9500

Diag. Cht. Nos. 1216-2 & 1217-2.

₹.7

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Photo-Topographic

Field No.Ph-59 (50) Office No. T-9500

LOCALITY

State New Jersey

General locality Atlantic-Burlington Counties

Locality New Gretna

194 51

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

DATE September 28, 1955

B-1870-1 (1)

DATA RECORD

T -9500

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

22 June, 1950 (Supplement 1)

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

NOV 9

Date:

1951 Date reported to Nautical Chart Branch (IV): NOV 1 6 1951

Date received in Washington Office (IV):

Date registered (IV):

SEP, 6 1955

Publication Scale (IV): 1:24,000

Publication date (IV):

Geographic Datum (III):

Applied to Chart No.

N.A. 1927

Vertical Datum (III):

Mean sea level except as follows:

Elevations shown as (25) refer to mean high water Elevations shown as $(\underline{5})$ refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III):

CRETNA, 1932

36.800"(1134.9)

Plane Coordinates (IV):

State: New Jersey

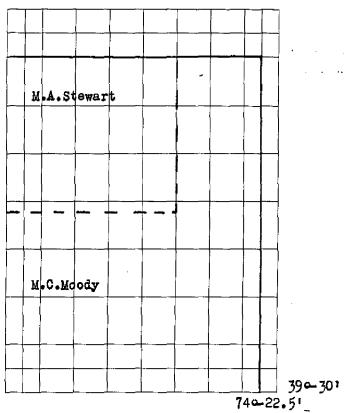
Zone:

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.



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

DATA RECORD

Field Inspection by (II): M.C.Moody

Completion Surveys by (II):

M.A. Stewart

Date: Sept.1950

Planetable contouring by (II): M.C.Moody

M.A.Stewart

J.K. Wilson

Date: July, Sept.1950

Date: Dec.18, 1951

Mean High Water Location (III) (State date and method of location): 4/16/50 Photogrammet ric

Projection and Grids ruled by (IV): T.L.Janson Date: 1/5/51

Projection and Grids checked by (IV): H.D. Wolfe Date: 1/16/51

Control plotted by (III): J.C.Richter Date: 4/18/51

Control checked by (III): R. Hartley Date: 5/7/51

Radial Plot most menscorus F. J. Tarcza Date:

5/29/51

Planimetry Date:

Stereoscopic instrument compilation (III):

Contours

Date:

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

J.B.Phillips (N)

Date: 11/7/51
10/16/51

Photogrammetric Office Review by (III): R.Glaser Date: 11/5/51

Elevations on Manuscript R.Glaser Date: 11/5/51

checked by (II) (III):

|Ratio of | Mean | Spring |

Camera (kind or source) (III):

		PHOTOGRAPHS (III))	
Number	Date	Time	Scale	Stage of Tide
50-0-863 to 869 50-0-879 to 884 50-0-903 to 909 50-0-920 to 923 50-0-924 to 925	4-16-50 " " "	11:52 12:07 12:27 12:41 12:42	1:10,000 # #	1.8' above MLW 1.6' above MLW 0.6' above MLW 0.6' above MLW
50-0-926	11	12:42	ń	0.2 above MLW

Tide (III)

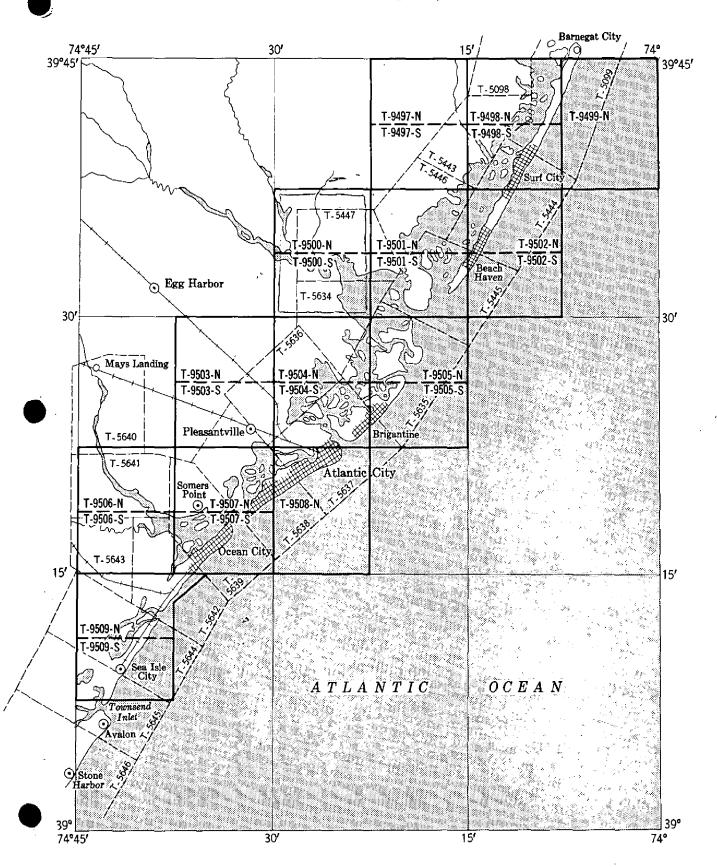
From predicted time tables.	Ranges Range Range
Reference Station: Sandy Hook, N.J.	4.6 5.6
Subordinate Station: Mullica River Highway Bridge	0.7 3.3 4.0
Subordinate Station: Graveling Point	0.7 3.4 4.1
(continued below)	
Washington Office Review by (IV): K. N. Mak I	Date: /2/23/52
Royald Hapkens T 9000 N	1/4/50
Washington Office Review by (IV): L. N. Mark; Rouald Hopkius T 9500 N Final Drafting by (IV): Rouald Hopkius T 9500 S	Date: /2/23/52 1/4/55 Date: 1/24/55
Drafting verified for reproduction by (IV):	Date:
Proof Edit by (IV):	Date:
Land Area (Sq. Statute Miles) (III): 46 sq. m1.	
Shoreline (More than 200 meters to opposite shore) (III): 32 statute miles	
Shoreline (Less than 200 meters to opposite shore) (III): 101 statute miles	
Control Leveling - Miles (II): 31.4	
Number of Triangulation Stations searched for (II): 34 Recovered: 32	Identified: 8
	Identified: 7
ζ. κ	identified: 7
Number of Recoverable Photo Stations established (III):	
Number of Temporary Photo Hydro Stations established (III): None	•
	· ·

Remarks:

Subordinate stations	Ratio of	Mean	Spring
	Ranges	Range	Range
Tuckerton Creek Entrance	0.5	2.4	2.9
Seven Islands	0.8	3.5	4.2

* Two previously established stations were recovered and identified.

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-9500

Topographic map T-9500 is one of 13 similar maps in project Ph-59(50). This project covers the New Jersey coast from Townsend Inlet north to the borough of Barnegat Light. This map was compiled almost entirely by graphic methods. A small portion of the extreme northeast area of the map was compiled on the stereoplanigraph. The field operations preceding compilation included complete field inspection, the establishment of some additional horizontal control and the determination of numerous elevations for stereo instrument and planetable contouring. The compilation was at a scale of 1:10,000. The manuscript consists of 2 sheets each 3 3/4 in latitude by 72° in longitude. The entire map was field edited. The map is to be published by the Geplogical Survey at a scale of 1:24,000 as a standard 721 topographic quadrangle. The registered copies under T-9500 will include 2 one-half quadrangle cloth mounted prints at scale 1:10,000 identified as T-9500 N/2 and T-9500 S/2 and a 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-9500 PROJECT Ph-59

Harry F. Garber, Chief of Party

The field work for this 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:

Name and Title	Phase	<u>Date</u>
E. T. Jenkins Cartographer	Horizontal Control Recovery and Identification - Shore-line Inspection	September, 1950
H. R. Moore Cart. Sur. Aid	Horizontal and Vertical Control Recovery and Identification	August, 1950
M. C. Moody Cart. Sur. Aid	Fly Levels, Contours	AugSept., 1950
M. A. Stewart Cart. Sur. Aid	Contours	August, 1950

2. AREAL FIELD INSPECTION

Three tide water rivers, several creeks, and a portion of Great Bay fall within the quadrangle. These waters along with the low marshy ground along their shores comprise about fifty per cent of the area. Two villages, namely, New Gretna and Port Republic, the latter of which is incorporated, are in the quadrangle. These villages, as well as most of the higher land, are adequately served by hard-surfaced and secondary roads. Fishing and cranberry culture are the chief enterprises. A historical monument, "Chestnut Neck Battle Monument" is located south of the Mullica River and just east of Highway U.S. 9 (N.J. 4).

The photographs were of good quality and no difficulty was encountered in their interpretation. It was noted they were taken at an extremely wet season, and that the cranberry bogs were flooded.

The field inspection is believed to be complete.

3. HORIZONTAL CONTROL

All known horizontal control stations were searched for and reported on Form 526. A sufficient number were identified to satisfy the project instructions.

(a) Two short, third order traverses (a total of 9.0 miles) were run to the western limit of the quadrangle to furnish supplemental control for the photogrammetric plot. One of the traverses originated at triangulation station Gretna and the other originated at N.J.G.C.S. monument 1852. Both are open end traverses, the azimuth being tied in to a sun azimuth, and were taped in both directions. No monumented stations were set. A total of 11 picture points were located and identified on the photographs.

Four directions were observed with a Wild T2 theodolite, using the standard traverse targets and tripods as manufactured by Wild. A 300-foot steel tape, which was checked against a standardized invar tape before and after the traverses, was used. A standard centigrade thermometer was used to determine the air temperature at the beginning of each section. The taping was done directly on a hard-surfaced road, with the tape supported throughout, and levels run to determine the difference in grade at each tape length and station.

- (c) Control established by the N.J.G.C. Survey was used along with that established by the U.S.C.&G.S. throughout the quadrangle. No datum adjustment was made.
- .. (e) Two stations were reported lost; they are: N.J.G.C.S. monuments Nos. 7834 and 10859.

4. VERTICAL CONTROL

All known vertical control was searched for and reported on Form 685A. However, due to the plethora of control along the highways, only a small portion of the bench marks were used or identified.

(a) Listed, are the bench marks used:

Designation	Establishing Agency	Order
в 8	U.S.C.&G.S.	First
F 8	П	0
Mon. 1850	N.J.G.C.S.	Unknown
" 1851	п	u
# 7872	II.	#
# 10848	ti	Ħ
H 10858	, th	H

- (b) 31.4 Miles of differential levels were run with a semi-precise level along secondary roads to supplement elevations for contouring. The levels began and closed at bench marks; the greatest error of closure was 0.37 foot, and the adjustments were prorated according to the number of set-ups.
 - (c) The first and last level points are 00-1 to 00-35.

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 Mullica, Wading and Bass Rivers, and their tributaries. The highest natural elevation is 84 feet and is in the northeast section.

6. WOODLAND COVER

Classified in accordance with current instructions.

7. SHORELINE AND ALONGSHORE FEATURES

The greater portion of the shoreline is marsh, and with the exception of four small areas, is apparent. All alongshore features were inspected and they were classified except where clearly discernible on the photographs.

- (a) Along the marsh (apparent) shoreline, the mean high water line and low water line are synonymous. The mean high water line was delineated along the small portion of fast land.
 - (c) The small amount of foreshore is sand.
 - (d) There are no bluffs or cliffs near the shoreline.
- (e) Docks, wharves, and piers have been delineated and classified on the photographs.
 - (f) Submarine cable ends have been located on the photographs.

8. OFFSHORE FEATURES

The only offshore features are four piles just east of the Mullica River Bridge - one, a 48-inch steel cased concrete pile is clearly discernible, and has been labeled on the photograph. Three wooden piles just east of the bridge guard on the north side of the channel are awash at low water, and have been indicated on the photograph in their approximate position. These piles are the remains of the old bridge.

9. LANDMARKS AND AIDS

There are no landmarks in the quadrangle. However, a tall radio mast (Aero Beacon RCA), which is located near the central part and just east of the quadrangle, serves as a landmark for the entire quadrangle.

(d) Seven fixed aids to navigation, which are lights supported by single wooden piles, were located in accordance with the project instructions.

10. BOUNDARIES, MONUMENTS AND LINES

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

11. OTHER CONTROL

7 Recoverable topographic stations are:

```
(Mullica SW Gable, 1935) (Boundary Mon. 9, P. Republic H. & F. Grounds)
(North Gable Red Shack, 1935) (" " 18, " " " " " )

(White, 1950 ) (" " 19, " " " " " )
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12. OTHER INTERIOR FEATURES

Roads and buildings were classified in accordance with the current instructions. It is to be noted that the classification of highway U.S. 9 (N.J. 4) changes across the Mullica River marshes due to the lack of foundation.

Bridge and cable data for the five drawbridges in the quadrangle are recorded on the photographs. The horizontal clearances for the four bridges listed in the "List of Bridges Over Navigable Waters of the U.S." is in good agreement. The vertical clearances were determined by measurements to tide water. These measurements were made during normal weather conditions and the date and time of measurement noted on the photographs.

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 13 October 1950.

11 October 1950 Submitted by:

George E. Varnadoe Cartographic Engineer

11 October 1950 Approved by:

Harry F. Garber Chief of Party

MAP T- 9500		PROJECT NO.	CT NOPh. 59,(50	(50)	SCALE OF MAP1:10,000	0,000	SC/	SCALE FACTOR	В
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR <i>u</i> -COORDINATE LONGITUDE OR x-COORDINATE	JORDINATE GORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM		N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINI IN METERS FORWARD (BACK)
AKIMBO, 1935	G-3126 343	N.A. 1927	39 33 74 26	12.441			383.7 108.7	(1466.7) (1323.9)	
GREAT, 1935	G-3126 334	11	39 32 74 23	19.495			601.2	(1249.2) (792.4)	
GRETNA, 1932	G-1249 13	=	39 35 74 26	36.800 52.514			1134.9	(715.5) (178.6)	
HOWELL, 1935	G-3126 335	=	39 34 74 27	32.545			1003.7	(846.7) (83.2)	
LONG, 1935	G-3126 334	= ()	39 34 74 26	30.597			943.6 499.8	(906.8) (932.2)	
NACOTE, 1935	G-3126 335	Ħ	39 31 74 27	55.019			1696.8	(153.6) (421.7)	
OYSTER, 1935	G-3126 334	п	39 30 74 24	22.526			694.7 1035.4	(11.55.7) (398.0)	
MON 1851 NJGCS, 1934	NJGCS	E.	256,258.76				383.7	(1140.3)	
MON 1852 NJGCS 1934	E	=	257,953,43				900.2	(623.8)	
MON 1853 NJGCS, 1937	tt	и	2,058,549.08				322.5 1081.8	(1201.5)	
MON 1854 NJGCS, 1937	t .		276,327.77				404.7 1495.4	(1119.3) (28.6)	Page
MON 2263 NJGCS, 1935	=	#	277,555.49				778.9	(416.7)	12
1 FT. = 3048006 MITER COMPUTED BY. J. C. Richter	chter	DA	DATEDec.	. 1950	CHECKED BY:	M.F.Kirk		DATE 16	Jan. 1951 M.2388-12

MAP T. 9500		PROJEC	PROJECT NO. PH-59(50)	SCALE OF MAP]	7: TO ,000	SCALE FACTOR	TOR
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LIN IN WETERS FORWARD (BACK)
MON 2264 NJGOS, 1935	NJGCS	N.A. 1927	277,552,71 2,071,863,42			778.1 (745.9) 568.0 (956.0)	
MON 7832 NJGCS, 1940	=	=	276,539.31 2,060,759.82			469.2 (1054.8) 231.6 (1292.4)	
MON 7833 NJGCS, 1940	(#	=	276,598.73			487.3 (1036.7) 710.3 (813.7)	
MON 7835 NJGCS, 1940	=	=	276,901.41			579.6 (944.4) 1492.6 (31.4)	
MON 7836 NJGCS, 1940	=	=	2,066,528.58			502.9 (1021.1) 465.9 (1058.1)	
MON 7837 NJGCS, 1940	. =	=	276,340.48			408.6 (1115.4) 930.4 (593.6)	
MON 7870 NJGOS, 1940	=	=	276,622.63 2,069,078.21			494.6 (1029.4) 1243.1 (280.9)	
MON 7871 NJGCS, 1940	=	=	277,064.88			629.4 (894.6) (7356 (1450.4)	
MON 7872 NJGCS, 1940	=	=	277,324.29 2,074,789.64			708.5 (815.5) 1459.9 (64.1)	
MON 7873 NJGS,1940	11	=	2,075,990,77			670.8 (853.2) 302.0 (1222.0)	
MON 10848 NJGCS,,1941	=	C.E	276,011.94 2,058,257.76			308.4 (1215.6) 993.0 (531.0)	Page]
MCN 10849 NJGCS, 1941	=	=	275,428.36			130.6 (1393.4, 703.7 (820.3)	3
FT. = .3048006 NETER J.C. Richter	Richter		11 Dec.1950	M.F. Kirk	Kirk	16	M-2388-12

STATION Court Co								
NJGCS 1927 2,057,182.70 1239.82 1239.82 1239.82 1231.70 1231	STATION	SOURCE OF INFORMATION (INDEX)		LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	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)
	MON 10850 NJGCS, 1941	NJGCS	N.A. 1927	274,264.51 2,057,182.70				
	MON 10851 NJGCS, 1941	=	=	273,132,79			- -	
	MON 10852 NJGCS, 1941	=	=	271,101.33	100			
CS,1940 " 281,902.4 579.95.4 579.9 689.3 CS,1940 " 2,060,884.3 Plot graphically CS,1940 " Plot graphically CS,1940 " Plot graphically CS,1940 " Plot graphically Plot graphically CS,1941 " Plot graphically Plot graphically CS,1941 " Plot graphically CS,199 (CS,1941 "	MON 10853 NJGCS, 1941	=	=	269, 689.12 2,057,842.04				
CS,1940 "	MON 1085E NJGCS, 1940	=	=	281,902.4				
#1 " Plot graphically #1 " Plot graphically #2 Plot graphically #4	POINT 4807 NJGCS, 1940	· ±	=	277,950.42			- -	1.00
#1 " Plot graphically #2 39° 33." Plot graphically " 74 26 257.8	Sub Pt MON 2263 NJGCS,19	Q	=		1 1			
NJGCS, 1941 " 39° 33!" Plot graphically 241.9 " 74 26 257.8	Sub Pt. MON 7873 NJGCS,19	Q	=					
39° 33," 241.9 " 74 26 257.8	Sub Pt MON 10851,NJGCS,	1461	=		1			
	Sub Pt AKIMBO,1935		=				- -]
								age 1
								4
COMPLIED BY. M.F. Kirk 1.0 - 16 Jan	1 FT = 3048006 METER J . C . I	lichter		18 Dec.1950	H E	Kirk	16	.1an 1941

STATION SOURCE OF INFORMATION (INDEX) Sub.Pt. Sub.Pt. Sub.Pt. Sub.Pt. Sub.Pt. Sub.Pt. Sub.Pt. MCN_Z870,NJGCS, "	LATITUDE OR W. COORDINATE LONGITUDE OR X. COORDINATE 39 35 74 26 39 30 74 27 74 27 74 27	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	N.A. 1927 - DATUM DATUM FROM GRID OF PROJECTION LINE	
35 5 GGS,				FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
			1166.0 (684.4) 1278.2 (153.4)	
			773.8 (1076.6 1031.4 (401.0)	
			722.9 (1127.5 962.0 (471.4)	
	Plot graphically			
MON 7834 NJGCS, 1940 NJGCS "	277,133.80		650.4 (873.6) 1116.5 (407.5)	
MULLICA, 1935 G-3126 P.335 "	39 33 25.650 74 27 42.950		791.0 (1059.4) 1025.3 (407.1)	
MON 2261 NJGCS, 1935 NJGCS "	279,027.99		1227.7 (296.3) 608.6 (915.4)	
				Page 1
				.5
		CHECKED BY M.F.Kir	DATE 16	Jan. 1951
I FT. = ,3048006 METER J. C. Richter DA	DATE 18 Dec. 1950	CHECKED BY M.F.Kirk		16 Ja

MAP T-		PROJECT NO.	ST NO.	SCALE OF MAP		SCALE FACTOR	Ä
STATION	SOURCE OF INFORMATION (INDEX)		LATITUDE OR V-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN WETERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
PP No. 1 (\$28A)		N.A. 1927	257,693.22 2,056,206.45			820.9 (703.1) 367.7 (1156.3)	
PP No. 2 (52SA)		н	257,103.24 2,053,391.80			641.1 (882.9) 1033.8 (490.2)U	
PP No. 3 (525A)		ſſ	255,630.79 2,050,413.07			192,3 (1331,7) 125,9 (1398,1)	
PP No.4 (525A)		u	252,892.66			881.7 (642.3)	
PP No. 1 (GSA)		и	281,502,52 2,060,791.53			458.0 (1066.0) 241.3 (1282.7)	
PP No. 2 (GSA)		=	283,611.34 2,061,023.80			312.0 (1212.0)	
PP No.3 (GSA)		=	288,229.98 2,056,093.48			984.5 (539.5) 333.3 (1190.7)	
PP No.4 (GSA)		=	285,690.18			210.4 (1313.6)	
PP No. 5 (GSA)		=	284,812.45			1466.8 (57.2)	
PP No. 6 (GSA)		=	282,345.15 2,045,104.35			714.8 (809.2) 31.8 (1492.2)	Pag
PP No. 5 (52SA)		=	255,951.33 2,042,706.48			290.0 (1234.0) 824.9 (699.1)	B 16
1 FT. = .3048006 METER K + ** K	: :		ואסר מפז. אר	77	10 0 to 10 t	7 9 1	Ton 1051

COMPILATION REPORT

T-9500

The photogrammetric plot report for this survey is part of the descriptive report for Survey No. T-9508.

31. DELINEATION

This manuscript was compiled by graphic methods except for a small area in the NE corner of the survey which was done by stereoplanigraph in the Washington office and furnished on a work sheet.

32. CONTROL

The identification of the horizontal control was adequate. Refer to item 23 of the photogrammetric plot report for a discussion of the density and placement of the control.

33. SUPPLEMENTAL DATA

- 1. Oil Company Road Map, New Jersey, 1950 for road objectives
- 2. Army Map Service, Tuckerton, N.J. quadrangle, scale 1:50,000, dated 1948 for geographic names (name standard).
- 3. Special reports on Boundaries, New Jersey dated July 1950 and September 1950
- 4. Tax Map of City of Port Republic, N.J.
- 5. Map of Atlantic County, 1949
- 6. Map of Burlington County
- 7. Hap of Port Republic Public Hunting and Fishing Grounds
- 8. Tax Map, Galloway Township
- 9. General Highway Map, Burlington County, Sheets 1, 2 and 3 of 10 sheets.

34. CONTOURS AND DRAINAGE

A small area of contours in the NE corner of the survey was transferred from a worksheet compiled using the stereoplanigraph in the Washington Office and submitted with the data for Survey T-9501.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection was adequate. No low water or shoal lines were indicated by the field party and nome are shown.

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS

Form 567 for seven nonfloating aids to navigation is submitted with this report.

38. CONTROL FOR FUTURE SURVEYS

Forms 524 for eight recoverable topographic stations in the area were submitted on 9 November 1951...six stations established, two previous stations recovered. These stations are listed under item 49.

39. JUNCTIONS

Junctions with the following surveys have been made and are in agreement:

T-9501 to the east T-9504 to the south

There are no contemporary surveys to the north and west. To facilitate junction of future surveys with this survey, compilation has been extended $1/2^n$ beyond neat limit to the north and west.

40. HORIZONTAL AND VERTICAL ACCURACY.

No comment.

41 through 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

Survey T-9500 has been compared with:

- 1. Army Map Service, Tuckerton, N.J. quadrangle, scale 1:50,000 dated 1948.
- 2. USC&GS Topographic Map T-5447 (1936) and T-5634 (1936) scale 1:10,000.

47. COMPARISON WITH NAUTICAL CHARTS

Survey T-9500 has been compared with USC&GS chart No. 826, scale

47. COMPARISON WITH NAUTICAL CHARTS (continued)

1:40,000, published in June 1949, corrected to 3 November 1950.

Items to be applied to nautical charts:
None.

Items to be carried forward:
None.

Respectfully submitted

Joseph W. Vonasek

Cartographer (Photo)

Approved and forwarded

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

T-9500

Akimbo Point Atlantic County

Ballanger Creek
Bass River
Bass River State Forest
Bass River Township
Basses Bay
Big Creek
Big Graveling Creek
Blood Ditch
Blood Point
Bogans Cove
Broad Creek
Burlington County

* Chestnut Neck Battle Monument
City of Port Republic (for Vocandary)
Collins Cove
Collins Point
Cramer Creek

Deep Point DANS BRIDGE ROAD (thiname is O.K., but it lies to Doctor Point N. of this may)

East Branch

Galloway Township-Giffords Mill Branch Goose Cove Graveling Point Great Bay Greenbush Road Gretna: can find no justification for this name.

Hickory Point Yacht Club
Hillside Cemetery (note correct position, por Field Edit)

Ives Branch

Jobs Creek Judies Creek

Lake Absegami
Landing Creek
Leektown
Little Egg Harbor Township,
Loveland Thorofare

Geographic Names, T-9500 (continued) Mathis_Road Merrygold (locality or settlement) Mattix Run Merrygold Branch Miller Cemetery Mullie Marte Road Moss Mill Road Moss Point Mott Creek_ Mullica River Munion Field Road Nacote Creek. New Gretna N.J.4 Oak Island Ocean County Old Port Road Osborne Island Oyster Creek Oyster Creek (village) Oysterbed Point Pitney Road_ Port Republic St. Pauls Church (+ November Gretner, other in Port Republic) Stage Road * Port Republic Hunting and Fishing Grounds Radio Road Stage Road Swan Bay Turtle Island Wading River Netr Gretna Road Wading River Wading River (village) Washington Township West Branch (name or: East and West Branches join to Bass 12. Wigwam Creek form Willis Creek Names underlined in inspection data 12-15-52 12-15-52 1.Heck 1 Winter Creek Wolf Run

*Names from field inspection data

in N.J. are to be changed. U.S. highways will no longer have state numbers (obsertherity of Keystons Auto. club monthly magazine)

T-9500

48a. Geographic Names

The following additional geographic names were found on a blue print of a map submitted for the plotting of Bass River State Forest Zable, Atlantic City Park and No. 7K (Pharo) tracts: (See Special report on boundaries)

* Blue Goose Pond

Fish Creek

* Little Oak Island Lower Pasture Creek -

Mathis Thorofare

* North Calf Island

Pollys Ditch

Worlds End Creek

* Exact location doubtful

vaternay names in above 11st approved 12-21-52 L-Heck

49. NOTES FOR THE HYDROGRAPHER

Eight recoverable topographic stations are shown on the manuscript:

* MULLICA SW GABLE 1935

* NORTH GABLE RED SHACK, 1935

* WHITE, 1950

MON 3, 1950 MON 9, 1950 MON 18, 1950

MON 19, 1950

MON 21, 1950

N TOWER 1951

S TOWER 1951

* Station destrayed in storm of 1950

50-

PHOTOGRAMMETRIC OFFICE REVIEW

T. 9500

1. Projection and grids2. Title3. Manuscript numbers4. 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)
9. Plotting of sextant fixes Novel 10. Photogrammetric plot report 11. Detail points
·
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline13. Low-water line14. Rocks, shoals, etc15. Bridges16. Aids
to navigation17. Landmarks18. Other alongshore physical features19. Other along-
shore cultural features
siture cultural reactives
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
Jeachies ——
CULTURAL FEATURES
27. Roads 28. Buildings 29. Raiiroads Zacus 30. Other cultural features
27. Rodus 20. Buildings 25. Railroads Bazzes, 50. Other builtural reactives
BOUNDARIES
31. Boundary lines 32. Public land lines nous
22. Bodinosty mics
MISCELLANEOUS
33. Geographic names 34. Junctions 35. Legibility of the manuscript 36. Discrepancy
overlay 37. Descriptive Report 38. Field inspection protographs 39. Forms
40
Reviewer Supervisor, Review Section or Unit
41. Remarks (see attached sheet)
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The
manuscript is now complete except as noted under item 43.
J. B. PHILLIPS Frank Stanga
Complier Subervisor
43. Remarks: M.2623.12
See Item 48A

711 711 78

FIELD EDIT REPORT Quadrangle T-9500 Project Ph-59(50)

Paul Taylor, Chief of Party

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

51. METHODS

The quadrangle was inspected by traversing all passable roads by truck, walking to areas which required special investigation, and by skiff along water portions. In addition to 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 the colored inks used is shown on the field edit sheet.

One 1:20,000 scale sheet is submitted with the field edit information, and one 1:10,000 scale sheet with the vertical accuracy test.

52. ADEQUACY OF COMPILATION

The map compilation, in general, is adequate and will be complete after field edit data has been applied.

Special attention is called to the classification of the buildings. It will be noted that an undue number of buildings required deletion; especially in the northwest portion of the quadrangle. The deletion of the buildings along the Mullica River was due to the storm of 1950

All vertical bridge clearances were remeasured during this survey. It was found that, with the exception of the bridge at Fort Republic, all clearances were in error from two to three feet?

Many changes were made in the swamp delineation throughout the entire quadrangle, particularly in the northwestern part where no swamp had been previously shown. The field editor has outlined numerous areas to aid the compiler. It is recommended that extreme caution and thoroughness be used in adding and changing swamp areas.

53. MAP ACCURACY

The horizontal positions of the map detail appear to be good.

One vertical accuracy test was run along the northeastern edge of the quadrangle on a 1:10,000 scale double weight matte print. Of the 80 points tested, 75% were in error 1 foot or less and 25% in error 1 foot to 1/2 contour interval.

Several small errors of contour expression were corrected.

One active borrow pit was noted during this inspection and appropriate changes have been shown.

RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

Mr. Cornelius C. Garrison, local tax assessor, who has been a resident of this area for forty-five years, states that he would be willing to examine a proof copy for possible errors. Mr. Garrison's address is: Fort Republic, New Jersey.

56. LANDMARKS AND AIDS

- (a) Two power transmission towers, located at the Mullica River Highway Bridge, were identified by photogrammetric methods and are recommended on Form 567 for charting.
- (d) In reference to the nomenclature of the lights along the Mullica River, it was found, after questioning a number of the local residents, that these lights are commonly known by the point of land where they exist; such as Swimming Over Point light, Oyster Creek light, etc. In no case are they referred to as "Mullica River" lights.

57. OTHER CONTROL

Two topographic stations were located during this field edit; Mullica River North Transmission Tower and Mullica River South Transmission Tower. Three previously established topographic stations were destroyed by the storm of 1950. Form 524 is submitted.

> 14 December 1951 Submitted by:

Joseph K. Wilson. Cartographer

18 December 1951 Approved by:

Paul Taylor USC&GS Lt. Comdr., USC Chief of Party

VERTICAL ACCURACY TEST REPORT

Quadrangle T-9500 Project Ph-59(50)

This is a report of the results of the vertical accuracy test in this quadrangle. The planetable traverse originated and terminated on New Jersey Geodetic Control Survey Monument.

A total of 2.4 lineal miles were traversed by planetable to test 80 points on contours. The horizontal closure was negligible. The vertical closure was 0.4 foot and no adjustment was made.

The results of the 80 points tested are as follows:

75% were in error 1 foot or less; and 25% in error 1 foot to 1/2 contour interval.

14 December 1951 Submitted by:

Joseph K. Wilson Cartographer

18 December 1951 Approved by:

Paul Taylor/

Lt. Comdr., USC&GS

Chief of Party

COAST PILOT, SECTION Form 567 April 1945

DF COMMERCE U. S. COAST AND GEODETIC SURVEY **DEPARTMEN**

ANONAMENDATION LANDMARKS FOR CHARTS

TO BE CHARTED **AYOCYBEX ENDENY EXTRED**

STRIKE OUT ONE

Pleasantville, New Jersey

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

The positions given have been checked after listing by

Harry F. Garber My & KW.

HARTING TOWER Ht. 140 (143) ft. Tower Ht. 140					.						ال	Chief of Party.
Tower Tower Ht. 140 (143) ft. Towe		ew Jersey			_ {	OSITIO	z	i	METHOD			TRAH
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16-51696-1 U. S. GUZPHMENT PRINTING OFFICE

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Form 567 April 1945

F COMMERCE DEPARTMENT

U. S. COAST AND GEODETIC SURVEY

PIGOT COAST

NONFLOATING AIDS ORCHOMOMARKS FOR CHARTS

STRIKE OUT ONE TO BE CHARTED

Baltimore, Maryland

30 October

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. TOO BEODEVENERS

The positions given have been checked after listing by R. Glaser

Chief of Party. Hubert A. Paton

CMARTS AFFECTED 826 OFFSHORE CHART INSHORE CHART Ħ × HARBOR CHART LCCATION 1950 t # ÷ Photo. LOCATION AND SURVEY T-9500-5 METHOD OF # * E = z E N.A. 1927 DATUM 2 Z = Ħ E D. P. METERS 157 8 642 1170 230 S LONGTUDE 24 77 74. 24 74 25 467 74 26 POSITION 74 26 1107 74 27 0 325 445 445 8 D. M. METERS 865 839 707 LATITUDE 39 33 39 33 39 33 39 32 39 32 39 30 39 31 ٥ SIGNAL Swimming over Pt near mouth of Ballanger Creek On cut through Blood Point (Blood Ditch) DESCRIPTION Entrance Oyster Cresk Entrance Nacote Creek Entrance Mott Creek Entrance Bass River Oysterbed Point New Jersey CHARTING NAME STATE N には Lt 5 になって Q ä 瑞 3

"is form shall be prepared in accordance with Hy" 'termined, shall be reported

المراج المساورة والماسات المساد الماسال الماسات

Manual, pages 800 to 804. Positions of charted landmarks and nonfloating The data should be considered for the charts of the area and not by should be given.

" COVERNMENT PRINTING OFFICE: 1949 0 - 853418

Review Report T-9500 Topographic Map 23 December 1952

62. Comparison with Registered Topographic Surveys .-

T-119	1:20,000	181,0-1,1
T-1166	it	1869-70
T-1333 ·	tī	1671
T-5446	1:10,000	1932
T-5447	il	1932
	supp.) "	1932
T-6401b	**	1935
T-6501a	tf	1935-36
T-6402	(f	1935

T-9500 supersedes all the above surveys in common areas.

63. Comparison with Maps of Other Agencies .-

Tuckerton, N.J., U.S.E. 15' quadrangle, 1:62,500, 1932-38, reprinted 1942.

Swamp areas are more extensively developed on T-9500 than on the U.S.Z. quadrangle. Cultural changes which have occurred subsequent to the publication of the U.S.E. quadrangle are shown on T-9500.

- 64. Comparison with Contemporary Hydrographic Surveys .- None
- 65. Comparison with Nautical Charts .-

826, 1:40,000, Intracoastal Waterway, ed. 1949, corr. to 12-5-49. 1216, 1:80,000, ed. 1940, corr. to 4-23-51

1217, 1:80,000, ed. 1948, corr. to 2-13-50

Only very minor differences in shoreline configuration and cultural features exist between the charts and T-9500.

Two transmission towers located justwest of the U.S. Highway No. 9 crossing of the Mullica River are not shown on Chart 826. The submerged cables in this same area are not shown on chart 826.

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

Approved;

Chief, Review Section Div. of Photogrammetry

Chief, Nautical Chart Branch Division of Charts

of Photogrammetry 28 Sant. 1915

History of Hydrographic Information Quadrangle T-9500

Hydrography was applied to the north and south half of this quadrangle in accordance with Division of Photogrammetry general specifications of 18 May 1949.

Depths in feet and the depth curves at 6,12.18 and 30 feet-mean low water datum-originate with the following:

U.S.C.& G.S. Hydrographic Surveys:

H-5893 (1935) 1:10,000 H-5894 (1935) 1:10,000

Hydrography was compiled by K. N. Maki and verified by

O. Svendsen

K. N. Maki

Div. of Photogrammetry

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April 1953