

Form 504 Rev. April 1935

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

# **DESCRIPTIVE REPORT**

Topographic | Hydrographic |

Sheet No. T- 5781

S. S. COAST & GEOSETIC SURVEY LIBRARY AND ARCHIVES

AUG 1 1940

EE. M.

State FLORIDA

LOCALITY

5+ Marks River and Vicinity

Vicinity of Houth-of-St. Marke-Biver

West Coast. Florida

Gulf Coast = Apalachee Bay

Photographs taken Dec 7, 1939

198.40

CHIEF OF PARTY

Kenneth G. Crosby

u. s. Government printing office 102221

# 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. **T-5781**REGISTER NO. **T5782** 

State Florida
General locality West Coast Sulf Coast, Apalachee Bay
Locality Vicinity of Mouth of St. Marks River & Vicinity photographs
Scale 1:20,000 Date of Survey December 3, 1939 Party
Vessel Air Photographic Party No. 1
Chief of party Kenneth G. Crosby Field inspected . Surveyed by George W. Lovesee
Inked by James H.S. Billmyer
Heights in feet aboveto ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated
Remarks: Compiled on scale of 1:20 000
and 1:5000 see page of the desc. report.

#### DESCRIPTIVE REPORT

to accompany

SHEET NO. T- 5781

GENERAL

This sheet was compiled in accordance with "Instructions for Drafting Air Photographic Surveys, Project H.T. 242", dated April 5, 1940.

The general locality of the area covered by this survey sheet is Florida, West Coast, in the immediate vicinity of the mouth of the St. Marks River.

The terrain along the shore is mostly marshy. The higher ground back of the coast sonsists mostly of pine and grass land with scattered palms, and swamps and marshes.

All of the inlets on this sheet are marshy unless otherwise noted.

A considerable portion of this sheet had to be detailed by using symbols as a large part of the vegetation was not uniform in type and density.

The dike at the spillway on the East River was not shown as on the photographs, as field notes showed that the open channel was being filled and the river was being diverted to flow over the concrete spillway only.

Although the base of the flag pole at the U.S. Biological Survey Headquarters was not pricked on the field prints, it was shown to the compiler by one of the field inspectors as a small concrete circle which shows clearly on the photos. The flagpole is from 50 to 60 feet high.

Approximate M.L.W. is shown by dotted lines. Shoal limits are shown by short dash lines.

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

Fire breaks were omitted on this drawing.

The area covering the St. Marks River and adjacent land, shown by the 1:5,000 sheets T-5805, T-5806, and B-5807 was omitted on this sheet. This portion of the sheet will be reduced from the 1:5,000 survey and drafted by the Washington Office on T-5781. These details added to T5781 during the office review. See data record preceding this page

The following 18 triangulation stations fall within the tracing limits of the sheet:

Name of Station	Year	Established by
AUX	1907	W.H.B.
BUZZ	1935	C.A. Egner
CHANNEL BN.	1935	G.L. Anderson
FORT ST. MARKS ASTRONOMIC STATION	N 1907	W.H.B.
FOUR MILE	1907	W.H.B.
FRONT RANGE	1935	G.L. Anderson
HUNT	1935	C.A. Egner
IND	1935	C.A. Egner
LEON	1907	W.H.B.
LEON TOWER	1935	G.L. Anderson
LIGHTHOUSE	1933	H.C. Warwick
MOUND TOWER WAT WANT	1935	G.L. Anderson
PAN	1907	W.H.B.
PORT LEON	1855	S.C. McCorkle
SHIELDS	1935	C.A. Egner
SPRA	1935	C.A. Egner
ST. MARKS LIGHTHOUSE	1933	H.C. Warwick
WAK	1935	C.A. Egner

Fifteen of these stations fall within the area covered by the three 1:5,000 sheets on which the St Mark's River was compiled. See Pota Record

Station MOUND TOWER 1935 was not used for control as it was not picked on the photographs.

No stations established by other organizations were used for control.

MAIN RADIAL PLOT (1:20000 Section) (See Data Record at front of This report)

A continuous radial plot was run for this sheet, T-5780, T-5882 and for the western half of T-5783.

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, 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 mask 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 of the main radial plot than were recommended in Notes on Radial Plotting Nine-Lens Air Photographs. 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

#### m Survey Sheet

This sheet and T-5780 were especially well controlled by the 34 triangulation stations falling on these sheets. Ten additional triangulation stations falling off sheet T-5780, but adjacent to its south and west limits, were plotted and used in the radial plot to strengthen the junction with sheet T-5512. Nearly all of the photographs on these two sheets were fixed by triangulation. Photographs number 3779 and 3783 were slightly tilted, while photograph No. 3772 was found to be badly tilted. The tilted photographs were laid last on the radial plot.

Sheets T-5782 and the western half of sheet T-5783 were not as well controlled as the first section of the plot. The plot was run to photograph 3763 where it was fixed by 3 well spaced triangulation stations. Two intermediate photographs, 3786 and 3788, were also fixed by 3 triangulation stations. The triangulation station GREY MARES, 1859 was plotted on the survey sheet and used in controlling the plot since the field inspection party recovered this station within about 2 feet. The templates fixed by 3 control stations were laid first on the plot and the remaining templates were adjusted until the best agreement of radials was obtained.

No difficulties were encountered in the laying of this radial plot, nor were any large or unusual adjustments made.

MAIN RADIAL PLOT (1:5000 scale section) (See data record at the front of the report). The radial plot of the 1:5000 photographs covering the St. Marks River was made as one unit of three sheets in exactly the same manner as the 1:20000 scale plot described on the preceding pages.

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 \$\sqrt{5807}\sqrt{\text{ was laid several times since}}\text{ 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 believed 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 area 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.

Bolgones

We difficulties were encountered in the laying of this plot, nor were any large or unusual adjustments made.

#### INTERPRETATION OF PHOTOGRAPHS

The photographs were clear and no unusual conditions were found.

FIELD INSPECTION

The field inspection was made by Lieut. George W. Lovesee by truck and skiff during the month of January, 1940.

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 sheet.

Field notes are plentiful on everything but vegetation where they were very meager.

#### DETAILING

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

The scale of the photographs was good with the exception of photograph 3768 which was tilted and could not be used.

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

In areas lacking field notes, the vegetation has been detailed by comparing other areas of similar appearance by means of the stereo-scope, and from general experience in interpretating vegetation gained on the preceding project. It is believed the interpretation is accurate and areas in doubt were verified by one-tof the members of the field party who has a good knowledge of the area.

#### JUNCTIONS

This sheet joins T-5780 on the west and T-5782 on the east. All shoreline and other junctions agree remarkably well.

As the area detailed on T-5781 is split by the 1:5,000 eneets T-5805, T-5806, and T-5807, this sheet connects with the three 1:5,000 sheets on their east and west borders.

These borders were pantographed down to 1:20,000 and traced in blue on T-5781. These six junctions agree unusually well, considering the great difference in scales.

#### COMPARISON WITH OTHER SURVEYS

Comparison was made with bromide prints of Topographic Sheets

0

575 (1856), 819 (1859-60), and 820 (1859-60). The shoreline does not agree very well between the two surveys, but the general formation is the same. As practically all of the shoreline is marshy, considerable changes are possible in the course of 80 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

The most prominent landmark in this area is St. Marks Lighthouse which is already charted. It is recommended that the fire lookout tower at the St. Marks Migratory Bird Refuge be charted for a landmark. This is located by triangulation and is shown as MOUND TOWER 1935.

statement in complete

See Review at back.

Respectfully submitted,

Draftsman.

Forwarded,

Kenneth C. Crosby, Lieut C & G Survey, Chief of Party.

# LEGEND USED ON FIRED INSPECTION AND ROUCH DRAFTING

# SHEET NO. T- 5781

TREES		STREA	) <u>18</u>
4	- Ash	Ca	- Canal (width)
Br	- Brush	Cr	- Creek
Cit	- Citrus	D	- Ditch
Cy	- Cypress	IS	- Intermittent Stream
Gum	- Gum	PDU	- Probable drainage unsurveyet
<b>O</b> ak	- Oak	Str	- Stream
Pal	- Palmetto (Field Inspection)		
Palo	- Palmetto (Rough Drafting)	MISC.	
P1	- Pine		
Plm	- Palm	B1 -	- Bluff (height) (GoLoAo& GoWoL)
Mix	- Mixed deciduous, pine & cypress	Blf	- Bluff (Rough drafting)
		Blag	- Building
ROADS		Brg	- Bridge
		Oh	- Church
B4-1	- 1st class paved	CtH	- Court House
Ra-2	- 2nd blass road	C.H.	- Court House (G.L.A.)
Bd-ld	- lat class dirt road [GoLoAo]&(Gol	W.L.)	
Rd-24	- 2nd class dirt road (G.V.L.)		
Tr	- Trail	GA	- Culvert
U.T.	- Used Trail	<b>y</b> B	- Fire Break (width)
U.R.D.	- Used Road (G.L.A.)	Í	- fence
		H	- House
VEGETA	LION	Is	- Island (Field Inspection)
	<b>-</b>	I.	- Island (Rough Drafting)
C	- Cultivated	HWL	- High Water Line
DT	- Deciduous trees	TMT	- Low Water Line
71	- Flooded area	L. L	- light line around marsh
Gr	- Grass	<b>OP</b>	- Overpass
TGr	- Tropical grass	PO	- Post Office
₩	- Heavily wooded	RR	- Railroad (name)
X	- Karsh	8	- Sand
Mg	- Mangrove	Sop	- School
8w	- Swamp	UP	- Underpass
Sct	- Scattered	¥	- Water
241774		Mad	- Mad
PONDS			e de la companya de
P	- Pond	<b>FGS</b>	- Florida Geodetic Survey
CyP	- Cypress Pond	IMP	- Florida Mapping Project
G <b>P</b> ♡	- Grassy Pond	use	- U.S. Engineers
IBS	- Invermittent Pond	USBS	- U.S. Biological Survey
P485	- Příse Pěletol		<u> </u>

# SHOERT NO. T-5781

TREE'S		STREAM	<u>.</u>
A Br Cit Cy Gum Oak Pal	- Ash - Brush - Citrus - Cypress - Gum - Oak - Palmetto (Field Inspection)	Cr D IS PDU	- Canal (width) - Creek - Ditch - Intermittent Stream - Probable drainage unsurveyed - Stream
Palo Pi Plm Mix	- Palmetto (Rough Drafting) - Pine - Palm - Mixed deciduous, pine & cypress		Bluff (height) (G.L.A.& G.W.L) Bluff (Rough drafting)
ROADS Rd-1 Rd-2	- 1st class paved - 2nd class road	Brg - Oh - CtH -	- Building - Bridge - Church - Court House - Court House (G.L.A.)
Rd-ld Rd-2d Tr U.T. U.R.D.		CA -	- Culvert - Fire Break (width)
VEGETAS		H Is	• fence • House • Island (Field Inspection) • Island (Rough Drafting) • High Water Line
DT F1 Gr TGr	- Deciduous trees - Flooded area - Grass - Tropical grass	LVL L.L.	Lew Water Line. Light line around marsh Verpass Post Office
Mg Sw	- Heavily wooded - Marsh - Mangrove - Swamp	RR - S - Soh UP	Railroad (name) Sand School Underpass
PenDS	- Scattered	Wad -	Water Mud
P CyP GB: IP: P1PF	- Pond - Cypress Pond - Grassy Pond - Intermittent Pond - Pine Pond	USE -	Florida Geodetic Survey Florida Happing Project U.S. Engineers U.S. Biological Survey

19 40

# REVIEW OF AIR PHOTO COLPILATION NO. T- 5781

Chief of Party: Kenneth G. Crosby

Compiled by: James H.S.Billmyer

Project: H.T. - 242

Instructions dated: Apr. 3,

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. (Parolés, 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 maxigation which affect the chart, is discussed in the descriptive report. (Par. 26; and 66 g. n)

#### Yes

3. Ground surveys by plane table, sectant, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, at all such surveys are discussed in the descriptive report. (Far. 65; and 66 d,e)

#### Kone

4. Blue-prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the chartes [Par. 28]

#### None

5. Efference 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 reports.

#### 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. (Parel 12b; 44; and 65 c,h,i)

#### Yes

7. High water line or marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16s, 43, and 44)

#### Yes, see also No. 17

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

B. The representation of low water lines, resfs, 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, 1935, circular letter of March 5, 1935, and circular 51, 1954. (Parc 29, 50, and 67)

#### 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)

#### 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 navigation is given in the descriptive report. (Par. 180)

Not important to navigation, all small fixed highway bridges.

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, tegether with a general statement as to the 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)

Yes, see also report "Geographic Names" by G.L. Anderson Permarked to Office in March 1940

15. The geographic datum of the compilation is a. 1927 and the reference station is correctly noted.

#### Tes

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:
  - Standard symbols authorised by the Board of Surveys and Maps have been used throughout except as noted in the report.
     Yes
  - 2. The degrees and minutes of Latitude and Longitude are correctly market. Yes

1800 T 180 T 5781	4	
SUPPLEADING MY CURVEYS :	1940 : Date :	dours
Control Surveys	1 1	
Planotable Surveys		
FIRED INSPERVIOR	Tetal	0
Preparation of Photographs Campacoffice per Field Work	Janl - Feb	70
Lendmarks for Charts G.L.AG.W.L.	s March s	30
Demoription Cards		
Becovery Notes		
	Total	116
Main Radial Plot		
Scale Plot	April 17  April May 1  May 1  May 2  May 2  May 2  May 2  May 4  May 4  May 4  Sune 4; July 7  Sune 18	29 227 4 4
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DETAILING	2√tal	264
Rough Draft	1	121 / 7
COMPTLATION	Total	121
Mame Overlay J.H.S. Billmyer	July 6	6
Descriptive Report J.H.S. Billmyer	1 July 3-9 1	8
Field Review K.G. Crosby	July 16	9

hours.

524

#### PHOTOGRAPHS

Number	Date	: Time :	Stage of Tide
3768 3769 3770 3784 3785	Dec. 3, 1939	12:58 P.M. 1:00 P.M 1:01 P.M. 1:38 P.M. 1:39 P.M.	-0.1 Ft.

Tide from predicted tables for: St. Marks Lighthouse

Camera: U.S. Coast and Geodetic Survey Nine-Lens (focal length 8 inches.) Negatives on file at Washington Office.

### SCALE

Mean scale of Photographs	1:20,000	: 0.999
Scale of Survey Sheet	1:20,000	

#### STATISTICS

Area (land)	38.0 20.6 89.2 20.6 25.0	Statute Statute Statute Statute	miles miles miles
REFERENCE STATION	2000		

Station: MOUND TOWER, 1935 Latitude: 30° 05' 16.124" (496.5 meters)

Datum: North American, 1927 Longitude: 84° 09° 46.414" (1242.qmeters)

Florida Plane Coordinates (Section 1) x = 2, 106, 615.6 y= 395,748.2

- S. All station points are exactly marked by fine black dots. Yes
- 4. Closely spaced lines are drawn sherp and clear for printing. Yes
- 5. Topographic symbols for similar features are of uniform weight.
  - Yes, legend also used for rough draft 6. All draving 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.

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

No additional surveying is recommended at this time. 16°

No topographic surveys required

17. Remarks

18. Examined and approved:

Through of Guell Chief of Phirty

#### DIVISION OF CHARTS

#### Section of Field Records

# REVIEW OF T-5781

Refer to the data record at the front of the descriptive report regarding the compilation of T-5781, and the disposition of the 1:5,000 scale surveys made for control of the future hydrography.

There are no contemporary topographic or hydrographic surveys in this area. The last surveys by this Bureau were made in 1935.

### Previous Planetable Surveys

T-575 (1:20,000) 1856. T-5781 supersedes the section of T-575 which it covers. T-6350 (1:5,000) 1935. T-6351 (1:5,000) 1935.

The 1935 surveys were compared directly with the original 1:5,000 scale celluloid compilations of the St. Marks River section of T-5781. The 1935 surveys covered only the shoreline and hydrographic control from the entrance of the river to Lat. 30° 08'. Differences in location of shoreline are generally small and not significant. In a few cases where the differences amount to from two to three millimeters they are largely due to interpretation. In these cases the shoreline on T-5781 is covered by adequate field inspection and is correct. The shoreline is much more detailed on T-5781 than on the planetable surveys. Topographic stations on the 1935 surveys which were definitely recovered and located on T-5781 agree in position within 0 to 0.3 mm. with the exception of station MUD, U.S.E. for which there is a difference in position of .1 mm. The position on T-5781 was computed from the U.S.E. coordinates and plotted by G.P.'s. The computation has been checked in this office and the position is accepted as correct in preference to that shown on the planetable survey.

#### Chart 181

T-5781 has not been applied to the chart at the date of this review, September 24, 1940. The land mark list (3 sheets form 567) submitted with this report has been turned over to the Nautical Chart Section.

Fixed aids to navigation in the St. Marks River were reported in Chart Letter 364, 1940 and are shown on T-5781.

The low water and shoal lines on this sheet were traced from photographs taken at mean low water. However, these lines are subject to correction by the Hydrography. Because of the flat bottom in this area and the possible effect of wind conditions on the tide, the low water line as seen on the photographs may vary considerably from that determined by soundings reduced to exact low water.

The shoal line and low water lines will not be shown on the published maps with the exception of certain oyster bars which seem quite definite on the photos.

The shoal lines and low water lines will be transferred to the hydrographic boat sheet.

#### Radial Plot

The 1:20,000 scale radial plot for T-5781 was checked in this office and is satisfactory. See the review of T-5780 for details.

The 1:5,000 scale radial plot covering the St. Marks River area was also checked in the office. The check plot was made in exactly the same manner as the field plot. Agreement was very close, 0.0 to 0.5 mm. on all points, except for the area from St. Marks to the top edge of the sheet. In this section the plots differed on the 1:5,000 scale sheets by from 0.5 mm. at St. Marks to 1.5 mm. at the north edge of the sheet. This section of the plot was extended beyond ground control so that there was no check available on ground control. The differences are apparently due mostly to small errors in the identification of the ground control due to inadequate field inspection. In a number of cases the field inspection gave no scale measurements for the reference distances at the control stations leaving some uncertainty as to the identification of the control. A better stereoscope was available in the office for transfer of photo centers, and a few of the base line azimuths were changed slightly from the positions laid down by the field plot.

Without a ground check there is no way to determine specifically which plot is correct. The office plot was accepted solely because it tied in better with points from the 1:20,000 plot in this area. The north section of T-5781 above St. Marks was corrected accordingly.

## General

The Descriptive Report and compilation of map details are complete and satisfactory.

Reviewed in the office by L. C. Lande.

Inspected by B. G. Jones, September 24, 1940.

Chief, Surveys Section

Chief, Section of Topography

Chief, Division of Charts

Chief, Division of Coastal Surveys

Survey No.	,	,	Chart	region /	2 No02	V. Co. sic.	, colum	Guide,	Not ,	/ jun	/
T-5781No Name on Survey	• 1	A,	Chorr C	C.	D D	or representation E	orlock F	S Gilde G	And H	J.S. K	
St. Marks River	V										_
Wakulla River											
East River	v										
Phillips Lake	-					ļ				<u> </u>	
Mounds Pond							<u> </u>		*-		
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Remarks.

Decisions

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25	Railway Guide	
26	Texaco Road Map, 1941	
27	Texaco Road Map, 1941	
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GEOGRAPHIC NAM Survey No.	ES		/	or or or	D. Wold A.	1º /	1	O. Joseph Control	Wed Hold Hold	ALIOS /	5/
T-5781No.	2	/	Chor O	Oreitous.	7. Wag	or de die	Or local Made	Cuide	NONCH	1. Signatural Signatura Signatural Signatura Signatural Signatura Si	
Name on Survey		A,	10 B	C,	D	E	or F	G	H	S. K	/
Apalachee Bay	1/	7									
	/										2
Goose Creek Bay	V										3
Big Cove Indian Pass	V	7									4
Big Pass	N	/									5
Little Pass	/										6
Johns Cove	1	1									7
K, tchen Cove	V	1									8
Sand Cove	-	1									9
yeng vovo											10
St. Marks	V										11
Port Leon	1										12
1010 3000							48				13
Palmetto Island	1										14
Pelican Point	/										15
Four Mile Point	~										16
Sprague Point	/	7,111									17
Allround Point	1										18
Indian Point	V		7								19
Sprague Island	1										20
Gibbs Island	1										21
Johns Island	/										22
Gass Island	/										23
		/	- X	ailroa	d. (19	53)					24
Seaboard Air Line	Rai	lway	/	197							25
St. Mahne Migrato			fuge								26
State Highway No		1									27
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·	GEOGRAPHIC NAMES Survey No. T-5781-~-No. 3	6	No. Of	de C.	of later of the la	St. Interested	Dr. loca Maga	Carided	Mag McRoll	J.S. Light L	*//
	Name on Survey	<u> A,</u>	<u>∕ B,</u>	/ C,	<u> </u>	/ E	/ F	<u> </u>	<u>/ H</u>	<u>/ K</u>	
	Following listed if in place them on this has	is de	sired	to							1
·		<u></u>									2
	East Bank		·								3
	West Bank										4
	Long Bar								<u> </u>		5
	Spray Bar									<u> </u>	6
	Sprague Point Bar								_		7
	Folly Bar		·								8
	Rock Bar										9
	Coon Bottom Bar							i			10
	Grass Island Bar					4 20	LOS d				11
	Jones Bar		Γ.	'ernes U	ાતું કા માર્ગ	8)	13)411	·	1		12
•	Jolles Dar			hy i	Heck	on 8		<u> </u>		·	13
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	Spanish Hole										15
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## PLANE COORDINATE GRID SYSTEM

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

Positions plotted by 5. Kass
Positions checked by 5 Kgss
Grid inked on machine by S. Koss
Intersections inked by
Points used for plotting grid:  F/a. (No.)
9=30°12'34.62" X: 2,090,000
θ = 30°12'33.75" x = 2,120,000 λ = 84° δ7'12.39" <del>y</del> = 440,000
9:30°07'37.36" x = 2,100,000 x N=84°11'01.27" Y = 410,000 y
9: 002' 40.66" x: 2,090,000 x 12' 55.99" y 380,000 y
Triangulation stations used for checking grid: (none)  Reference Station
1. Marks Lighthouse 1. 6-30-09' 25 052" +433 1: 64010 47.087" -2. 6.
Jound Tower, 1935 3. 0 = 30°05' 16.1Z4"  7. x=2,106,615.6'  N=84009' 46.414"  y= 395,748.2'
48.

# DATA RECORD T-5781 (1:20,000)

(Prepared in Washington Office 9/24/40)

Nine lens photographs as follows:

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Number	Scale	Date	Time	Predicted Tables
3768 to 3770	1:20,000		1:00 P.M.	-0.1 ft.
3784 to 3785	1:20,000	12-3-39	1:38 P.M.	
4671 to 4690	1:5,000	1-15-40	12:20 to	0.0 to
	-		12:45	-0.1 ft.

Field Inspection: January - February 1940

Details on T-5781 are of the date of the photographs except for triangulation and topographic stations. Topographic stations were identified on the photographs by the field inspection and located by the radial plot.

Datum Station: St. Marks Lighthouse 1933, NA. 1927 Datum
Latitude 30° 04' 25.052" (771.4m)
Longitude 84° 10' 47.087" (1261.lm) (Adjusted)
Florida system of plane coordinates, (N zone) Section 1
X coordinate = 2,101,299.93 ft.
Y coordinate = 390,574.74 ft.

As submitted from the field, the St. Marks River and a narrow area along either side of the river were not shown on T-5781 having been compiled on the larger scale surveys T-5805 to T-5807 (1:5,000). While the 1:5,000 scale surveys are needed for the subsequent hydrography, there appears to be little need for publishing maps on that scale. Therefore, the details on T-5805, T-5806 and T-5807 will be shown on T-5781 (1:20,000) and the 1:5,000 scale surveys will not be published.

Pertinent facts from the descriptive reports T-5805, T-5806 and T-5807 have been entered in the descriptive report T-5781 to make the latter report complete for the area covered.

#### ADDITIONAL INFORMATION ON CONTROL

The geographic positions of beacons and lights and all U. S. engineer stations shown on T-5781 were converted to G.P.'s from coordinates furnished by the U. S. engineers and plotted on the sheet. Computations of G. P.'s for lights and beacons were submitted to the Washington office June 18, 1940, together with a list of the aids, and engineer blue prints showing the coordinate values. (Chart letter 364, 1940 and B.P. Nos. 34111 to 34114.)

The triangulation of the U.S. Army Engineers has been tied to that established by the Coast and Geodetic Survey at Stations IND, SPRA, and ST. MARKS lighthouse.

The engineer positions were not used to control the photographic plot, as the accuracy of their location is not known. They are shown as topographic stations on T-5781.

Note: (Added in office September 24, 1940). Station MUD,  $\overline{U.S.E.}$  was shown on T-5781 by a triangle, but has been changed to a circle in this office, as no position is on file in Geodesy and the station was apparently computed and plotted from the Engineer coordinates.

From the preceding paragraphs on this page it appears that the engineers stations including the lights and beacons were plotted on T-5781 without connections to C. and G. S. triangulation, except at the stations listed under the first par. above, and except for a connection to Beacon 30 as made by the radial plot. In this case there would be no check on the accuracy of the engineer positions north of Lat. 30° 06.8'. Actually the engineer blue prints listed above give coordinates for C. and G. S. station Buzz in the vicinity of St. Marks. This position has been converted to G.P.'s in this office and checks the C. and G. S. positions within less than 1 meter.

A number of beacons show clearly on the photographs, but they were not tied in with the radial plot apparently because some of them had been moved since the photographs were taken.

Fort Marks astronomic Station 1907 is a Latitude Station only as listed in Special Publication 110. This description does not state how the position plotted on T-5781 was obtained. The G.P. has been computed from Engineer Coordinates in this office and checks to position plotted by the field party. The station symbol has been changed from a triangle to a circle.