5785

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Sur	vey Air	Photo (Tope	graphic)
Field No	I-578 5	Office No	T-5785 (PC.:
	LC	OCALITY	
State	Florida		
General loca	lity	est Coast,	Florida.
Locality	Clearw	ater Creek	& Vacinity
Photos	raphs ta	ken Dec. 3	1939
		1 94 939	
	CHIE	F OF PARTY	
	K.G.C	rosby	
	LIBRARY	& ARCHIVE	S
DATE			

B-1870-1 (1



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,	FORM 504 Rev. April 1935 DEPARTMENT OF COMMERCE	
	U. S. COAST AND GEODETIC SURVEY	
	DESCRIPTIVE REPORT	
	Topographic Sheet No. T= 5785	
)
	A. S. SGAST & GEORETIC SURVEY LIBRARY AND ARCHIVES	
•	SEP 18 1940	
	Ass. No.	
	State FIORIDA	
	LOCALITY	
	West Coast, Florida	F
	South of Perry, Florida	
	CLEARWATER CREER	
	Photographs taken Dec. 3, 1939	
	19\$40	
·	CHIEF OF PARTY	
	Lieut, Kenneth G. Crosby	
	U. S. GOVERNMENT PRINTING OFFICE 102221	
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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.

T578

REGISTER NO. T- 5785

State Florida
General locality West Coast, Florida
Locality South of Perry, Florida Photographs
Scale_1:20,000 Date of survey December 3 , 19.59. Party
Vessel Air Photographic Party No. 1
Chief of partyLieutKenneth.GCrosby
Inked by James R.S. Billmyer
Heights in feet aboveto ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated
Remarks:

SUPPLEI LIMARY SURVEYS

ORNAM STANKE PHAYSIG		34.4	
	Исло	1940 1 Date	lloure
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dographic liame Report		March 1	40
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		Votal .	132
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cale Plot	E.L.J.	May 25	2.
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		Cotal	73
ZTATLING			
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ough Draft.	J.H.S. Billmyer	July 10-Sept.5	204
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		Potal	204
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ame Overlay		1	<u> </u>
escriptive Report	J.H.S. Billmyer	August 22	11
ield. Review	K.G.C.	: Aug. 29 - Sep.	20
		Total	
		48004	51

PHOTOGRAPHS

Mumber		Date	1	Time		Stage of Tide
3758		December 3,1939	2	12:40 P.M.	1	-0.1
3759		18		12:42 P.M.	1	-0.1
3795	1	n	1	1:49 P.M.	1	-0.1
3796	1	11		1:50 P.M.	1	-0.1
3797		•		1:51 P.M.	1	-0.1
			1		1	
					1	
			1		1	

Tide from predicted tables for: Warrior River, (Reference Station, Tampa Bay)

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

SCALE

Mean scale of Photographs	1:20,000	. 1.002
Scale of Survey Shest	1:20,000	

STATISTICS

Area (land)	***********	71.3	Square statute	miles
Shoreline (more than 200 m.	from opposite shore).	5.2	Statute	
Shoreline (Creeks)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.4	Statute	miles
Roads, streets, trails, and	railroads	130.1	Statute	miles

REFERENCE STATION

Station: WARRIOR, 1933

Datum: N.A. 1927

Letitude: 29° 57° 54.023" (1663.4 m) Adjusted Longitude: 83° 38° 51.813"

(1389.2 m)

X coordinate: 2,269,877.28'
y coordinate: 351,940.82'

to accompany

SHEET NO. T- 5785

CONTROL

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, south of Perry, Florida.

The terrain along the shore is mostly marshy with sandy patches for about half a mile inland. Most of the higher ground back of the shore consists of large areas of pine and oak with grass and small swamps. There are immumerable small ponds and cypress ponds throughout the entire area.

All of the islets along the shore are marshy.

A large part of this sheet had to be detailed by using symbols as much of the vegetation was not uniform in density. Due to the numerous cypress ponds scattered throughout the heavily wooded areas, more difficulty was had on this sheet than on the average in delineating the many patches of swamp.

Florida State Highway No. 35 has been field inspected and shown on the field prints both as a first class and second class road. It is under construction and is paved southward from the town of Perry only as far as the vicinity of Huxfords Camp. On this map drawing this highway is detailed as a second class road, from a point approximately 700 meters south of Huxfords Camp to the shore as this road is still under construction but will be paved when completed. The new location is shown and the old road disregarded south of Latitude 29° 52° 15°.

Approximate M.L.W. is shown by a dotted line, and the approximate limits of shoal areas are shown by a dashed line.

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

Fire breaks were omitted on this drawing.

These two triangulation stations fall within the tracing limits of the sheet.

Name of Station	Year	Established by
THEIMA	1933	H.C. Warwick
WARRIOR	J 933	H.C. Warwick

Two other stations fell on the sheet but outside of the tracing limits. These stations were used for control for the main plot in addition to the two listed above and are as follows:

Name of Station	Year	Established by
PINLAND	1935	H.C. Warwick
SPRING	1933	H.C. Warwick

Geodetic azimuths to the azimuth stations at stations PINIAND, THEIMA, and WARRIOR were plotted and checked after running the radial plot. The positions of the three azimuth marks are in agreement with the geodetic azimuths.

No stations established by other organizations were used for control:

MAIN RADIAL PLOT

A continuous radial plot was run for the southeast half of Sheet T-5783, Sheets T-5784, T-5785, T-5786 and the northwest quarter of Sheet T-5787.

The triangulation was plotted on the survey sheets and transferred to the grid sheets by holding to each grid square. Since both the survey sheets and the grid sheets were the same type of celluloid and were prepared on the ruling machine in the Washington Office, there was no perceptible adjustment necessary in the transfer.

Celluloid templates were prepared in accordance with "Notes on Radial Plotting Nine-Lens Air Photographs", dated April 9, 1940. The recommendation of making an ink mark on the template to indicate the position of the point on the photograph proved to be a great aid in determining which of the photographs were tilted and should be laid last on the plot. Short sections of the mak lines were drawn on the templates in blue ink. These lines were not transferred to the survey sheet for orientation purposes since more radial points were located in each chamber on the main radial plot than were recommended. The templates were laid on the base grid sheets and securely taped to the plotting table.

The radial points were transferred from the plot by placing the survey sheet over the plot and transferring the points in each grid square. The points located by three or more intersecting radials were picked on the survey sheet and circled in blue (2.5 mm in diameter) on the back. Where poor intersections occured or where only two cuts could be obtained, the radial lines were transferred to the survey sheet and inked in green on the back of the sheet for investigation with the photographs. Grid intersections were inked on the survey sheet with celluloid ink after the radial points had been transferred and checked.

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

The radial plot was controlled by 16 triangulation stations, four of which fell off the east limits of the sheets but were plotted on the base grid sheet to strengthen the plot. Eight of the 25 templates laid during this plot were fixed by three or more triangulation stations. These templates were laid first on the plot and since they were quite evenly spaced throughout the plot they formed excellent control for the remaining templates. On the second running of the plot a satisfactory agreement of radials was obtained. The centers and flight lines of adjacent templates were in good agreement. No difficulties were encountered in the laying of this plot, nor were any large or unusual adjustments necessary.

The hydrographic signals, topographic stations and radial points in the areas well controlled by sufficient photographs are believed to be located within 0.25 mm of their true position. Radial points encircled in green on the back of the sheet may be in error as much as 0.4 mm.

INTERPRETATION OF PHOTOGRAPHS

Although the photographs were clear, considerable stereoscopic inspection had to be made in order to accurately outline the many ponds and swamps on the sheet.

FIELD INSPECTION

The field inspection was made by Lieut. George W. Lovesee by truck and skiff during the months of February and March, 1940.

In several instances, due to misunderstanding, different abbreviations were noted on the field prints to indicate the same type of vegetation. The legend used by the field inspection party and that used by the draftsman have been consolidated and made a part of this report. The actual abbreviation used in each particular case has been indicated in parenthesis on the consolidated legend sheet.

As the field notes were sufficient for detailing the sheet, it is believed that the interpretation is accurate.

DETAILING

A small section of celluloid was rubbed with dry magnesium carbonate immediately prior to inking. This was employed throughout the entire drawing.

The scale of the photographs was good.

The detailing of this sheet has been done in accordance with the current instructions for the project.

In areas lacking field notes, the sheet has been detailed and the vegetation shown by comparing other areas of similar appearance by means of the stereoscope and from general experience gained during the detailing of other sheets of areas of similar vegetation.

JUNCTIONS

This sheet joins T-5784 on the west and T-5786 on the south. Both junctions agree exceptionally well.

COMPARISON WITH OTHER SURVEYS

Comparison was made with a bromide print of Topographic Sheet No. 1424-B made in 1875. The shoreline agrees very well in general, but as most of the shoreline is marshy, considerable changes are possible during 65 years.

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

GEOGRAPHIC NAMES

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

LANDMARKS

It is recommended that Humfords Fire Tower (100° high) be charted for a landmark. This tower was located in the field as a topographic station.

Respectfully submitted,

James H.S. Billmyer,

Draftsman.

Forwarded:

Lieut. Kenneth G. Crosby,

LEGERO USED ON FILED INSPLOTION AND ROUGH DRAFFING

SHEET HO. T- 5785

٠			
· • ·	TREES		STREALS
	•		a de la facilita
•	A	- Ash	On - Canal (width)
	B_{Σ}	- Brush	Gr - Greek
	910	- Citras	D - Ditch
	Cy	- Cypross	IS - Intermittent Stroam
	Com	Oum	PNU - Probable drainage uncurveyed
	Oak	- Oak	Str - Stroom
	Pal	- Palmetto (Field Inspection)	
<i>;</i> '	Palo	- Palmetto (Rough Drafting)	LISC.
		- Pine	production of the second secon
	Plm	- Palm	Bl - Bluff (height) (G.L.A.&G.K.L.
	Lix	Lixed deciduous, pino & cypress	Bir - Bluff (Rough drafting)
		Arms a dalar and	Bldg - Building
	ROADS		Brg - Bridge
		***	Oh + Church
	Da en	- let Class paved	CtR - Court House
	RA Oxago	- 2nd Class road	
	Mark (S)	- And Wisse Ford	C.H Court House (G.L.A.)
		- lst Class dirt road (G.L.A.)&(G.W.I	u• ·
,		- 2nd Class dirt rond (G. L.)	0.4
	Tr.	- Trail	Cv - Guivert
	U.X.	- Used Trail	FB - Fire Break (width)
	U.K.D.	- Used Road (G.L.A.)	f - fence
	*********		H - House,
	VECETAT	<u> </u>	Is - Island (Field Inspection)
		i garage de la companya de la compa	· I - Island (Rough drafting)
4>	α	- Cultivated	HVL - High Water Line
	DT	- Deciduous trees	LWL - Low Water Line
	7 1	- Flooded area	L.L light line around warsh
	G _r	- Grass	OP - Overpass
	TGr	- Tropical grass	PO - Post Office
	HW	- Heavily wooded	RR - Bailroad (nemo)
	N	- March	S - Sand
	Ng .	- Mangrove	Soh - School
	Sw	- Swamp	UP - Underpass
	Set	Scattered	Water
	··· •,•		Bud - Bud
٠.	POHDS		
			·
,	P	Pond	FUS - Florida Geodetic Survey
	CyP	Cypress Pond	Fap - Florida Rapping Project
	GP		4.4 **
	IP	- Grassy Pond	
		- Intermittent Pond	USBS W U.S. Biological Survey
	PiP	- Pine Pond	

LEGEND USED ON PILLA INSPIRATION AND ROUGH DRAFFING

SILVA NO. 9-5785

	TILL3		Strea	135	
	A	- Ash	O _B		Canal (width)
	B _r	- Brush			Oreek
	014	- Citras	-		Ditch
	Cy	_ Cypress			Intermittent Stroam
	Guza	_ Gum	PW.		Probable drainage unsurveyed
•	Cak	- Oak	-		Strom
	Pal	- Palmetto (Field Inspection)			TO WAS TO SELECT
	Palo	- Palmetto (Rough Drefting)	LISC.		
	Pi	- Pine	-		
,	Plm	- Palm	B1	_	Biuff (height) (G. L. n. &G. W. L.)
	liz	- Mixed deciduous, pino & cypress	Blf		Bluff (Bough drafting)
	~12.	- withit againmant brun - offices			Building
	ROADS		Brg		Bridge
	TAUTO		Op.		Church
	Raus inch	- 1st Class paved			Court House
	· Raige - ·	- 2nd Class road	-		Court House (G.L.A.)
	RA 1A	- let Class dirt road (G.L.A.)&(G.W.L.)	9 574 6		Abite unital fairetti
	RA-DA	- 2nd Class dirt rond (G. L.)		,	
•		- Trail	Cy	_	Culvert
		- Used Trail	FB		Fire Break (width)
	Π R.D.	- Used Boad (G.L.A.)	1		fence
	44-19-4	a appr Ott - India tour!	Ä		Rouse
	VECETAT	TON	Is		Island (Field Inspection)
	1 5000000	The state of the s	Ī.		Island (Rough drafting)
	a	- Cultivated	HUL		High Voter Line
		- Deciduous trees	LWL		Low Vater Line
	F1	- Plooded area	L.L.		light line around marsh
÷	G _r	- Grass".	OP		Overpass
	TGY	- Tropical grass	PO		Post Office
	Hy/	- Heavily wooded	BR		Railroad (nems)
	. N	- Karsh	8		Sand
	u _s	- Kangrove	Son		School
	S _{tr}	- Skoop	UP		Underpass
	Sct	- Scattered	ប		Vater
	200	00010100	Fad		Mad
	PONDS		*******	_	end for
	7032		•		
	P `	& Pond	PGS	_	Florida Geodetic Survey
	ĈyP .	- Cypress Pond	FAP		Florida Mapping Project
	GP	- Grassy Pond	USE		U.S. Engineers
	IP	- Intermittent Pond	USBS		U.S. Biological Survey
	PIP	- Pine Pond	4.304	_	

TOWARD OF MER PROTO COMPINATION NO. T- 5785

Chief of Party: Kenneth C. Crosby

Compiled by: J.H.S. Billmyer

Project: H.T. - 242

Instructions dated: April 5

19 40

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)

Tes

2. Charge in position, or non-existence of wharfs, lights, and opographic detail of particular importance to navigately ich affect the chart, is discussed in the descriptive resort. (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. 66; and 66 d.e.)

Hone

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)

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.

Tes

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 65 c,h,i)

Tes

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

Yes, see also No. 17

MOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph mambers refer to those in the Topographic Manual. Refer also to the pamphlet "Motes on the Compilemtion 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, 59, 40, 41)

5

9. Recoverable objects have been located and described on Ferm 524 in accordance with circular 30, 1933, circular letter of Warch 3, 1935, 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, 1954, Landmarks for Charts, compiled with. (Par. 16d, e; and 60)

Yes

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 mavigation is given in the descriptive report. (Par. 16c)

No bridges which affect navigation. All are small fixed apan highway bridges over small streams.

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 the source of information and a specific statement when adviseable. Complete discussion of place names differing from the charts and from the W.S. G. S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and 66k)

Yes, see also report "Geographic Names" by G.L. Anderson submitted to Washington Office in Mach, 1940.

13. The geographic dutum of the compilation is N.A. 1927 and the reference station is correctly noted.

Tes

14. Junctions with adjoining compilations have been examined and are in agreement. (Pap. 66j)

Yes

- 15. The drafting it 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.
 - 2. The degrees and minutes of Latitude and Longitude are correctly marked.

- 3. All station points are exactly marked by fine black dote. Tes
- 4. Closely speced lines are drawn sharp and clear for printing.
- 5. Topographic symbols for similar features are of uniform weight. Tes, legand used for rough draft.
- 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, 46)

- 16. We additional surveying is recommended at this time.

 He additional topographic survey required.
- The light line around marsh defines the outer limit of regetation visible above mean high water. The mean high water line is shown only on fast land and is represented by a heavy solid line.

18. Examined and approved:

Charles of Party Property.

19. Bomerks after review in office:

Rev! wed in office by:

Examined and approved:

Chief, Section of Field Records

Unies, Section of Field Work

Chief. Division of Cherts

Ohief, Division of Mydrography

DIVISION OF CHARTS

Section of Field Records

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-5785 April 1941

Contemporary Surveys

There are no contemporary hydrographic or graphic control surveys in the area covered by T-5785.

Previous Surveys

1424b (1:20,000) 1875

T-5785 supersedes this survey for charting purposes in the common area. Refer to page 4 for a detailed comparison.

Comparison with Chart 181 (printed 12/18/40)

T-5785 has not been applied to the chart at this date; refer to page 4 of the descriptive report regarding one landmark recommended by the field party. The form 567 submitted with the descriptive report for this landmark was forwarded to the Nautical Chart Section 4/15/41.

Topographic Stations

The stations located by the radial plot for control of hydrography are permanent and are to be shown as topographic stations.

Description on form 524 for those stations which are noted as described are filed under T-5785.

Field Inspection

Field notes for control and topographic stations are filed on form M-982 under Field Inspection sheet T-5785.

The field inspection notes on the field photographs are in general clear and complete. Certain isolated, inaccessible areas in the interior were not field inspected. The method of detailing these areas, which involve only vegetation classification, is discussed in the report.

Radial Plot

The radial plot is accepted as adequate without checking in this office. The plot is described in detail on pages 2 and 3 of the descriptive report.

Low Water and Shoal Line

The low water line on this survey was traced from photographs taken at mean low water. However, this line is subject to correction and addition by the hydrography. Because of the flat bottom in this area and the effect of wind conditions on the tides, the low water line, as seen on the photographs, may vary considerably from exact low water line as determined by soundings reduced to the low water plane from local tide observations.

Both the approximate low water line and the shoal lines as drawn from the photographs will remain on the celluloid drawing and will be transferred to the boat sheets for the use of the hydrographic party. The low water and shoal lines will not be shown on the published map T-5785 with the exception of certain oyster rocks which are labeled and indicated by dotted outline.

General

0

The descriptive report and compilation of map details are complete and the rough drawing is satisfactory for redrafting.

Reviewed by: H. D. Benson

Inspected by: B. G. Jones (4/4/41) and gan. 1943

Examined and Approved:

Chief, Section of Field Records

Chief, Division of Charts.

Chief, Topography Section. Chief, Division of Coastal Surveys.

Hydrographic stations located on colluloid manuscript but not shown on published copies addelto fileocopy in red 11-17-43

T5785

Remarks.

Decisions

	Northal No.	DCCISIONS
1	O.K. for this sheet; do not chart by name	298836
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5		n
6	Submitted to USGB: OK to apply Jug Island pending their decision.	ET 1
7	ought. dacieloue	299835
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10	Road Mapa, Sheet No. 2 Fla. Transp. Map	
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GEOGRAPHIC NAMES Survey No. T378	5	/	C, No. Of	D D A D D D	100	100	2. Carides	Was Who a Maria	A Lines / Lines	5/
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Name on Survey	/A,	B.	/c,	D	E	F	G	H	/K	/
Camp Ezell										1
Adams Beach										2
English Fish Creek										3
Island Creek										4
Clearwater Creek										5
Jug Island										6
Huxfords Camp										7
Huxfords Side Camp										8
Huxfords Fire	TUWEY									9
State Highway No. 35							1			10
			Names	underline	d in red	approved				11
			by L	Hech	¢ 011 &-	120141	1			12
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