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Diag. Cht. No. 1217

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic Field No.Ph-59 (50) Office No. T-9505
LOCALITY
State New Jersey
General locality Great Bay
Locality Brigantine
194 52
CHIEF OF PARTY
Harry F. Garber, Chief of Field Party H. A. Paton, Baltimore Photo. Office
LIBRARY & ARCHIVES
DATE January 31, 1956

B-1870-1 (1)

DATA RECORD

T - 9505

Project No. (II): Ph-59 (49)

Quadrangle Name (IV):

Field Office (ii): Pleasantville. New Jersey

Chief of Party:

H. F. Garber

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge:

H. A. Paton

Instructions dated (II) (III): 26 May 1950

Copy filed in Division of Photogrammetry (IV)

Office Files

Method of Compilation (III):

Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV) 21 195/Date reported to Nautical Chart Branch (IV):

Applied to Chart No. | 2 | 6

7-53

Date registered (IV):

Publication Scale (IV): 1:24,000

Publication date (IV):

Geographic Datum (III): N. A. 1927

Vertical Datum (III):

Mean sea level except as follows: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III): BRIGANTINE, 1932

Lat.: 39° 25' 43.140" 1330.4m

Long.: 74° 20' 25.632" 613.lm

Adjusted ARRIARIAN A

Plane Coordinates (IV):

State: New Jersey

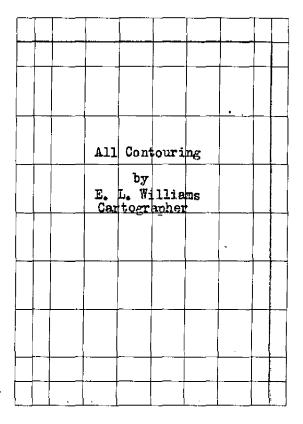
Y=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,

When entering names of personnel on this record give the surname and initials, not initials only.

Form T- Page 1

M-2618-12(4)



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

DATA RECORD

Field Inspection by (II): E. L. Williams, Cartographer, and Date:

R. G. Holland, Topographic Engineer

1 Aug. 1950 to 30 Oct. 1950, and

13 June 1950 to 1 July 1950

Planetable contouring by (II): E. L. Williams

Date:

March , 1952

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

16 April 1950, photographs; 10 June to 30 September 1950 - reference distances recorded on the field photographs for the Atlantic Ocean shoreline

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

8 Jan. 1951 Date:

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

16 Jan. 1951 Date:

Control plotted by (III) R.M. Whitson

17 April 1951 Date:

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

20 April 1951 Date:

Radial Plot og Stereoscopic F. J. Tarcza

Date: 11 May 1951

<u>Gontrateaxtensiono</u>by (III):

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III): R. M. Whitson (N/2)

J. Y. Councill (S/2)

27 July 1951 Date: 13 July 1951

Photogrammetric Office Review by (III): L. A. Senasack

12 Dec. 1951 Date:

L. A. Senasack Elevations on Manuscript

12 Dec. 1951 Date:

checked by (II) (III):

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M-2618-12(4)

Camera (kind or source) (III): USC&GS single lens, type "O" 6" focal length

		PHOTOGRAPHS (III)		
Number	Date	Time 75th m	eridiag _{cale}	Stage of Tide
50-0-338 to 352 50-0-927 to 929 -930 to 931 -932	4-8-50 4-16-50 n	0954 1243 1244 1244	1:10,000 n	0.9(1.7 ocean) 0.6 0.5 0.5 (0.0 ocean)
-939 to 944 -944 to 945 -976	11 11	1257 1257 1314	n 11	- 0.1 (ocean) 0.1 - 0.2 (ocean)

Tide (III)

From Predicted Tide Tables

Reference Station: Sandy Hook, N. J.

Subordinate Station: Tucker Island, Little Egg Inlet

Subordinate Station: Main Marsh Thorofare (continued below)

Washington Office Review by (iV): K. N. Maki

Final Drafting by (IV): FRANCIS JOHNGON

487665

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 11.5

Shoreline (More than 200 meters to opposite shore) (III): 24.5 mi Shoreline (Less than 200 meters to opposite shore) (III): 41.7 mi

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 21 Recovered: 16

Number of BMs searched for (II): 15 Recovered: 13

Number of Recoverable Photo Stations established (III): 1*

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

Remarks: Subordinate stations	Ranges- ¹	Range	Range
Brigantine Channel	0.8	3.5	4.2
Grassy Bay	0.7	3.4	4.1
Seven Islands	0.8	3.5	4.2

* Previous Recoverable Topographic Stations searched for: 9

recovered: 5

identified: 5

Ratio of

Form T-Page 4

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|Ratio of | Mean | Spring |

Range

4.6

3.7

3.3

Range

4.0

Spring

Date: 26 Aug. 1953

Date: 6 JUNE 1955

Ranges

0.8

0.7

Date:

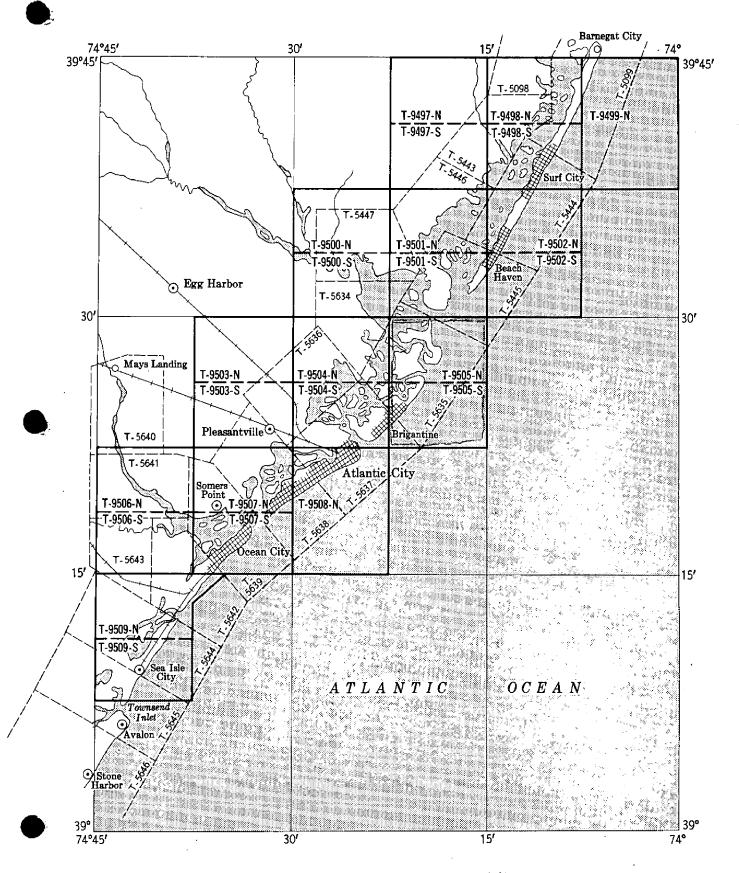
Date:

Identified: 8

Identified: 13

Mean

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-9505

Topographic map T-9505 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 by graphic methods. The field operations preceding compilation included complete field inspection and the determination of numerous elevations for 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 $7\frac{1}{2}$ ' in longitude. entire map was field edited. The map is to be published by the Geological Survey at a scale of 1:24,000 as a standard $7\frac{1}{2}$, topographic quadrangle. The registered copies under T-9505 will include 2 one-half quadrangle cloth-mounted prints at scale 1:10,000 identified as T-9505 N/2 and T-9505 S/2 and one cloth-mounted color print at scale 1:24,000 of the entire quadrangle. Hydrographic information furnished by this Bureau. depth curves and soundings, will be included on the color print.

FIELD INSPECTION REPORT QUADRANGLE T-9505 39-22.5/74-22.5 Project Ph-59(49)

Harry F. Garber, Chief of Party

The field work for this quadrangle was done in accordance with the Director's Instructions, Project Ph-59(49), Field, dated 26 May 1950, and other instructions as noted herein. The field work was accomplished by:

Name and Title	Phase	Date
R. G. Holland Topographic Engineer	Horizontal control recovery, Shoreline inspection	13 June 1950 to 1 July 1950
E. L. Williams Cartographer	Horizontal control recovery, shoreline and field inspection, contours	1 August 1950 to 30 October 1950

2. AREAL FIELD INSPECTION

Brigantine, a seashore resort, is the only town and populated area in the quadrangle. It is rapidly developing as a residential community with a year-round population of about 1500, increasing to 2300 during the summer season. A bridge across Absecon Channel from Atlantic City is the only means of access to the town. Brigantine has no industry and most of the people receive their income in the summer from tourists or by commuting to jobs in Atlantic City. A large resort hotel has reopened, and many new homes are being built. On the north end of the town lies a large, abandoned golf course. An intricate street pattern, complete with concrete sidewalks and fire plugs, was developed there, but has been neglected and is now overgrown with marsh elder bushes and poison ivy. However, some of these streets are still passable, although most are abandoned.

Most of the marsh islands in the quadrangle are now under the jurisdiction of the United States Brigantine National Wildlife Refuge.

A group of buildings around the former Little Beach Coast Guard Station is: used at irregular intervals by sportsmen and vacationists.

The photographs were of good quality and no difficulty was encountered in their interpretation.

The field inspection is complete as of this date, but construction of blocks of homes in Brigantine is planned for this winter. Since this area is not classified as urban, the field editor should delineate those additional homes.

3. HORIZONTAL CONTROL

All known horizontal control stations were searched for and reported on Form 526.

(a) TANK, ELEVATED, NORTH BRIGANTINE, 1950, was established as an intersection station by theodolite cuts from four stations.

This station is also a topographic station named TANK (Elevated), 1936.

- (c) Control established by the New Jersey Geodetic Control Survey was used. No datum adjustments were made.
 - (e) The following stations were reported "Lost" on Form 526:

BEACH (U.S.E.D.), 1946
BRIGANTINE BEACH, WATER TANK (NORTH), 1932
BRIGANTINE COAST GUARD, 1931
Mon. 4827 (N.J.G.C.S.), 1936
" 4828 " "

4. VERTICAL CONTROL

All known vertical control was searched for and reported on Form 685A.

(a) A list of all bench marks of third-order or higher accuracy is as follows:

	Desi	gnation				ishing ncy		<u>Order</u>	
BRIG	ANTI NE	CHANNEL	TBM TBM TBM	2	U.S.C.	& G.S.	Tidal	Bench	Marks
Mon.	4822			•	N.J.G	.C.S.	Ţ	Inknow:	n
18	4823				н			17	
11	4824				11			11	
И	4825							11	
Ħ	4826	=			Ħ			ti	
11	4829				ų,			11	
12	4830			•	t1			Ħ	
11	4831				Ħ			Ħ	
. #	4832	•			tf			11	
11	4833				11			!1	

(b) No supplemental elevations were established because the existing bench marks provided sufficient control for contouring.

5. CONTOURS AND DRAINAGE

The contouring was done directly on single lens 1:10,000 scale photographs at a contour interval of ten (10) feet.

The abandoned golf course in Brigantine has many grass-covered hillocks which were once bunkers. A representative number of these which rise to ten feet were shown. It is believed the resulting contours are and will be almost negligible at the published map scale. However, those shown are for the most part prominent, because they are not overgrown. The few hillocks hidden by the dense undergrowth were not shown.

Contouring of Little Beach was done by getting an elevation of the water at BRIGANTINE CHANNEL TIDAL BENCH MARK NO. 1, 1935, and using that to begin plane-table contouring at the former Coast Guard Station at Little Beach.

6. WOODLAND COVER

There are a few scattered trees in the quadrangle Other than those, all the area classified as woods (T) is very dense brush consisting for the most part of marsh elder bushes.

7. SHORELINE AND ALONGSHORE FEATURES Sceiler 52

- (b) The low-water line was determined only when the field inspector was inspecting shoreline at time of low-water.
- (c) The foreshore along the ocean is sand with many wooden and rock groins along Brigantine Beach.
- (d) For a short distance along the south end of Little Beach, there is a sandy bluff resulting from erosion of the dunes on shore.
- (f) The submarine cable shown on Chart 826, crossing Brigantine Inlet west of the Coast Guard Station, is incorrectly charted. The cable was identified on the photograph east of the Coast Guard Station. Confirmation of this location was obtained from the U. S. Coast Guard telephone section supervisor at 35 S. Annapolis Avenue in Atlantic City, N. J.

8. OFFSHORE FEATURES

Ruins of a boardwalk shown off Brigantine Beach on Chart 826 should be deleted. There is no evidence of this above water. Mr. Earnest, City Clerk of Brigantine, states that this boardwalk was removed just before the 1944 hurricane. The contractor pulled out all piling except for several which were too rotted.

LANDMARKS AND AIDS

(d) Fixed aids to navigation are discussed in the Field Inspection Report for Quadrangle T-9504. Attached to descriptive report for 7-4504.

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. Div. of Photogrammetry general files.

11. OTHER CONTROL

Recoverable topographic stations are:

- (1) E. DOLE CATHOLIC CHURCH, 1935
- (2) INLET C & N. 1935

(3) PINK, C & N, 1935

- (4) POINT C & N. 1935 Tank (Elevated) 1936
- (5) UVA, 1936

12. OTHER INTERIOR FEATURES

A Coast Guard telephone pole line and an Atlantic City electric power pole line traverse the islands from the north end of the town of Brigantine to Little Egg Inlet. The telephone pole line, although strung with wire, is not used. Instead, a subterranean cable paralleling the pole line is used at present. The Atlantic City Electric power line which is west of, and parallels the Coast Guard line, is abandoned. Since field inspection of this area, the Atlantic City Electric Company reports that a contractor is removing all their poles in the area mentioned.

13. GEOGRAPHIC NAMES

This will be the subject of a special report to be submitted by Mr. M. W. Smith, Cartographic Survey Aid.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

A special report on Landmarks and Fixed Aids to Navigation will be submitted by the Chief of Party at a later date.

> 25 October 1950 Submitted by:

E.L. Williams E. L. Williams Cartographer

26 October 1950 Approved:

Chief of Party

MAP T9505		PROJEC	CT NO.	PROJECT NO. Ph-59(50)	SCALE OF MAP 1:	1:10,000	SC/	SCALE FACTOR	R
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 192 DIST FROM GRED OR IN M FORWARD	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)
TANK, ELEVATED	Computed	N.A.	39 24		•		1709.4	(140.9)	
NORTH BRIGANTINE,		1927	74 21	21.82			522.0	(613.3)	•
BRIGANTINE, 1932	147	;	39 25	43.140			1330.4	(520.0)	
	19	=	74 20	25.632			613.1	(822.0)	
HOTEL, 1931	G-1249		39 23				1789.0	(61.3)	
	13	=	74 22				452.3	(983.3)	
T Equility (CAN)	G-3126			999.10			33.0	(1817.4)	
1935	342	=	74 20	33.217	-		793.9	(0.049)	
LETTUCE USE, 1946	U.S.E.	— I.	237,026.21	5.21			617.6	(7,906)	
,	Descrip.		2,091,808.43	18.43			551.2	(972.8)	
LITTLE BEACH,	447	=	39 28	3 14.608			450.5	(1399.9)	
1932	19		74 19	9 41.935			1002.4	(431.8)	
SIMKIN, 1935	6-3126		39 27	7 45.899			1415.5	(434.9)	
	247		74 21	1 16.850			402.8	(1031.5)	
MON 4822	Descrip of		207,	207,217.74			676.0	(878.0)	
NJGCS 1936	Mon	-	2,082,920.53	920.53			890.2	(633.8)	
MON 4823			208	119.81			951.0	(573.0)	
NJGCS 1936	=	·.	2,084,193.17	193.17			1278.1	(245.9)	Pag
MON 4824		- <u> L</u>	209	209,790,86			1460.3	(63.7)	e l
NJCCS 1936	=		2,086,078.92	078.92			328.9	(1195.1)	1
MON 4825		<u></u> -	210,	210,993.84			303.0	(1221.0)	
NJGCS 1936	=		2,087,	2,087,327.70			709.5	(814.5)	
MON 4826	1		21.1	211,239.49			377.8	(1146.2)	
NJGCS 1936	=		2,083,	2,083,996,29	- 1		1218.1	(305.9)	
COMPUTED BY. J.C. Richter	tichter	ď	DATE 13 Dec.	ec. 1950	CHECKED RY. M.F. Kirk	irk		January	ry 1951 M.2388-12
					CITABLE ELIMINATION			DAIE	ann i rem meng hitti filmbi erdinam i eret i 1980 itil erdinam i

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	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 NETERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK).
MON 4829	Descript		212,004.51			611.0 (913.0)	
NJGCS 1936	of Mon		2,086,735.77			529.1 (994.9)	
MON 4830	=======================================	·	213.098.68			944.5 (579.5)	
36		ĺ	2,085,739.55				
MON. 4831			214.266.36			i	
NJGCS 1936	=		2,083,424.53]	
~4	=		212,492,84			759.8 (764.2)	
NUGCS 1936		i	2,083,631.69				
SUB PT MON 4831						ĺ	
NJGCS 1936			Plotted graphically	11y			
SUB PT. SIMKIN,			39° 27'			1461.4 (389.0)	
Ly 25			74° 21'			429.7 (1004.6)	
SUB PT.		!	39° 29¹			53.2 (1797.2)	
CCAT (MROA) TANNETTET			74. 201			ļ	
SUB PT MON 4824				11y .			
SIIB PT.			120 000				
BRIGANTINE, 1932						1343.5 (506.9)	
			07 0 <i>j</i>			15.6177 0.550	
FW 1			39.28			432.9 (1417.5)	
LITTLE BEACH, 1932			74 19			1017.9 (416.3)	
							-12

PHOTOGRAMMETRIC PLOT REPORT

PROJECT PH-59(50)

SURVEYS T-9501 and T-9505

21. AREA COVERED

This radial plot covers the areas of topographic surveys Nos. T-9501 and T-9505, on the Atlantic Coast of New Jersey, located in the area between, and including, Brigantine City and Tuckerton, New Jersey.

22. METHOD - RADIAL PLOT

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

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

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

Photographs - All photographs used in this radial plot are single lens, Type O photographs, ratioed to a scale of 1:10,000. The contact scale is 1:24,000. Forty-seven (47) photographs were used. They are numbered as follows:

50-0-920 to 50-0-932, inclusive 50-0-939 to 50-0-952, inclusive 50-0-969 to 50-0-976, inclusive 50-0-980 to 50-0-985, inclusive 50-0-1035 to 50-0-1040, inclusive

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

Closure and adjustment to control - Base sheets were prepared using vinylite sheets with 5000 foot grids. Control points were transferred to these by matching the New Jersey grids on the map manuscripts. Survey T-9497 to the north has already been compiled in the Washington Office. A paper print was available and positions of identifiable common pass points were transferred to the base sheets. There is considerable distortion in the paper print making the transfer inaccurate but the points transferred served as a guide in this radial plot so that a satisfactory junction may be made. The radial plot for Survey T-9502 on the east side has been completed previously in this office. The position of photograph centers and pass points along the junction with these surveys were used in this radial plot. The templets for these were laid first and previous positions held. Then the next flight to the west was laid and the plot continued westward by flights. There was no difficulty in laying these flights except at SUB. PT. STORY, 1935 which was held later after an error was found. The flight along the western side of this plot was across

water areas and several centers fall in these areas. It was necessary to do considerable adjusting. The north and south ends were laid first. Photographs Nos. 925, 926 and 927 were in water areas and, due to lack of control and flight lines, they were adjusted holding pass points from the adjoining flight. GREAT, 1935, was not identified in the field. An attempt was made to identify it in the office but there was insufficient information in the description to prick the station.

23. ADEQUACY OF CONTROL

Except at station GREAT, 1935, control was adequate for a satisfactory radial plot. Normally the plot could be laid easily without this station. However, the location on a point of land and the position of photograph centers in water makes this a desirable control point for the radial plot.

Two stations could not be held in the prehiminary radial plot. SUB. PT. STORY, 1935 was about 2 mm northeast of the radially plotted position. It appeared to be an error in azimuth but a recheck of computations revealed no error. An error of 4° was found in the field notes on the back of the pricking card. The wrong angle was recorded on the front of the card. When the correct angle was used in the computation and station replotted, it could be held in the radial plot.

SUB. PT. SHACK (C&N) 1935 falls about 1 mm north of the geographic position. No reason was found for this discrepancy. This station falls in the survey to the west and a radially-plotted position will be established and reported in a future radial plot for that survey.

24. SUPPLEMENTARY DATA

Several positions of topographic stations were established in 1935 and 1936 but their positions were not plotted because it is believed that they are not reliably accurate. They were established in this radial plot. One of these, M.E. CHURCH (WEST CREEK), 1935, was used to control this radial plot on the north side. It falls in Survey T-9497 which has been completed. This station was used because its position was verified or reestablished in compiling that survey.

25. PHOTOGRAPHY

The photographic coverage is adequate and definition of photographs is good. There are some slightly tilted photographs but the effect of tilt is negligible in these areas of very little relief.

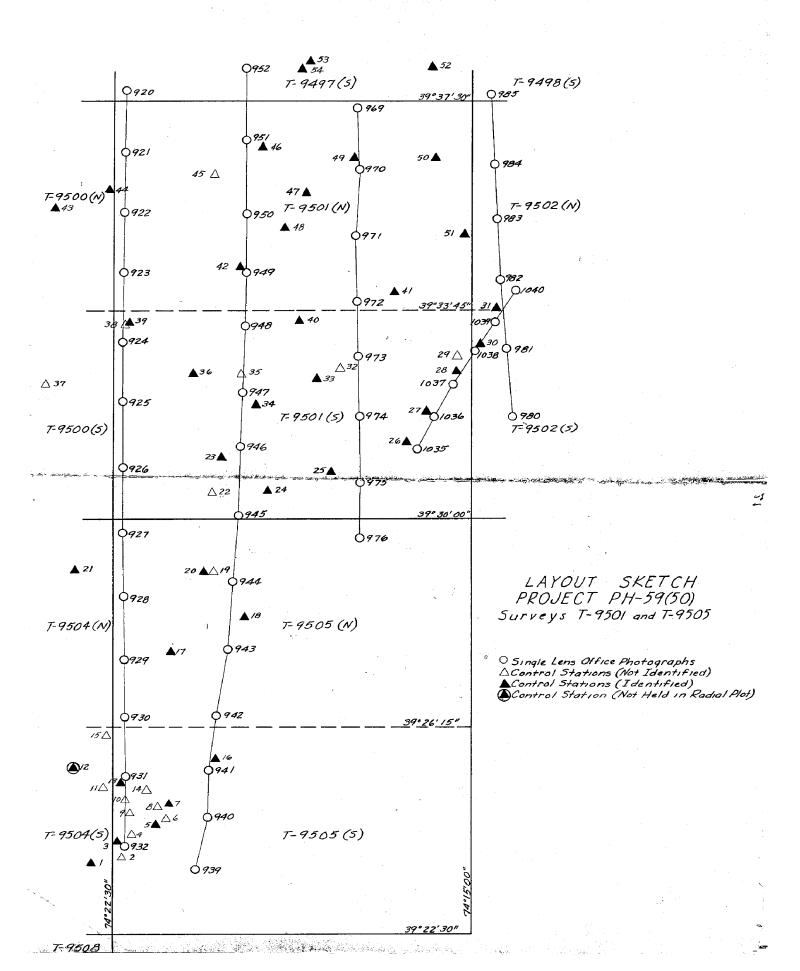
Respectfully submitted

Frank J. Tarcza

Photogrammetric Engineer

No.	Control Station	Identification
1. 2. 3. 4. 5.	MON. 4821 (NJGCS) 1936 HOTEL, 1931 MON. 4822 (NJGCS) 1936 MON. 4823 (NJGCS) 1936 MON. 4824 (NJGCS) 1936	Direct None Direct None Sub. Pt.
6. 7. 8, 9. 10.	MON. 4825 (NJCCS) 1936 TANK, ELEVATED, NORTH BRIGANTINE, 1950 MON. 4829 (NJCCS) 1936 MON. 4826 (NJCCS) 1936 MON. 4833 (NJCCS) 1936	None Direct None None None
11. 12. 13. 14. 15.	MON. 4832 (NJGCS) 1936 SHACK (C&N) 1935 MON. 4831 (NJGCS) 1936 MON. 4830 (NJGCS) 1936 DIRTY (C&N) 1935	None Sub.Pt. Sub.Pt. None None
16. 17. 18. 19/ 20.	BRIGANTINE, 1932 SIMKIN, 1935 LITTLE BEACH, 1932 LETTUCE (USED) 1946 LETTUCE (C&N) 1935	Sub. Pt. Sub.Pt. R.M. 1 None Sub. Pt.
21. 22. 23. 24. 25.	MAIN, 1935 CONTROL PT. "H", 1950 FISH FACTORY WATER TANK, 1950 SHOOTING, 1935 INLET, 1935	Sub.Pt. None Direct Sub. Pt. Sub. Pt.
26. 27. 28. 29. 29.	CONTROL PT. "G", 1950 BONDS, 1932 MON. 8208 (NJGCS), 1937 ST. JAMES, 1932 ST. JAMES R.M. 2, 1937 MON. 8207 (NJGCS) 1937	Direct Sub. Pt. Sub. Pt. None None Sub. Pt.
31. 32. 33. 34. 35.	BEACH HAVEN WATER TANK, 1932 POLE, 1935 STORY ISLAND STACK, 1935 SHEEPHEAD, 1935 WIN, 1946	Direct None Direct Sub. Pt. None
36. 37. 38. 39. 40.	BAY, 1935 GREAT, 1935 TUCKERTON RADIO, 1932 TUCKERTON RADIO TOWER-780'-MAIN TOWER OF RCA, 1931 STORY, 1935	Sub. Pt. None None Direct Sub. Pt.
1: 42: 43: 44: 45:	BARREL, 1935 JESSIE, 1935 MON. 7873 (NJGCS), 1940 MON. 2261 (NJGCS) 1935 MON. 2259 (NJGCS) 1935	Sub. Pt. Sub. Pt. Sub. Pt. Sub. Pt. None

No.	Control Station	<u> Identification</u>
46.	MON.5249 (NJGCS) 1932	Sub. Pt.
47.	ROSE, 1946	Sub. Pt.
48.	EDGE, 1946	Sub. Pt.
49.	PARKER, 1935	Sub. Pt.
50.	WEST, 1935	Sub. Pt.
1.	SHELTER, 1935	Sub. Pt.
52.	DINNER (USE), 1946	Sub. Pt.
53.	MON. 2257 (NJGCS) 1935	Sub. Pt.
54•	M.E. CHURCH (WEST CREEK), 1935	Direct



COMPILATION REPORT

Ph-59(50)

T-9505

31. DELINEATION

Manuscript No. T-9505 was delineated by graphic methods.

32. CONTROL

The identification, density, and placement of horizontal control was adequate.

33. SUPPLEMENTAL DATA

Geographic name standard, dated January 27, 1951, on Corps of Engineers, Atlantic City, N.J. quadrangle, was furnished by the Washington Office.

The following were furnished by the field party:

Map of Atlantic County, N.J. prepared for the Board of Chosen Freeholders of Atlantic County, N.J., revised 1949.

Road Map of Atlantic County, New Jersey.

Photostat Map of Brigatine National Wild Life Refuge.

Special Report on Boundaries, New Jersey.

USC&GS Chart No. 826 (Landmarks and Aids Report, Exhibit 4)

Map of City of Brigantine, N.J.

34. CONTOURS AND DRAINAGE

No comment.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection is considered adequate. The MHW line along the ocean was furnished by reference distances to identifiable detail. A small amount of apparent shoreline and low water line was indicated by the field party. The remainder was identified by analogy and office interpretation of the photographs.

36. OFFSHORE DETAILS

The method of establishing the elevations on the shell banks in the NW corner of this survey is described in item 8 of the field report for Survey T-9504.

37. LANDMARKS AND AIDS

Forms 567 for three (3) landmarks and three (3) non-floating aids to navigation, which appear on the manuscript are submitted with this report.

38. CONTROL FOR FUTURE SURVEYS

Forms 524 were completed for one recoverable topographic station established and five previous stations recovered, and are being submitted herewith. These stations are listed under item 49. POINT C&N, 1935 is erroneously listed in item 11 of the field report instead of TANK BRIGANTINE (Elevated), 1936.

39. JUNCTIONS

Junctions with surveys T-9504 to the west and T-9501 to the north have been made and are in agreement. There is no contemporary survey to the east and south.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41-45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

Survey T-9505 has been compared with:

- 1. Corps of Engineers, Atlantic City, N.J. quadrangle, scale 1:62,500, published 1941.
- 2. USC&GS Topographic Maps T-5635 (1935) and T-5637(1936) scale 1:10,000.

47. COMPARISON WITH NAUTICAL CHARTS

Survey T-9505 has been compared with USC&GS Chart No. 826, scale 1:40,000, published in June 1949, corrected to 4 September 1950.

Items to be applied to nautical charts:

Items to be carried forward None.

Respectfully submitted 14 December 1951

Joseph W. Vonasek Cartographer (Photo)

Approved and forwarded

Hubert A. Paton Comdr., C&GS

Officer in Charge

48. GEOGRAPHIC NAMES T-9505

Anchoring Island Comit, Per Field Edit: also not on latest
Atlantic County
Atlantic Ocean

* Baremore Quarters
Betsey Channel
Brigantine
Brigantine Avenue
Brigantine Beach
Brigantine Channel
Brigantine Inlet
Brigantine National Wild Life Refuge

Cabbage Thorofare

Dog Island

Egg Island Elder Island

14th Street Pier

Galloway Township Great Bay Great Thorofare

Hoffman Thorofare

Intracoastal Waterway

Alternate Route

Miles Thorofare Mile Thorofare per Heck 7-13-53

Little Bay
Little Beach
Little Crooked Thorofare
Little Egg Inlet
Little Mud Thorofare

Little Egg Harbor Township

Little Weakfish Thorofare

Mud Thorofare
Obes Thorofare
Ocean County

Pullen Island

Salt Island Simkins Thorofare Somers Bay Steelman Bay

Weakfish Thorofare
Widgeon Bay
*Name taken from Map of City of Brigantine, N.J. and
Survey T-5635 (1935).

Names approved 8-24-53. L. Heck

49. NOTES FOR THE HYDROGRAPHER

Six recoverable topographic stations are shown on the manuscript:

E. DOME, CATHOLIC CHURCH, (1935) 1950

PINK, C & N, (1935), 1950

TANK (Elev.) 1936 This is triangulation-1950

INLET, C & N(1935)1950

UVA, (1936), 1950

HOTEL AZ MK (1931) 1932, 1950

Information from the field man indicates difficulty in navigation through Brigantine Inlet. It may be advisable to check for Breakers or tide rips.—No comment by field edit on this.

When the 1950 photogrammetrically determined position does not differ from the previously determined position the 1950 date reverts to a recovery date and is not shown on the manuscript. The original date of station establishment is retained on the map, Forms 524 cross referenced and filed in Khon 8/25/53 D.v. Photogrammetry general files.

FIELD EDIT REPORT Quadrangle T-9505 Project Ph-59(50)

Paul Taylor, Chief of Party

The field edit of this quadrangle was accomplished during the month of March, 1952.

51. METHODS

The quadrangle was inspected by traversing all passable roads by trucks; by skiff in water areas, and on foot in other areas which required special investigation. Standard surveying methods were used for corrections and additions.

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

One 1:20,000 scale sheet is submitted with the field edit information.

52. ADEQUACY OF COMPILATION

The map compilation is adequate, with the exception of a few corrections and additions.

Attention is invited to the large number of buildings which have been added by the field editor. This is practically all new construction that has taken place since field inspection. The building boom is still continuing at a rapid rate.

The 14TH STREET PIER has been partially destroyed by a storm. The portion that remains of the pier and several wooden piling are indicated on photograph 50-0-940.

A segment of the boundary of the Brigantine National Wild Life Refuge was questioned on the discrepancy print. Upon questioning Mr. Whitley, the supervisor in charge of this refuge, and checking his map of the area, the boundary as shown on the discrepancy print was found to be correct.

The piles, which were shown in Great Bay and questioned on the discrepancy print, do not exist. A very thorough investigation was made of the area and none could be found. It is believed that the field inspector sighted objects on shore and not in the water. Attention is also called to Pile "B", "C" and "D" which are shown on the southern portion of Quadrangle T-9501. These piles no longer exist and should be deleted. - Done.

The areas of shoreline labeled "A" and "B" on the discrepancy print were investigated by plane table and an approximate mean high-water line has been shown in purple on the photographs. The shoreline at these points is constantly changing as can be seen in comparing the 1950 and 1952 work. It is therefore recommended that all shoreline at these points be shown as indefinite.

53. MAP ACCURACY

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

No vertical accuracy test was required for this quadrangle.

54. RECOMMENDATIONS

None.

EXAMINATION OF PROOF COPY

Captain Raymond Huber, of the New Jersey Department of Commerce and Navigation, who has been a resident of this area for forty years and is highly familiar with both the land and water areas, states that he would be willing to examine a proof copy of this quadrangle for possible errors. Captain Huber's address is: State Boat Transit 3, Forked River, New Jersey.

GEOGRAPHIC NAMES

The placement of the name ANCHORING ISLAND was found to be approximately correct. This island can no longer be seen at mean low water. The name is not recommended. Not shown,

> 25 March 1952 Submitted by:

28 March 1952 Approved by:

Joseph K. Wilson, Cartographer

Paul Taylor Lt. Comdr. / ÚSC&GS Chief of Party

PHOTOGRAMMETRIC OFFICE REVIEW

T.9505

1. Projection and grids
CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations)
9. Plotting of sextent fixes10. 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 navigation17. Landmarks18. Other alongshore physical features19. Other along-
shore cultural features
PHYSICAL FEATURES
PHYSICAL FEATURES 20. Water features 21. Natural ground cover 22. Planetable contours 23. Stereoscopio
instrument contours 24. Contours in general 25. Spot elevations 26. Other physical
teatures
CINITURAL FFATURES
CULTURAL FEATURES 27. Roads 28. Buildings 29. Reilroads 30. Other cultural features
27. Nobus 25. Dandings 25. Rainbads 50. Other Cultural reactions
DOUNDADIES
BOUNDARIES 31. Boundary lines 32. Public land lines
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
overlay 37. Descriptive Report 38. Field inspection photographs 39. Forms 39.
40. 4.7. Seviava Supervisor, Review Section or Unit
, motional account of the control of
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 πoted under item 43.
- Compiler Supervisor
43. Remarks: M-2623-12

Review Report T-9505 Topographic Map 26 August 1953

62. Comparison with Registered Topographic Surveys .-

H-109	1:10,000	1840	
T-119	1:20,000	1840-41	
T-142	1:20,000	1841	
T-1166	11	1869-70	
T-1333	11	1871	
T-2455	#1	1899	
H-2693	1:10,000	1904	
N-2694	11 "	u	
T-5635	It	1932	
T-5637	supp. "	1932	
т-6401а	: 11	1935 Plar	netable
T-6401a	Ad Wk."	1936	11
T-6501a	. tt	1935-36	11
T-6501b		Tt -	**
T-6502b		17	77

The shoreline along the ocean front on T-9505 in comparison with the previous surveys shows an alternating pattern of accretion and recession. On the south half of T-9505 this change in position of shoreline amounts to about 85 meters. On the northhalf the differences are large and conspicuous amounting to shoreline movements along the ocean front in a westerly and northerly direction of approximately a half mile or more. A sandspit of considerable size has formed between latitude 39°28' and 39°29' at longitude 74°19'. This sand formation is very unstable and is shown by a dashed line on T-9505N. The shoreline of the inside channels on T-9505 has remained stable and shows no large or significant differences in comparison with the previous surveys. The boardwalk at Brigantine is no longer in existence.

T-9505 supersedes all the above surveys in common areas for nautical charting purposes.

63. Comparison with Maps of Other Agencies.-Atlantic City, N.J., USE 15' quadrangle, 1:62,500, 1941. Also at scale 1:50,000 with revision of marginal data, 1946, and UTM grid added 1948, AMS.

A comparison of the quadrangle with T-9505 shows that the shoreline of the ocean side area from Brigantine Inlet north-ward to Island Beach has changed considerable subsequent to the publication of the quadrangle.

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

826, 1:40,000, Intracoastal Waterway, ed. 1951 corr. to 6/9/52

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

Shoreline differences between the charts and T-9505 are very prominent along the oceantide from Bregantine Inlet northward to Little Beach. Erosion has moved the shoreline considerably west of the shoreline position as shown on the charts. The sand spit south and east of Little Beach has also become more extended in a north and westerly direction. The shoreline of interior waters is in good agreement with the shoreline as shown on the charts.

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.

Reviewed by:

APPROVED:

Div. of Photogrammetry

Photogrammetry

Chief, Nautical

Div. of Charts 6FJ

Chief, Div. of Coastal Surveys

History of Hydrographic Information for T-9505

Hydrography applied to the map manuscript for T-9505 is in accordance with the general specifications of May 18, 1949.

Soundings in feet and depth curves at 6, 12, 18, 30 and 60 feet (Mean Low Water Datum) originate with the following chart and surveys:

Nautical Cha	rt No. 1	217	1:80,000	1950
Hydrographic	Survey	H-5893	1:10,000	1935
Ħ	ti-	н-6144	1:10,000	1936
tt	Ħ	н-6145	1:10,000	1936
Ħ	Ĥ	н-6195	1:10,000	1937
11	11	H-6271	1:40,000	1937

Photographs taken April 16, 1950 were used in conjunction with the above listed hydrographic sources for the interpretation of the mean low water line and the determination of channels subject to constant and rapid change.

Hydrography was compiled by L. Martin Gazik and checked by O. Svendsen.

L. Martin Gazik

10-21-53

A.C.
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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

NONEL OATENG ABSKOR LANDMARKS FOR CHARTS

Baltimore, Md.

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EPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY DEPARTMENT

NONFLOATING AIDS QROLANDMARKS FOR CHARTS

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

NAUTICAL CHARTS BRANCH

SURVEY NO. 7-9505

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
7-53	1216	Henderson	Battome After Verification and Review applied
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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.