5782

Form 504
Rev. Dec. 1993

DEPARTMENT OF COMMERCE

	U.S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR
	DESCRIPTIVE REPORT
	Topographic Sheet No. T-5762
52	E. S. CRAST & GEODETIC SURVEY LIBRARY AND ARCHIVES
	AUG 1 1940
	State Ploride, Gulf Coast Apalachee Bay LOCALITY
	Aucilla River and Vicinity
	West Coast of Florida
· · · · · · · · · · · · · · · · · · ·	
	Photographs 1980 taken Dec 3,1939

Kenneth G. Crosby

Ú.S. GOVERNMENT PRINTING OFFICE: 1934

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.

REGISTER NO. T-5782
tate
eneral locality Foot Coast Florida. Gulf Coast, Apalachee Bay
ocality Ancilla River and Vicinity
cale 1:20,000 Date of survey February , 19 40
Air Photographic Party No. 2-A
hief of party Kenneth G. Crosby
eld Inspected Lieutenant George W. Lovesec
nked by
eights in feet above to ground to tops of trees
ontour, Approximate contour, Form line interval feet
nstructions dated April 3 , 19 40
emarks:

Supplicationay	SURVEYS

Supplicationy surveys				•
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escriptive Report	J.A.GK.G.C.	June 10		10
iold Review	K.G.C.	June 17-21		24
		Total	-	48

PHOTOGRAPHS

3765 3786 1:02 p.m 0.1	Munber		s Date	: Time :	Stage of Tide
3767 3788 Dec. 3, 1939 1:41 p.m.	3765 3766 3767	3786 3787 3788	Dec.3, 1939	1:02 p.m. to 1:41 p.m.	- 0.1

Tide from predicted tables for : Entrance , Aucilla River, Florida

Camera : U.S. Coast and Geodetic Survey Nine-Lens (focal length 6 inches.) .
Negatives on file at Washington Office.

Field Inspection: Jan. and Feb. 1940.

SCALE

STATISTICS

Area (land)		statute	
Shoreline (more than 200 m. from opposite shere)		Statute	
Shareline (Creeks)	**	Statute	
Roads, streets, trails, and railroads	28.9	Statute	miles

REFERENCE STATION

Station : WACISSA 2, 1933

Datum # North American 1927

X coordinate: 2, 161, 045.20 y coordinate: 398, 098.68 (ad justed)
Latitude 130° 05' 37.382" (1151.1m.)
Longitude 183° 59' 26.740" (716.0m.)

Photographs, Dec. 3 19 39 except for tringulation Photographs, Dec. 3 19 39 except for tringulation and topographic atations. I opographic atations were the identified and marked by field inspection in Jan. 1940

DESCRIPTIVE REPORT

to accompany

SHEET NO. T-5782

GENERAL

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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 Aucilla River. The terrain, generally, is flat and wet, either swamp or marsh, save for occasional dry areas found inland. The entire shoreline is made up of marsh lands. The vegetation consists of cypress, gum, oak, pine, bay, palmetto and palms:

CONTROL

There are two control stations on this sheet, namely, triangulation stations FLINT, 1933 and WACISSA 2, 1933, both of which were established by Lieutenant H.C. Warwick in the year stated and both are on the North American 1927 datum.

No errors were found in the location of control stations by photographic plot nor in the plotting of stations on field prints. No stations established by other organizations were used for control.

MAIN RADIAL PLOT

A continuous radial plot was run for this sheet and sheets T-5780, T-5781 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 these were 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 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 use.

Photographs

Triangulation stations......2.5 mm blue circle Hydro. & Topo. stations.....2.5 mm green circle Radial points (main plot)....2.5 mm red circle Radial points (additional)....5.5 mm red circle Photograph centers.......double red circle

Survey Sheet

Sheets T-5780 and T-5781 were especially well controlled by the 34 triangulation stations falling within their limits. 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. 5772 was found to be badly tilted. The templates from the tilted photographs were laid last on the radial plot.

Sheet T-5782 and the western half of Sheet T-5785 were not as well controlled as the first section of the plot. The plot was run to photograph No. 3763 where it was fixed by three well spaced triangulation stations. Two intermediate photographs, 3786 and 3788 were also fixed by three 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 three 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 plot, nor were any large or unusual adjustments made.

INTERPRETATION OF PHOTOGRAPHS

The photographs in general appeared darker than is conducive to ready interpretation. It is probable this condition resulted, in part, from the general wetness of the terrain in this area.

In some instances poorly matched junctions were found between chambers. No unusual conditions were found.

FIELD INSTPECTION

The field inspection was done by Lieutenant George W. Lovesee under the supervision of Lieutenant George L. Anderson. This was accomplished by truck and skiff during the month of February, 1940.

In several instances, due to misunderstanding, different abbreviations were noted on 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 paranthesis on the consolidated legend sheet.

Field notes were meagre for this area due to the field inspection party having had no previous experience with the inspection of Air Photographs.

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

DETAILING

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

No unusual conditions were encountered as to scale of photographs. The upper end of Aucilla River, in the vicinity of Nutall Rise, disappears underground for short distances

The detailing of this sheet has been done in accordance with 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 on the preceding project.

Some of the large swamp areas have been "logged" or cut over. The new growth as seen under the stereoscope is of brush height and so has been labeled "SW.(Br.)".

The boundary line of the St. Marks Migratory Bird Refuge in the vicinity of the Aucilla River is approximate since the data obtained

from the headquarters of the reservation was also approximate.

In areas of grass, scattered pine, palm and scattered clumps of trees it was found to be of decided advantage to detail the entire area instead of attempting to outline and label each small area in the rough draft manner. As much as two square miles were inked in an hour by employing the former method in these areas having scattered vegetation.

JUNCTIONS

This sheet joins Sheet T-5781 on the west and T-5783 on the east. As neither of these sheets have been delineated a statement regarding the junctions can not be made at this time. Reference should be made to the descriptive reports of the above mentioned sheets regarding junctions with this sheet.

COMPARISON WITH OTHER SURVEYS

Comparison was made with bromide prints of Topographic Sheet No. 819 and 1474-a. Only minor differences were found and these likely resulted from the earlier control not being as good as the present. On No. 1474-a the shoreline of the Aucilla River was found to be almost identical with the present survey. Possibly there have been cultural changes and some shoreline changes, in areas which are susceptible to erosion by stream flow.

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

GEOGRAPHIC NAMES

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

LANDMARKS

There are no prominent landmarks on this sheet. Two bird racks used for the collection of guano appear on the photographs in the area covering the scutheastern portion of this sheet. They are 12 and 22 miles from shore respectively, 12 feet above high water, each having a top 22° X 28° and are supported by several 6" piling. These racks have been located on the sheet by the radial plot method, and should prove to be an aid to the inshore hydrography.

Respectfully submitted,

Desse A. Gile

Draftsman

Parwarded

Chief of Party

LEGERD USED ON FIELD INSPECTION AND ROUTH DRAFTING

SHERT NO. T. 5782

Treps		STREAL	.
A Br Cit Cy Gum	- Ash - Brush - Citrus - Cypress - Gum - Sak - Palmetto (Field Inspection)	Ca Cr D IS PDU Str	- Canal (width) - Creek - Ditch - Intermittent Stream - Probable drainage ansurveys - Stream
Pal Palo Pi	- Palmette (Rough Brafting) - Pine	MISC.	- Bluff (height) (GaloAoda G. Woll)
Plm Mix	- Palm - hixed decidnous, pine & cypress	Blog	- Bluff (Rough drafting) - Building
ROADS Bd-1	- let class pared	Brg Oh C t H	- Bridge - Church - Court House
Bd-2 Bd-1d	- 2nd class road - lst class dirt road (G. L.A.)&(G.)	C.A. (.L.)	- Court House (Go Lo Ao)
Ba-24 Tr U.T.	- 2nd class dirt road (GoVolo) - Trail - Used Trail	C4	- Culvert - Fire Break (width)
u.R.D. Vegeta	- Used Road (G.L.A.)	f H Is	- fence - House - Island (Field Inspection)
C DT	- Oultivated - Decidnous trees	i. EVL LNL	- Island (Rough Drafting) - High Water Line - Low Water Line
Pl Gr	- Flooded area - Grass - Tropical grass	lo lo 62 P6	- light line around marsh - everpass - Post effice
TGT NW M	- Heavily wooded - Karsh	RR S Seh	- Bailroad (name) - Sand
<u>us</u> Su Sct	- Mangrove - Swamp - Scattered	UP W	- School - Underpass - Water
PONDS		Mad	- Man
P CyP GP TP	- Pond - Cypress Pond - Grassy Pond - Intermittent Pond	FGS FMP USE USES	- Florida Geodetic Survey - Florida Mapping Project - U.S. Engineers - U.S. Biological Survey
PIP	- Pine Pont		-

LEGEND USED ON FIELD INSPECTION AND ROUGH DRAFFING

SHEET NO. T-5782

THEES		STREAMS
A Br Cit Cy Cum Oak Pal	Ash Brush Citrus Cypress Gom Oak Palmetto (Field Inspection)	Ca - Canal (width) Cr - Creek D - Ditch IS - Intermittent Stream PDU - Probable drainage sucurvey. Str - Stream
Palo Pi Plm Wix	- Palmetto (Bough Drafting) - Pine - Palm - Mixed deciduous, pine & oppress	Bl - Bluff (height) (G. L. A. & G. W. Blf - Bluff (Bough drafting) Bldg - Building
R4-1 R4-2 R4-14	- let class paved - 2nd class road - let class tirt road (G.L.A.)&(G.V	Brg - Bridge Oh - Church OtH - Court House CoHo - Court House (GoLoAo)
Rd-2d Tr U.T. U.R.D.	- 2nd elass dirt road (G.Y.L.) - Trail - Used Trail	Gw - Culvert FB - Fire Break (width) f - fence H - House
VECEN	Plant .	Is - Island (Field Inspection) Io - Island (Rough Drafting)
G DT F1 Gr TGr HW M M St Sot	- Cultivated - Decidness trees - Flooded area - Grass - Tropical grass - Heavily wooded - Marsh - Mangrove - Swamp - Scattered	HTL - High Water Line LHL - Lew Water Line Lule - light line around marsh OF - Overpass FO - Peet Office RR - Railroad (name) S - Sand Seh - School UP - Underpass W - Water
PONDS		Med - Med
P CyP CP IP	- Pond - Cypress Pond - Grassy Pond - International Pond - Pine Pond	FGS - Florida Geodetic Survey FMP - Florida Mapping Project USE - U.S. Engineers USBS - U.S. Biological Survey

1340

REVISE OF AIR AREA OF PILATICE NO. T- 5782

Chief of Party: Yenneth G. Group?

Compiled by: Jesse A. Giles

Project: NoT. - 242

Instructions duted: Apr. 3

The charts of this area have been exemined and topographic information necessary to oring the charts up to date is shown on this compilation. (Paralés, b, c, d,e,g and i: 26; and 64)

Yes

2. Change in position, or non-existence of wheris, lights, and other topographic detail of particular importance to having tion which affect the chart, is discussed in the descriptive report. (Par. 26; and 66 g, n)

Yes

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

None

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

None

5. Ifference 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.

. If are discussed in the descriptive reports.

Yes

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. (Parallels 44; and 66 c.h.4)

Yes

7. Wigh water line or marshy and mangrove coast is clear and adeuate for chart complication. (Par. 16s, 43, and 44)

Yes, see also No. 17

MOTH: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Famual. Befor also to the pamphlet "Notes on the Compilet! In of Planimetric Line Maps from Five Lens air Photographs."

Bo The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Paro 36, 37, 38, 39, 40, 41)

Yes

Recoverable objects have been located and described on Form 524 in accordance with circular 30, 1935, circular letter of Earch 5, 1933, and circular 31, 1954, (Par. 29, 50, and 57)

Tes

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 landmarks in this section.

11. All bridges shown on the compiletion 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. 160)

There are no bridges important to navigation; all small fixed highway bridges, except R.R. bridge on Aucilla River.

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)

Tes, see report "Geographic Names" submitted by
G.L.Anderson. Report cent to Office March 1940.

15. The geographic datum of the compilation is N.A. 1927 and the
reference station is correctly n ted.

Yes

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

Junctions with other sheets are not yet compared as they have not been detailled. See descriptive reports for adjoining sheets.

- The drafting is satisfactory and particular attention has been given the following:
 - 1. Standard symbols authorised 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

- So All station points are exactly marked by fine black dots. Yes
- 4. Closely spaced lines are drawn shorp and clear for printing. Yes
- 5. Topographic symbols for cimiler features are of uniform weight. Yes, legend 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. Yes
- (Per. 54, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48)
- No additional surveying is recommended at this time. 16°

No additional topographic survey required .

17. Remarks

is shown only on fast land and is represented by a heavy solid line. vegetationvisible above mean high water. The mean high water line The light line around marsh defines the outer limit of

18. Examined and approved:

Kenneth of Groady Chick of Repty

DIVISION OF CHARTS

SURVEYS SECTION

Review of Air Photographic Survey T-5782 1:20,000

There are no recent topographic or hydrographic surveys covered by T-5782.

Comparison with Former Topographic Surveys

T-819 (1860) 1:20,000

T-5782 supersedes the section of T-819 which it covers.

Comparison with Chart 181 (1:80,000) 8/3/39

Chart 181 does not show all of the shoal areas and is not complete for the interior details.

T-5782 has not been applied to Chart 181 at the date of this review.

There are no landmarks within the area

The low water line on this survey was compiled from photographs taken at low water. However, this line is subject to correction 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 that determined by soundings.

The shoal lines and low water line except for a few oyster bars will not be shown on the published map T-5782. They will be retained on the celluloid for transfer to the hydrographic boat sheets.

Radial Plot

The plot was checked in this office and is satisfactory. See review of T-5780 for details.

General

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

Field inspection was adequate with the exception of the notations regarding vegetation. Omissions in this case were not of sufficient importance to warrant additional field inspection.

Reviewed in the office by - L. C. Lande, 8/40 Inspected by - B. G. Jones, 9/23/40

Examined and approved:

Chief, Surveys Section

Chief, Division of Charts

Chief, Section of Hydrography

Chief, Division of Coastal Surveys

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log y<u>"</u>

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 $y = y' + 2R \sin^2 \frac{\theta}{2}$

y'= the value of y on the central meridian for the latitude of the station

S = log of ratio for reducing arc expressed in seconds to sine(see log tables)

R, y', and θ are given in special tables

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Plane coordinates on Lambert projection

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 $y = y' + 2R \sin^2 \frac{\theta}{2}$

y' = the value of y on the central meridian for the latitude of the station

S = log of ratio for reducing arc expressed in seconds to sine (see log tables)

		`
	7)
/	/	_

Plane coordinates on Lambert projection

		i lane coordinates		,	2,1	50,000
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		φ = 30° 07′	35.66	$\lambda = 84^{\circ}$	oľ 3ľ.9)]
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_R		36,045,237	<u> у′</u>			
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log R	<u>.</u>			R sin $\frac{\theta}{2}$	<u> </u>	
_log x'	D		11	_R sin² <u>€</u>		
_x′	R sin <i>⊕</i>	2 000 0000	log R		-	20102000
	<u> </u>	2,000,000:00	11		 -	30103000_
х	<u></u>		log y <u>"</u>	ļ.·		
	<u> </u>	l	.11	J	L	

 $x = 2,000,000.00 + R \sin \theta$

 $y = y' + 2R \sin^2 \frac{\theta}{2}$

y' = the value of y on the central meridian for the latitude of the station

S = log of ratio for reducing arc expressed in seconds to sine (see log tables)

4

Plane coordinates on Lambert projection

		ч 0.	٨/		2,	130,000
ļ 		State Fla	, / /	Station		380,000
		φ = 30° 02'	39.46	$\lambda = 84^{\circ}$	05° 20.	88
		Tabular differenc				· · · · · · · · · · · · · · · · · · ·
			· · · · · · · · · · · · · · · · · · ·		1	
-R (for min	n. of ø)		y' (for mii	n. of ø)		.
_Cor. for se	c. of <i>ø</i>		Cor. for se	c. of <i>\phi</i>	+	
_R		36,075,159	y <u>'</u>			
			⊥ y <u>"</u> (=2R s	$\sin^2\frac{\theta}{2}$)	+	2
$_{\!-\!} heta$ (for min	n. of λ)	0 ' "	y			
Cor. for se	ec. of \(\lambda					
_θ		0 12 23,294	$\frac{\theta}{2}$			o ' "
θ''	For machine computation	,,		For machine computation		
			log θ''			
₋log <i>θ''</i>			colog 2		9	0.6989 <u>7</u> 000
_S for .θ			S for $\frac{\theta}{2}$			
log sin $ heta$	sin <i>0</i>	.0036035877	log sin β _	$\frac{1}{2}$ sin $\frac{\theta}{2}$		
log R				$R \sin \frac{\theta}{2}$		
log x'			$\log \sin^2 \frac{\theta}{2}$	R sin² $\frac{e}{3}$		
.x′	$R \sin \theta$		log R			,
		2,000,000.00	H .		o	.30103000_
_X			log y"			
			-	· · · · · · · · · · · · · · · · · · ·		

 $x = 2,000,000.00 + R \sin \theta$

 $y = y' + 2R \sin^2 \frac{\theta}{2}$

y' = the value of y on the central meridian for the latitude of the station

S = log of ratio for reducing arc expressed in seconds to sine (see log tables)



Plane	coordinates	٥n	Lambert	projection
rialic	coordinates	UH	Laimpert	PLOIGCTION

		Мл	./		2,7	70,000
		State J_{ϕ} State J_{ϕ} 02	<u>a.N.</u> :	Station	38	30,000
<u></u>		$_{\phi} = 30^{\circ} 02$	37.80	$\lambda = 83^{\circ}$	57 45.	78
	•	Tabular difference				
					_	
₋R (for mir	n. of ø)		y' (for mir	n. of ϕ)		
_Cor. for se	c. of <i>ø</i>	-	Cor. for se	c. of <i>ø</i>	+	
_R		36,075,326]_y'			
		, ,	y''_(=2R s	$\sin^2\frac{\theta}{2})$	+	
$_{- heta}^{ }$ (for min	. of λ)	0 ' "	y			
Cor. for se						
_θ		0 16 11.998) <u>8</u>			o ' "
<u>θ''</u>	For machine computation	"		For machine computation		
			log <i>θ''</i>			
log <i>θ''</i>			colog 2		9	.69897000
_S for .θ			S for 분			
.log sin <i>⊕</i>	sin θ	.0047123621	log sin $\frac{e}{2}$ _	$\frac{\theta}{2}$		
_ log R				R sin $\frac{\theta}{2}$		
_log x'			$\log \sin^2 \frac{\theta}{2}$	_R sin² $\frac{\theta}{2}$ _		
X′	R θ _		log R			
		2,000,000.00	log 2	<u> </u>	0	.30103000_
_x	. •		log y''	<u>. </u>		

 $x = 2,000,000.00 + R \sin \theta$

 $y = y' + 2R \sin^2 \frac{\theta}{2}$

y' = the value of y on the central meridian for the latitude of the station

S = log of ratio for reducing arc expressed in seconds to sine . (see log tables)

Remarks

Decisions

	Remarks.	Decisions
1		200620 HDCB
2		300839 USGB
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Aucilla River	·	_								1
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Smokehouse Creek		-								16
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West Point						:				23
Wills Point /	/									24
Big Redfish Point										25
Little Redfish Point	~		!	<u>-</u>			<u> </u>			26
Wards Island										27 M 234

Remarks.

Decisions

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Big Island	1									1
Grass Island										2
Grey Mare Rock						-3.				3
Snipe Island										4
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Atlantic Coast Line	R.R.									6
Live Oak, Perry & Gu	/									7
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Mandalay										9
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