# 9829 N\$5



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 (51) Office No. T-9829 N&S.

LOCALITY

State New Jersey

General locality Ocean County

Locality Forked River

194 51

CHIEF OF PARTY
H.F.Garber, Chief of Field Party
H.A.Paton, Baltimore Photo. Office

LIBRARY & ARCHIVES

DATE December 17, 1959

8-1870-1 (1)

### DATA RECORD

### T - 9829 N & S (two manuscripts)

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

Quadrangle Name (IV):

Field Office (II): Edenton, North Carolina

Chief of Party: Harry F. Garber

Photogrammetric Office (III): Stereoscopic Mappingonacotionage:

Louis J.Reed

Washington, D.C.

Instructions dated (1) (III):

18 April 1951

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III):

Single lens:

Control extended by Stereophanigraph

Detail compiled by Kelsh Plotters

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): manuscript = 10,000 :: Photos = 20,000; C=1/1,000

Date received in Washington Office (IV); 11 1952 Date reported to Nautical Chart Branch (IV): 19 June 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

Plane Coordinates (IV):

State:

Zone:

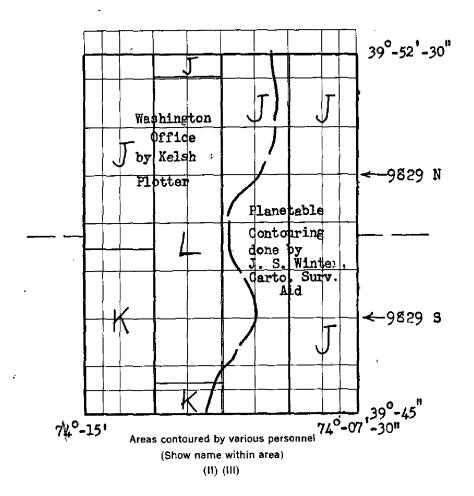
v....

X≔

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

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

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



Contours originally established as indicated in RED Control extended over entire area by The Stereoplanigraph

Cultural features compiled by instrument and operator as indicated in BLUE. Contours were compiled at the same time, either originally or copied from field photos.

J = Detailed by Ivan R.Jarrett on the Kelsh Plotter, model \*\*

L = Detailed by Frank J.Lesslie on the Kelsh Plotter, model \*\*A\*

K = Detailed by Morton Keller on the Stereoplanigraph.

### DATA RECORD

Field Inspection by (II): John S. Winter,

Cartographic Survey Aid

July, 1951 Date:

Planetable contouring by (II): John S. Winter,

Cartographic Survey Aid

June and Date:

July, 1951

Completion Surveys by (II):

Date:

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

Shoreline on this compilation is dated 1951 since the field inspector located it on photographs that summer, and this field bocation was used as a guide during instrument delineation

and later during manuscript compilation.

Projection and Grids ruled by (IV): The odore t Janson on t Theodore L. Janson on the reading Ruling Machine

Date: 15 Aug 51

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

Date: 16 Aug 51

Control plotted by (III):

Stanley W. Trow

Date: 18 Sep 51

Control checked by (III):

Morton Keller

Date: 19 Sep 51

KATIAKONOK JAKStereoscopic Stanley W. Trow & Morton Keller 9 Oct 51

Control extension by (III):

**Planimetry** 

Contours

Date:

Date:

Stereoscopic Instrument compilation (III):

See Data page

10 Feb 52

Manuscript delineated by (III):

Robert L. Sugden (N half complete) ate: 10 April 52

Henri Lucas (Started S half)

Robert L. Sugden (Completed S half)

Photogrammetric Office Review by (III):

Louis J. Reed

Elevations on Manuscript

checked by (111):

Louis J. Reed

Date: 10 June 52

Form T-Page 3

M-2618-12(4)

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

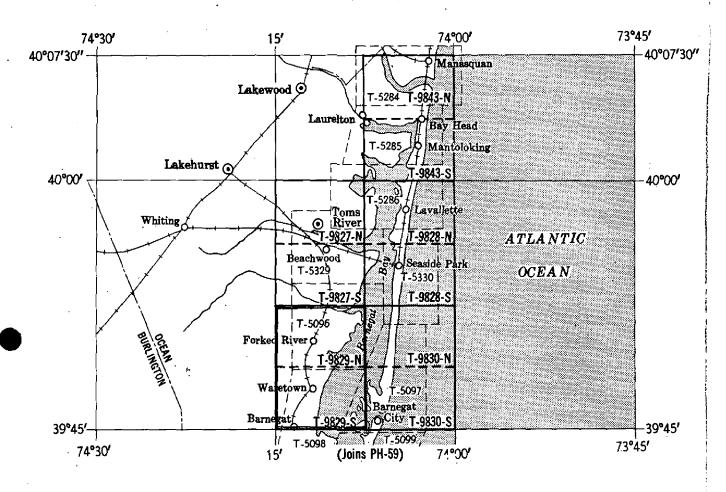
Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
1744 thru 1750		0950		about lft below MHW on
1808 thru 1810	23 Mar 51	1040	20,000	outside of bank and sb out
1849 thru 1859	2) • • • • • • • • • • • • • • • • • • •	1110	20,000	MHW on the inside
1865 thwu 1874 Reference Station: Subordinate Station: Subordinate Station:	Sandy <sup>H</sup> ool	11 <b>115</b> -(III) k		io of Mean Spring Range 4.2
Washington Office Rev	view by (IV):		<u></u>	Date:
Final Drafting by (IV):				Date:
Drafting verified for re	production by (IV):			Date:
Proof Edit by (IV):				Date:
Control Leveling - Mile Number of Triangulati Number of BMs searc	200 meters to opposite 200 meters to opposite s (II): 32.5 on Stations searched hed for (II): 48 e Photo Stations estate	e shore) (III): near for (II): 42 R R blished (III): No ne	decovered: 39 decovered: 35 w ones; 17 19	Identified: 15 Identified: 35 34-5 stas. recv'ā

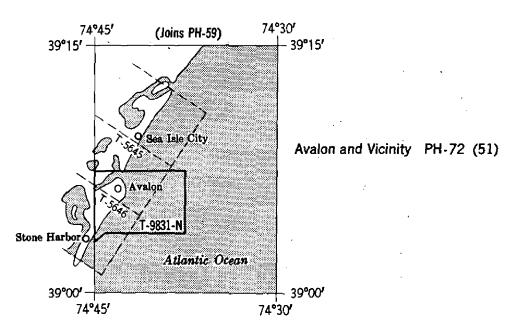
Remarks:

### 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-9829 PROJECT PH-72(51)

### Harry F. Garber, Chief of Party

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

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

### 2. AREAL FIELD INSPECTION

This quadrangle comprises a heavily-wooded section which is very sparsely settled, except in the immediate vicinity adjacent to U. S. Highway No. 9. There are four small unincorporated villages along U. S. Highway No. 9, namely: Barnegat, Forked River, Lancka Harbor, and Waretown, the largest of which is Barnegat. These communities cater to the summer trade. There is little cultivation or commercial enterprise within the area.

The Central Railroad of New Jersey is the only railroad within the quadrangle. The railroad stations along this railroad, with the exception of the freight station at Barnegat, are no longer used. They are intact and are owned by the railroad, with the exception of the station at Waretown, which has been sold to private interests. The Tuckerton Railroad has been abandoned and the tracks have been removed.

Throughout the wooded sections there are numerous secondary roads which are seldom used except by hunters, loggers, and as access roads to the cranberry bogs.

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

The field inspection is believed to be complete.

### 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:

Stat	tion		Agency		Order	Datum
Non.	2240	New Jersey	Geodetic Contr	rol Survey	Third	N.A. 1927
· W "	2241		H		n	It
. <b>√</b> u	2242	Cost	11		n	n
<b>1</b> /11	2243		II		11	Ħ
n leg	2244		II		Ħ	n
<b>\$</b> 11	2245 🗸		n		Ħ	11
S "	2247		n		Ħ	11
<b>5</b> n	2248 2249 2250		. H			n
			n		ti	ti
off"	2289 on	9827 1/2	n		tl	n
/ No	2290 🗸		rt .		ti -	Ħ
₩n			19		ti	tt
HH.	2636 We	at 49829	n		ti	H
E- Abn	2637	,	11		n	n
. <b>\$</b> 11	8602		n		n	11
<b>5</b> "	8603		n		n	ti
obf"	8653 07	1 98275/	11		u	. 11
off"	8654 - 1	, ,,	IT		11	Ħ
Ņπ	8655		n		n	, n
p/ n	8656		u		<b>\$1</b>	11

Sta	tion		Agenc	Z		<u>Order</u>	Dat	um
Mon.	8657	New Jersey	Geodetic	Control	Survey	Third	N.A.	1927
M II	8658		11			ti	**	
<b>√</b> n	8660		ţţ			ti	11	
N H	8661		Ħ			tt	Ħ	
<b>/</b> n	8662		11			n	п	
N/ m	8663	ı	n			π	#	
<b>/</b> u	8664	,	n			tt	ti	
N "	8665		n			rı	11	
N/ n	8666		Ħ			<b>II</b>	11	,
√ n	8667		11			II	***	
Nº II	8668		ţi			19	tt	

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

Mon. 2242 (N.J.G.C.S.), 1935 Shell, 1935 Ware, 1935

### 4. VERTICAL CONTROL

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

Name 9927%= ?  H RV 2246 - New Jersey	Agency	<u>Order</u>
HB RV 2246 Mew Jersey	Geodetic Control Survey	Third
« N" 2247 — 11	n	tt
€ N 11 2248 -30	11	n
N # 2249-18	н	n
N" 2251 -9	<b>t</b> ;	ŧŧ
N= 2252-11/H	n	11
\$ " 2253 _15	11	11

Name	Agency	Order
9 RV 2254 -13 N	ew Jersey Geodetic Control Survey	Third
5 " 2255 -2/	n	II .
9 11 2256 -27	H .	
5 11 2257 - 36	n	H.
-UN 11 2290 -63	H.	н
N Lacey - 8/	n .	н
NR.M. 2, Lacey -66	11	ti ti
WRV 5238 -59	u u	H
N " 5247 -18H	II.	11
N MK. 52427 nat	shown - too crowded - by UJGCS MONE 2247 and	oth close
N " 5243 Jy to 1	UJGCS MONA 2241 and	0636, 9
Mon. 2249 - 34	H . "	11
5 " 8669 No la	ords to plat it	ıı
€ " 8670 m	H.	11
s " 8671 h	n	11
s " 8673 //	H .	tt
3 " 8674 "	11	ıı
5 " 8675 "	n _	ıı
S 11 8679	n .	11
₩ Q-6 -19 1	U. S. Coast and Geodetic Survey	First
₩ R-6 -14		11
~S-6 -19	"	н
S T-6 -8	II .	11
S V-6 -15	ı	п
S W-6-32	II .	н
S x-6-43	II .	н
S ¥-6-42	II .	"
STBM 2F-4f4		

- (b) 32.5 Miles of supplemental levels were run with a Wye level to establish elevations at photographic points for use by the stereoscopic instruments and to control the planetable contouring. Elevations for the stereoscopic instrument control were established and identified at points with a level plane of at least 25 feet in diameter. The largest error of closure was 0.79 foot. Adjustments were prorated according to the number of setups.
  - (c) The first and last fly-level points are 29-1 and 29-72.
- (d) After the field party had run the supplemental elevations for the stereoscopic contouring, additional control points were requested in that area. The field party ran these additional levels with a planetable and the elevations have been shown on the photographs in black. All lines started and closed on existing bench marks or on points of the supplemental level lines. The closure in no case was greater than one foot.

### 5. CONTOURS AND DRAINAGE

The contouring of this quadrangle was done by both stereoscopic instruments and by planetable methods. The line of division is U.S. Highway No. 9 (as indicated on page 2) (See 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 (10) feet.

The natural drainage is by numerous small creeks leading into Barnegat Bay.

The highest elevation is west of the highway, in the area contoured by the stereoscopic instruments.

### 6. WOODLAND COVER

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

The woodland area in the quadrangle is predominantly scrub oak, with gum and cedar growing in the swampy sections. Small areas of pine are found throughout the quadrangle and are usually found in the lower well-drained portions. Much of the area has been burnt over in past years, and, although little more than brush now, will become trees in a few years.

The light grey tones designate the scrub oak; dark black patches the cedar; and the dark grey tones along the eastern portion of the quadrangle are predominantly gum, which is interspersed with pine along the western edges.

### 7. SHORELINE AND ALONGSHORE FEATURES

- (a) Little difficulty was encountered in the delineation of the high-water line. The shoreline is all apparent, except along man-made built-up areas, which have been duly inspected and classified.
  - (b) No attempt was made to locate the low-water line.
- (c) The foreshore was classified as necessary on the photographs.
  - (d) Inapplicable.
- (e) All docks, wharves and piers not clearly discernible on the photographs have been delineated thereon.
  - (f) There are no submarine cables within the quadrangle.

### 8. OFFSHORE FEATURES

Two wrecks were located by photogrammetric methods just north and east of Clam Island.

### 9. LANDMARKS AND AIDS

- (a) One landmark is recommended on Form 567 for charting. Form 567, Form 24-A, and a chart section will be submitted at a later date for that portion of the project from Barnegat Inlet to Manasquan Inlet.
  - (b) No interior landmarks are recommended.
  - (c) There are no aeronautical aids within the quadrangle.
- (d) There are nine fixed aids to navigation. The aids were located by the dolite directions from triangulation stations and from photogrammetric points.

All aids within this quadrangle are single pile structures.

### 10. BOUNDARIES, MONUMENTS AND LINES

A Special Report on Boundaries was submitted in August, 1951, by Martin C. Moody, Cartographic Survey Aid.

One boundary marker, on the Ocean-Union Township line, was recovered and identified on the photograph.

### 11. OTHER CONTROL

ONE There were no new topographic stations established. Thirtynine previously established topographic stations were searched for and are reported on Form 524. FOURTEEN REPORTED "LOST"

Forbid Fran F.P., 1934

### 12. OTHER INTERIOR FEATURES

All roads and buildings have been classified in accordance with Paragraphs 5441 and 5446 of the Topographic Manual, Part 11, dated 1949.

The only bridges, over nagivable waters, are fixed bridges along U. S. Highway No. 9. They will only accomodate small skiffs.

### 13. GEOGRAPHIC NAMES on File 85

This is the subject of a special report which will be submitted at a later date by Martin C. Moody, Cartographic Survey Aid.

### 14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

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

5 July 1951 Submitted by:

John S. Winter

Cartographic Survey Aid

27 August 1951 Approved by:

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

### 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 a control extension using the Stereoplanigraph, model No.61639. No particular difficulty was encountered during this operation. Basic control and photos used are shown on the next page, Photo and Control Sketch.

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

Submitted by:

Stanley W. Trow,

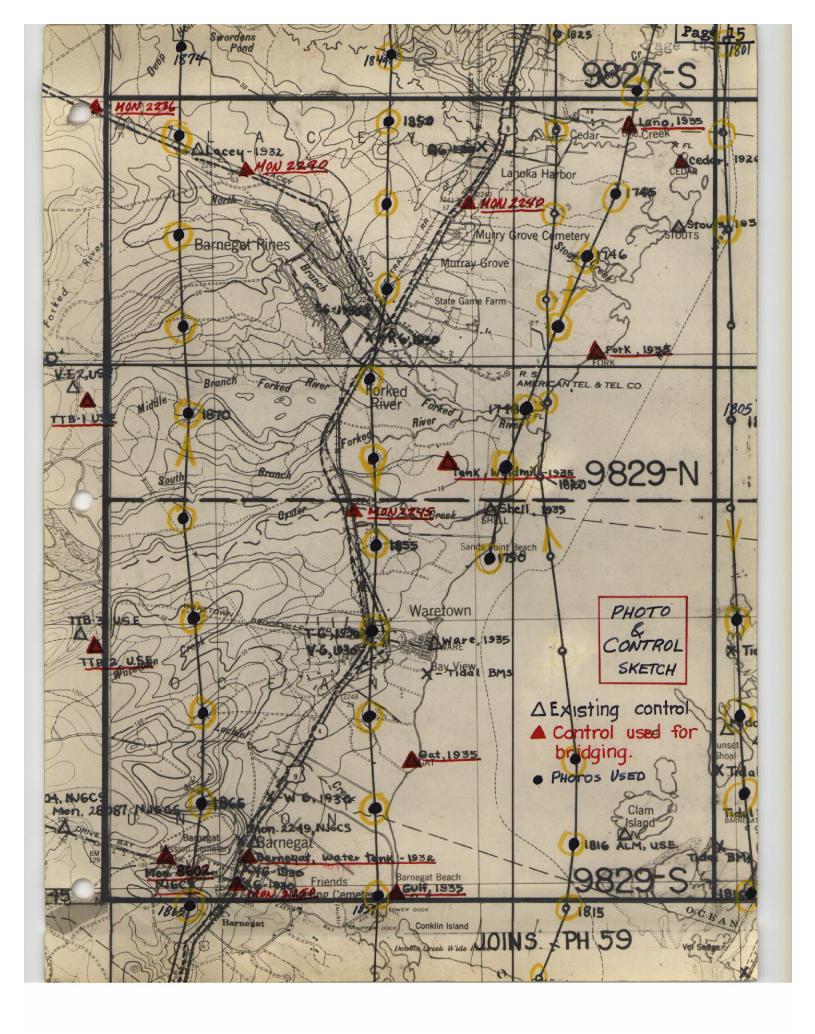
Cartographer Photogrammetric

Approved by:

Louis J. Reed Chief

Stereoscopic Mapping Section

Photogrammetric Engineer



Photogrammetr

MAP T- 9829-N	z	PROJECT NO.	CT NO. Ph-72(51)	SCALE OF MAP 10,	10,000	SCALE FACTOR	2
STATION	NJ GP source of DEGRATIND	• 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 PROMECTER PROJECTION LINE IN METERS	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
LANO, 1935 dm	332	NA 1927	39 52 16.181 74 08 33.567			499.1 1351.4 797.8 628.1	
CEDAR, 1926	924	==	39 51 55.557 74 07 56.406			1713.5 137.0 1304.6 85.4	
FORK, 1935	332	=	39 50 06.943 74 08 59.505			214.1 1636.4 14.9 11.7	
TANK, WINDMILL 1935 a	L,339	<b>#</b> . '	39 49 18.970 74 10 54.861			585.1 1265.4 1304.7 122.3	
MON 2290 NJGCS	8	E	2,124,862.96				Transfer and American
MON 2240 NJGds	w	=	373,948.70 2,137,684.81				
MON 2636 NJGds	Ø	=	379,186.00 2,116,258.41				
Bl (USE)		=	39 49 45.527 74 15 19.871			1404.1 446.4 472.5 954.3	
Station loc	located ju	Just off	the west limits of	the quad			
NOTE;	Above control stati horizontal control.	control ntal con	ons used to For other	control the Stereoplanigraph existing stations in the quad	anigraph the quad,	oh bridging of	
	1						Page
							16
1 FT.=.3048006 METER COMPUTED BY:		Ψď	DATE	CHECKED BY.		DATE	M - 2386-12
1							

MAP T- 9829-N	N-1	PROJE	PROJECT NO. Ph-72(51)	SCALE OF MAP 1	10,000	SCALE FACTOR	JR.
STATION	NJ GP source or DRGBEATNO.	DATUM	LATITUDE OR #-COORDINATE LONGITUDE OR *-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)
STOUTS, 1935 dm	5 339	NA 1927	39 51 18.173 74 07 59.495			560.5 1290.0 1414.3 12.0	
LACEY, 1932	16	=	39 52 02.095 74 13 55.737			64.6 1785.9 1324.7 101.3	
mon 224 <b>01</b> NJGCS	·	=	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	373,062.50 2,136,695.91			
MON 2242 NJGGS		E	366,966.27 2,133,376.74				
MON 2243 NJGGS		=	368,512.16 2,132,553.11				
MON 2244 NJGCS		11	365,684.48 2,132,693.78			The constant of the constant o	
MON 2291 NJGGS		\$2.	376,381,44 2,123,343.53				
MON 2637 NJGGS		=	378,532.17 2,118,005.16			-	
MON 8655 NJGCS	,	=	379,026.62 2,140,071.88				
MON 8656 '		#	377,192.13 2;139,683.89				
MON 8657 NJG08		=	376,320.30 2,139,212.58				Page
MON 8658 NJG08		=	375,155.24 2,138,431.73				17
I FT.=.3048006 METER COMPUTED BY:		Ψα	DATE	CHECKED BY.		DATE	M - 2368 - 12

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 CORRECTION	FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
MON 8660 NJGCS	20 H	NA 1927	371,204.58 2,135,808.24				
MON 8661 NJGCS	SOE	F	369,744.71 2,134,982.16				
MON 8662 NJGCS	POS POS	=	367,920.75				
MON 8663 NJGCS	SOF.	2	57.062,151,5				
MON 8664	664 Njggs	=	#1.486,987,2				
MON 8665 NJG0S	5 40s	=	361,750.20				
MON 8666 NJGCS	5 30s		360,509.35 2,130,269.48				
MON 8667	667 NJG08	Ħ	359,061,20 2,130,249,49				
MON 8668 NJG	668 NJGCS	=	357,620.94 2,130,612.95				
	А		NOTE: The field m	man reported three anot recovered; they	stations	% in 9829~N as	Pa
			TISHS	1935 e. ware, 1935	££	K MON 2242 NJGCB, \$935	

Photogrammetry

RM No.1       See       NA       39 46 18.449         1935       "       39 45 03.320         1935       "       39 45 03.320         AAAAKA       29       "       39 45 03.320         PAAAAKA       29       "       39 45 03.320         PAAAAAKA       29       "       39 45 20.405         PAAAAAA       "       356,367.37         PAAAAAA       "       335,356.36         PAAAAAA       "       335,356.36         PAAAAAA       "       335,356.36         PAAAAAA       "       336,563.64         PAAAAAAA       "       336,563.64         PAAAAAAA       "       336,563.64         PAAAAAAA       "       336,563.64         PAAAAAAA       "       336,563.64         PAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	DISTANCE FROM GRID IN FEET.  OR PROJECTION LINE IN METERS  FROM GRID ON  IN 192  OR PROJECTION LINE IN METERS  FORWARD  FORWARD	N.A. 1927 - DATUM  DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD  (BACK)  FORWARD  (BACK)
1935 " 39 45 03.320  GATARA  245 " 39 45 20.405  74 13 19.191  24 15 19.191  24 15 19.191  24 15 19.191  25 45 20.405  74 15 19.191  27 25.357  27 25.357  27 25.357  27 25.357  28 47 28.434  29 47 28.434  20 40 40 40 40 40 40 40 40 40 40 40 40 40	569.0	.0 1281.5 .9 1103.1
MANUEGATIVE MON 2245  MON 2245  MON 2250  MON 2250  MON 8602  MON	102.	102.4 1748.1 642.0 786.4
245 NJGGS " 2,131,103.37 250 NJGGS " 235,356.36 NJGGS " 336,563.64 S.124,589.99 S.126,195.13 S.124,589.99 S.126,195.13 S.124,195.13 S.22 dm S.234,124 S.234,137 S.234,137 S.234,137 S.2344,137 S.344,1437 S.344,1447 S.344,1	629.3 456.8	.3 1221.2 .8 971.5
250 NJGGS		
602 NJGGS		
2 (USE) "		
GAT LIGHT 11 " 39 45 45.212  32 dm 74 06 31.474  1951 Field " 2,154,871.37  = Located Just off this quad to the west  Located Just off this quad to the south  NOTE: The above control stations in this	876.9	.9 973.6
1951 Field " 2,154, 493.00 Comps Comps (2,154,871.37) = Located just off this quad to the west coated just off this quad to the south NOTE: The above control stations in this	1,49.2 4,49.2	456 679
= Located just off this quad to the west = Located just off this quad to the south NOTE: The above control stations in this		
The above control stations in this	ast.	
of horizontal control in . For other existing stat	d were used to control unction with bordering in this quad, see page	the Stereopagnigmph H quada bridged at the m 20, this report.

Photogrammetry

N.A. 1927 - DATUM

DISTANCE
FROM GRID OR PROJECTION LINE
IN METERS
IN METERS M-2388-12 (BACK) RECOVE BD " FORWARD SCALE FACTOR HON: the (BACK) Seven other NJGCS Monuments exist in this quad but are not shown on manuscript for lack of coordinates by which to plot them. They are monuments 2289, 8669, 8670, 8671, 8673, 8674, and 8679 r O DATE "LOST" FORWARD <del>ह्य</del> DATUM T-9829-8 SCALE OF MAP 10,000 OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET, i L CHECKED BY: The field man reported two other stations SHELL, 1935 and WARE, 1935. FORWARD LONGITUDE OR \*- COORDINATE LATITUDE OR V-COORDINATE PROJECT NO. Ph-72(51) 2,131,329.86 336,893.48 2,118,917.26 2,125,060.18 2,130,364.09 DATE. DATUM NA 1927 = = SOURCE OF INFORMATION (INDEX) 9829-s NOTE No.P: NOTE No.1: MON 2249 NJGGS 8603 NJGCS NJGCS NJGGS 1 FT.=.3048006 METER MAP T. 2248 STATION MON 2247 COMPUTED BY:.... MON MOM

ragd

ļ

### COMPILATION REPORT



### 31. 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 compilation of the two manuscripts making up the quad of this report. No areas of incomplete photo coverage or unsatisfactory field inspection were discovered. The total land area of the quad has been mapped by this operation.

### 32. Control:

Horizontal control was adequate for the control of this survey without the establishment of new stations. A majority of existing control was recovered and identified. For details, see sub-headings 3 and 4 of the Field Inspection Report, beginning on page 5, this report.

Vertical control for contouring purposes was selected and marked on the field photos before being sent to the field, where elevations were established on these points by the field party during \*\*xxxxx\*\* field inspection. In general, these elevations were found to be in good agreement during instrument use of them. For details, refer to sub-heading 4 of the field report beginning on page 9.

All permanent control in the quad has been shown on the manuscripts in proper name and symbol; horizontal stations have been plotted and checked by beam compass, and vertical stations have been compiled from field inspection photos as identified thereon in the field.

### 33. Supplemental Data:

- a. Official Names Sheet compiled by Mr Heck.
- b. Special Boundaries Report; A brochure dated July 1951.
- c. Instrument photos and 9x9 diapositives; See page 15.
- d. Field Inspection Photos; 51 0 1744-50, 1808-09, 1821-24, 1850-59, 1865-71, and 1873.

### 34. Contours and Drainage:

The photographic quality of the instrument photos was satisfactory, but the overlap was excessive, being about 75% as an average. Sidelap was acceptable. The excessive overlap became a definate disadvantage to the instrument operator when contouring, especially since this project was being worked at or a little beyond the maximum C-factor

for efficient operation of the Kelsh Plotters. A C-factor of 1000 was being used (Altitude/contour interval =/3000/50 = 1000). Two areas of questionable contours have been left for field completion or verification on the S/2 quad manuscript as marked by a large red note on the reverse side of the sheet; this was caused partially by the unsuitable C-factor and overlap conditions, and partially because of woodland cover in the two areas in question. In the future it is recommended that strict attention be given to flight instructions to assure desirable sidelap as well as overlap of photographs, and that instrument contouring projects be planned on a C-factor basis of 800.

### 35. Shoreline and Alongshore Details:

The shoreline, as indicated on the field inspection photos, has been used as a guide during instrument delineation of the shoreline, and used again during manuscript compilation. The inspection appeared to be adequate. No low-water line has been delineated, field or office, Shoal areas have been outlined in the SE corner of the quad as partially indicated by the field inspection and extended during instrument delineation. For other details, refer to side-heading 7 of the Field Inspection Report, page 12.

### 36. Offshore Details:

Two wrecks located by field inspection are shown on the manuscript (S/2) in correct symbol. See page 12.

### 37. Landmarks and Aids:

For details, refer to side-heading 9, page 12 of this report. The one landmark recommended for charting is the tall steek watertank in Barnegat and it has been shown on the manuscript (S/2) as a triangulation station with the proper name to indicate that it is also a landmark.

Of the nine fixed aids located by the field party, only eight fell within the limits of this quad; Lt 32 is just over the limits in T-9830. All aids were plotted on the manuscripts by using a precise protractor and the theodolite angles turned in the field from triangulation stations. The eight are shown by proper symbol and number according to the light list; they are:

N/2 = LT 2 (Forked River), LT 5 (Forked River), and LT 1 (Cedar Creek), and LT 4 (Forker River).

S/2 = LT 1, LT 34, LT 2, LT 2 (Waretown), and LT 1 (Oyster Creek)

### 38. Control for Future Surveys:

Seventeen recovered topo stations have been shown on the two manuscripts of this quad. Some were field identified and have been transferred to the manuscripts from the photos, a few were located by means of topo points established in the field, and others have been plotted using coordinates recorded on the original Form 524s when no other means of locating them was at hand. All the topo stations should be revisited during field edit for assurance that they are correctly located. No hydro stations were established.

### 39. Junctions:

T-9830 to the east of this quad, and T-9827 to the north, agree at the respective junctions since all three quads have been compiled in the same operation. T-9498 to the south was compiled last year as a part of roject Ph-59 and the common junction with this quad is not completely in agreement; the contours do not agree in an area just south of the village of Barnegat and it is requested that the trouble be made right during field edit. No contemporary/exists to the west.

### 40. Horizontal and Vertical Accuracy:

The two manuscripts of this survey are considered to meet standards of map accuracy in both respects. The horizontal scale is 1:10,000 and the contour interval is 10ft.

### 46. Comparison with Existing Maps:

TOMS RIVER, NEW JERSEY, Ocean County, AMS V722, Sheet 6163 I, 1:50,000, original map of 1941, revised 1946 and 1948.

### 47. Comparison with Nautical Charts:

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

- 48. Geographic Name List: See numbered pages, following.
- 49. Notes for the Hydrographer: Not applicable.
- 50. Compilation Office Review: See T-2 form, following.

Submitted by:

Stanley W. Trow

Cartographer-Photogrammetric

Approved by:

Louis J. Reed, Clief

Stereoscopic Wapping Section Photogrammetric Engineer

GEOGRAPHIC NAMES  Survey No.  T-9829 N/2  Name on Survey.	Moda City	Rough Washing	KIIO LIST
T-9829 N/2 OF NO	/	20rd v	\s <sup>'</sup> '' /
Name on Survey A B C D E	F / C	3 / H	/ K /
BARNEGAT BAY			1
BARNEGAT PINES			2
BERKELEY TOWNSHIP			3
CEDAR BEACH			4
CEDAR CREEK			5
CEDAR CREEK POINT			6
CENTRAL RAILROAD OF NEW JERSEY			7
DEERHEAD LAKE			8
FORKED RIVER both stream a	und	LOWA	9
FORKED RIVER AIRPORT			10
GOODLUCK CEMETERY (2 words as on	<b>M</b> a 1	ecrip	<b>b)</b> 11
LACEY ROAD			12
LACEY TOWNSHIP			13
LAKE BARNEGAT			14
LANOKA HARBOR			15
LOWER LAKE			16
MIDDLE BRANCH FORKED RIVER			17
NORTH BRANCH FORKED RIVER	-		18
SOUTH BRANCH FORKED RIVER	-		19
SOUTH BRANCH STOUTS CREEK		-	20
NEW JERSEY STATE GAME FARM			21
STATE OF NEW JERSEY PUBLIC YACHT BASIN			22
STOUTS CREEK			23
U S NAVEYRANGE STATION			24
Name	6 af		25
		Hec	26

GEOGRAPHIC NAMES Survey No.			Sui	's graf	*/.,		, / _s	Mag McKall	J.S. Jight	35° /
·	/	Chor.	reirou!	2 400°	St. Oct. St. Oct.	Seal Mis	Guide	d WELLE	/ jight	/ /
T-9829 S/2	/ .	≠o. \ q	Design Strategic Control of	2 Not State of State	into	Or local Mod	o cuide o	2300	5.	
Name on Survey	/ A	/ B	<u>/ c</u>	D	<u> </u>	/ F	G	<del>/ H</del>	/ K	$\leftarrow$
BARNEGAT			·			 	<del> </del>		<u> </u>	11
BARNEGAT BAY				<del> </del>		ļ	ļ	ļ	<u> </u>	2
BARNEGAT BEACH	_ <del>_</del> _	ļ						1.	<u> </u>	3
BARNEGAT BAY SHORE	EACH			<u></u>			<u> </u>		ļ <u>.</u>	4
BARNEGAT MASONIC CEM	ETER:	¥								5
BAY AVENUE							Ca	hab		6
CENTRAL RAILROAD OF	NEW .	jerse	Υ <u></u>	Cedn	1. Z	120	Was	ehan	m/	7
CLAM ISLAND		3/2							1	8
DOUBLE CREEK										9
FRESH CREEK										10
FRIENDS MEETING CEME	TERY	· <del>-</del>				·				11
HIGH BAR	. 4						-			12
LACEY TOWNSHIP										13
LOCHIEL CREEK							-	ρ		14
OCEAN TOWNSHIP				00	a va	C 0.	int			15
OYSTER CREEK	_							/		
OYSTER CREEK CHANNEL	<del></del>			<u> </u>						16
							<del> </del>			17
SANDS POINT HARBOR				<u> </u>	<u>-</u>					18
WARETOWN			<del></del>							19
WARETOWN BROOKVILLE	ROAD									20
WAREGOWN CREEK										21
0.8.4 (04		1.2.	l l	s in			453	0 4	7-1	22
	<b>.</b> .		7				-	- vi eq	17	23
				N.	LMA	3 0 4	10 Vi	7		24
				, 10	2	-271	-27		_	25
							1- Y	tech	<u> </u>	26

Form 567 April 1945

## COMMERCE U. S. COAST AND GEODETIC SURVEY Į, DEPARTMENT

# NONFLOATING AIDS ORXEGINIONEARIES FOR CHARTS

ď	
O BE CHARTED	KOXIBEXDENE
I—	г

RIKE OUT ONE

Toms River, New Jersey

ጣ

November

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

CHARTS AFFECTED Chief of Party. 825 = Ξ = = = = = OFFSHORE CHART INSHORE CHART × HARBOR CHART LOCATION 1951 DATE = ŧ. = Ŧ. = = = = ĕ LOCATION AND SURVEY No. Theo. cuts = Louis ŧ Ξ Þ = = = = N.A. DATUM £ = = **=** = = = = 56.5 091361.8 091271.0 543.8 211.8 D. P. METERS 386.7 893.3 52.878 101258.3 704.7 LONGITUDE 0 10 [ 9 60 08 POSITION 0 7 7, 74 7 77 49 1068.2 74 49 1060.4 74 758.7 74 7 45 1370.6 48 1165.8 188.9 1183.5 1206.1 D. M. METERS 15 103.0 39-10 LATITUDE 15 147 67 5 22 0 39 33 39 39 98**29-8**-139 39 39 9829-N 39 39 S. B. J. B. et The positions given have been checked after listing by Ω Ω Ŋ Ş Z N ល Z 1 N.J. Inland Waterway N.J. Inland Waterway DESCRIPTION / Barnegat Pier Oyster Creek Forked River Forked River River Creek Jersey Maretown Forked Cedar New CHARTING NAME Lt.34 Ø S \_ N Н Lt.2 STATE Lt. Lt. Lt. Lt. Lt. Lt. Lt

ملد فالمدرق لا مدروومد علا The second of th This form shall be memoraled to concretence with Tarinoppachic Varior mones 2000 on 304.

Form 567 April 1945

# F COMMERCE **DEPARTMENT**

U. S. COAST AND

# NOWFEOAKING MOSCOR LANDMARKS FOR CHARTS

દ્ય		<del></del>	l
o O	<u>8</u>		-
7 November 19 52	ue as landmarks		Chief of Danie.
.1	r val	•	
	thei		
Washington, D. C.	have not) been inspected from seaward to determine their value as landmarks be	m M. Mar	
	not)	4	
-	have	ÿ.	)
	nave (	iting 1	
	hich 1	ter lis	
•	cts w icated	ed af	
	obje ts ind	check	
T ONE	lowing char	been	
STRIKE OUT ONE	the follow, the	have	•
	that t	given	
ТО ВЕ СНАКТЕВ КОХВЕХВЕКЕВЕВ	I recommend that the following objects which have charted on (deleted from) the charts indicated.	The positions given have been checked after listing	
HAF	ecomu	e posi	
	I r	Ţ	
0 P	্ত		

Chief of Party.

	THE CHARLES								ĺ		_	
				\(\frac{1}{2}\)	LATITUDE	LON	LONGITUDE		LOCATION	96	08 CI	CHARTS
CHARTING	DESCRIPTION .		SIGNAL	-	D.M.METERS	0	D. P. METERS	DATUM	SURVEY No.	LOCATION	HSMI	
4	BARNEGAT WATER TANK, 1932, (Steel ht. 125 (156)	Steel)		39. 115	629.3	71. 13	1,56.8	NA 1927	0820 S			
							}	  -	\ \ \ \			
									•			
			•				•					,
·		-				-						
										1		
· ·							,					

## PHOTOGRAMMETRIC OFFICE REVIEW T. 9829 N + 5

1. Projection and grids2. Title3. Manuscript numbers4. Manuscript size4.
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 stations8. Bench marks
9. Plotting of sextant fixes 10. Photogrammetric plot report 11. Detail points
~ checked
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline 13. Low-water line 14. Rocks, shoals, etc. 21 15. Bridges 16. Aids
12. Shoreline13. Low-water line14. Rocks, shoals, etc15. Bridges16. Aids to navigation17. Landmarks18. Other alongshore physical features19. 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. Roads28. Buildings29. Rallroads30. 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. James Miles
Supervisor, Review Section or Unit Louis J. Beed, Chief
41. Remarks (see attached sheet) 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

### FIELD EDIT REPORT Project Ph-72(51) Quadrangle T-9829

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 from a skiff.

Corrections and additions were made by standard surveying methods in conjunction with visual inspection. All corrections and additions are referenced on the Discrepancy Print and the F. E. sheets. Work appears on F. E. sheets labeled "A", "B", "C", S/2; "A", "B", "C" N/2 and field photographs 51-0-1822, 1851, 1852, 1853, 1855, 1856, 1857, and 1858.

A legend appears on F. E. sheet "A" S/2, which is self-explanatory.

The actual field work was accomplished during May 1953.

52. Adequacy of Compilation. The map compilation is adequate and will be complete after field edit is applied, except for the following.

A new highway, (The Garden State Parkway) is presently under construction within the limits of this quadrangle. This runs generally North and South in the western portion of this sheet. At present, the southbound lane is cleared and rough graded, but the northbound lane is not yet cleared. Plans were obtained from the various engineers of this project, showing New Jersey state grid coordinates of each P. C. and various critical points. It is believed that sufficient information is contained in these plans to plot this entire parkway.

A planetable traverse was run on a short section of the southbound land - see F.E. Sheet "A" S/2. This was run to check the vertical accuracy of the contours as well as locating the cleared Right of Way.

53. Map Accuracy.-The horizontal accuracy of the map detail is relatively good. Three horizontal control stations, N.J. Monu.'s 8658, 8660, and 8663, have been marked on the Discrepancy print to be checked. These stations appear to be plotted in the exact center of U.S. Hwy 9, where as their location is on the sides of the road.

Ref. Par. 34, Descriptive Report.

Two areas, totaling approximately  $1\frac{1}{2}$  square miles were recontoured on F.E. sheet S/2. These areas were omitted during the instrument plotting of contours. Some corrections were made to contours leading into these areas. Numerous areas were checked in the field where 'top' contours appear. In general, these 'tops' were found to be exaggerated somewhat.

Two separate vertical accuracy tests were run on the F.E. sheets, in areas where contouring was accomplished by stereoscopic instruments. Accuracy test No. 1 in the south half and test No. 2 in the north half. A total of 1.4 lineal miles was traversed by planetable methods with a total of 37 points tested. These tests started and ended on vertical fly level points established by the 1951 field party. Horizontal and vertical closures were negligible, and no adjustments were made.

The tests proved that of the 37 points tested, 100 percent were within  $\frac{1}{2}$  contour interval or better. Only 16% of the points tested were between 3 and 5 feet in error. The remaining 84% were in error by less than 3 feet.

The planetable traverse run along the cleared area of the Garchen State Parkway can be considered an additional vertical accuracy test, although it is not evaluated in this report. Horizontal and vertical checks were consistently maintained in the  $3\frac{1}{2}$  mile traverse. Only minor changes were made on the contours. See F.E. Sheet "A" S/2.

The vertical accuracy of contours, accomplished by stereoscopic instruments on this sheet, appears to be excellent.

A planetable traverse was run along a 3/4 mile length of the southern quad limits, see F.E. Sheet "B" S/2. The junction in this area with T-9498, Ph-59 N/2, was unsatisfactory. An overlay has been prepared and submitted to the Washington Office via Mr. S. V Griffith during his visit to this party.

54. Recommendations.-It is noted in areas where planetable contouring was done, swamp limits conflict with contours, sometimes passing back and forth along the sides of slopes. This condition does not generally exist in this type of country.

It is recommended that swamp limits be classified while doing the actual contouring in the field and delineated on the same photograph as the contour appears.

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.

The following geographic names were investigated in the field.

St. Luke Church
St. Lukes Church is recommended.
New names recommended for mapping;

North Harbor South Harbor Waretown Harbor Liberty Harbor

These harbors are prominent and active features in this area. They are well known locally as well as throughout the Barnegat Bay area.

Persons contacted during the investigation were:

Capt. William Specht, Barnegat, New Jersey
Cept. Richard Clineman, Waretown, New Jersey
Mr. Alva B. Jones, Clerk, Dover Township, Waretown, N.J.
Mr. H. Evans, Harbor Master, Forked River, N.J.

56. Other control.-Nine topographic stations, established in 1935, were identified on the field photographs as requested.

57. Boundary lines. The boundaries between the townships of Ocean, Union, and Long Beach were investigated and are shown on F.E. sheet "C" S/2. For a discussion of this boundary, see F.E. Report for quadrangle T-9830, this project. The limits of the Forked River airport, as delineated on the map manuscript, were verified in the field. However, this field is privately owned by a Mr. Calvin Agar of Trenton, New Jersey. It is recommended that the boundary limits of this tract be deleted from the map and only the runway shown.

The boundary along Barnegat Bay of the New Jersey State-Game Farm was investigated. No mention in any legal description is given as to whether this line follows M.L.W. or M.H.W. The farm superintendent is of the opinion that M.L.W. is correct for mapping. The tide in this area is about 1.0 ft.

58. Other Interior Features.-Ref. Par. 52, this report: See parkway layout plans by Sherman, Taylor and Sleeper, Assoc. Eng'rs. and Brown, Blouvelt and McFarland, Consulting Eng'rs, submitted with this report.

State route 4, appearing on this sheet, has been deleted as the result of a recent change in the numbering system of all New Jersey State highways. This road is also U.S.A.

59. <u>Junctions</u>.-Satisfactory junctions have been made with T-9498, Ph-59, on the south, T-9830 on the east, and T-9827 on the north. No junction has been effected on the west.

Submitted 15 June 1953

Richard L. McGlinchey Cartographic Survey Aid

### Summary to Accompany Descriptive Report

### T-9829

Topographic Map T-9829 is one of 6 similar maps in project Ph-72. This project covers the New Jersey coast from latitude 39° 45' near Barnegat Inlet, northerly to latitude 40° 07' 30' near Manasquan Inlet, and also a small area in the vicinity of 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. The compilation was at a scale of 1:10,000. The manuscript is in 2 sheets, each 3.75' in latitude and 7.5' in longitude. This map was field edited and is to be published by the Geological Survey at a scale of 1:24,000 as a standard 7.5 minute topographic quadrangle. The registered copies under T-9829 will include 2 one-half quadrangle clothmounted prints at scale 1:10,000 designated as T-9829N and T-9829S, 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-9829 Topographic Map 20 October 1954

### 62. Comparison with Registered Topographic Surveys:

T-117	1:10,000	1839
118	er i	Ħ
119	1:20,000	1840
1371	tt T	1874
5097	1:10,000	1932-1933
5098	tt	1932
6397a	n	1935
6397ъ	tt	n
6398a	· n	n

Comparison with the more recent of above surveys indicates no significant differences that cannot be accounted for by cultural development and/or erosion of shoreline. T-9829 supersedes all above surveys in common areas as source material for preparation of, or revision of charts.

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

See 46, Page 23 of this report.

### 64. Comparison with Prior Hydrographic Surveys:

None made-latest hydrographic surveys dated 1935 and 1936.

### 65. Comparison with Nautical Charts:

825 1:40,000 Manasquan Inlet to Little Egg Harbor

No significant differences except in inshore planimetry. All fixed aids to Navigation were located by this survey. The measured course markers did not exist at the date of this survey. They have since been located by other means.

### 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 is in compliance with National Map Accuracy Standards.

Reviewed by:

John M. Neal

APPROVED:

Chief, Review Section Photogrammetry Division

Chief, Photogrammetry Division 24 Nr. 59

Chief, Nautical Chart Branch Charts Division

Ph-72 Application of Hydrography

	Manuscript		Sources		Date Applied	Date Verified
	T-9843 N	Chart 795			Sept. 154	Dec. 154
		* 824				
		H-6190	1:40,000	1936		
	T-9843 S	Chart 825			# .# .	
		H-5615	1:10,000	1934		
<b>.</b>		6136	1:20,000	1936	•	
		6188	1:40,000	1936	,	
` ~~. i	· .	6190	1:40,000	1936		
	T-9828 #	Court 825			Sept. 154	Dec 151
	- , -,	H-6136	1:20,000	1936	pahet Ne	Dec. 154
		61 <b>8</b> 8	1:40,000	1936		
		6	,	,,-		
	<b>1-9828 S</b>	Chart 825				
		H-6188	1:40,000	1936		
	T-9830 E	Chart 825			Hov. 154	Dec. 154
		<b>B-</b> 6136	1:20,000	1936		
	•	6188	1:40,000	1936		
	7-9830 S	Chart 1216			R #	
	2-7070 0	Chart 825				
		H-6136	1:20,000	1936		,
		6141	1:10,000	1935		
		6188	1:40,000	1936		
		6271	1:40,000	1937		
	1-9827 K	Chart 825			Dec. *54	Dec. *54
	1-9827 5	Chart 825				
<b>\</b>	7-9829	Chart 825			Sept. 154	Dec. *54
(	7-9829 \$	Chart 825			<b>好 惟</b>	
	7-9831 ¥	Chart 827			Dec. 154	Dec. 154
		Chart 1217				
		H-6227	1:20,000	1937		
	• .	н-6264	1:40,000	1937		
	7-9831 S	Chart 1217			2 I	Jan. 155
		8-4821	1:20,000	1928		
		H-6227	1:20,000	1937	-	
		B-6264	1:40,000	1937		•
		· <del>-</del>	· •			
~ =	,					

Hydrography for entire project was compiled by John M. Neal and verified by 0. Svendeen. All soundings are in feet at mean low water. The 6, 12, 18, 30 and 60-feet depth curves are shown.

,		Date
o Sanda	John M. Neal	
•		
	. "	
		Dete
	A Smarker	

### NAUTICAL CHARTS BRANCH

### Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			· · · · · · · · · · · · · · · · · · ·

M-2168-1

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.