5668

DESCRIPTIVE REPORT Sheet No. T-5668 FLORIDA State LOCALITY St. Johns Biver TROUT RIVER AND VICINIT Photographs taken Nov. 1933

" Feb. 1939

See data sheet in report.

Form 504 Rev. Dec. 1933 DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR CHIEF OF PARTY Riley J. Sipe.

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...5

REGISTER NO. T-5668 State FLORIDA General locality Jacksonville Locality TROOT RIVER AND VICINITY Photographs Nov. 1933 Scale 1:10:000 Date of survey Feb., 19.39 IMAGENTA Air Photographic Party No. 24 Chief of party Riley J. Sipe. Surveyed by See notes on compilation Inked by " " " " Heights in feet aboveto ground to tops of trees Contour, Approximate contour, Form line interval......feet Instructions dated March 4 1935 Remarks: U. S. Army A. C. single lens comers and U.S.C. & G. Survey nine lens camera used. Field inspection made July August and December 1939, January 1,940, and summer of 1935.

Reference Station: Moncrief, 1917

Latitude: 30° 21' 45.018" (1386.2 meters) (Adjusted)
Longitude: 81° 43' 16.185". (432.2 meters)

X coordinate: 272,552.2 ft. y coordinate: 2,192,399.0 ft.

Supplemented by other sorveys to January 1940

Date of Survey

Single lens photographs taken November 27, 1933.

Nine lens photographs taken February 16, 1939.

Field inspection at various periods to January 1940.

Work was first started on T-5668 in 1933 but was left incomplete until after the nine lens photographs were taken.

Details on T-5668 are of the date of the nine lens photographs, February 1939. Field inspection added no details of a later date.

TIME SHEET

Field Sheet No. 5 Register No. T- 5668

The radial plot was nearly finished before time records were begun on this sheet. This is a rough drafted sheet.

Fricking Points for Plotting	10	hrs.	-	
Redial Flotanian Parish	29	u .		-
Plotting All Control	26 502	1 H		
Detailing Symbol 8				
Shoreling	57	<u>}</u>		
Reports	31 66	景 11		
Field Inspection	723	hrs.	,	3

Due to the fact that the 9 lens photographs were flown to a larger scale than the single lens, some difficulty was experienced in coordinating the single and nine lens flights. Points that were transferred from the single to the nine lens pictures often proved not to be the same points. This necessitated pricking additional points, however even then some difficulty was experienced in mading adjoining map drawings check properly, especially where the connection was made through street lay outs. This is a city record

and required much more time for comfidation than the average for the project

NOTES ON COMPILATION

Sheet Ho. 5 (Field)

Register Ho. T- 5668

PEOTOGRAPHS		Lens - Flig	nt No.	No. N. 223	28 Inc	:Insi
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		n 🕳 n	11	" 0 <u>3218-0</u> 3	1222 In	clus
SCALE PLOT8	W.H. Bur	well and B.	Benson	• • •		
SCALE FACTO	R USED8	1.	-		•	•
PROJECTION I	BYs Ben	son				
CONTROL PLOT	PTED BY8	R. J. Moo	re, Jr.	•		
CONTROL CHEC	CKED BYW	. L. Riehl		•		
8MOOTH RADI	L PLOT B	348 H. A. P	aton			.•
TOPOGRAPHY T	tr ansfe rf	ED BYs None				
TOPOGRAPHY (CHECKED I	3¥8		•	:	
SHORELINE IN	NKED BY8 j	R. Gossett	& J. A. G	ltes.		•
DETAIL INKE		The second secon	· . ·	•		
OVERLAY SHEE	et bys n	one	. •			
DESCRIPTIVE	REPORT E	Ys J. A.	Siles	***		
REVIEWED BY	H.O. 1	7 .				
AREA OF DETA	IL INKE)8 31.04 Sq	. Statute	Miles		
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Length of Sh	THUC	formed nott	concle an c	i single iin	e stre	ams.

LEGEND TO BE USED ON FIELD INSPECTION AND ROUGH DRAFTING

JULY 1, 1939

TREES	
A = Ash Br = Brush	PONDÉ
Cit - Catrus	P - Pond
Cy - Cyproso	CyP - Cypress Pond
Our - Gura	GP ⇔ Grassy pond
Cak - Cak	IP - Intermittent p
Pal - Palmetto	PiP - Pine pond
Pi - Pine	·
Pln - Palm	GATTERANCE
	STREAMS
ROADS	Ca - Canal (width)
* destination in the second se	Cr = Creek
Rd-l - 1st class paved	D = Di.tch
Rd-ld = lst class dirt	IS - Intermittent Stream
Rd-2 - 2nd class	PFU - Probable drainage unsurveyed
Tr - Trail	Str - Stroom
All mands mat labeled awa	
All roads not labeled are one or less in width.	MISC
time or teas th Africa	to the second se
•	Elf - Bluff (height)
VIII I II	Drg - Bridgo
VEGETATION	Ch - Church
a di B	Ov - Culvert
C - Cultivated	FB - Fire break (width)
DT - Decidnous trees Fl Flooded area	Fn (f) Fence H = House
Fl Flooded area Gr - Grass	Hem = Hammock
TGr = Tropical grass	Håg - Endge
hev - Heavily wooded	Hal - High water line
M - Marsh	LWL - Low water line
Mg - Mangrove	OP - Overpass
Syr - Sweep	PC - Postoffice
Sot - Scattered	R = Reof
	RR = Reilroad
	S ⇒ Sand
	Sch - School
	UP - Underpass

FAP - Plorida Mapping Project USE - U. S. Engineero

tetun this wheat to office with the drawing.

DESCRIPTIVE REPORT

TO ACCOMPANY

Field Sheet No. 5 Register No. T-5668.

General.

This rough map drawing has been compiled from air photographs taken by the U. S. Army Air Corps, using a single lens camera and a nine lens camera, designed by the U. S. Coast and Geodetic Survey.

The projection was made with a scale factor of 1.

Unimportant, small buildings and indistinct buildings have been omitted. No vegetation has been shown within limits of street layouts.

The single lens photographs being closer to scale were used for the delineation of details wherever possible, this detail being checked against the nine lens photographs for differences. In the Northwest corner of this map drawing the new highway to Brunswick is probably in error from three to five meters where it crosses the northern tracing limit. This is due to inability to pick adequate radial points on the nine lens photographs in this area, as the highway does not appear on the single lens photographs. This is a two-lane highway, the west lane of which has been paved. The east lane has been graded and its intersections paved as gshown on this map drawing. The unpaved part is not used by traffic but is grown over with grass. For this reason its ceterline has not been shown.

Some of the streets shown immediately east of the Southern R/R. Simpson Shops, appear as ditches on the photographs. Field inspection reveals that they were being graded at the time of taking the nine lens photographs.

The outer limits of track layouts and railroad yards have been shown and where two tracks appeared on the photographs the center line between the two has been drawn with the exception of the A. C. L. tracks just above triangulation station Curwe. Here the centerline between tracks was changed to the centerline of the east track to show the outer eastern limit of tracks at Moncrief Yards. Accompanying this map drawing is Atlantic Coast Line R. R. Que prints of Sheet Nos. 2, 3 and 4 V2 Florida, and one of Grand Crossing made by the Georgia Southern and Florida R. R. Co. Additional tracks, differences, etc., have been noted in red pencil on the blueprints in the field.

The telephone line shown came on this map drawing in the northeastern corner and was taken to the edge of the congested area of the city of Jacksonville and there discontinued.

Control.

There are a total of 44 control stations plotted on this map drawing; 40 of which fall within the limits of the drawing. 7 are U. S. Coast and Geodetic Survey triangulation stations all of which were recovered. 34 of the control stations were established by the Florida Mapping Project. All of these were recovered. 3 topographic (described of which were two) stations were taken from G. C. Sheet "AA", but none were used for controlling the drawing.

Junction with map drawing T-5669 was made difficult because of small errors in projections. The plot on T-5669 had to be revised to check with this drawing (T-5668). Some control stations were picked wrong and have been crossed out. Station AAS was repricked. Otherwise control waw adequate, and the radial plot was quite strong.

Radial Plot.

A radial plot for this map drawing was made directly on the celluoid from the single lens photographs in 1935 and 1936. All corresponding points on the nine lens photographs, that could be clearly identified, were pricked. Many could not be satisfactorily located, necessitating the plotting of additional points. Due to insufficient overlapping of the nine lens and having no single lens photographs in the area, a number of the radial points in the western portion of this map drawing were established by single intersections of radial lines.

Interpretation of the Bhotographs.

The photographs are generally clear excepting nine lens photograph number 03222 which has black areas due to shadows cast by clouds.

Field Inspection and Supplemental Surveys.

Field inspection trips were made in the summer of 1935 by truck. During the summer and fall of 1939, by boat and truck, and in January 1940 by truck.

Graphic Control Surveys.

T6488 b

Only a small portion of this map drawing is covered by a graphic control sheet, that being "A&" which covers a small postion of Trout River near the eastern limit of this map drawing. All details this covered are shown on the air photographic survey except:

- 1. Magnetic Declination.
- 2. Azimuth of Ranges.

3. Temporary stations for control of hydrography.

Only a small section of T5668, Trout River east of Long. 81°42.

Hydrographic Surveys. 18 covered by the Graphic Control Survey

The delineation of the shoreline from air photographs was made prior to the hydrographic survey. The following differences were found by the hydrographic party from the Launch Mikawe, season 1937 and 1938, and have been corrected except as otherwise stated below:

Old barge removed from map drawing at lat. 30° 25.2, long.

81. 41.9.

See verieur at bock

In latitude 30° 25.0, longitude 81° 42.6 a difference of three piers was found by the hydrographic party on hydrographic sheet No. 49. The nine lens photographs taken in February, 1939 show one pier in ruins, so this was placed on the map drawing.

One pier in latitude 30° 25.0, longitude 81° 41.9 was removed from map drawing, and dots indicating piling or shoal area was removed from map drawing in latitude 30° 25.1, longitude 81° 41.9.

Two piers in latitude 30° 25.3, longitude 81° 42.5 have been shown in ruins.

No shoreline difference at latitude 30° 26.28, longitude 81° 45.9 was noted except that the island was connected to the main shoreline where the river made a sharp turn just west of the highway bridge, on this map drawing.

The following additional minor changes were made in shoreline due to having been brought out by the nine lens photographs:

Change made on south shore of Trout River due north of Station D.A. 272c, between there and bridge.

Change made on south shore of Trout River beteeen stations D.A. 272d and D.A. 272e.

Change made on south shore of Trout River between D.A. 272e and D.A. 273.

More of the small creeks along the banks and flowing into Trout River are visible on the nine lens photographs than were originally discernable on the single lens photographs. Some of the clearer ones have been added to this map drawing.

Comparison with Surveys by other Organizations.

No maps or charts of this area of a scale large enough to permit an intelligent comparison being a wilable; this has been ommitted.

Comparison with U. S. Coast and Geodetic Survey Charts.

No copies of such surveys are available in this office.

Comparison with early U. S. C. & G. Surveys.

No copies of such surveys are available.

Landmarks and Aids.

All landmarks and aids to navigation were mailed to the Washington Office in February, 1935.

Preparation for Inking.

This map drawing having been started two or three years ago when the shoreline was put on for the hydrographic party, was found to be quite dirty. It was washed and cleaned with a soft eraser and before inking carbonate of magnesia was applied to the surface about to be inked.

Bridges.

The vertical and horizontal clearances have been listed on the rough drawing, in accordance with "List of Bridges over the Navigable Waters of the United States, 1935". When the vertical clearance was given without the stage of tide, no data was available, and as these small streams were not considered Navigable Waters, no extra time was spent in obtaining this data. These are not littled on the further drawing as they can be taken from the help book for challing purposes.

Miscellaneous.

On this map drawing small wet areas are either labeled swamp or cypress. The areas labeled cypress are simple ones having pond cypress growing in them. Those labeled swamp are areas have an assortment of gum, bay, pond pine, and dense under brush growing in wet areas.

Numerous trails and fire breaks of no importance have been left off this map drawing. The width of fire breaks have often been exaggerated. A standard width of 6 meters was used, even if the fire break showed to be not so wide. This only holds true for smooth drafted map drawings, and does not pertain to this map drawing.

Florida Mapping Project traverse station D. A. 266 has been destroyed, and has been removed from the map drawing.

Rd ld should be smooth drafted as first class roads.

On part of this map drawing the detail has been drafted at road and street intersections. Upon later notice from the Washington Office these were drafted in simply as two line intersection, except in places where some doubt might be left in mind, the more intricate intersections were detailed or smooth drafted in.

Espectfully submitted

Jesse A. Giles

Approved and forwarded: Riley J. Sipe, Dunny O. Joutin Chief of Party.

By Henry O. Fortin.

Remarks.

Decisions

	nemarks.	Decisions
1		304817
2		
	Do not ink pending Board decision, as Lem-	7
3	turner used both Rand McNally and P.R. Map	304817
4		303817
5_	Do not ink pending Board decision, as Halls Branch recommended on H-6536	304817
6		303817
7	Kings Road is certainly right for the	304817
8	read (on Texaco Read Map, n.w. from Jack'ville S. side Trout River, 25.1/43.5', where Pier is shown on this sheet (from H-653 6)	304817
9	AS SHOWN ON WILLS MINOUS (1 OF 1)	303817
10		304817
11		303817
12_		303817
13		304816
14		304816 USGB
15		303816 USGB
16	Also on H=6536	304817
_ 17	.Big Trout Creek on H-6536: tribe Trout R from sewe at Dinsmore	304817
18	Also on H-6536 \	304817
19	Do not ink pending decision line 5 above	304817
20	Wrongly on USGS "Cambon", the former name for Ribault River, of which it is extension	(line 8, above)
21	USGS "Jacksonville" shows as part of that city, east of limits this sheet.	304816
22	Where?	
23	At "bluff" on this sheet or a little east of it, near 251/42.7 (from H-6536)	304817
24	Trib. Trout River from north at Dinsmore (from H-6536)	304817
25		
26		
27		
M 234		

	Survey No. Field Register- T-5668		/5	10 10 10 10 10 10 10 10 10 10 10 10 10 1	de de de	D. Way	or local stor	Or local Maga	Q.O. Girde of	Mac McHally	A.S. Jerry	
	Name on Survey		A,	B,	C,	D	Ě	F	G	Н	<u></u>	
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·	PICKETT ILLE				X	X	X					12
•		d'			_ X _	X						13
	RIBAULT RIVER	才,	x			<u>x</u>						14
	TROUT RIVER		x			_X						15
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GEOGRAPHIC NAMES

DINSMORE. A small community in the extreme northwestern part of this map drawing. Post office, railway station and school are shown. Recommended.

GARDEN CITY. A small community located at the junction of the Lem Turner Road and the road that runs across the northern end of the map drawing. This community has a post office by the name of Lemturner. However, since there are eleven post offices in the United States by the name of Garden City, the post office in all probability will remain by that name, while the community will be called Garden City. The latter is recommended for charting purposes.

GRAND CROSSING. A settlement in the south central portion of this map drawing having a post office. The Southern Railway has a shop there with a round house and a turntable, etc., known as Simpson Shops. Recommended.

HALF CREEK. Small tributary of Trout River which flows south into same northwest of the mouth of Ninemile Creek. Sometimes this creek is known as Halls Branch or Lotton Creek. However, Half Creek is recommended for charting purposes.

HOYT. A small community just southwest of Pickett. At one time a railway station was situated here. At the present time this name is not in use for the station has been discontinued. Not recommended for charting purposes.

KINGS ROAD. One local map gives this name as Kingsgrove. In all probability it was an old railway station situated about two miles northwest of Pickett on the Georgia-Southern and Florida Raidroad. No one at the present was found who remembered the name, so it is not recommended for charting purposes.

MONCRIEF. Section located in the southeast part of the map drawing. The Atlantic Coast Line has a large Railroad yard there known as Moncrief Yard. The name of Moncrief as a lecatity no longer exists, and is not recommended.

Ninemile Creek. A tributary of Trout River which flows north into it, and located in the north central part of this map drawing. Recommended.

PICKETT. A small community on the A. C. L. R. R. located in the center of the map drawing. No. railway station or post office located here. Sometimes called Pickett City or Pickett Station. Pickett recommended for charing purposes.

PICKETTVILLE. A small community located about one mile south-southwest of Pickett on Kings Road Highway. A public shool is located here. Recommended.

RIVERVIEW. A large settlement in the northeastern part of this map drawing, bust south of Trout River. Recommended.

RIBBULT RIVER. This stream is just south of Trout River and was known as Simmile Creek, but is more generally known as Ribault River and is so shown on U.S.C. & G. S. Chart-No. 577. Recommended.

TROUT RIVER. A large stream flowing across the northern part of this map drawing. This stream was formerly known as Trout Creek, but Trout River is the generally accepted name and is so shown on U. S. Coast & Geodetic Survey Chart No. 577.

WEST BRANCH. A branch? mile west of Lem Turner Road Bridge. Not recommended.

ISLAND BRANCH. A branch 1 mile west of Lem Turner Road Bridge. Not recommended.

HALLS BRANCH. A branch 0.6 mile northwest of Nine Mile Creek. Not recommended.

Respectfully submitted.

Jesse A. Giles.

Approved and forwarded. Riley J. Sipe, Chief of Party.

By Henry O. Fortin.

REVIEW OF AIR PHOTO COMPILATION NO. T- 5668.

Chief of Party: Riley J. Sipe

Compiled by: Jesse A. Giles

Project: No. 2A

Instructions dated: March 1, 1935.

- 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)
 Yes.
- -2. 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) Yes.
 - 3. 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)
 - 4. 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) Railway Blue-prints.
- 5. 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. Yes.
- 6. The control and adjustment of the photo plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 12b; 44; and 66 c,h,i) Yes.
- 7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44) Yes.

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Refer also to the pamphlet "Notes on the Compilation of Planimetric Line Maps from Five Lens Air Photographs."

- 8. 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) Yes.
- 9. 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) Yes.
- 10. 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) Previously sent in.
- 11. 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) Yes.
- 12. 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. American 1927 and the reference station is correctly noted.

 Yes.
- 14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j) Yes.
- 15. The drafting is satisfactory and particular attention has been given the following: Yes.
 - 1. Standard symbols authorized by the Board of Surveys and Maps have been used throughout except as noted in the report.
 - 2. The degrees and minutes of Latitude and Longitude are correctly marked.

- 3. All station points are exactly marked by fine black dots. Yes.
- 4. Closely spaced lines are drawn sharp and clear for printing. Yes.
- 5. Topographic symbols for similar features are of uniform weight. Yes.
- 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. No.
- 17. Remarks:

Jung O. Fortin

18. Examined and approved; Henry O. Fortin

Riley J. Sipe Chief of Party

19. Remarks after review in office:

R

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 plo	tted by <u>S.K</u>	ass & J. Dunier.	
Positions che	cked by S.K.	ON RULING MACH	+ INE)
Grid inked on	machine by S. k	<u> </u>	
Intersections	inked by \mathcal{O}	UNICH.	
Minute I ntersections - Points used for plotting	g grid:	•	
7 ± 30-21 2 × 81-46	<u> </u>	30-23 \$ \$1-44	
‡ 30-26 † \$1-42		<u>x</u> <u>y</u>	
\$ 30-21 \$ 81-42	-	<u>x</u>	
\$ 30-26 \$ 81-46	-	<u>*</u>	
Triangulation stations		_	
1. Moncrief 191	7 (Ref. Sta)5.		
2. 30-24 Hinu	te Inters. 6.		
3. A.A8 (F	-M.R) 7.		
4. AB-4 (

Note-Grid checks within approx. 0.2 mm.

State Fla.	zone East	Station Mon	crief 1917
,		(Central meridian)	•
<u>, 30° 2</u>	21'45.018	λ	81 43 16:185
$\Delta \phi$ (Excess of ϕ over)	1'7502 AX ((Central meridian—λ)	43 16.185
Δφ (Excess of φ over) even 10' expressed as minutes and decimal)	1.7303	Central meridian—λ) Δλ (in sec.)	-2596".185
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H	87.61/237		*
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a	704	of y for 1" of ϕ $\}$	
b	+ 10.170	y (for minutes of ϕ)	
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x'	-227,447.8	(100)	
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	+77.56	 	+72.59
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$\sin \frac{\phi + \phi'}{2}$		Í	0 / //
· 2	<u></u>	Δα	

$$x' = H\Delta\lambda + ab$$

$$x = x' + 500,000$$

$$y = \text{Tabular} \ y + V \left(\frac{\Delta \lambda''}{100}\right)^{\! 2} + c$$

$$\Delta \alpha'' = \Delta \lambda'' \sin \frac{\phi + \phi'}{2} + F (\Delta \lambda'')^3$$

State Fla	Zone East	Station	30 24 81 45
	, "	(Central meridian)	
	Δλ (C	λ Central meridian—λ) Δλ (in sec.)	45
·		$\left(\frac{\Delta \lambda''}{100}\right)^2$	
Tabular H (even 10')		Tabular V (even 10')	,
Interpolated H (fraction_of 10')		Interpolated V (fraction of 10') Cor. for second dif.	+ 4
Cor. for second dif	+ 89	<u></u>	1.074473
H	87.577.790 702	Tabular difference of y for 1" of ϕ	
b	+ /0.22/	y (for minutes of ϕ)	
Η (Δλ")	236,460.03	y (for seconds of φ) Tabular y	2,205,3//.38
ab	- 7.18 -236,452.8	$V\left(\frac{\Delta \lambda''}{100}\right)^2$	<u> 783.29</u>
x'	500,000,00	c	12
x	263,547.2	y	2,206,094.6
$\frac{\text{(Tabular }y) + y}{2}$	44.09 (15	$4\lambda'' \sin \frac{\phi + \phi'}{2}$	33.28
$\frac{\phi + \phi' \text{(Interpolated from } 2)}{2} \text{ projection table)}$		$F (\Delta \lambda)^{\underline{s}}$ $\Delta a''$	"
$\sin\frac{\phi+\phi'}{2}$		Δα	

$$x' = H\Delta\lambda + ab$$

$$x = x' + 500,000$$

$$y = \text{Tabular } y + V \left(\frac{\Delta \lambda''}{100}\right)^2 + c$$

$$\Delta \alpha'' = \Delta \lambda'' \sin \frac{\phi + \phi'}{2} + F (\Delta \lambda'')^3$$

PLANE COORDINATES ON TRANSVERSE MERCATOR PROJECTION

rt a		HINE COMPUTATION)	30 23
State_Flac	Zone East	Station	81 44
	λ	. (Central meridian)	v , "
φ.	, ,,	λ	
$\Delta \phi$ (Excess of ϕ over)			
even to expressed as \	Δλ (C	Central meridian $-\lambda$)	-2640"
minutes and decimal)		Δλ (in sec.)	2070
		$\left(\frac{\Delta \lambda''}{100}\right)^2$	
		(100)	
Tabular H (even $10'$)	 _ · ·	Tabular V (even 10')	
Interpolated H (fraction_		Interpolated V (fraction_	<u> + </u>
of 10')		of 10') Cor. for second dif	+ 4
Cor. for second dif	1+ 78	<i>V</i>	1.074123
H	87.592661		
<u> </u>	 	Tabular difference of y for 1" of ϕ	· · · · · · · · · · · · · · · · · · ·
a	- 703	or y for 1 or φ j	
b	+10.192	y (for minutes of ϕ)	
 	001011110	y (for seconds of ϕ)	
Η (Δλ")	•	II .	2,199,250.12
ab	- /.16	$V\left(\frac{\Delta\lambda''}{100}\right)^2$	748.62
x'	- 231,237.5		
	1	c	- 11
! <u></u>	268.762.5		2,199,998.6
x	7	y	<u> </u>
$\frac{\text{(Tabular } y) + y}{2}$	37.64	$\Delta \lambda'' \sin \frac{\phi + \phi'}{2}$	
2	,	<u> </u>	
$\phi + \phi'$ (Interpolated from		F (Δλ) ³	
$\frac{\phi + \phi'}{2}$ (Interpolated from projection table)		Δα"	0 / 11
$\sin \frac{\phi + \phi'}{2}$		Δα	<u> </u>
į	4	ш	1

$$x' = H\Delta\lambda + ab$$

$$x = x' + 500,000$$

$$y = \text{Tabular } y + V \left(\frac{\Delta \lambda''}{100}\right)^3 + c$$

$$\Delta \alpha'' = \Delta \lambda'' \sin \frac{\phi + \phi'}{2} + F (\Delta \lambda'')^3$$

State Fla.	zone East	Station	30 26 81 46
٥	, " λ	(Central meridian)	, , ,
φ Δφ (Excess of φ over) even 10' expressed as }	΄ Δλ (C	λ Central meridian—λ)	46
minutes and decimal)	<u></u>	Δλ (in sec.)	~2/60
		$\left\ \left(\frac{\Delta\lambda''}{100}\right)^2\right\ $	
Tabular H (even 10')		Tabular V (even 10')	
Interpolated H (fraction_of 10')		Interpolated V (fraction_ of 10')	+ 4
Cor. for second dif	+ 89	Cor. for second dif	/
H	87.548025		
a	700	Tabular difference of y for 1" of ϕ	
b	+ /0.226	y (for minutes of ϕ)	
Η (Δλ")	241,632,55	y (for seconds of ϕ) Tabular y	2,217,433.96
ab	7.16		819.02
x'	-241 625.4 500.000.00	c	
x		ÿ	2,218,252.9
$\frac{\text{(Tabular }y) + y}{2}$	_49,41	$\Delta\lambda''\sin\frac{\phi+\phi'}{2}$	53.13
$\frac{\phi + \phi'(\text{Interpolated from}}{2} \text{ projection table})$		$F (\Delta \lambda)^3$ $\Delta \alpha''$	"
$\sin \frac{\phi + \phi'}{2}$		Δα	0 , "

$$x' = H\Delta\lambda + ab$$

$$x = x' + 500,000$$

$$y = \text{Tabular } y + V \left(\frac{\Delta \lambda''}{100}\right)^3 + c$$

$$\Delta \alpha'' = \Delta \lambda'' \sin \frac{\phi + \phi'}{2} + F' (\Delta \lambda'')^3$$

State Fla.	Zone East	Station 8/	0 21 1 42
•		(Central meridian)	• "
φ		λ	
$\Delta \phi$ (Excess of ϕ over) even 10' expressed as minutes and decimal)	΄ Δλ (C	Central meridian—λ) Δλ (in sec.)	<u>42</u> - 2520 "
		$\left(\frac{\Delta\lambda''}{100}\right)^2$	
Tabular H (even 10')		Tabular V (even 10')	
Interpolated H (fraction of 10')		Interpolated V (fraction_	+ 2
Cor. for second dif.	+ 33	Cor. for second dif	1.073422
H	87.622381	(C-1-11:45)	
a	- 704	Tabular difference of y for 1" of ϕ	
b	+ /0./05	y (for minutes of ϕ)	!
Η (Δλ")	220,808.40	y (for seconds of ϕ) Tabular y	2,187,127.64
ab	- 7.// - 220,801.3	$V\left(\frac{\Delta\lambda''}{100}\right)^2$	681.67
x'	500.000.00	c	//
<u>*</u>	279,198.7	<u>y</u>	2,187,809.2
$\frac{(\text{Tabular } y) + y}{2}$		$\Delta \lambda'' \sin \frac{\phi + \phi'}{2}$ $F (\Delta \lambda)^3$	
$\frac{\phi + \phi' \text{(Interpolated from 2 projection table)}}{2}$		$\Delta \alpha''$	0 / "
$\sin\frac{\phi+\phi'}{2}$		Δα	

$$x' = H\Delta\lambda + ab$$

$$x = x' + 500,000$$

$$y = \text{Tabular} \; y + V \left(\frac{\Delta \lambda''}{100}\right)^{\!\! 2} + c$$

$$\Delta \alpha'' = \Delta \lambda'' \sin \frac{\phi + \phi'}{2} + F'(\Delta \lambda'')^2$$

State Fla.	Zone East	Station8/	4 2
o		(Central meridian)	
ϕ $\Delta \phi$ (Excess of ϕ over) even 10' expressed as minutes and decimal)	΄ Δλ (C	λ	
		$\left(\frac{\Delta\lambda''}{100}\right)^2$	
Tabular_H (even 10')		Tabular V (even 10')	
Interpolated H (fraction_ of 10')	<u></u>	Interpolated V (fraction of $10'$) Cor. for second dif.	
Cor, for second dif.	+ 89	V	1 100-1-0
H	87.548025	(T-1) 1: (T-1)	-
a	700	Tabular difference of y for 1" of ϕ	
<i>b</i>	+ /0.105	y (for minutes of ϕ)	}
Η (Δλ")	220,621.02	y (for seconds of ϕ) Tabular y	1
ab		$V\left(\frac{\Delta\lambda''}{100}\right)^2$	68\$.78
<i>x'</i>	500,000.00	c	/.
x	279,386.0	<i>y</i>	2,218,116.6
$\frac{\text{(Tabular }y) + y}{2}$	-18.65	$\Delta \lambda'' \sin \frac{\phi + \phi'}{2}$	57.31
$\frac{\phi + \phi'}{2}$ (Interpolated from projection table)		$F(\Delta\lambda)^8$ $\Delta a''$	0 / //
$\sin \frac{\phi + \phi'}{2}$		Δα	

$$x' = H\Delta\lambda + ab$$

x = x' + 500,000

$$y = \text{Tabular } y + V \left(\frac{\Delta \lambda''}{100}\right)^2 + c$$

$$\Delta \alpha'' = \Delta \lambda'' \sin \frac{\phi + \phi'}{2} + F (\Delta \lambda'')^2$$

PLANE COORDINATES ON TRANSVERSE MERCATOR PROJECTION

State Fla Zone East Station 8/46			
0		(Central meridian)	
φ	΄ Δλ (C	λ	46
		$\left(\frac{\Delta\lambda''}{100}\right)^2$	
Tabular_H (even 10')		Tabular V (even 10')	
Interpolated H (fraction_of 10')		Interpolated V (fraction of 10') Cor. for second dif.	+ 2
Cor. for second dif	+ 33	V	į.
H	87.622381		
a	- 704	Tabular difference of y for 1" of ϕ	
b	+ /0.226	y (for minutes of ϕ)	
Η (Δλ")	241,837.77	y (for seconds of ϕ)	2,187,127.64
ab		$V\left(\frac{\Delta\lambda''}{100}\right)^2$	817.69
	500.000.00	c	12
x	258, 169, 4	y	2,187945.2
$\frac{\text{(Tabular } y) + y}{2}$		$\Delta \lambda'' \sin \frac{\phi + \phi'}{2}$	89.61
$\frac{\phi + \phi'}{2} \text{(Interpolated from projection table)}_{-}$		$F (\Delta \lambda)^3$ $\Delta a''$	//
$\sin \frac{\phi + \phi'}{2}$		Δα	· , , ,

$$x' = H\Delta\lambda + ab$$

$$x = x' + 500,000$$

$$y = \text{Tabular } y + V \left(\frac{\Delta \lambda''}{100}\right)^2 + c$$

$$\Delta \alpha'' = \Delta \lambda'' \sin \frac{\phi + \phi'}{2} + F(\Delta \lambda'')^{3}.$$

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-5668 (1:10,000)

Graphic Control Surveys.

Refer to page 2 of the descriptive report (T-5668).

Previous Topographic Surveys.

None in the area covered by T-5668.

Contemporary Hydrographic Surveys.

H-6536 (1:5,000) January 1939. Compared with T-5668 August 9, 1940. High water line and shore line structures are in agreement.

Described Topographic Stations.

None on this survey.

Comparison with Charts.

T-5668 is outside the area covered by charts 577 and 1243.

General.

The compilation of details on T-5668 was complete as submitted by the field party except for buildings. A number of buildings have been added in this office.

The identification of ditch and fence lines is incomplete. Inspection of the photographs indicates that all such lines shown are of a permanent nature but in some cases the classification as a ditch or fence may be confused as these were not completely covered by field inspection.

T-5668 was submitted as a rough drawing and the drafting was satisfactory. The sheet was redrawn at the Philadelphia office.

Reviewed in office by F. H. McBeth

Inspected by B. G. Jones

Examined and approved;

Chief. Section of Field Records. Chief, Division of Charts.

VTAAC

Chief, Section of Topography.

Chief, Division of Coastal Surveys.