the NW corner of the quad. One model of contours is in doubt, model 1783-83, and should be checked during field edit. It is not possible to pin down the trouble since both distortion in the model and scattered field elevations are suspected. This model can be identified in the NW corner of T-9843N by the dashed contours.

35. Shoreline and Alongshore Details:

The shoreline and low-water-line on the field inspection photographs was used as a guide during instrument delineation of them. No shoal lines were located, field or office.

36. Offshore Details: Not applicable.37. Landmarks and Aids:

Refer to form 567s included in this report.

38. Control for Future Surveys:

The following Topo Stations have been recovered or established, and have been plotted from field identification. No Hydro Stations were established.

FLAGTOWER (Bayhead C.G.Sta), 1934	T-9843-N
GABLE (Center Gab.Yacht Club), 1934	"
HOUSE (S.Chimney), 1934	"
CHAPEL (Bayhead), 1934	"
CHIMNEY (Yacht Club), 1934	"
TOWER (Manasquan C.G.Watch Tower), 1951	"
TANK (Brielle Water Tank), 1951	"
TANK (West Point Pleasant W.T.), 1951	"
TANK (Manasquan Water Works W.T.), 1951	"
MANASQUAN INLET NORTH JETTY LIGHT, 1951	"
MANASQUAN INLET SOUTH JETTY LIGHT, 1951	"
BOUNDARY MONUMENT NO 7 (Point Pleasant Borough), 1951	T"
HOUSE (Chy Yellow Ho), 1934	T-9843-S
CHIMNEY (Green Roof Ho), 1934	"
SKY, 1935	"
HOUSE (N.Gab), 1934	"
GREEN GABLE, 1934	"
GREER, 1935	"
MA, 1935	"
TOWER "A" (Adamston USAF Radio Station), 1951	"
TOWER "B" (Adamston USAF Radio Station), 1951	"
TOWER "C" (Adamston USAF Radio Station), 1951	"
LAIRDS SHORT-WAVE EXPERIMENTAL RECEIVING TOWER, 1951	"

*Reviewers: Check for distribution of control shore according to Manual*

In addition, 14 navigation lights and 2 pile were located by transit observations to neighboring permanent control stations; these observations were plotted on the manuscripts using a precise protractor. Navigation Lights numbered 1, 2, 3, and 4 fall on T-9843-N, and 2 (Metedeconk), 6, 8, 10, 11, 12, 13, 15, 16, and 17 are on the T-9843-S sheet. The two pile are on the south sheet also, being north and south respectively of the bridge at Mantoloking.

39. Junctions:

Only one junction exists, that with T-9828-N to the south; it is in agreement since both sheets were compiled simultaneously. No contemporary maps exist on the other sides.

40. Horizontal and Vertical Accuracy:

Both map sheets of this compilation are considered to meet map accuracy standards in both respects; the horizontal scale is 1:10,000 and the contour interval is 10ft.

46. Comparison with Existing Maps:

POINT PLEASANT, New Jersey, AMS Series V822, sheet 6164  
II SE, 1:24,000, First Edition(AMS 1), 1942; (AMS 3), 1947,  
Second Edition - AMS 3.

47. Comparison with Nautical Charts:

MANASQUAN INLET TO LITTLE EGG HARBOR, No 825, 1:40,000,  
July 1946(4th edition), Last correction date = 7 Jul 52.

MANASQUAN RIVER AND BAY HEAD HARBOR, No 795, 1:10,000,  
March 1948(3rd edition), last corrected 6 Aug 51.

Items to be applied to nautical charts immediatly = None

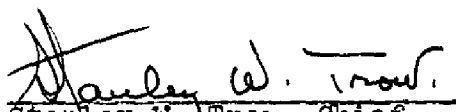
Items to be carried forward = None

48. Geographic Name List: See separate pages, following.

49. Notes for the Hydrographer: Not applicable.

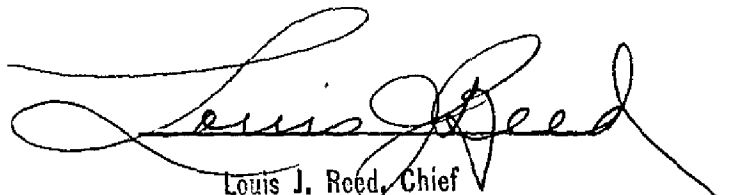
50. Compilation Office Review: See T-2 form, following.

Submitted by

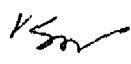


Stanley W. Trow, Chief,  
Single Lens Plotting Instrument Unit

Approved by



Louis J. Reed, Chief  
Stereoscopic Mapping Section  
Photogrammetric Engineer





# GEOGRAPHIC NAMES

Survey No.

T-9843-N

Page 1

Name on Survey

Page 28

	A	B	C	D	E	F	G	H	K	
ARNOLD AVENUE										1
ATLANTIC OCEAN										2
BASS POINT										3
BAY HEAD										4
BAY HEAD JUNCTION										5
BAY HEAD HARBOR										6
BAY HEAD - MANASQUAN CANAL										7
BAY HEAD YACHT CLUB										8
BEAVER DAM ROAD										9
BRIELLE										10
BRIELLE YACHT CLUB										11
BROADWAY										12
BRIDGE AVENUE										13
BURNT TAVERN ROAD										14
CLARKS LANDING										15
COOKS CREEK										16
CRABTOWN CREEK										17
DEBBIES CREEK										18
DEEP CREEK										19
ELLIS POINT										20
FISK AVENUE										21
GODFREY LAKE										22
GREENWOOD CEMETERY										23
HERBERTSVILLE										24
HERBERTSVILLE ROAD										25
JUDAS CREEK										26
										27

Central Avenue (in Bay Head)  
= either Ocean Ave (to S.) or  
Main Avenue for map of  
Bay Head with Project Names  
(Report)

Intracoastal Waterway

# GEOGRAPHIC NAMES

Survey No.

T -9843-N

Page 2

Name of Survey

Page 29

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
A	B	C	D	E	F	G	H	K	
LAKE LOUISE									1
LAKE OF THE LILLIES									2
LAKEWOOD - HERBERTSVILLE ROAD									3
LONG POINT									4
LITTLE SILVER LAKE									5
MAIN STREET									6
MANASQUAN BRIDGE									7
MANASQUAN COAST GUARD NO 105									8
MANASQUAN INLET									9
MANASQUAN RIVER									10
MANASQUAN RIVER GOLF CLUB									11
MEADOW POINT									12
MONMOUTH COUNTY									13
NEW YORK & LONG BRANCH RAILROAD									14
OCEAN COUNTY									15
OSBORN ISLAND									16
METEDECONK ROAD									17
POINT PLEASANT									18
POINT PLEASANT BEACH									19
RIVER VIEW DRIVE									20
ROBERTS SWAMP BROOK									21
RIVIERA BEACH									22
RIVIERA ROAD									23
SAND BAR POINT									24
SAWMILL CREEK									25
SAWMILL POND									26
									27

Ocean Avenue

Ramshorn Drive

Sea Girt

Sea Girt Borough

## GEOGRAPHIC NAMES

Survey No.

T-9843-N

Page 3 of 3  
Name on Survey

Page 30

	A	B	C	D	E	F	G	H	K	
<u>SOUTH STREET</u>										1
<u>STOCKTON LAKE</u>										2
<u>SUNNYSIDE FARM SWITZERS FOUNDATION FOR GIRLS</u>										3
<u>THE GLIMMER GLASS</u>										4
<u>TURKEY POINT</u>										5
<u>TWILIGHT LAKE</u>										6
<u>WATSON CREEK</u>										7
<u>NEW JERSEY NATIONAL GUARD TRAINING CENTER AND SUPPLY DEPOT</u>										8
<u>Wills Hole Thorefare</u>										9
<u>Wall Township</u> (Monmouth Co. west of Manasquan and Brielle)										10
										11
										12
										13
										14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Field check on new highway numbers  
is needed. Per 1953 Rand McNally  
Road Atlas, former No. 37 along ocean  
front is now No. 35, to junction  
Point in Point Pleasant, and onto new  
Former No. 34 is now No. 70 to  
junction with 35.  
New No. 34 is from junction 70 and  
35, to N.W.  
New No. 71 parallels No. 35 from  
Brielle.

Names approved 5-18-53

H. Heck

# GEOGRAPHIC NAMES

Survey No.

T-9843-S

Page 1  
Name on Survey

Page 31

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
A	B	C	D	E	F	G	H	K	
ADAMSTON									1
ADAMSTON ROAD									2
ADAMSTON USAF RADIO STATION									3
ANDREW POINT									4
ATLANTIC OCEAN									5
BARNEGAT BAY									6
BEAVERDAM CREEK									7
BEAVERDAM ROAD									8
ALABAMA AVENUE									9
BRETON WOODS									10
BRICK TOWNSHIP									11
CAMP OSBORNE									12
CEDAR BRIDGE ROAD									13
CEDARWOOD PARK									14
CHERRY QUAY									15
DOVER TOWNSHIP									16
DRUM POINT									17
DRUM POINT ROAD									18
EAGLE POINT									19
GREEN ISLAND									20
GUNNERS DITCH									21
HAVENS COVE									22
HAVENS POINT									23
HERRING ISLAND									24
KETTLE CREEK									25
KETTLE CREEK ROAD									26
MANTOLOKING									27

Bay Avenue (in Mantoloking)

Downer Avenue (in Mantoloking)

Laurelton Yacht Basin

# GEOGRAPHIC NAMES

Survey No.

T-9843-S

Page 2

Name on Survey

Page 32

	A	B	C	D	E	F	G	H	K	
MANTOLOKING BOROUGH										1
MANTOLOKING BOAT WORKS										2
MANDALAY										3
METEDECONK										4
METEDECONK NECK										5
METEDECONK RIVER										6
METEDECONK ROAD										7
NORMANDY BEACH										8
NORMANDY HARBOR										9
NORTH BRANCH BEVERDAM CREEK										10
NEW JERSEY STATE HIGHWAY NO 37										11
OCEAN AVENUE										12
OCEAN COUNTY AIRPORT										13
OSBORNVILLE										14
PINE TERRACE										15
POINT PLEASANT BOROUGH										16
SANDY POINT										17
SILVER BAY										18
SILVER BAY(Village)										19
SILVER BAY ROAD										20
SLOOP POINT										21
SHORE ACRES										22
SOUTH MANTOLOKING BEACH										23
ST EMANS HOME FOR CRIPPLED CHILDREN										24
SWAN POINT										25
SEAWEEED POINT										26
										27

*Mantoloking Yacht Club*

*Per Rand McNally 1953 Road Map - No. 35 in new numbering system*

## Page 33

T-9843-S

page 3 of 3

Name on Survey

# GEOGRAPHIC NAMES

Survey No.

T-9843-S

page 3 of 3

Name on Survey

On Chart  
No.

On previous survey  
No.

On U. S. quadrangle  
Maps

From local  
information

On local Maps

P. O. Guide or Map

Rand McNally Atlas

U. S. Light List

Page 33

A B C D E F G H K

THE BREAKERS HOTEL

WARDELLS NECK

WEST MANTOLOKING

Names approved 5-18-53  
L. Heck

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEYNONFLOATING AIDS ~~CHARACTERS~~ FOR CHARTS

TO BE CHARTED

STRIKE OUT ONE

Toms River, New Jersey

24 September, 1951

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

The positions given have been checked after listing by

Harry F. Garber

Commander, USCGC, Chief of Party.

New Jersey				POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED	
STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE		LONGITUDE								DATUM
				° ' "	D. M. METERS	° ' "	D. P. METERS							
	LT. 1441	(Manasquan Inlet North Jetty Light 1951) Red Light on Red Skeleton Steel Tower		40 06	1640	74 01	12 81.2	N.A. 1927 T-9843	1951	X	X	X	795 822 1216	
	LT. 1442	(Manasquan Inlet South Jetty Light 1951) Green Light on Black Skeleton Steel Tower		40 06	315	74 01	1314.7	"	"	X	X	X	"	
✓	LT. 1	Manasquan River		40 06	1645	74 03	558.0	"	Photo Plot T-9843	X	X	X	795 825	
✓	LT. 2	"		40 05	1520.6	74 03	775.0	"	"	X	X	X	"	
✓	LT. 3	"		40 05	981.3	74 03	1245.2	"	"	X	X	X	"	
✓	LT. 4	North entrance to Bayhead-Manasquan Canal		40 05	537.0	74 04	148.0	"	"	X	X	X	"	
✓	LT. 6	South entrance to Bayhead-Manasquan Canal		40 03	1372.0	74 03	110.0	"	"	X	X	X	"	
✓	LT. 8	Metedeconk River		40 03	1173.0	74 03	198.0	"	"	X	X	X	"	
✓	LT. 10	"		40 03	757.0	74 03	316.0	"	"	X	X	X	"	
✓	LT. 2	Mardiello Neck		40 03	464.0	74 03	1267.0	"	"	X	X	X	"	
✓	LT. 11	Herring Island		40 03	216.0	74 03	38.0	"	"	X	X	X	825	
✓	LT. 12	"		40 02	1811.0	74 03	72.0	"	"	X	X	X	"	
✓	LT. 13	Barnegat Bay (Swan Point)		40 01	1630.0	74 03	603.0	"	"	X	X	X	"	
✓	LT. 15	Barnegat Bay (Sloop Point)		40 01	739.0	74 04	72.0	"	"	X	X	X	"	

Positions of displaced landmarks and nonfloating



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

## PHOTOGRAMMETRIC OFFICE

## NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED

~~TO BE DELETED~~

STRIKE OUT ONE

Toms River, New Jersey

24 September, 1951

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 *V. J. M.*

Harry F. Carber

Commander, USCGC-3, Chief of Party.

New Jersey			SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
STATE	CHARTING NAME	DESCRIPTION		LATITUDE		LONGITUDE									
				°	'	D. M. METERS	°	'	D. P. METERS						
	LT. 16	Barnegat Bay (Seaweed Pt.)	40	00	1044.8 756.0	74	04	1311.0	N.A. Photo Plot 1927 T-9843	1951	X			825	
	LT. 17	Barnegat Bay	40	00	361.0	74	05	694.0	"	"	X			"	
	LT. 18	Barnegat Bay (Mosquito Cove)	39	59	1070	74	06	859	Photo Plot T-9828	"	X			"	
	LT. 19	Barnegat Bay (Tilton Pt.)	39	58	1321	74	06	650	"	"	X			"	
	LT. 21	Barnegat Bay	39	58	122	74	06	117	"	"	X			"	
	LT. 22	Barnegat Bay	39	57	885	74	06	411	"	"	X			"	
	LT. 23	Barnegat Bay	39	57	98	74	06	30	"	"	X			"	
	LT. 22	Barnegat Bay (North of Pelican Island)	39	57	659	74	05	866	"	"	X			"	
	LT. 4	Barnegat Bay (West Point Island)	39	57	1252	74	05	186	"	"	X			"	
	LT. 1	Toms River X	39	56	373	74	06	1063	"	" 5	X			"	
	LT. 2	Toms River (Long Point)	39	56	65.2	74	08	465.0	Photo Plot T-9827	"	X			"	
	LT. 3	Toms River	39	56	1312	74	11	387	"	"	X			"	
	LT. 4	Toms River	39	56	1775	74	11	522	"	"	X			"	
	LT. 24	Barnegat Bay	39	56	691.4	74	06	511.3	Photo Plot T-9828	"	X			"	

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

## NONFLOATING AIDS GREEN AND WHITE FOR CHARTS

TO BE CHARTED  
~~TO BE CHARTED~~

**STRIKE OUT ONE**

Toms River, New Jersey      24 September, 1951

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

The positions given have been checked after listing by

**Harry F. Garber**  
**Commander, USCGC, Chil**

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE		LONGITUDE		DATUM							
									D.P. METERS						
				°	'	D.M. METERS	°								
New Jersey															
LT. 25	Barnegat Bay	X ✓		39	56	461	74	06	419	N.A. Photo Plot T-98285 1927	1951	X			825
LT. 26	Barnegat Bay	X ✓		39	56	136	74	06	243	"	"	X			"
LT. 1	Barnegat Bay (South of Pelican Island)	✓ X		39	55	1680	74	05	1211	"	"	X			"
LT. 2	Barnegat Bay (South of Pelican Island)	✓ X		39	56	245	74	05	683	"	"	X			"
LT. 28	Barnegat Bay	X ✓		39	55	1150	74	05	1261	"	"	X			"
LT. 30	Barnegat Bay	X ✓		39	54	1475	74	06	1382	"	"	X			"
LT. 31	Barnegat Bay	X ✓		39	53	1804	74	07	306	"	Photo Plot T-9829	X			"
LT. 1	Cedar Creek			39	52	191	74	08	56	"	"	X			"
LT. 32	Barnegat Bay			39	51	284	74	07	575	"	Photo Plot T-9830	X			"
LT. 2	Barnegat Bay (Entrance to Forked River)	X		39	49	760	74	09	212	"	Photo Plot T-9829	X			"
LT. 4	Forked River			39	49	1069	74	09	1271	"	"	X			"
LT. 5	Forked River			39	49	1061	74	10	705	"	"	X			"
LT. 1	Oyster Creek	X		39	48	1166	74	10	1561	"	"	X			"
LT. 2	Waretown Creek	+		39	47	1207	74	10	1251	"	"	X			"

**STRIKE OUT ONE**

## NONFLOATING AIDS ~~THESE~~ FOR CHARTS

**Tomb River, New Jersey**

24 September 1951

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

The positions given have been checked after listing by

**Harry F. Garber**

**Commander, USCGS, Chief of Party.**

[illegible]



**TO BE CHARTED  
TO BE DELETED**

Toms River, New Jersey

24 September 1951

The positions given have been checked after listing by

Harry F. Garber  
Commander, USCGC Chieft

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating*







# NON-FLOATING AIDS OR LANDMARKS FOR CHARTS

STRIKE OUT ONE Stereoscopic Lapping Sect, Div of Photogy, Wash, D.C.

7 Nov 52, 1952

The positions given have been checked after listing by

*Louis Hood*  
Chief of Party

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating*



## DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

**AERONAUTICAL**  
**XXXXXXXXXXXXXXXXXXXX**

## NONFLOATING AIDS OR LANDMARKS FOR CHARTS

**STRIKE OUT ONE**

**TO BE CHARTED**

Toms River, New Jersey

24 September 1951

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

Harry F. Garber

Commander, USCGS, Chief of Party.

[illegible]



PHOTOGRAMMETRIC OFFICE REVIEW

T-9843 NLS

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 along-shore 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. Descriptive report ☒ 38. Field inspection photographs ☒ 39. Forms ☒  
40. ☒

41. Remarks (see attached sheet)

Louis J. Reed, Chief  
Stereoscopic Mapping Section  
Photogrammetric Engineer

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:

M-2623-12

Philadelphia District Engineers Control Stations - New Jersey  
Point Pleasant Quad. N 4000 - W 7400

## Geographic Positions

## Longitude

Lat (m)

Long (m)

40 01 39.271

74 03 12.474

40 02 02.417

74 03 37.012

40 02 06.512

74 03 07.428

40 02 24.381

74 03 19.352

40 02 41.163

74 03 36.321

40 02 48.365

74 03 03.170

40 03 08.161

74 03 12.432

40 03 24.637

74 03 09.598

40 03 41.681

74 03 24.856

40 03 41.926

74 02 57.577

Canal

R. Bayhead

40 03 50.802

74 03 08.673

Wet

40 03 52.979

74 02 55.028

IF

40 04 00.500

74 02 56.434

S. Jetty Lt.

40 06 01.046

74 01 55.457

N. Jetty Lt.

40 06 05.326

74 01 54.351

Descriptions for the above stations may be acquired by contacting XXX

WAKEMAKKIMAKYXNKKAKXSAAKXENGKMAKXGKKAXXIIMXPIAKXPKMXPKMAK  
KTKXMXGKAKGKOKKTKKXKXKAKKAKKAKKAKKAKKAKKXPKXKAKKAKKAKKAKKAKKAKKX

The District Engineer, U. S. Engineer Office, P.O. Box 8629, Philadelphia, 1, Pa.			
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FIELD EDIT REPORT  
Project Ph-72(51)  
Quadrangle T-9843

51. Methods.- The field edit for this quadrangle was accomplished by traversing, via truck, all roads and walking to other areas in which the reviewer requested information, or for a general check on the adequacy of compilation. The shoreline was inspected by skiff and walking along the sea beach.

Corrections and additions were made by standard surveying methods in conjunction and visual inspection. All corrections and additions are referenced on the discrepancy print and the field edit sheets. Work appears on F.E. sheets labeled "A", "B", S/2; "A", "B", and "C" N/2. Also field photographs 51-0-1720, 1721, 1723, 1724, 1738, 1769, 1784, 52-J-1380, 1381, 1382, 1383, 1384, and 1385.

A Legend appears on the field edit sheet showing the various color inks used on corrections.

The actual field work was accomplished in the period 8th to 19 June 1953.

52. Adequacy of Compilation.- The map compilation is adequate and will be complete after field edit data is applied.

Large residential areas that were omitted from field inspection by the original field party were inspected and shown on the field edit sheet. New photography (1952) along the beach was used in field inspecting this area.

53. Map Accuracy.-The horizontal accuracy of all map detail is good. Two triangulation stations were found destroyed and are reported on Form 526. Ref. Par. 34, Descriptive Report.

An area of approximately one square mile, in the northwest corner of the quadrangle was thoroughly checked for vertical accuracy. Elevations were carried along all open areas and some wooded areas. The contours here proved very satisfactory and extensive traversing throughout the area was abandoned.

One vertical accuracy test was run on the field edit sheet where contouring was done by stereoscopic instruments. The test started on a fly level point established by the original field party, and ended on a New Jersey G.C.S. monument and benchmark. Twenty-one points were tested, and all were within one-half contour interval or better. 25% of the points tested were in error between three and five feet. The remaining 75% were within 3 feet or less in error.

The vertical accuracy of contours on this sheet appears to be excellent.

54. Recommendations.- None

55. Examination of Proof Copy.- It is believed that Mr. Lawrence F. Wagner, Ocean County Engineer, Toms River, New Jersey, is best qualified to examine a proof copy of this work.

A spot check of Geographic Names was made and proved to be in good agreement with those on this sheet.

56. Boundary lines.- An investigation was made of the western boundary line of the Boro's along the beach as established by the Riparian Commission. This commission had no authority to fix or describe any boundary of any municipality. Their function was limited to the jurisdiction and control of all lands under tide water irrespective of political boundaries. Any construction or obstruction in tideland waters would directly concern this commission, but not necessarily the Boro.

The Riparian Commission has now been merged as a part of the New Jersey Bureau of Navigation and Economic Development, 1060 Broad Street, Newark, New Jersey.

57. Aids to Navigation.- One fixed aid to navigation was located by theodolite cuts. Stations used were CONK, 1934, RING, U.S.E., 1946, Photo Point 16 (established in 1951), and Photo Pt. 1-F, established by this field edit party as a check. Descriptions of U.S.E. stations in this area were not available.

Form 567 is submitted for all fixed aids to navigation within this quadrangle.

58. Other Interior Features.- An unusual amount of building and real estate developing has taken place in this area within the past two years. Such new additions appear on the 1952 photography along the beach and on the field edit sheets for inland areas.

59. Junctions.- Satisfactory junction has been effected with T-9828 on the south. The Atlantic ocean is on the east. No junction was made by this party in the north and west.

Submitted 22 June, 1953

Richard L. McGlinchey  
Cartographic Survey Aid

## Summary to Accompany Descriptive Report

T-9843

Topographic map T-9843 is one of 6 similar maps in project Ph-72(51). This project covers the New Jersey coast from latitude  $39^{\circ} 45'$  near Barnegat Inlet, northerly to latitude  $40^{\circ} 07' 30''$  near Manasquan Inlet, and also a small area in the vicinity of Avalon (latitude 39-06). This map was compiled by stereoplanigraph and Kelsh Plotter. The field operations prior to compilation included complete field inspection, supplemental leveling and planetable contouring of the flat areas. 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. The 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-9843 will include 2 one-half quadrangle cloth-mounted prints at scale 1:10,000 designated as T-9843N and T-9843S, 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.



Review Report T-9843  
Topographic Map  
10 June 1954

62. Comparison with Registered Topographic Surveys.-

T-116	1:10,000	1839
1084	"	1868
2459	1:20,000	1899-1915
158	"	1842
5284	1:10,000	1933
5285	"	1932
6216a	"	1934
6216b	"	"
5286	"	1932
6375a	"	1935
6375b	"	"

By comparison with the more recent of the above surveys the ocean side shoreline on T-9843 has moved seaward in the vicinity of Manasquan Inlet and along the groined area north of the inlet. Other outside beaches have apparently been affected very little by erosion.

T-9843 supersedes all the above surveys in common areas for nautical charting purposes.

63. Comparison with Maps of Other Agencies.-

Point Pleasant, N.J., USED 7.5' quadrangle, 1:25,000, contour interval 20 feet, 1947. Extensive cultural developments have taken place in the area since preparation of this map.

64. Comparison with Prior Hydrographic Surveys.-

H-5870 Barnegat Bay, Northern Part, 1:10,000, June 1935  
H-5615 Manasquan River & Metedeconk River, 1:10,000,  
November 1934.

No soundings in conflict with shoreline of T-9843 except in vicinity of 40/00.3 and 74/04.0 where the shoreline has obviously been changed by cultural development.

65. Comparison with Nautical Charts.-

795, 1:10,000, Manasquan River & Bay Head Harbor, edition 1948, last correction 5/5/52.

Some differences exist along the south shore of Manasquan River just east of Bay Head Canal in the mapping of the shoreline and waterfront structures. Other shoreline differences are as mentioned in 62 above. Published bridge clearances are in agreement except for the fixed bridge at 40/06.5 and 74/02.3. Clearance data is furnished for 4 other fixed bridges. Nav. lights 1, 2, and 3 Manasquan River have been relocated by this survey.

*40°06'02" } CE card  
74°02'17" }*

*No bridge  
at this  
position*



825, 1:40,000, Intracoastal Waterway, edition of 1953, last correction 8/24/53. (South of southerly limit of Chart 795). No significant differences between T-9843 and this chart.

66. Accuracy 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. This map complies with the National Map Accuracy Standards.

67. Junctions with maps of other agencies. -

To North with USED "Asbury Park" 7.5 minute quadrangle, 1:24,000, 1947, contour interval 20 feet.

To West with USED "Lakewood", same series.

Planimetry on T-9843 junctions satisfactory with above maps. Contours have not been junctioned. Shifting of the 20 ft. interval contours on T-9843 to junction with those on the USED quadrangles cannot be effected without exceeding accuracy tolerances of 10 ft. interval contour mapping. However, the 20 foot interval contours on the USED quadrangles could be shifted to junction with those on T-9843 without exceeding accuracy tolerances of 20 foot interval mapping.

Reviewed by:

John M. Neal  
John M. Neal

APPROVED:

L.C. Landy  
Chief, Review Branch  
Div. of Photogrammetry

Lew Swanson  
Chief, Div. of Photogrammetry

24 Dec 1958

Max Skunketto  
Chief, Nautical Chart Branch  
Division of Charts

J. D. Russell  
Chief, Div. of Coastal Surveys

Ph-T2  
Application of Hydrography

<u>Manuscript</u>		<u>Source</u>		<u>Date Applied</u>	<u>Date Verified</u>
T-9843 N		Chart 795 " 824 H-6190	1:40,000	1936	Sept. '54 Dec. '54
T-9843 S		Chart 825 H-5615 6136 6188 6190	1:10,000 1:20,000 1:40,000 1:40,000	1934 1936 1936 1936	" " " "
T-9828 N		Chart 825 H-6136 6188	1:20,000 1:40,000	1936 1936	Sept. '54 Dec. '54
T-9828 S		Chart 825 H-6188	1:40,000	1936	" "
T-9830 N		Chart 825 H-6136 6188	1:20,000 1:40,000	1936 1936	Nov. '54 Dec. '54
T-9830 S		Chart 1216 Chart 825 H-6136 6141 6188 6271	1:20,000 1:10,000 1:40,000 1:40,000	1936 1935 1936 1937	" "
T-9827 N		Chart 825			Dec. '54 Dec. '54
T-9827 S		Chart 825			" " " "
T-9829 N		Chart 825			Sept. '54 Dec. '54
T-9829 S		Chart 825			" " " "
T-9831 N		Chart 827 Chart 1217 H-6227 H-6264	1:20,000 1:40,000	1937 1937	Dec. '54 Dec. '54
T-9831 S		Chart 1217 H-4821 H-6227 H-6264	1:20,000 1:20,000 1:40,000	1928 1937 1937	" " Jan. '55

Hydrography for entire project was compiled by John M. Neal and verified by G. Svendsen. All soundings are in feet at mean low water. The 6, 12, 18, 30 and 60-foot depth curves are shown.

\_\_\_\_\_  
John M. Neal

\_\_\_\_\_  
Date

\_\_\_\_\_  
G. Svendsen

\_\_\_\_\_  
Date