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U.S.	FORM 504 Rev. Dec. 1933 TMENT OF COMM COAST AND GEODETIC SURV R. S. PATTON, DIRECTOR	JEY
DESCR	IPTIVE RI	PORT
Topographic Hydrographic	Sheet No.	7580 7580
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Kenneth	G. Crosby	
u.s. Govi	ERNMENT FRINTING OFFICE: 1924	. 3

REG. NO.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

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.	
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REGISTER NO. T- 5805

State	Plorida
General l	ocality Test Coast, Planton Applachee Bay
=	Entremos to St. Marks River
Scale 📑	5,000 : 5000 Date of survey January Narch . 1940
ressel	Air Photographic Party No. 2-A
Chief of p	party Kenneth G. Crosby
Field Ins	pected Lieutement George W. Lovesce
Inked by	David R. Shallenberger
Heights i	n feet above to ground to tops of trees
Contour,	Approximate contour, Form line interval feet
Instructi	ons dated, 1940_
Remarks:	See never at back
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T5805

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ontrol Surveys (Computations) E.L. Jones	#June 5,1940	4	
R.H. Young	June 10,1940	: 2	
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	Total	81	

SHEET NO. T. 5305 6- 5805

PHOTOGRAPHS

Numbe	r	a Date	1	Time :	Stage of Tide
04671 04672 04673 04674	04682 04683 04684	Jan. 15,	1940 to	O PoMe :	0.0 to -0.1 foot

Tide from predicted tables for : St. Marks Lighthouse, Florida, West Coast.

Camera : U.S. Coast and Geodetic Survey Nine-Lens (focal length 84 inches.) Negatives on file at Washington Office.

SCALE

Mean scale of Ph	otographs	0.999
Scale of Survey	Sheet	1:5,000

STATISTICS

Area (land)		The state of the s	statute	
Shoreline (more than 200 m. from opposite shore)	9.0		Statute	wiles
Shoreline (Creeks)			Statute	miles
Roads, streets, trails, and railroads			Statute	miles

REFERENCE STATION

Station: ST. MARKS LIGHTHOUSE 1933 Latitude: 50 04* 25.052*

Datum : North American, 1927

(771.4 meters) Longitude: 80 10' 47.087"

(1261.1 meters)

FLORIDA - PLANE COORDINATES - NORTH ZONE

X = 2, 101, 299.93

Y = 390, 574.74

to accompany

SHEET NO. T-5805

GENERAL.

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

The area covered by this sheet is in the general vicinity of the entrance to the St. Marks River. The terrain is flat and consists mostly of low marsh land. There are small areas of scattered pines and sand in the vicinity of St. Marks Lighthouse.

CONTROL

The projection for plotting the control on this sheet was made in the Washington Office on the projection ruling machine by D. Kass on April 30, 1940.

The control in the area covered by this sheet consists of seven triangulation stations. A hydrographic station located by C.A. Egner in 1935, namely, signal MUD, was recovered by this party and the position re-determined by the radial plot method.

The triangulation stations in this area are on the North American 1927 datum and were established as follows:

Name of Station	Year	Established by		
IND /	1935	C.A.Egner		
SPRA	1935	C.A. Egner		
CHANNEL BEACON	1935	G.L. Anderson		
LIGHTHOUSE	1933	H.C. Warwick		
FOUR MILE	1907	W.H. B.		
ST2 MARKS LIGHTHOUSE	1933	S.C. McCorkle		
MUD (U.S.E.)		U.S. Engineers		

The triangulation of the United States Army Engineers has been tied to that established by the U.S. Coast and Geodetic Survey at triangulation stations IND, SPRA, and St. MARKS LIGHTHOUSE. The coordinates of these stations are shown on the U.S. Engineers bromide prints together with the coordinates of Aids to Navigation as of March 7, 1940. (See prints No. A. 11 2. 37, 38, 39, and 40 "St. Marks River, Florida".) See B.P. Nos 34/1/# 54/14

(See ADDENDA sheet at end of DESCRIPTIVE REPORT)

There were no apparent errors in the position of the control stations in this area that were indicated by the main radial plot nor were any discrepancies in the location of control stations in excess of the allowable error of plotting, found on the field prints of the field inspection party.

MAIN RADIAL PLOT (+ Soon scale seeking) (See pata

A continuous radial plot was run for this sheet, T-5806 and T-5807. The triangulation was plotted on the survey sheets and transferred to the grid sheets by holding to each grid square. Since both the survey sheet and the grid sheet 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, 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 mask lines were not drawn on the templates as recommended, since sufficient radial points were located in each chamber for orientation purposes and since an attempt was made to pick radial points at least g inch away from the mask lines. It is beleived that these lines complicate the main radial plot more than their value. 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.

The templates for photographs 4681 and 4675 were laid first on the plot and the templates to the south and east were laid in the order in which they were best controlled. After running the plot to the south limits of Sheet T-5805 the remaining templates on Sheet T-5806 were laid to the north of photograph 4681 and 4675. On the second running of this section of the plot a satisfactory agreement of radials was obtained.

Since there was about 3/4 mile overlap between Sheets T-5806 and T-5807 and since satisfactory intersections of radials were obtained on Sheet T-5806 the radial points along the junction of the two sheets were circled on the top template and used to supplement the control on Sheet T-5807. The templates on Sheet T-5807 were then laid by holding to the radial points along the junction of the control on the sheet.

The plot on this sheet, was laid several times since there was no control in this section of the plot. The centers, flight lines and radial lines were all in good agreement.

The hydrographic stations, topographic stations and radial points in the areas well controlled by sufficient photographs are beleived to be located by this plot within 0.25 mm of their true position. In the inshore areas especially near the east and west limits of the tracing areas the radial points may be in a few cases in error by as much as 0.4 mm.

No unusual or large adjustments were necessary in the running of the plot.

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

INTREPRETATION OF PHOTOGRAPHS

These photographs were generally clear and no particular difficulty was experienced. No unusual conditions were found. Several of the photographs were appreciably out of scale and had a considerable amount of tilt.

The shoreline of the breakwater and boat basin, near St. Marks Lighthouse was taken directly as drawn on field print No. 4672 by the field inspection party, due to the absence of any other measurements.

JUNCTIONS

This sheet has a junction with Sheet No. T-5781, which has a scale of 1:20,000, on the east, south, and west sides. It also has a junction with Sheet No. T-5806, which has a scale of 1:5,000, on the north side. All junctions were satisfactory.

FIELD INSPECTION

The field inspection of this area was made by Lieutenant George W. Lovesee under the supervision of Lieutenant George L. Anderson during the month of February 1940. Classification of vegetation, roads, etc. have been taken from notes appearing on all the field prints of photographs, 1:5,000 and 1:20,000 of this area in conjunction with a detailed study and comparison by means of the stereoscope with areas of similar appearance.

Notes placed on the field prints by the field inspection party were meagre. Neither of the officers making the inspection had had previous experience in field inspection of Air Photographs.

Bench marks in this area were field inspected and recovered. Recovery Notes (Form 685) were submitted to the Washington Office by Lieutenant Anderson on March 27, 1940.

The Legend used by the field inspection party and by the draftsman are shown on a separate sheet which has been made a part of this report. In several instances, due to misunderstanding, several legends were used for the same type of vegetation. The actual legend used in each particular case has been indicated in parenthesis.

DETAILING

The detailing of this sheet is in accordance with the current instructions for this project. There are no unusual conditions requiring detailed explanation. This drawing was rubbed down with magnesium carbonate, a small section at a time as the inking progressed.

GEOGRAPHIC NAMES.

Geographic Names in this area are the subject of a special report submitted in March 1940 by Lieutenant George L. Anderson.

COMPARISONS WITH OTHER SURVEYS

Comparisons were made with a bromide print of Topographic Sheet No. 575 which has a scale of 1:20,000 and with the present chart of this area, No. 181, which has a scale of 1:80,000.

Due to the great differences in scale between the chart and the drawing a close check for discrepancies was not possible but a comparison showed large differences in the shoreline, the most important of which are:

- 1. Breakwater and Boat Basin 1/4 miles northwest of St. Marks Lighthouse.
- 2. Register Bayou on Sprague Island.
- 3. Shoreline, vicinity of Indian Point.
- 4. Shoreline, vicinity of Indian Prince Pass.

A comparison between the bromide print of Topographic Sheet No. 575 and the drawing indicated large discrepancies the most important of which are:

- 1. Breakwater and Boat Basin in vicinity of St. Marks Lighthouse.
- 2. The shoreline on the east side of East River.
- 3. Register Bayou on Sprague Island.
- 4. Shoreline on west side of Sprague Island.
- 5. Shoreline on west side of Indian Pass.

It appears that these large discrepancies are a result of obtaining a better delineation of the shoreline by use of the photographs.

LANDMARKS '

The only prominent landmark in this vicinity is St. Marks Lighthouse which is already charted.

AIDS TO NAVIGATION

Beacons in the St. Marks River have been plotted directly on the survey sheet from coordinates furnished by the U.S. Engineers. See paragraph - under "CONTROL".

Computations for the location of non-floating aids to navigation as determined by coordinates furnished by the U.S. Army Engineers have been submitted separately, together with a list of all non-floating aids in the St. Marks River.

Respectfully submitted.

David R. Shallenberger.

Air Photographic Observer, U.S.C. & G. Survey.

Forwarded.

Kenneth C. Crosby. Lieut. C & C Survey.

Chief of Party.

INCRED USED OF FIELD INSPECTION AND HOUSE DRAFFING

билит но. <u>т. 5805</u>

	Trees		STREAM	<u>5</u>
	A	- Ash	Ce Cr	- Canal (width) - Creek
	Br	- Brash	D.	- Ditch
	Cit	- Citrus	IS	- Intermittent Street
_	Cy	- Cypress	PDU	- Probable drainego warmayoy
	Gum	- Gum	Str	- Stream
-	Oak	- Oak	DAT	- Stretth
	Pal	- Palmetto (Field Inspection)	MISO.	
7	Palo	- Palmetto (Rough Drafting)	er vine	
	Pi	- Pine	B1	- Bluff (height) (Co Lo Ao & Go Vo L)
	Plm	- Palm		
	Mix	- Mixed deciduous, pine & cypress	Blf	- Bluff (Rough drafting)
			Bldg.	
	ROADS	•	Brg	- Bridge
			Oh	- Church
	34-1	- let class paved	CtH	- Court Honos
	R4-2	- 2nd class road	CoHo	- Court Rouse (G.L.A.)
	Rd-14	- let class dirt road (Golodo)&(Gol	olio i	
	Ra-2a		_	
	Tr	- Trail	GA	- Culvert
	U.T.	- Vood Trail	_ FB	- Fire Broak (vidth)
~ 1	· U.R.D.	- Used Road (G.L.A.)	\$	∞ fènce
		•	13	- House
	VEGETAT	<u>Pion</u>	Is	- Island (Field Inspection)
	3,20,2.2		I	
	C .	- Cultivated	Hyl	- Righ Vator Line
	D T	- Deciduous trees	LVL	- Low Vater Line
	71	- Flooded area	L. Lo	
	Gr	- Grass	op	- Overpass
	TG _r	- Tropical grass	P0	- Post Offico
	Ħ₩	- Heavily wooded	AR	- Bailroad (mama)
	M	- Marsh	S	- Sand
	$\mathbf{u}_{\mathbf{z}}$	- Hangrove	Sch	- School
	8ช	Swamp	UP	- Underpass
-24	Set	- Scattered	A	- Voter
		•	Lind	- Maga
_	PONDS	•		
,	P	~ Pond	FGS	- Florida Cochetic Survey
	EZO	- Cypress Pond	MP	- Florada Lopping Project
	GP	- Gressy Pond	USE	- V.S. Eigencord
-	IP	- Intermittent Pond	USBS	- U.S. Biological Strucy
	P ₂ P	- Pines Pond	-3	

LEGEND USED ON FINED INSPECTION AND ROUGH DRAFFIEG

SHIERT NO. T-5805

		•		•
	TELES		STREA	
-	A	- Ash	Ce	- Canal (width)
	Br	- Brush	Cr	- Crask
	Cit	- Citrus	D	- Ditch
	Cy	- Cypress	IS	- Intermittent Stream
	Gam	- Gum	PDU	- Probable drainage manurusy:
	0ak	- Oak	Str	- Stream
Ä	Pal	- Palmetto (Field Inspection)		
	Palo	- Palmetto (Rough Drafting)	MISC.	
	Pi	- Pine	-	
	Plm	- Palm	Bì	- Bluff (height) (G.L.A. G.V.L)
	Mix	- Mixed deciduous, pine & cypress	314	- Bluff (Rough drafting)
	HEE		Bldg	- Building
	ROADS		Brg	- Bridge
	HORAL CO		Oh	- Church
	E4-1	- let class paved	CtH	- Court House
	Rd-2	- 2nd class road	CoHo	- Court House (GoloAo)
	DATA	- let class dirt road [GoloAo]&(Gol		- sourt money (assents)
	Re-ea	- 2nd class dirt road (G.V.L.)		
	Tr	- Trail	Gw .	- Culvert
_	U.T.	- Used Trail	78	- Fire Break (width)
	U.R.D.		* \$	- fence
	(7824622)	a soud mount deserved.	é.	- House
	VEGETAT	TOU	Is	- Island (Field Inspection)
	A Variation		1.	- Island (Rough Drafting)
	C	- Cultivated	HWL	- High Water Line
	dr	- Deciduous trees	LWL	- Low Water Line
•	Fi	- Plooded area	LoLo	- light line around march
	Gy	- Grass	•P	- Overpass
	TGr	- Tropical grass	Pa	- Post Office
	HW	- Heavily wooded	RR	- Railroad (name)
	M	- karsh	S	- Sand
	Mg	- Vangrove	Soh	- School
	89	- Stain	UP	- Underpass
	Sct	- Scattered	¥	- Vater
	-0.5		Med	- Mari
	POIDS			, · · · · · · · · · · · · · · · · · · ·
	P	- Pord	FGS	- Florida Geodetic Survey
	Cyp	- Cypress Pond	MP	- Florida Mapping Project
	GE.	- Gracey Pond	USE	- Voso Engineers
	IP?	- Intermittent Pond	USES	- U.S. Biological Survey
	PIP?	- Pine-Point	Auth-Trusts	- ADMA SERVE AND ACT
		THE CONTRACT OF CO		

Page 1.

REVIEW OF AIR PHOTO COMPILATION NO. T- 5805

Chief of Party: Kenneth G. Crosby

Compiled by: D.R. Shallenberger

Project: H.T. - 242

Instructions dated: April 3, 1940

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)
- 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.

 None
- 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 or marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)

 Yes, (See #17 **
 Remarks)

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."

Page 2.

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)

No additions or deletions necessary.

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)

No bridges in area.

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 U.S. G. S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and 66k)

No overlays/ Special Report submitted by G.L. Anderson.

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

Yes

- Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j)
- 15. The drafting is satisfactory and particular attention has been given the following:
 - 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. Yes

3. All station points are exactly marked by fine black dots.

Yes

- 4. Closely spaced lines are drawn sharp and clear for printing.
- 5. Topographic symbols for similar features are of uniform weight. Legend used for rough draft.
- 6. All drawing has been retouched where partially rubbed off.

 Yes
- 7. Buildings are drawn with clear straight lines and square corners where such is the case on the ground.

 Yes

(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 additional topographic survey required.

17. Remarks:

The light line around marsh defines the outer limit of vegetation 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;

Kenneth G. Crosby,

19. Remarks after review in office;

Reviewed in office by:

Examined and approved:

Chief, Section of Field Records

Chief, Section of Field Work

Chief, Division of Charts

Chief, Division of Hydrography and Topography.

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-5805 (1:5,000)

The area covered by T-5805 is also covered by T-5781 (1:20,000) of approximately the same date.

T-5781 is to be published and since there appears to be little need for duplicating the publication of this area on the larger scale, T-5805 will not be redrafted and will not be published.

The file copy of T-5805 is a reproduction of the original rough drawing made for use of the subsequent hydrography or other needs of the Bureau. Persons outside of the Bureau requesting map information in this area should be referred to T-5781.

The regular office review is incorporated in the review of T-5781. T-5781 and the descriptive report for T-5781 contain all of the information to be obtained from the air photographic surveys of this date for charting on scales of 1:20,000 or smaller.

Descriptions of recoverable topographic stations are filed under T-5781.

Inspected by B. G. Jones

Examined and approved:

Chief, Surveys Section

Chief. Section of Topography

Chief, Division of Charts

Chief, Division of Coastal Surveys