5788

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Rev.	ADI	il	193

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Topographic Hydrographic

Sheet No. T-5789

U. S. COAST & GEODETIC SURVEY

FEB 11 1941

Acc. No.

ata Florida

LOCALITY

Gulf Florida West Coast

Vicinity of Shamrock & Cross City

and Vicinity

Photographs taken Dec. 3, 1939

*198.*41

CHIEF OF PARTY

Lieut. Kenneth G. Crosby

U. S. GOVERNMENT PRINTING OFFICE 102221

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.

SHEET

Field No. T-5789

T5789

REGISTER NO.

State Florida
State Florida Gulf
General locality Florida West Coast
Locality Vicinity of Shamrock and Cross City, Florida and Vicinite Photos.
Scale 1:20,000 Date of Formal December 3 , 19 39
Vessel Air Photographic Party No. 1
Chief of party Lieut. Kenneth G. Crosby Field Inspected by: STATEMENT by Lieut. (j.g.) George W. Lovesee
Inked by William H. Shearouse
Heights in feet above to ground to tops of trees
Contour, Approximate contour, Form line interval feet
Instructions dated, 1940
Remarks:
4.0

SUPPLEMENTARY SURVEYS

	Nemo	s Date s	Hours
Joutrol Surveys		1	
Planetable Surveys			
		Total	0
FIND INSPECTION			
Preparation of Photographs	X	1	12
Tield Worksessonssessons	GLA & GWL	Marchl-31,1940	80
Coest Pilot Motes			
Beographic Name Report	GLA & GWL	March 1-31,1940	40
Landmarks for Charts		1	
Description Cards	HAD	Dec. '40-Jan'41	4
decovery Hotos			
		Total	136
MAIN HADIAL PLOT			
Sonle Ploto	E.L.J. & R.H.Y.	July 2 & 3 1	3
Projection on Base Sheet		!	
rojection on Survey Sheet	K.G.C.	An	1
ontrol Checked	E.L.J.	Aug. 8	1
Control Trans. to Base Sheet	E.L.J. & K.G.C.	TO THE RESIDENCE OF A CORP. THE	1
ransfer Checkeds			
Control picked on Photographs:		June 26 -28 : July 10	5
iydro. & Topo. Stations picked		July 12	4
dedial points picked		July 17	15
idjacent centers picked	KGC-RHY-WHS-KWS		12
Completed second		7-19 to26&8-13:	22
Redial Plot	X-126C-12.L. 8.	8-10 to 19 1 Aug. 19	12
rensfer checked		Aug. 20	7
& T Stations scaled & checked :		Oct. 10	2
dditional Radial points			
X: rasions personnel	BOOK IN THE THE REST OF THE PARTY OF THE PAR	Total	89
DETAILING			
longh Draft	WHS	AUG. '40-JAN'41	270
mooth Draftseessessessess	"110	100. 10 0111 12	
	the refer also greater an experience of the experience of	Total	270
OMPILATION			157
ieme Overlay	WHS	Oct. 3	3
escriptive Report	WHS - KGC	Oct. 5-9	13
ield Review	KGC	Jan. 2-4	18
		Total	34
			Control of the latest of the l

PROTOGRAPHS

3712	Dog	3, 1	020		22.75	-	7.2
		Value III See also read			11:15		Inland Sheet
3713		3, 1			11:16		(no shoreline)
3714	Dec.	3, 1	939		11:17		
3715		3, 1		1	11:20		
3716	Dec.	3, 1	939		11:22		
3734	Dec.	3, 1	939		11:59		

Fide from predicted tables fort Not used (no coastline within limits of sheet)

Camera: U.S. Coast and Geodetic Survey Nine-Lens (focal length & inches.)
Negatives on file at Washington Office.

SCALE

The second of the second of	scale of	Photographs.			1:20,000 -	1.0023
Scale	of Survey	y Shest	***********	**********	1:20,000 *	

STATISTICS

Area (land	.)	*******		127.28	Square	statute	miles
Phoreline	(more than 200 (Creuks)	m. from oppos	site shore).	0		Statute	miles
Roads, str	oots, trails, s	nd railroads.	******	97.1		Statute	

REFERENCE SMOTTON

Stations PUTNAM 1933

Datum: N.A. 1927

Longitude: 83° 39' 11.896"
(366.3 m)
Longitude: 83° 10' 31.547"
(848.5 m)

(Adjusted)

Date of Survey: All details are of date of photographs, Dec. 3,
1939, no subsequent information having been given by the field inspection.

x-coordinate = 2,420,743.72 ft. } Sec.1, y- " = 240,024.68 ft. } North Zone

DESCRIPTIVE REPORT TO Accompany SHEET NO. T-5789

GENERA L

This sheet was compiled in accordance with "Instructions for Drafting Air Photographic Surveys, Project H.T. 242", dated April 3, 1940.

The general locality of the area covered by this survey sheet is Florida, West Coast, in the immediate vicinity of the towns of Shamrock and Cross City. The town of Cross City, however, does not appear within the limits of the sheet, but is just east of Shamrock which does appear.

This sheet lies entirely inland and no shoreline appears on it. While there are several kinds of vegetation, the major portion is cut-over swamp land.

Fire-breaks were omitted from this drawing.

All roads should be shown 0.6 m.m. wide, as none of the roads on this sheet are wider than 12 meters.

CONTROL

The following five triangulation stations fall within the tracing limits of the sheet:

Name of Station	Year	Established by
Cross City	1933	H. C. Warwick
Putnam Lumber Co. N. Water Tank	1933	H. C. Warwick
Putnam Lumber Co. N. Stack	1933	H. C. Warwick
Putnem	1933	H. C. Warwick
Hines	1933	H. C. Warwick

One other station is on the sheet but is outside the tracing limits. It was used for control for the main plot as well as those listed above. It is as follows: DOUGLAS, 1933, established by H. C. Warwick:

The top of station PUTNAM LUMBER CO. NL WATER TANK was picked on the photograph rather than the base. However, in detailing the surrounding area the base was located approximately and this point was used for control.

No stations established by other organizations were used for control.

No errors were found in the location of the control stations by the photographic plot nor in the plotting of the stations on the field prints.

The position of azimuth marks at triangulation station PUTNAM 1933 and CROSS CITY 1933 were determined by the radial plot and were checked by plotting the geodetic azimuth as determined by triangulation by means of a 3 arm steel protractor. The location of the marks were in agreement with the geodetic azimuth.

MAIN RADIAL PIOT

A continuous radial plot was run on August 10th. - 19th. for the location of radial points and marked hydrographic and topographic stations for the southern half of Sheet No. T-5786, Sheets Nos. T-5787 to T-5791, inclusive, and the northern part of Sheets Nos. T-5792 and T-5793. This plot involved all photographs except as noted below, which extended southward from a northern limit comprising photographs Nos. 3757, 3798 and 3720, for the three lines of flight to the southern limit formed by photographs Nos. 3832, 3833, 3866 and 3838, in the general vicinity of Cedar Keys, Florida. Office prints for photographs Nos. 3741, 3799, 3800, 3834, 3857, 3858-59, were not furnished at the time of this plot by the Washington Office as sufficient overlap of photographs adjacent to them permitted their omission.

This plot consisted of 51 templates and extended for a distance of approximately 50 nautical miles along the axis of flight. Although triangulation control in this area is somewhat meagre, there was enough to rigidly fix 12 templates. Traverse stations established by the Florida Mapping Project in 1934 were used to rigidly fix 6 additional templates. These fixed templates were so distributed throughout the plot that it facilitated the laying of 11 templates which were controlled by only two triangulation stations or, as in some instances, by three triangulation stations which formed only a weak fix. There were 18 templates on which there was but one triangulation control point and only 4 templates on which there were no control stations whatsoever. The latter, however, was accurately and rigidly controlled by radial points established by previously laid templates. All templates were prepared in accordance with "Notes on Radial Plotting of Nine-Lens Air Photographs" dated April 9, 1940 with the exception that many more radial points were located than recommended and that mask lines were not placed on the survey sheets.

It had been the practice of this party to run the plot on the base grid sheets after having transferred the control from the survey sheet. This plot was laid by this method without satisfactory results after three days of work. Investigation of the causes for such poor intersection of radial lines resulted in finding distortion which was unevenly distributed throughout the base grid sheets and which could not be completely eliminated by adjustment. These errors in several instances amounted to as much as 20 meters in 4 grid squares. These grids had been ruled four months previous to this plot and probably accounts for the present large distortion. This method was therefore discarded and the second running of the plot was made directly on the survey sheets. This was completed in $4\frac{1}{2}$ days with excellent results.

The eight survey sheets for which this main plot was to be run were securely taped to the plotting table. All templates rigidly fixed by control were then laid, followed by those which were controlled but not fixed by triangulation or traverse, and finally those which were controlled by previously determined radial points. Excellent results were obtained in securing radial intersections for the numerous points. It has been found that much time can be saved by relieving the draftsmen of the task of putting in additional radial points without a material slowing up of the process of preparing the photographs and templates.

Upon completion of laying all of the templates, the radial points were transferred to "dummy" sheets and the templates removed from the survey sheets. The radial points were then transferred to the survey sheets by matching the intersections of parallels and meridians previously pricked into the "dummy" sheet. No distortion was apparent in the projections of the survey sheets and the radial points were transferred with little, if any, adjustment.

It is believed that all radial plotted points shown on the survey sheet by 2.5 m.m. diameter blue circles on the back of the sheet or black circles on the front are within 0.25 m.m. of their true position. Points determined by two radial lines are shown by a green circle and also in some cases where there are three or more cuts with slim intersections. In several instances, a radial point could not be determined with sufficient accuracy to be used as such, in which case the actual radial lines have been drawn on the survey sheet for further investigation with the photograph by the draftsmen.

No large or unusual adjustments were necessary in any part of this plot and very good agreement was obtained with radial intersections to the picture centers on adjacent flight lines. Agreement along the flight line was excellent and a majority of the radial points were picked from a common intersection of three or more radial lines. A few of the radial points selected were pricked in the center of gravity of the triangle of error which in all cases gave a position of not more than 0.22 m.m. in distance from the sides of the triangle.

Various colored inks were used on the photographs and the survey sheet to designate triangulation stations, topographic and hydrographic stations and radial points. The following key is furnished for future reference.

Photographs

Survey Sheet

INTERPRETATION OF PHOTOGRAPHS

Some difficulty was experienced while detailing the town of Shamrock which, in the main, consists of the Putnam Lumber Company. This area appears on the edge of photograph No. 3714 which is clear. However, the only other photograph on which the area appears is No. 3713 and on this photograph it is blurred to some extent thereby hindering a good steroscopic view. In addition, difficulty was experienced in accurately locating some of the houses and streets

15789

due, in addition to the above, to large overhanging trees which completely cover areas where houses and streets are thought to be. However, since the majority of houses, buildings, and streets are detailed, it is considered to be sufficient.

All other photographs were found to be clear with no further difficulty being experienced.

FIELD INSPECTION

Field inspection was made by Lieut. (j.g.) G. W. Lovesee by truck during the month of March, 1940.

Field notes were sufficient in several parts of the sheet but extremely scarce in a majority of the other sections. However, the vegetation is rather uniform and not so difficult to interpret by comparing spots without field notes with areas where notes were plentiful. By consulting with other and more experienced draftsmen, it is believed that an accurate interpretation was made where any doubt existed.

DETAI LING

The scale of photographs No. 3712, 3714 and 3734 was found to be good, while considerable tilt was found to exist in photographs Nos. 3713, 3715 and 3716; This tilt rendered these photographs useless except for small areas.

The sheet was detailed in accordance with current instructions for the project. It was rubbed down with magnesium carbonate prior to inking the sheet.

There are no unusual conditions or adjustments.

The legend used by the field inspection party and by the draftsman is shown on a separate sheet and made a part of this report.

JUNCTIONS

This sheet joins T-5788 on the south and southwest, T-5790 on the southeast and T-5787 on the northwest. All junctions are in agreement.

COMPARISON WITH OTHER SURVEYS

As the entire area of this sheet is inland, no part touching the shoreline, there has been no previous survey made by the U.S. Coast and Geodetic Survey. Therefore, no comparison could be made.

Due to large scale differences, accurate comparisons with other maps and charts of this area were not practicable.

GEOGRAPHIC NAMES

The geographic names for this area were submitted to the Washington Office in March, 1940 by Lieut. George L. Anderson, in a special report for that section of this project field inspected by him.

Respectfully submitted,

William H. Shearouse

Draftsman

Forwarded,

Lieut. Kenneth Chief of Party

Saul 10. T-5789

T.L.J.S	•	STA	<u> </u>
À .	- Ash	Ca.	- Canal (width)
Ъy	- Prosh	O _F	- Creek
Die	- Citros	D	- Ditch
G ₂	- Cyprose	IS	- Intermittent Strong
Gua	- Our	PMU	begovernmentation aldedorf -
Cak	- Oak	3tr	- 81 rons
Pa1	- Palmeto (Field Improtion)		
inlo	- Palmette (Nough Drafting)	1.18C.	
71	- 7ine		_
h.	- 7u.in	31	- Blaff (hat the land in dies of a)
Liz	- Minet deciduens, place a appress	ble	- Bluff (Bough drefting)
		Midg	
CADE		Per	- Bridge
_	and the <u>a</u> state of the second secon	Oh	- Charan
	- 1st Class paved	Ctil	
Re-B		C.H.	- Court done (0.1.4.)
	- let Class eist road (6.L.A.)&(G.W.L.	į	
24-84		_	
	- Trail	CY	- Culture
U.T.	- Osed Trail	73	- Bire Break (width)
U.A.D.	- Used Acad (Q.L.A.)	£	- farso
والمستعدد	***	H	- llouse
Y. May a T	162	Lo	- Island (Field Inspection)
•		1	- Island (Awigh Fratting)
C .	- Dultivated	HLL	- High Vator Line
PT	- Decidara trees	io L	- Low Water Mine
7	- Plooted area	L.L.	
g _r	- Frace	02	- Overpass
703	- Tropical grass	10	- Post Office
K.	- Mestly wooded	200	- Railroad (name)
Ľ.	- March		- Sand
#g	- Messgrove	egi. Up	
\$40 41	- Sweet	ur S	- Underpass
\$ at	- Seattered	-	
NO TO		Send.	™ Maid
>	A Femá	YGS	- Floring Geodetic Survey
Cyp	- Cypress Porst	The P	- Florida Maggine Project
3	- Greer Fent	USA	- U.S. Marineers
Ď	- Intermittent Fami	ULAS	B U.S. Melogical Survey
212	- Pine Peni		THE THE THE THE THE THE THE THE THE

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Pa. 3		STALL	<u>13</u>
A	- Ash	C _m	- Canal (width)
N _T	- Brush	C _T	- Greek
014	- Citras	D	- Ditch
O _J r	- Cypress	IB	- Interest Street
Crees	Gua	PDU	- Probable draining manuscoped
Out	- Oak	Str	- Strems
Pal	- Palmette [Field Inspection]		
3030	- Palmotto (Nough Drufting)	LISC.	·
71	- Pine		mar and the second of the second of the
P)m	- Tulm	71	- Blaff (haight) And he he did no bed
MAR	- Mined decideous, pine & appress	Mt	- Bluff (Bough drofting)
		3146	
2047		Dag.	- Iridge
		OP.	- Checrete
Mark	- let Class pares	Otil	
24-6	- Rud Class road	U ₄ Bb ₄	- Court House (S.InA.)
34-34 34-61	- let Class dirt road (6.L.A.)&(G.W.L.)		
27	- And Class dist soul (Galada) - Stall	Ov	~ Oulwark
U.T.	- Used Trail	73	- Nizo Negh (wiath)
	- Used Read (G.L.A.)	f	- fands (where)
m4m8m8	- safet with Jatumen.	i	- Nove
VALUE !	Tion (l.	- Jeland (Field Inspection)
and the same same same same		ī	- Island (Bough drafting)
8	- Oultimeted	HWL.	- Mich Veter Line
22	- Deciduous trees	LIG.	- Low Water Line
n	- Flooded area	Lake	- light lime around march
G _T	- Orace	GIP	- Greenan
Tür	- Tropical grass	PO	- Post Office
TA.	- Secrity wooded	XR	- Reilyant (mace)
K	- March	8	- Band
- Mg	- Mangrove	Sch	- School
Sw	- 3mm		- Underpute
Bet	- Senttered	T	- Vater
t w	- thinly wooded	Mad	- Mud
Person			
		<u> </u>	
7	# Prest	PLS	- Florida Geodetic Survey
Cyb	- Cypress Fund		- Florida Mapping Project
	- Grancy Fund	ULL	- U.S. Ingineers
D	- Interest them Post	U. 40	8 U.S. Mological Survey
707	- Pine Funi	1	

LATE. OF LIE PROTE CONPIN DION NO. 2- 5789

Gnief of Porty: Kenneth G. Crosby

Compiled by: William H. Shearouse

Project: H.T. - 242

Instructions dated: April 5

1940

1. The charte of this eres have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Pareléa, b, c, d, e, g and i; 26; and 64)

Yes

2. Change in position, or non-existence of wherfs, 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)

Tes

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. 66; and 66 d,e)

Hene

4. Blue-prints and maps from other sources which were transmitted by the field party contain sufficient central for their application to the charts. (Pur. 28)

Hone

5. Difference 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.

Ho contemporary plane table or hydrographic surveys of this area for comparison were available.

5. 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. 185; 46; and 55 c.h.i)

Tes

7. High water line or marshy and mangrove court is clear and adequate for chart compilation. (Par. 16s, 45, and 44)

We highwater line on sheet.

- The representation of low water lines, roofs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 56, 37, 56, 59, 40, 41)

 None on Sheet.
- 9. Recoverable objects have been located and described on Form 584 in adderdance with circular 30, 1985, circular letter of March 5, 1985, and circular 31, 1984. (Par. 27, 30, and 57)

Tes

10. A list of landmarks was furnished on Form 567 and instructions in the Director's letter of July 16, 1986, Landmarks for Charte, equipiled with. (Par. 166, e; and 60)

No landmarks of use to water navigation.

- 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 maxigation is given in the descriptive report. (Par. 16e)

 No bridges of navigational importance. All bridges are small fixed span highway bridges over small streams.
- 12. Geographic names are shown on the everlay tracing. The accepted limit usage of new names has been determined and they are listed in the seport, together with a general etatement as to the source of information and a specific statement men advisorble. Demplote discussion of place names different from the charte and from the U.S. C. S. Quadrangies is given in the descriptive report, together with reasons for recommendations made. (Far. 64, and 66k)

He everlays. See special report submitted by Ment. George L. Anderson in March, 1940 entitled "Special Report on Investi-

- 15. The goldenials while of the despilation is Hai. 1927 and the reference station is coppectly noted.
- 14. According with adjoining compilations have been executed and are in agreement. (Far: 66)

Yes

- 15. The drafting is satisfactory and particular attention has been given the followings
 - 1. Standard symbols authorised by the Board of Surveys and Maps have been used throughout except as noted in the ropert. Yes, Legend used on rough draft.
 - 2. The degrees and minutes of latitude and Longitude are correctly marked.

- 3. All station points are gractly earlied by fine place dote. Yes
- 4. Classly smoot liner are draw. Care and clear for printing. Tes
- 5. Topographic symbols for similar features are of uniform weight. Yes
- 5. All drawing and been reformed where partially rubbed off. Not necessary.
- 7. Buildings are drawn with clear straight lines and square corners where such is the case on the ground. Yes

(Par. 34, 85, 56, 57, 53, 39, 40, 41, 42, 43, 44, 45, 46, 48)

16. He additional surveying is recommended at this time.

He additional topographic survey required.

17. Becarios

18. Executed and approved:

Smeety & Civily

19. Benerits after review in office!

Reviewed in office by: Restined and approved:

Chief, Section of Field Mesords

Chief, Division of Churts

Unles, Section of Field Work

Chief, Division of Mydrography

DIVISION OF CHARTS

Surveys Branch

Review of Air Photographic Survey T-5789

Comparison with other surveys

There are no contemporary graphic control or other surveys within this area. Since this survey does not include any shoreline, there are no previous topographic surveys within the area of T-5789.

Topographic Stations

Form 524 descriptions for the described topographic stations located by the radial plot are filed under T-5789.

Low Water and Shoal Lines

T-5769 is entirely inland, showing no shoreline.

Radial Plot

The radial plot is accepted as adequate without checking in this office. Se pages 2 and 3 of the descriptive report for a complete description of this plot.

Field Inspection and Detailing

The field inspection for this survey was confined largely to details visible from the roads.

All heavily wooded areas have been shown on the manuscript as swamp. Field inspection notes are not conclusive, having labelled this as "mixed, heavily wooded," but not having labelled it as swamp. It is assumed that the field party had sufficient knowledge of the area to be correct in this interpretation.

The numerous ponds in the swamp in the northern section of the survey will not be shown, as they appear to be merely wetter spots in the swamp, and as such need not be shown as distinct ponds.

13789

Comparison with Chart 180

The former surveys did not cover this area and topographic details are not shown on the present chart.

General

T-5789, which was compiled as a rough drafting, will be redrafted in this office.

Reviewed by:

L. V. Evans

6-16-41

Inspected by: B. G. Jones

6-16-41

Chief, Surveys Branch

Chief, Section of Topography

Rivision of charts

Chief, Division of Charts Section of Topography

Chief, Division of Coastal Surveys

All hydrographic signals located on this sheet are shown on the printed copies.

Remarks

Decisions

1		296831
2	Just off limits of sheet: see page 1	n
3		
4	No. 2, Fla. Transp. Map; Texaco, Shell Road Maps	
5	ıı ıı	
6	n n n n n n n n n n n n n n n n n n n)
7	Railway Guide	
8		
9	Suggest adding direction note.	
10	Suggest adding direction note. To Cross City " on U.S. 15 near Shamrock L.H.	
11	Shamrock L.tl.	
12		
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	GEOGRAPHIC NAMES			/s ^c	ies /righ	8 /	/		Mag	ALIO"	.s /
	Survey No. T578 T-5789	9	Chor	newious 5	S Wats	Tri local stor	Or loco Mari	O. Guide	Mood Metal	1.5 Jegur	/ ,
	Name on Survey	A,	E 40. Q	de C	D D	E E	or F	,°' / G	²⁰ 0€	S. K	
	Shamrock										1
	Cross City										2
<i>_</i>	the artists and the control of the c	,							<u> </u>	ļ	3
É	U.S. No. 19	-									4
-	State Highway No. 29					_					5
	State Highway No. 28	E. T. E : 1						 			6
	Atlantic Coast Line	R-R-	·					 			8
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