ORIGINAL° ..

Form 504 Rev. Dec. 1933

DEPARTMENT OF COMMERCE

U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

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Hydrographic | Sheet No. T=5147

StateNew Jersey... LOCALITY Hast Goast of New Jursey

Mullica River.

Great Bay,

1936

CHIEF OF PARTY

Roswell C. Bolstad - - Jr. H.

U. S. GOVERNMENT PRINTING OFFICE: 1984

Applied to drawing of Chart 12-16-ang 27, 1937- gowalky afficied to chart 826 May 4, 1938 AME.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No.79

REGISTER NO. 7-5147. T5447 State New Jersey General locality Great Bay, Locality Mullica River Scale 1:10,000 Date of burney photographs -April 20, 1932 Date of Compilation -Dec. 17, 1935 Vessel Air Photo Compilation Party No. 12. Reviewed and recommended for approval - Chief of party Bols Surveyed by See STATISTICS SHEET, page 2 of this report. R. J. Gisher Inked by R. L. Fisher. Heights in feet above _____to ground to tops of trees Contour, Approximate contour, Form line interval ____feet Instructions dated November 15th. 1932 Remarks: Compiled on a scale of 1:10,000 and printed by photo-lithography.

- STATISTICS -

on

SHEET, FIELD NO. 79, REG. NO. 7-51417

page.)

PHOTOS, NO. (See back this TO NO.

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			FROM	<u>TO</u>
	ROUGH RADIAL PLOTN	one	. •	
				
	SCALE FACTOR (1.000)	None		
	SCALE FACTOR CHECKED	None		
	PROJECTION	J. G. Albert	10/29/34	
			• •	
	PROJECTION CHECKED	W. E. Hackett	10/29/34	
	CONTROL PLOTTED	J. K. Batchellor	11/3/34	
	CONTROL CHECKED	W. E. Brown	11/3/34	
•	TOPOGRAPHY TRANSFERRED	None		
	TOPOGRAPHY CHECKED	None		
•	SMOOTH RADIAL LINE PLOT	G C 11 -	J. /00 /25 _ 5 /00 /25	
	emoori idiniim pinn i hor	G. Crownier U. I. Hamkins	4/29/35 - 5/22/35	

Photographs used on this sheet:-

/66-11-77 to 80 inclusive. /66-12-1 to 6 /66-11-101 /66-12-26 to 31 " /66-12-57 to 61 " /66-2-97

all taken April 20th., 1932.

COMPILER'S REPORT

for

AIR PHOTO TOPOGRAPHIC SHEET, FIELD NO. 79.

GENERAL INFORMATION.

The Air-photo Field Inspection Report for the East Coast of New Jersey. attached to the Descriptive report for compilation, register number t-5286, furnished the necessary information for the compilation of this sheet. Additional information was obtained from Mr. J. K. Batchellor and myself (Mr. R. L. Fisher) who are acquainted with this locality having performed the photo field inspection.

This sheet has been compiled from strips of single lens photographs taken by the Aero Service Corporation, 1612 Chancellor St., Philadelphia, Pennsylvania, with a camera equipped with a special lens (Orthomessar, 8" focal length). The original negatives were on a scale of about 1:21,800, and enlargements were made to 1:10,000 scale by using the old topographic sheets to bring image of negative to proper scale. No information was available from the Aero Service Corporation in regard to the time of day at which these photographs were taken; it appears no record was kept by this company.

CONTROL.

(a) Sources.

Control for the compilation of this sheet was obtained from the following sources:-

(1) Triangulation, 1914 by (Final adj.) , 1931 by (3) " , 1932 by C. D. Meany ("")
(4) Theodolite positions by R. C. Bolstad (See field in-

spection report, T-5286)

(5) Lieut. Rigg's 1935 triangulation stations Howell. Long, Mullica, Nacote, Akimbo, Great & Bay were photted on this compilation but were not used in controlling the photo plot as they were not available until the compilation was completed.

(b) Errors.

In making the radial plot no errors in any of the above listed control stations were discovered except as noted inlparagraph " Information from Other Sources".

COMPILATION.

(a) Method.

The usual radial line method of plotting was used in the compilation of this sheet.

(b) Adjustments of Plot.

By holding to all the available control no unusual adjustments of the plot were required. The photos in general have very little tilt, are close to the 1:10,000 scale, and the radial plot intersections were good. On some of the photos there is apparently a slight distortion near the edges and corners.

(c) Interpretation.

The usual graphic symbols were used as approved by the Board of Surveys and Maps (1932) and no great difficulty was experienced in

interpreting the photographic detail.

The area along the shore is low, flat and marshy with a vertical edge. There was but little difficulty in interpreting the high water line.

The area covered by this sheet is entirely flat except near the northern edge where there are a few low hills. The trees are mostly pine with some oak.

The double full line was used to indicate first order roads, the double dashed line to indicate poor motor roads, and the single dashed line to indicate exceedingly poor roads, trails and paths. The classification was determined by the field inspection party.

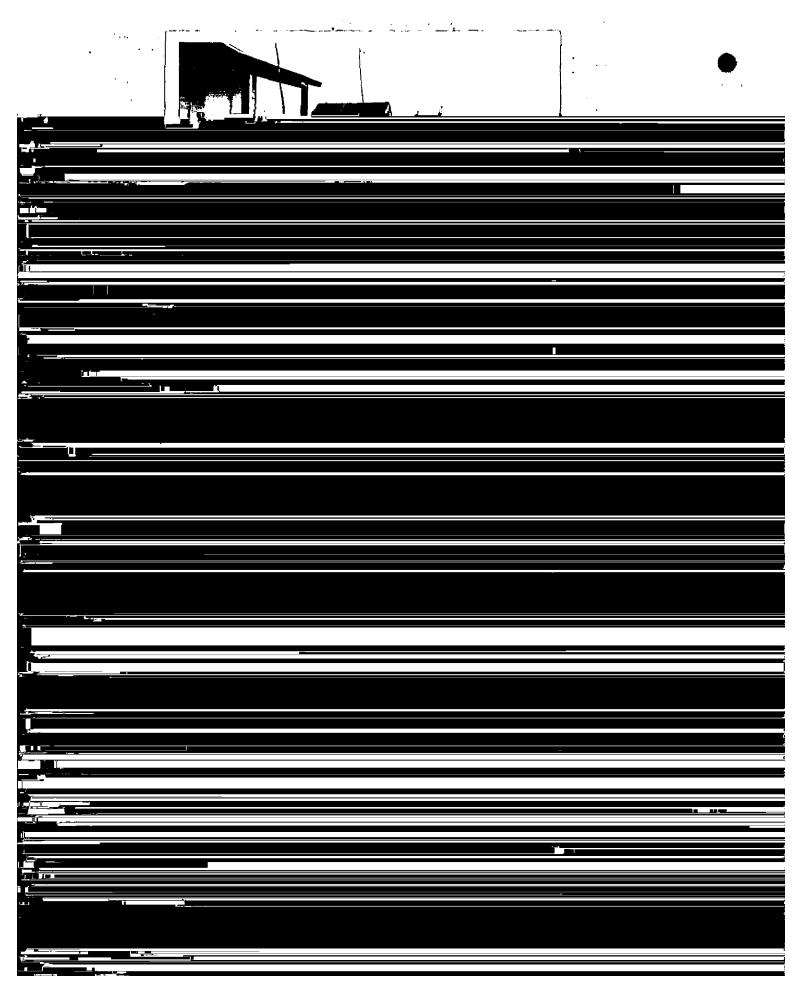
There are numerous ditches and small ponds in the marsh areas; only the main ditches and ponds have been shown.

(d) Information from Other Sources of 401,6402,76400

It. Rigg's topographic sheets X, N, and R covering this area were not received until after the compilation was completed. These sheets were then compared with the compilation. There were some small discrepancies in the shore line; in every case the topographic sheets showed the shore line further inland. The discrepancies occur in areas where erosin is taking place. For this reason and the fact that the photos date back to 1932 the compilation was changed the slight amount necessary to agree







River Bridge, were shown incorrectly on Lt. Rigg's topo. sheet "X".

This area was revisited by the field inspection party in December 1935 and the position of these docks as shown on the photographs was verified. The Kodak photos shown on the opposite page were taken at this date and clearly show the detail in question.

This Prot clear per do kodak photos

The Kodak photos shown on the opposite page were taken at this date and clearly show the detail in question. This P not clear nor do Kodak photos On topographic sheet "R" Lt. Rigg has station S. Gable Willet Thoroplotted Nameters too far to the west; in his descriptive report for this sheet he states he verifies the theodolite position obtained by

Bolstad in 1935.

Station W. Gable Black Ho. did not check with the position given on Lt. Rigg's topo. sheet "R" as he used the east gable. The compilation position was adherred to as the west gable faces the river front and would be more useful for future work. When photo 66-12-31 is placed under the compilation it appears that the two stations are in agreement.

The junctions with all other compilation sheets are satisfactory; this compilation was previously furnished Lt. Kirsch to make a tie in with his work which starts at the south border of this sheet.

(e) NAMES.

For all geographical names see the special tables included in the back of this report.

Lt. Rigg's hydrographic sheets nos. 17 & 8 were not available for this party's use and it is recommended the Office verify any names, or rather note any names which may appear thereon, and show on the over-lay sheet.

BRIDGES.

The only bridges of any importance to navigation fall on the western and northwestern edges of this compilation. Information concerning them is shown on the over-lay sheet; it was obtained from the bridge data contained in the field inspection report attached to Desc. Report T-5286, and also from Lt. Rigg's 1935 topo. sheet, field letter "X". Lt. Rigg's data of the Bass River, Mullica River, and Nacote Creek bridges differed slightly from the air-photo field inspection information and was adherred to as being correct.

RECOMMENDATIONS FOR FURTHER SURVEYS.

The compilation of this sheet is beleived to have a probable error of not over 2 meters in position for well defined detail of importance for charting, and not over 4 meters for other detail. It is understood the widths of roads and similar objects may be slightly exaggerated in order to keep the detail clear and to avoid the closing up of lines during the photo-lithographic process.

To the best of my knowledge this sheet is believed to be complete in all detail of importance for charting purposes, within the accuracy stated above, and no additional surveys are required.

the occurring of location

is 93 to 0.5 mm for intersected R. J. Fisher, Draftsman.

points and 0.3 to 0.8 mm

for other detail.

LAT.

LIST OF RECOVERABLE STATIONS.

NAME

. 4

This list includes all recoverable objects shown by a small black circle on this compilation, and when followed by the letter (d) they have been described on form 524.

METHOD OF

LONG.

DETERMINATION.

	: 10	NAME	LAI •	LONG	DEI ERRINALION •
•		E.R.A. #2263 (d)	39° - 35•71	74°-24.31	A.P.T.
		Bog (Signal 2) (d) E.R.A. #1853 (d) S. Gable (Cramer) (d) E.R.A. #1851 (d)	39°-34.6° 39°-35.5° 39°-34.7' 39°-32.2°	74°-24.4° 74°-27.5° 74°-27.1° 74°-28.0°	T.S.
	4	Bog (Signai S) (a)	79 474.0	Let -cet+et.	1.00
		E.R.A. #1853 (d)	39° ~ 35•5°	74 -27.5	A.P.T.
		S. Gable (Cramer) (d)	39° - 34∙7′	74°-27•1'	T.S. & A.C.S."X".
		R.R.A. #1851 (d)	39°=32•21	7և° – 28₊0°	A.P.T.
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Remarks Decisions * Not known as such today. Called Big Thorofare and Big Creek. Verified by 2 men. 2 See Rigg's Special Report on Geographic Names, 1935. list shown on chart 1216. Do. 10 *N.J. State cast iron Hwy. sign calls "Lovelands Thoro."; Delte the 2 B men verified. (Noted by Mr. R.L. Fisher, air-photo field inspector.) *Cramers Creek is labeled on N.J.State cast iron Hwy. sign; 5 men verified.(Noted by Mr. Fisher, air-photo field inspector.) 13 14 30 15 *Formerly called "Doctor Point" on old Geol. maps. 00.

GEOGRAPHIC NAMES	/121	B.	in John	S Fiel	r-phot	Cando	Wood Williams	ALIOS /	/
Survey No. T-5147	/201.7	spac:	lal Job I	nepect	ion so	180	Molt	1	Vourer
Air-photo Compilation.	Charles A	ogr./	2. Nod	St. Othot	cion not	Canta /	nd MC	J. Sign	Mwy.
Name on Survey	/	C	D	E	or F	G	H	N K	ns
/ A	Topo.		6 men			<u> </u>	("	()	
Great Bay x	"R"	x	x 2 men	x				x	1
Willet There * X	*	x	X*				1000		2
Roundabout Creek x	x	x	2 men						3
	x					1.30	-		4
Big Creek		1 100	2 men						
Graveling Point	×	1	2 men						5
Deep Point x	х	X	x						6
Mullica River	x	x	5 men		-	10		x	7
Swimming Over Point	х								8
Nacote Creek	x	x	5 men					x	9
Akimbo Point	x	23							10
	*	,	3 men						
Loveland Thorofare *	X	x	x*			4		*	11
Cramer Creek*	x		X *						12
Broad Creek	x			100					13
Bass River	x	x	5 men					x	14
Mosses Point	x	*		1.0					15
Jobs Creek	x	1,			-		- 5 .		16
7 Jobs Creek	1		3 men	9	. /	1	-		
New Gretna		x	x				-	X	17
Bass River Sofflemon!		x						x	18
Basses Bay		100					100		19
Basses Bay Vudies Creek	-		1					N.	20
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by	0.11.0g	ner	1						22
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1/24/36 theto									27
1111							1.7		M 234

PLANE COORDINATE GRID SYSTEM

Positions of grid intersections used for fitting the grid to this compilation were computed by Division of Geodesy and the computation forms are included in this report.

Positions plotted by _____

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Intersections inked by _	
used for plotting grid:	
	x
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	X V
	x v
	<u>x</u>
ulation stations used for the	
•	
•	6.
•	7.
•	tted on celluloid because

State	N. J.	STATION	•
x	2,060,000.	ව <u>ල</u> log S _r	4. 77815067
K	2,	13	
x' (=x-K)		log (1/R)	10 76
$x'^3/(6\rho_o^2)_g$			4.26217736
S_{σ}	59,999,	9 2 cor. arc to sine	
		$\lfloor \log S_1 \rfloor$	4,262/7677
3 log.x'	14.334453	2.5 log A	8. 56912885
$\log 1/(6\rho_o^2)_g$	4.5810213	log se c φ	0.11314576
$\log x'^3/(6\rho_o^2)_g$	8915475	log Δλ ₁	2,88445138
		cor. sine to arc	+. / . 0
$\log S_m^2$	8,5243547	· 2 log Δλ	2,88445238
log C	1.322024	Δλ	766.3545
log Δφ	9.896379		
<i>y</i>	275,000,0	٥ .	
φ' (by interpolati	0 / .//	×× λ (central mer.)	74 40
Δφ		<u> </u>	- 12 46.3945
φ	39 35 17,43		74 27 13.6055

Explanation of form:

$$x'=x-K$$

$$S_q = x' - \frac{x'^3}{(6\rho_o^2)_q}$$

$$S_{\rm m} {=} \frac{1}{R} \! \left(\! \frac{1200}{3937} \! \right) S_{\rm g}$$

R=scale reduction factor

 ϕ' is interpolated from table of y

$$\Delta \phi = C S_m^2$$

$$\phi = \phi' - \Delta \phi$$

$$\Delta \lambda_1 = S_1 A \sec \phi$$

 $\log S_1 = \log S_m - \text{cor. are to sine}$

 $\log \Delta \lambda \!\! \approx \!\! \log \Delta \lambda_1 \!\! + \!\! \cot$ are to sine

 $\lambda = \lambda$ (central mer.) $-\Delta \lambda$

State	. <i>T</i> .	STATION	
S_{ϵ} 3 log x' log $1/(6\rho_{o}^{2})_{g}$ log $x'^{3}/(6\rho_{o}^{2})_{g}$ log S_{m}^{2}	2,080,000.00 2, 80,000.00 	$\log (1200/3937)$ $\log (1/R)$ $\log S_m$ $\log S_1$ $\log A$ $\log \sec \phi$ $\log \Delta \lambda_1$ $\cos \sin \theta$ $\cos \cos \theta$ $\cos \cos \theta$ $\cos \theta$	9.48401583 1086 4.38711559 - 106 4.38711453 8.53912885 0.11314481 3.009388997
log Δφ	2,096255 275,000,00 39 35 18,1344 - 1.2481 39 35 16,4463	λ (central mer.)	0 / //

Explanation of form:

$$x'=x-K$$

$$S_{g} = x' - \frac{x'^{3}}{(6\rho_{g}^{2})_{g}}$$

$$S_m = \frac{1}{R} \left(\frac{1200}{3937} \right) S_q$$

R=scale reduction factor

 ϕ' is interpolated from table of y

$$\Delta \phi = C S_m^2$$

$$\phi = \phi' - \Delta \phi$$

$$\Delta \lambda_1 = S_1 A \sec \phi$$

 $\log S_1 = \log S_m + \text{cor.}$ are to sine

 $\log \Delta \lambda \!\!\approx\!\! \log \Delta \lambda_1 \!+\! {\rm cor.}$ are to sine

 $\lambda = \lambda$ (central mer.) $-\Delta \lambda$

State	ブ	STATION	
x	2,060,000.00	$\log (1200/3937)$ $\log (1/R)$ $\log S_m$	
3 log x' log 1/(6ρο²) _g	14.33 44 5375 4.5810213 8,9154750 8,52425472	$\log S_1$ $\log A$ $\log \Delta \lambda_1$ $\log \Delta \lambda_1$ $\log \Delta \lambda$ $\log \Delta \lambda$ $\log \Delta \lambda$	4 26217677 8.50912989 0.11288783 2.88419449 + 160 2.88419549
$\log C$	1.32 13 93 9.845748 260,000.00 39.32 498818	Δλ	74 40
Δφ		Δλ	74 27 14,0547

Explanation of form:

$$x'=x-K$$

$$S_{g} = x' - \frac{x'^{3}}{(6\rho_{o}^{2})_{g}}$$

$$S_m = \frac{1}{R} \left(\frac{1200}{3937} \right) S_q$$

R=scale reduction factor

 ϕ' is interpolated from table of y

$$\Delta \phi = C S_m^2$$

$$\phi = \phi' - \Delta \phi$$

$$\Delta \lambda_1 = S_1 A \sec \phi$$

 $\log S_1 = \log S_m - \text{cor.}$ are to sine

 $\log \Delta \lambda = \log \Delta \lambda_i + \text{cor.}$ are to sine

 $\lambda = \lambda$ (central mer.) $-\Delta \lambda$

	State	N. J.	Station		<u>.</u>
	x	2,085,000	log S,	4.92981773	
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State	v. T.	_ Station	
x	2,070,000,00	$\log S_*$	4,84509723
K	2,	log (1200/3937)	9.48401583
x' (=x-K)	70,000.00	log (1/R)	1086
$x'^3/(6\rho_a^2)_{\phi}$,13	$\log S_m$	4.32912392
S _c	69,999.87	cor. arc to sine	81
	,	$\log S_1$	4.32912311
3 log x'	14.53529412	$\log A$	8.50912954
$\log 1/(6\rho_o^2)_{\phi}$	4.5810213	log sec φ	0.11297333
$\log x'^3/(6\rho_{\sigma}^2)_{\sigma}$	9,1163154	log Δλ ₁	2.95122594
		cor. sine to arc	+ /36
$\log S_m^2$	8,65824784		2,95122734
log C	1.321603	Δλ	893,7732
log Δφ	9.979851		
<i>y</i>	265,000,00		
-	39 33 39,2595	λ (central mer.)	74 40
Δφ		}	_ 74 /4 53,773
φ	39 33 38 3448		74 25 06.226

Explanation of form:

$$x'=x-K$$

$$S_{g} = x' - \frac{x'^{3}}{(6\rho_{g}^{2})_{g}}$$

$$S_m = \frac{1}{R} \left(\frac{1200}{3937} \right) S_g$$

R=scale reduction factor

 ϕ' is interpolated from table of y

$$\Delta \phi = C S_m^2$$

$$\phi = \phi' - \Delta \phi$$

$$\Delta \lambda_1 = S_1 A \sec \phi$$

 $\log S_1 = \log S_m - \text{cor. arc to sine}$

 $\log \Delta \lambda = \log \Delta \lambda_1 + \text{cor.}$ are to sine

 $\lambda = \lambda$ (central mer.) $-\Delta\lambda$

REVIEW OF AIR PHOTO COMPILATION T-5447 Scale 1:10,000

Data Record

Triangulation to 1935
Photographs to 1932
Planetable surveys to 1935
Field inspection to 1935

All detail on this compilation is of the date of the 1932 photographs except for the following additions from the 1935 planetable surveys: Location of lights, recoverable topographic stations and a number of small corrections to high water line and piers.

Comparison with Graphic Control Surveys

1. T-6400a (Jan. 1935), 1:10,000

No discrepancies noted.

2. T-6401b (May 1935), 1:10,000

Station So. Gable (Willett Thoro) (d) is plotted some three meters to the southwest of the position it occupies on T-5447. In his report on T-6401b Rigg states that he verified the theodolite position obtained by Bolstad, the latter position being the one on file and used on the air photo compilation.

Rigg in checking Bolstad's theodolite observed station W. Gable Black Ho. (d) used the east gable of the same house. The discrepancy was noted but no check was made on Bolstad's station. The latter station is shown on T-5447. Rigg's station (not described) is shown only on T-6401b.

3. T-6402 (May 1935), 1:10,000

The descriptive report for T-5447 discusses (page 4) a large discrepancy between the positions of station E. Gable French (d) as located by Rigg on T-6402 and by Bolstad on T-5447. This reviewer repletted the station from Bolstad's theodolite observed position and found it to check within 1 1/2 m. with Rigg's position. Considering that the projection in this locality is only fair, it is believed that Bolstad's position for this station is within the specified accuracy of this compilation.

A bridge across Bass River, near New Gretna, occupies a position parallel to and 5 meters to the south of that shown on T-5447. This is likewise true of some small detail just south of the bridge. The compilation position is accepted as correct.

No other discrepancies.

All detail on the above graphic control sheets falling within the area of this compilation is now shown on T-5447 with the exception of temporary planetable stations and magnetic meridians.

Comparison with Contemporary Hydrographic Surveys

1. H-5893 (July 1935), 1:10,000

Along a few short sections of shoreline this survey shows minor discrepancies with T-5447. This is due to the fact that, since the high water line had been traced from T-5447 to the hydrographic sheet, small changes had been made on T-5447 to agree with the graphic control sheets in this area which are of a leter date. These differences are, however, inconsequential.

Several lights on H-5893 are called beacons (Lights 26-C, 26-D, 26-F). These are lights maintained by the N. J. C. & N. Commission.

No other discrepancies.

2. H-5894 (June 1935), 1:10,000

As above, Light 26-D is called Beacon 26-D. See above paragraph. No major differences.

Comparison with Previous Topographic Surveys

T- 119 (1840-41), 1:20,000 T-1333 (1871), 1:20,000

The above sheets show the usual time changes, the majority occurring in the swampy regions bordering on Great Bay and the Mullica River. Several channels have been cut through the points of land formed by the meandering of the Mullica River. T-5447 is complete and adequate to supersede the above surveys.

Comparison with Charts

No. 1216, (1:80,000), February 1936 No. 3243, (1:80,000), August 1936

A group of three islands in the mouth of the Mullica River is shown as a single island on chart 1216. A point of land at lat. 39° 32.2', long. 74° 24.6' has been severed from the mainland by two channels; this is not shown on either chart.

There are other minor changes in shoreline.

A light, 26-C, at lat. 39 22.21, long. 74° 24.5' is not shown on chart 1216. This is a light maintained by the N.J.C. & N. Commission during summer months.

There are no other aids to navigation in that area common to the compilation and charts.

Remarks

Drafting of shoreline and topographic symbols is poorly executed.

T-5634 is the junction sheet to the south of T-5447. On the former sheet is shown a large number of ditches extending to the junction. None have been shown on T-5447 although they exist and are as numerous.

April 5, 1937

Frank R. Gollon.

Frank R. Follows

REVIEW OF AIR PHOTO COMPILATION NO. T-5447

Chief of Party: Roswell C. Bolstad. Compiled by: R. L. Fisher. (See page 2.)

Project: Air Photo Compilation Party "12Instructions dated: Nov. 15, 1932.

- 1. The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Par. 16a, b,c,d,e,g and i; 26; and 64)
- Change in position, or non-existence of wharfs, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (Par. 26; and 66 g,n)
- Ground surveys by plane table, sextant, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, and all such surveys are discussed in the descriptive report. (Par. 65; and 66 d,e)
- Blue-prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 28) No Blueprints secured of this area.
- Differences between this compilation and contemporary plane, table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report.

 Lt. Rigg's hydrographic sheets were never forwarded to this party for examination and comparison.

- The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41) None shownon this sheet.
- Recoverable objects have been located and described on Form 524 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. 29, 30, and 57) See page 6.
- A list of landmarks was furnished on Form 567 and instructions in the Director's letter of July 16, 1934, Landmarks for Charts, complied with. (Par. 16d, e; and 60) See back of page 4.
- All bridges shown on the compilation are accompanied by a note stating whether fixed or draw, clearance, and width of draw if a draw bridge. Additional information of importance to navigation is given in the descriptive report. (Par. 16c)
- Geographic names are shown on the overlay tracing. The accepted local usage of new names has been determined and they are listed in the report, together with a general statement as to source of information and a specific statement when advisable. Complete discussion of place names differing from the charts and from the U.S.G.S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and 66k)
- 13. The geographic datum of the compilation is N.A. 1927 and the reference station is correctly noted.
- 14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j) Junction with Lt. Kirsch's compilations to the south was previously furnished him; since no information has been received from him contrary it is assumed the junction is correct.
- The drafting is satisfactory and particular attention has been given the following:
 - 1. Standard symbols authorized by the Board of Surveys and Maps have been used throughout except as noted in the report.
 - The degrees and minutes of Latitude and Longitude are correctly marked.

- 3. All station points are exactly marked by fine black dots.
- /4. Closely spaced lines are drawn sharp and clear for printing.
- 5. Topographic symbols for similar features are of uniform weight.
- 6. All drawing has been retouched where partially rubbed off.
- 7. Buildings are drawn with clear straight lines and square corners where such is the case on the ground.

(Par. 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48)

- 16. No additional surveying is recommended at this time.
- 17. Remarks: Any additional reports and requirements affecting this area are referred to the reports of Lt. Rigg who conducted a 1935 combined-operations party in this area. Field inspection report attached to Descriptive Report T-5286 also gives additional information.
- 18. Examined and approved;

Chief of Party

19. Remarks after review in office:

Reviewed in office by:

Examained and approved:

Chief, Section of Field Records

Chief, Division of Charts

Rowh R. Dollow Bollows

hief, Section of Field Work

Chief, Division of Hydrography and Topography.