

5845

Diag'd. on diag. charts No. 1256 & 1257

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric

Field No. T-5845 Office No. _____

LOCALITY

State Florida

General locality Florida West Coast

Locality Manatee River

Photos taken Dec. 1939 and supplemented
by ground surveys to November 1941.

194

CHIEF OF PARTY

Lieut. Comdr. Kenneth G. Crosby

LIBRARY & ARCHIVES

DATE

Sept 19-1947

B-1870-J (1)

5845

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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

SHEET NO. T-5845

~~FIELD NO.~~

REGISTER NO.

State Florida

General Locality Florida West Coast

Locality Manatee River (Ellenton)

Scale 1:10,000 Photos December 8, 1939

Vessel Party: Air Photograph Party No. 1

Chief of party Kenneth G. Crosby

~~Surveyed by~~ Field Inspected by Lieut. J. D. Thurmond.

Inked by James E. Hundley, Sr. Photogrammetric Aid

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated April 3, 1940

Remarks: _____

SHEET NO. 7-

SUPPLEMENTARY SURVEYS

	Name	Date	Hours
Control Surveys	WHS	Jan.	1
Planetable Surveys			
Total			1

FIELD INSPECTION

Preparation of Photographs.....	WJK	:Oct:	:	8
Field Work.....	JDT	:Oct. & Nov.	:	57
Inking Notes.....	JDT	:Oct. & Nov:	:	1 1/2
Coast Pilot Notes.....	:	:	:	
Geographic Name Reports.....	FHE	:Dec:	:	1
Landmarks for Charts.....	:	:	:	
Description Cards.....	JDT	:Nov. & Dec.	:	19
Recovery Notes.....		:	:	
Total				86 1/2

MAIN RADIAL PLOT

Scale Plot	JEH	Jan.	3
Projection on Base Sheet	Washington Office		
Projection on Survey Sheet			
Control Plotted	WHS	Feb.	1/2
Control Checked	KGC WHS	Feb.	1
Control Trans. to Base Sheet	WHS	Feb.	1/4
Transfer Checked	JAG	FEB	1/4
Control Picked on Photographs	JED RD	Dec.	9 1/2
Control Checked on Photographs	CH	Dec.	4
Hydro. & Topo. Stations Picked	CH FHE	Dec.	13
Radial Points Picked	CH JEH JH	Jan.	11
Adjacent Centers Picked	X	Dec.	38 1/2
Templates	JEH WHS	Feb.	5
Radial Plot	WHS KGC JP	Feb.	7
Radial Points Transferred	MMS JEH	Feb.	1 1/2
Transfer Checked	WHS JEH	Feb.	6
H & T Stations Sealed & Checked	JEH ALK	May	15 1/2
Additional Radial Points	JEH	March	21
Total			137

DETAILING

Rough Draft	JEH	Feb. Mar. Apr. May	324
Smooth Draft			
Total			324

COMPILATION

Name Overlay	JEH	May	9
Descriptive Report	JEH	May	9
Field Review	KGC WHS	June & July	14
Total			32

Total time spent on Sheet..... 580 1/2 hours.

SHEET NO. 1-5845

PHOTOGRAPHS

Number	Date	Time	Stage of Tide
4013	December 8, 1939	11:08	0.8 feet
4014	" " "	11:09	0.8
4015	" " "	11:10	0.8
4016	" " "	11:11	0.9
4061	" " "	11:51	1.0
4022	" " "	11:17	0.9
4023	" " "	11:18	0.9
4024	" " "	11:19	0.9

Tide from predicted tables for Bradenton, Manatee River.

Reference Station: Tampa Bay (St. Petersburg)

Station: U. S. Coast and Geodetic Survey Mine-Lens (Focal Length 9 1/2 inches)

Negatives on file at the Washington Office.

SCALE

Mean scale of Photographs..... 1:10,000 ± .9950
Scale of Survey Sheet 1:10,000

STATISTICS

Area (land) 27.5 Square statute miles
Shoreline (more than 200 m. from opposite shore).... 17.9 Statute miles
Shoreline (creeks) 6.9 Statute miles
Roads, streets, trails, and railroads 146.8 Statute miles

REFERENCE STATION

BLACK

Station: ELLENTON; MUNI. W.T. 1934

Date: N. A. 1927

Latitude: 27° 31' 13.604 (4182m)

Longitude: 82° 31' 40.439 (1109.8m)

Adjusted

F/2 West

X = 328,899.29

Y = 1,158,678.75

DESCRIPTIVE REPORT
TO ACCOMPANY
SHEET NO. T - 5845

GENERAL

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

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

The terrain along the shoreline of the Manatee and Braden River has considerable elevation as the photographs show a very narrow fringe of mangrove. However, farther inland there is a considerable amount of swamp land. Of the two rivers mentioned above the Manatee River is the only one which is navigable for boats of considerable size.

There is only one U. S. Highway appearing on this sheet, i.e., U. S. 41 and it extends across the entire width of the sheet from an East to West direction. There are several county and state roads appearing on the western portion of this survey sheet for which no route numbers were available.

There are two railroad companies operating lines in the vicinity which this sheet covers, i.e., Atlantic Coast Line and Seaboard Airline Railroad.

Approximate Mean low water line and shoal areas are shown by dotted and dashed lines respectively.

All roads shown by centerline only should be drafted 0.6 m.m. wide.

The inland terrain is comparatively high and covered for the most part by cultivated fields of which citrus groves predominate.

The vegetation appearing on high ground other than cultivated fields consists mainly of grass and scattered palmetto; vegetation appearing on the remainder of the inland terrain consists mainly of oaks, gum, palm and pine, also, this vegetation appears in all areas labeled swamps on this sheet.

CONTROL:

The following triangulation stations are within the tracing limits of this sheet:

NAME	YEAR	ESTABLISHED BY
ELLENTON, WATER TANK	1934	G. L. Anderson
NOCATEE-MANATEE, CRATE COMPANY WATER TANK	1934	G. L. Anderson
MANATEE, MUNICIPAL WATER TANK	1934	G. L. Anderson
MANAT	1934	G. L. Anderson

The position of the azimuth mark at triangulation station, Manat 1934, was determined by the mainradial plot. The azimuth position was checked by plotting the published geodetic azimuth with a three arm metal protractor, reading to minutes, and was found in good agreement. No other stations have azimuth marks.

No errors were found in the location of the control stations on this sheet, nor in the plotting of these stations on the photographs.

MAIN RADIAL PLOT

A continuous radial plot was laid on February 19, 1942 for the location of radial points, hydrographic and topographic stations, bench marks, photograph centers, etc. It extended over the area covered by sheets T-5843 to T-5846, inclusive, and made a junction with the previous radial plot which had been extended southward of T-5842 at photographs Nos. 4035, 4036, 4061 and 4062. The agreement between the two plots at the junction was excellent.

The plot consisted of 39 templates. Four templates had from 9 to 10 triangulation stations within their limits; namely, 4013, 4014, 4024, 4025; seven templates had 4 to 9 triangulation stations; namely, 4023, 4026, 4027, 4028, 4033, 4034, and 4064; six templates were controlled by three triangulation stations; namely, 4011, 4015, 4021, 4029, 4063 and 4133; fifteen templates were controlled, but not rigidly fixed by one or two triangulation stations, while seven had no triangulation control within their limits. All templates not rigidly fixed by triangulation control were laid by holding to well established points which had been determined by radial intersections of previously laid and well controlled templates.

The usual practice of laying the main radial plot was followed. This consisted of plotting and checking the control on the survey sheets and then transferring these points to the base grid sheets by matching individual grid squares. The amount of adjustment in each grid square was negligible. The grid sheets were taped to the plotting table and allowed to remain for 48 hours before any templates were laid. Prior to laying the templates the base grid sheets were examined for movement and where such movement had taken place the grid sheets were given a final adjustment and all matched grid lines were in excellent agreement.

Excessive tilt was found in several photographs, the worst condition being found in photographs 4024 and 4062.

Attention is invited to the fact that photographs 4128, 4129, 4130 and 4131 are not in the correct position as indicated on the photograph index of this area. These photographs consequently, were not of much value in this plot.

The time consumed in laying the plot amounted to one day or twenty-four men hours. It was laid by the Chief of Party assisted by two Photogrammetric Aids. Agreement along the flight line as well as the intersections of radial lines to adjacent photograph centers were excellent and it was unnecessary to relay any part of the plot. After laying all of the templates the points were transferred to the survey sheets by again matching the gridsquares.

5845 The majority of the points on this sheet were located by the common intersection of three to six radial lines, the latter being in the central portion of the sheet, in the vicinity of photograph 4023, at the confluence of the Manatee and Braden river. In the southeast portion of the sheet in the vicinity of Latitude $27^{\circ} 29'$ and Longitude $82^{\circ} 30'$ there are eight radial points to which it was possible to obtain but two radial lines. Since this particular area is mostly open country with no areas of complicated detail and relatively unimportant, it is felt that existing detail is satisfactorily controlled.

It is believed that with the excellent agreement of the templates along the flight line and the resulting common intersections of the radial lines for the various points, that the positions of such points are not more than 0.25 m.m. from the correct location since there was no triangle of error in the points picked onto the survey sheet.

Various colored inks were used on the mounted office prints and on the survey sheets to designate triangulation, traverse and topographic stations, etc.

The following key is furnished for this information:

Photographs (Office Prints)

Triangulation and Traverse Stations.....2.5mm blue circle
 Marked Hydro. and Topo. Signals.....2.5mm green circle
 Radial Points (Main Plot)2.5mm red circle
 Radial Points (Additional).....3.5mm red circle
 Photograph Centers.....Double Circle

Survey Sheet

Triangulation Stations3.5 mm high black triangle
 Hydro. & Topo. Stations2.5 mm black circle
 Radial Points (Main Plot)2.5 mm blue circle on back of sheet.
 Radial Points (Additional).....3.5 mm blue circle on back of sheet.
 Radial Points (Questionable).....3.5 mm green circle on back of sheet.

INTERPRETATION OF PHOTOGRAPHS:

The photographs were clear and accurate interpretation was obtained with no unusual conditions prevailing.

FIELD INSPECTION

Field inspection was made by Lieut. J. D. Thurmond, during month of November, 1941. The field inspection was made on 1:10,000 scale photographs. Notes were sufficient for accurate interpretation of all detail.

DETAILING

This sheet was detailed in accordance with the current instructions for the project. Before detailing was started, magnesium carbonate was applied to the survey sheet and then washed off. No additional cleaning or re-inking was necessary.

Detail which appear on this survey sheet from Lat. $27^{\circ} 27'$ north to the southern shoreline of the Manatee River and from Long $82^{\circ} 32'$ to the western limits of the sheet, South of the Manatee River was taken from photograph 4024 although it was found to be of very poor scale. However, after several additional radial points were added the detail was transferred to the survey sheet within the limits of maximum error allowed for adjustment between points. After all detail was transferred from 4024 to the survey sheet it was found that 4025 was a better scale photograph even though its center did not appear on this sheet and it was used to check the detail taken from 4024.

The detail appearing on this survey sheet from the southern shore line of the Manatee River south to limits of detail and from Long $82^{\circ} 32'$ East to Long $82^{\circ} 30'$ was taken from Photograph 4023. This was a good scale photograph.

The remainder of the detail appearing south of the Manatee River to the limits of detail and East from Long. $82^{\circ} 30'$ to limits of detail was taken from photograph 4022 which was a fairly good scale photograph.

Several additional radials were added to photographs 4022, 4023 and 4024 so that the adjustment between points would not be over the maximum adjustment allowed.

Detail appearing on this sheet from Lat. $27^{\circ} 33'$ to northern extremities of sheet and from Long. $82^{\circ} 31'$ to western extremities of sheet was taken from photograph 4061, whose center does not appear on this sheet since it was found to be a better scale photograph than 4062, whose center does appear on this sheet but outside the detailing limits.

Photograph 4013 was found to be a better scale photograph than 4014 and, therefore, was used to detail that portion of the sheet from the northern shore line of the Manatee River to Lat. $27^{\circ} 33'$ and from Long. $82^{\circ} 32' 40''$, approximately, to the western limits of the sheet.

Photograph 4015 was found to be of good scale and was used to detail from the northern shore line of Manatee River to the northern extremities of the sheet, excluding that portion already mentioned being detailed from 4061, and from Long. $82^{\circ} 32' 40''$, approximately east to Long $82^{\circ} 30'$.

Photograph 4016 was found to be just a fair scale photograph and was used only to detail that portion of the sheet from the northern shore line of the Manatee River north to limits of detail and from Long. $82^{\circ} 30'$ east to limits of detail.

A few additional radial were added to the above mentioned photographs to make the adjustment fall within maximum adjustment allowed.

Labels have been used to indicate type and density of vegetation in most cases. However, in small areas symbols were used where it was more convenient to show symbols than write labels.

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

NON-FLOATING AIDS

Enclosed in this report will be found Form 567 which lists all names, descriptions and positions of beacons appearing on this survey sheet.

JUNCTIONS

This sheet joins sheet No. T-5842 (1:10,000 scale) on the north, sheet No. T-5846 (1:10,000 scale) on east, sheet No. T-5849 (1:10,000 scale) on the south and sheet No. T-5844 (1:10,000 scale) on the west.

Junctions were made with all of the above mentioned sheets and are in good agreement.

COMPARISON WITH OTHER SURVEYS

Reference is made to a letter from the Washington Office, dated May 10, 1941 (28-PFA, 1990) advising that this paragraph may be dispensed with for this area.

H.T. Sta.
Key 1941
Jam
Jap
Jaw
Jig
Ken
Ken
Log
Mil
Rem

Manat Az 1934, revised 1938

BH F-77 1934

G-77 "

H-77 "

J-39 1939

P-39 1941

X-64 1934

added. DC-101 (CWA Trans.)

GEOGRAPHIC NAMES

The geographic names for this area are the subject of a special report entitled "Investigation of Geographic Names, Florida West Coast, Davis Causeway, East Side of Tampa Bay to Manatee River." Submitted by Harold A. Duffy, Sr. Photogrammetric Aid, to the Washington Office, December 31, 1941.

LAND MARKS

The most prominent objects suitable for landmarks have been charted on 586. There are no additional landmarks which should be charted.

Respectfully submitted,

James E. Hundley
James E. Hundley,
Sr. Photogrammetric Aid.

Forwarded,

Kenneth G. Crosby
Kenneth G. Crosby,
Chief of Party.

GEOGRAPHIC NAMES

C = Chart 586
W.A.B. 10/3/43

Survey No. T-5845

GEOGRAPHIC NAMES		Survey No. T-5845									
C = Chart 586 W. A. B. 10/8/43											
Name on Survey		A.	B.	C.	D.	E.	F.	G.	H.	K.	
✓	✓	Manatee River ✓									1
✓	✓	Terra Ceia Junction ✓									2
✓	✓	Manavista ✓									3
✓	✓	Ellenton ✓									4
✓	✓	Ellenton Airport ✓									5
✓	✓	Manatee ✓									6
✓	✓	Ayres Point ✓									7
✓	✓	Braden Castle ✓									8
✓	✓	Braden River ✓									9
✓	✓	Samoset ✓									10
✓	✓	Sugar House Creek ✓									11
✓	✓	Jeffs Cowden Creek ✓									12
✓	✓	Elwood Park ✓									13
✓	✓	Branches Hammock ✓									14
✓	✓	Rocky Bluff ✓	Beach								15
✓	✓	Fullers Earth ✓	Settlement								16
✓	✓	Long Bar Shoal ✓									17
✓	✓	Cypress Strand ✓ (creek)									18
where?	✓										19
											20
											21
											22
											23
											24
											25
											26
											27
											28

MANAGER'S SIGNATURE
by L. Heck
checked and approved
on 9/14/42

M 234

Changes checked
by L. Heck
in red approved
on 9/14/42

T-5845

	Remarks	Decisions
1		275826
2		275825
3		"
4		"
5		"
6		"
7	Apply Ayres Point pending USGB decision with regard to Ayers Point	"
8		274825
9		275825
10		274825
11		"
12		"
13	Names report and other sources have Elwood Park	"
14		275824
15		275825
16		"
17		275824
18		"
19		
20		
21		
22		
23		
24		
25		
26		
27		

**LEGEND USED FOR FIELD INSPECTION AND DRAFTING
PROJECT 242 - 1942**

TREES

Pi - Pine
Cy - Cypress
Palo - Palmetto
Palm - Palm
D T - Deciduous trees (broad leaf)
Cit - Citrus (orchard)
Mix - Pine, cypress & Dec. trees
(Density)
Sct. - Scattered
t.w. - Thinly wooded
h.w. - Heavily wooded
Scr. - Scrub trees;

VEGETATION

C - Cultivation
Gr - Grass
T Gr - Tall Tropical Grass
M - Marsh (dashed blue line on
inshore limits)
M W - Marsh grass in water (dashed blue
line on offshore limits)
Sw - Swamp
Mg - Mangrove
Hdg - Hedge

STREAMS

Ca - Canal (width)
Cr - Creek
D - Ditch (width)
I S - Intermittent Stream
PDU - Probable drainage unsurveyed
Brg - Bridge or symbol
Cv - Culvert
Lev - Levee

F.G.S. - Florida Geodetic Survey
U.S.E. - U. S. Engineers
USBS - U. S. Biological Survey

ROADS & RAILROADS

Rd 1 - - 1st class road (paved)
Rd 2 - - 2nd class road
Tr - Trail
R R - Railroad
O P - Overpass (state the kind)
U P - Underpass (state the kind)
X - Abandoned trail, road, etc.
R R ab - P.R. abandoned (grade only)

PONDS

P - Pond
Cy P - Cypress Pond
I P - Intermittent Pond

SHORE LINE

H.W.L. - mean high waterline (solid
red line - fast land)
L.W.L. - low waterline (dashed red line)
L.L. - Light line (solid blue line for
mean high water line on marsh)
Dk - Dock
Pr - Pier
Se W - Seawall
Bkhd - Bulkhead
Conc - Concrete
Wo - Wooden
Jet - Jetty
Dol - Dolphin
pile - pile (give type)
S - Sand
Mud - Mud
Rk - Rock or Rocky
Sty - Stony
W - Water
Blf - Bluff (height)

BUILDINGS

H - House, barn or building
Ch - Church (give name)
Ct H - Court House (give name)
Bo H - Boat House
P.O. - Post Office (give name)
R.R. Sta - Railroad station (give name)
Hos - Hospital (give name)
Sch - School (give name)

MISCELLANEOUS

F - fence
FB - Fire Break (maintained)
FBX - Fire Break (abandoned)
Cem - Cemetery
Park - Park (give name)
F.T. - Fire Tower
T.T. - Transmission tower (tall steel)
P.L. - Power Line
Shoal - Approx. limits by long dashed
line for use by hydrographer

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEYList of permanent (non-floating)
Aids to Navigation - Manatee River
Sheet #T-5845

LANDMARKS FOR CHARTS

TO BE CHARTED } STRIKE OUT ONE
TO BE DELETED } XXX

Tampa, Fla.

July 16, 1942, 1935x

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks, be charted on (deleted from) the charts indicated.

The positions given have been checked after listing.

Kenneth G. Crosby
Kenneth G. Crosby

Filed in Inst. C. L. S. 398-42

Chief of Party.

GENERAL LOCALITY	NAME AND DESCRIPTION	POSITION							METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
		LATITUDE		LONGITUDE			DATUM							
		°	'	D. M. METERS	°	'		D. P. METERS						
Florida - West Coast Manatee River	BLACK BEACON (No Number)	27	30	771.0	82 32	1096.0	N. A.	1927	Sextant	11/41	X X		586; 1256	
	MANATEE RIVER BN. No. 22	27	30	1065.0	82 31	1305.0	"		"	"	X X		"	
	MANATEE RIVER BN. No. 24	27	30	1296	82 31	897	"		"	"	X X		"	
	ROCKY BLUFF BN. No. 9 (Black)	27	30	1491	82 30	1571	"		"	"	X X		"	
	MANATEE RIVER CUT BN. No. 11 (bl.)	27	30	1791	82 30	1413	"		"	"	X X		"	
	RED BEACON NO. 26	27	31	993	82 30	613	"		"	"	X X		"	
	RED BEACON (No Number)	27	31	1076	82 30	327	"		"	"	X X		"	
	BLACK BEACON NO. 13	27	31	1112	82 30	71	"		"	"	X X		"	
	BLACK BEACON (No Number)	27	31	1058	82 29	1587	"		"	"	X X		"	
	BLACK BEACON (No Number)	27	31	964	82 29	1379	"		"	"	X X		"	
	RED BEACON NO. 28	27	31	843	82 29	1413	"		"	"	X X		"	
	BLACK BEACON (No Number)	27	31	877	82 28	1227	"		"	"	X X		"	
	RED BEACON (No Number)	27	31	854	82 29	1148	"		"	"	X X		"	

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

NAUTICAL CHARTS BRANCH

SURVEY NO. 15845

Record of Application to Charts

[illegible]

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

Division of Photogrammetry

Review of Planimetric Map T-5845

Radial Plot.

This is discussed in the descriptive report. The plot was accepted as adequate and was not checked in this office. In fact, the metal-mounted photographs had been discarded before this review was made.

Field Inspection and Detailing.

These were generally complete and the manuscript adequate. A few minor changes and additions were made during review and are shown in red on the manuscript.

Comparison with Previous Surveys.

T-5845 supersedes T-1346b, 1:20,000, 1873, over the common area. There have been many changes in cultural details, none of which require discussion.

Comparison with Nautical Charts.

T-5845 was applied to charts 586, 1256, and 1257 prior to review. The manuscript was again applied to chart 586 after review and, therefore, changes in red have been taken care of as far as that chart is concerned. The changes made during review are too small to be of any considerable importance as regards charts 1256 and 1257, but they do include the addition of a few pilings.

Reviewed under the direction of R. M. Berry, January 1945.

Review report prepared by B. G. Jones from reviewer's notes, September 1947.

APPROVED BY:

B. G. Jones 9/47
Technical Assistant to the
Chief, Div. of Photogrammetry

K. Pittendree
Chief, Nautical Chart Br.
Division of Charts

E. S. Jones 18 Sept 47
Acting Chief, Div. of Photogrammetry

C. K. Green
Chief, Division of Coastal
Surveys