

5841

Diag'd. on diag. ch. No. 1257

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric

Field No. T-5841 Office No. _____

LOCALITY

State Florida

General locality West Coast - Tampa Bay

Locality Cockroach Bay & Piney Point

Photographs taken 12/39 with field
surveys to Oct. 1941.

1942

CHIEF OF PARTY

Lieut. Comdr. K. G. Crosby

LIBRARY & ARCHIVES

DATE

Sept 19 - 1947

B-1870-1 (1)

5841

Applied to chart 586 before review, Oct. 8, 1942. L.A.M.
" " " 1257 " " Oct.10, 1942. L.AM

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-5841
~~RECEIVED~~

REGISTER NO.

State Florida

General Locality West Coast - Tampa Bay

Locality Cockroach Bay and Piney Point

Scale 1:10,000 Date of ~~survey~~ ^{Photos.} December 8, 1939

~~Vessel~~ PARTY: Air Photographic Party No. 1

Chief of party Lieut. Comdr. Kenneth G. Crosby,
Field Inspected by:

~~Surveyed by~~ Lieut. J. D. Thurmond.
John S. Howell - Photogrammetric Aid

Inked by Rudolph Dossett - Senior 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. T-5841

PHOTOGRAPHS

Number	Date	Time	Stage of Tide
4041	December 8, 1939	11:32	0.8
4040	" " "	11:31	0.8
4039	" " "	11:30	0.8
4056	" " "	11:49	0.8
4057	" " "	11:50	0.9
4058	" " "	11:51	0.9

Tide from predicted tables for: Tampa Bay, Florida (St. Petersburg)

Camera: U. S. Coast and Geodetic Survey Nine-Lens (focal length $8\frac{1}{2}$ inches)
Negatives on file at the Washington Office.

SCALE

Mean scale of Photographs..... 1:10,000 + 0.9996
Scale of Survey Sheet..... 1:10,000

STATISTICS

Area (land)..... 17.9 Square statute miles
Shoreline (more than 200 m. from opposite shore)..... 13.6 Statute miles
Shoreline creeks)..... 14.3 Statute miles
Roads, streets, trails, and railroads..... 45.9 Statute miles

REFERENCE STATION

Station: TANK, Sun City Power Co., 1934 Latitude: $27^{\circ} 40' 47.940''$ (1475.6m)
Datum: N. A. 1927 Longitude: $82^{\circ} 28' 41.046''$ (1124.8m)

Adjusted

Fla. West

x = 345,274.87

y = 1,216,610.08

SUPPLEMENTARY SURVEYS

	Name	Date	Hours
Control Surveys	:	:	:
Planetable Surveys	:	:	:
Total			

FIELD INSPECTION

Preparation of Photographs	KWS CH	May & Oct.	1
Field Work	JDT	Oct.	21
Inking Notes	JDT	Oct.	4
Coast Pilot Notes.....			
Geographic Name Reports	FHE GEV	Dec.	9
Landmarks for Charts			
Description Cards.....	JDT	Dec.	24
Recovery Notes			
Total			59

MAIN RADIAL PLOT

Scale Plot	JEH	Nov.	2
Projection on Base Sheet	Washington Office	:	:
Projection on Survey Sheet		:	:
Control Plotted	KGC	Dec.	1 1/2
Control Checked	JEH	Dec.	1 1/2
Control Trans. to Base Sheet	KGC	Dec.	1/4
Transfer Checked	JEH	Dec.	1/4
Control picked on Photographs	JEH	Nov.	2
Control checked on Photographs	JED	Nov.	2
Hydro. & Topo. Stations Picked	JED JEH	Nov. & Dec.	15
Radial Points picked	JEH	Dec.	2
Adjacent Centers Picked	JEH JED	Nov.	11
Templates	VHS	Dec.	9
Radial Plot	x	Dec.	12 3/4
Radial Points transferred	JHSB JEH	Dec.	5
Transfer checked	JAG	Dec.	4
H & T Stations scaled & checked	RD KGC ERH	Mar. & Apr.	12
Additional Radial Points	:	:	:
Total			80 1/4

DETAILING

Rough Draft	JH RD	Jan. Feb. Mar.	241
Smooth Draft	:	:	:
Total			241

COMPILATION

Name Overlay	RD	March	7
Descriptive Report	RD	March	9
Field Review	KGC	April	22
Total			38

Total time spent on Sheet..... 418 1/4 hours.

x - Several of the personnel in the office.

DESCRIPTIVE REPORT
TO ACCOMPANY
SHEET NO. T---5841

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 sheet is Florida West Coast, in the vicinity of Cockroach Bay. It includes the shoreline from Mary's Point on the North, southward to Piney Point and the ferry landing. The shoreline is generally fast, with flat ground, vegetated by palm, cedar and grass.

The entrance to Cockroach Bay is dotted with large and small mangrove islands through which Cockroach Channel threads its way to the more open part of the bay, to the East. All of this area is shoaled up to a great extent and there are numerous sand flats with scattered mangrove patches. Inshore, from the fringe of mangrove around Cockroach Bay, there are other sand flats, which flood at mean highwater. These areas have been outlined and labeled "Sand Flats, Flooded at M. H. W.".

Inshore, to the eastern boundary of the sheet, the vegetation is much the same, consisting principally of scattered pine and grass with occasional small, heavily wooded areas of pine and oak.

There is an extensive cultivated area just northeast of Cockroach Bay. There are no other cultivated areas within the limits of the sheet.

The power company at Sun City has been abandoned and the buildings there, although shown, are not occupied. The abandoned subdivision in this vicinity has also been shown.

Approximate mean low water is shown by dotted lines; shoal area by dashed lines.

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

For a general report on the field inspection of this area, see the special report submitted by Lieut. J. D. Thurmond, entitled, "Field Inspection, Tarpon Springs to South of the Manatee River."

CONTROL

Control on this map drawing consists of the following triangulation stations:

NAME OF STATION	YEAR	ESTABLISHED BY
TANK, Sun City Power Co.	1934	G. L. Anderson
COCKROACH (U.S.E)	1908	U. S. E. - W.B.F.
TP-1E	1939	U. S. Engineers
TP-2E	1939	U. S. Engineers
TP-3E	1939	U. S. Engineers
MOUND (U.S.E)	1933	U. S. Engineers
MOUND	1934	G. L. Anderson.

INTERPRETATION OF PHOTOGRAPHS

The photographs were clear and no difficulty was experienced in their interpretation.

MAIN RADIAL PLOT

A continuous radial plot was run on December 15 to 23, 1941, inclusive, for the purpose of locating all photograph centers, all hydrographic stations, topographic stations, bench marks, azimuth marks and radial points. The plot extended over the area covered by sheets T-5839 to T-5842, inclusive. All photographs in the area were used, including in addition, the single lens photographs obtained by the Washington Office from the Department of Agriculture.

This plot made a junction with the previous main plot near the vicinity of the southern limits of T-5838, but due to scarcity of control it was extended into the previous plot to include photographs 4046, 4047 and 10 single lens pictures.

The plot was extended beyond the limits of T-5842, at the southern limit, to afford a rigid location of the templates by triangulation which extended along the shores of the Manatee River. A projection was made on which this control was plotted and this was used as a supplementary sheet since the office-ruled projections for the area in the vicinity of the Manatee River were not available.

The plot consisted of 30 templates for the nine lens photographs and 21 templates for the single lens photographs. These were made in accordance with "Notes on Radial Plotting of Nine-Lens Photographs", dated April 9, 1940.

The control afforded by first and second order triangulation in this entire area was extremely meagre but it was felt that it was adequate without doing additional field observations. The U. S. Army Engineers also had an extensive scheme of traverse in the vicinity of the Little Manatee River, the positions of which were available for the plot.

The usual practice of laying the plot was followed. This consisted of plotting the control on the survey sheets and then transferring it to the base grid sheets by matching individual squares. The agreement was excellent and no adjustment was necessary, except at the junction between sheet T-5839 and T-5838 of the previous plot. This adjustment amounted to about 7 meters for the width of the sheet. The adjustment was made by meaning the matched grid lines in the vicinity of the shoreline at the junction of the sheets. After laying the plot the intersections of the radial lines were transferred to the survey sheet by again matching grid squares as previously described.

It was necessary to lay the plot four times before agreement was obtained at the junction of the previous plot. The plot was begun in the vicinity of triangulation control on the Manatee River and progressed northward to the junction of the previous plot. Good agreement could not be obtained with all of the U. S. Engineers stations in the vicinity of the Little Manatee River. Agreement with a majority of the stations were good but with several the agreement was only fair. Investigation disclosed that some of these stations were located by a "tag line" traverse and should be considered as less than third order accuracy, and are therefore shown on the survey sheet by 2.5 m.m. black circles.

The majority of the positions determined by the radial plot method resulted from the common intersection of three to five radial lines. Agreement along the flight line was excellent and the intersection of radial lines to adjacent photograph centers, closely checked the center position of the templates in question.

Reference is made to triangulation station MOUND (U.S.E) 1933. This station, which is in the approximate position of INDIAN HILL 2, 1908, has been used by the U. S. Engineers and has been called MOUND (U.S.E). Neither the surface or underground mark of INDIAN HILL 2, 1908 was recovered, although they should have been very close to the new station. MOUND (U.S.E) should not be confused with the U. S. Coast and Geodetic Survey station MOUND-1934, the latter is located about 90 feet to the southeast of MOUND (U.S.E), 1933.

It is believed that the location of all points as determined by the radial plot are within 0.2 m.m. of their true positions. No points were picked on this sheet whose triangle of error was more

than 0.5 m.m. in a side and these were confined to not more than five scattered positions. There were only seven points which required further study and verification by the compiler to obtain agreement of the radial intersection. It was possible to obtain *only* ~~but~~ two radial directions to several points on the extreme eastern portion of the sheet. The points will be verified by the draftsman when compiling the sheet, by using a photograph of good scale.

Various colored inks were used on the photographs and survey sheets to designate triangulation stations, topographic and hydrographic stations and radial points. The following key is furnished for future reference.

Photographs

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

Survey Sheet

Triangulation & Traverse Stations....	3.5 mm high black triangle
Hydro. & Topo. Stations.....	2.5 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).....	2.5 mm blue circle on back of sheet

with tick marks showing number and direction of cuts.

FIELD INSPECTION

The field inspection was made by Lieut. J. D. Thurmond and Harold A. Duffy, Senior Photogrammetric Aid, during October, 1941.

Field notes were plentiful over the entire area covered by this sheet.

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

DETAILING

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

Before detailing the surface of this sheet was rubbed with magnesium carbonate and washed off. No additional cleaning was necessary, and except for occasional touched-up places, no re-inking was required.

Photographs 4039, 4040 and 4041 were used for shore detail except in the extreme eastern part of Cockroach Bay, where photographs 4056 and 4057 were used. Photographs 4056, 4057 and 4058 were used for inland detail.

Only those trails appearing to lead to some definite point have been shown.

Some small buildings have been enlarged to give better detail.

U. S. Highway 541, shows on the office print as a curve, where this sheet makes a junction with T-5840. The field inspector shows on field print 4055 a new location at this point. The curve has been eliminated and the tangent extended from the former P.T. or P.C. It has, accordingly been drafted to agree with field inspectors information. The old location is shown as a second class road.

All buildings visible under the stereoscope have been shown.

This compilation was originally begun by John S. Howell, Photogrammetric Aid. Mr. Howell was transferred to another party by official orders prior to completing the sheet and such additional work that was necessary to finish it has been done by the present compiler. At the time of taking over the sheet from Mr. Howell, he had completed the shoreline detail of Cockroach Bay and the shoreline extending northward to the limits of the sheet. All buildings, roads, railroads and drainage had been traced; limits of vegetation shown and the shoreline detail of the Little Manatee River completed. The present compiler has shown the shoreline detail south of Beacon Pass to the southwestern limits of the sheet in the vicinity of Piney Point; completed all labelling of vegetation cover and smooth drafted vegetation symbols as seemed expedient; completed the detail of the Sun City subdivision and all lettering appearing on the drawing.

JUNCTIONS

This sheet forms a junction on the North with T-5840 and on the South with T-5842, both junctions are in good agreement.

COMPARISON WITH OTHER SURVEYS

Reference is made to a letter from the main office dated May 10, 1941 (28-PFA-1990) dispensing with this paragraph for this area.

LANDMARKS

There are no prominent landmarks within the limits of this sheet.

GEOGRAPHIC NAMES

The geographic names for this sheet are the subject of a special report entitled "Investigation of Geographic Names, Rocky Point to Palma Sola Bay", submitted by Harold A. Duffey, Senior Photogrammetric Aid, December 31, 1941.

Respectfully submitted,

Rudolph Dossett

Rudolph Dossett, ^{1st} Lt.
Sr. Photogrammetric Aid.

Forwarded,

Kenneth G. Crosby

Lieut. Comdr. Kenneth G. Crosby
Chief of Party.

GEOGRAPHIC NAMES

Survey No. T-5841,

Sheet No. L.

Name on Survey

	A	B	C	D	E	F	G	H	K	
	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
✓ Little Manatee River										1
✓ Mill Bayou										2
✓ Hayes Bayou										3
✓ Sun City										4
✓ Andrews Creek										5
✓ Marys Point										6
✓ Tampa Bay										7
✓ Big Pass Key										8
✓ Big Pass										9
✓ Snake Key										10
✓ Cockroach Channel	(U.S.G.B.)									11
✓ Big Cockroach Mound	(U.S.G.B.)									12
✓ Big Cockroach Pass	"									13
✓ Camp Key										14
✓ Table Bar										15
✓ Buoy Pass										16
✓ Beacon Pass										17
✓ Beacon Key										18
✓ Piney Point Creek										19
✓ Piney Point										20
✓ Cockroach Bay	(U.S.G.B.)									21
✓ S.E. Head										22
✓ Cockroach Creek	"									23
✓ Dung Islet										24
✓ Wood Dock										25
✓ Snag Point										26
✓ Shell Key										27

Remarks.

Decisions

1		277824
2		276824
3		"
4		"
5		"
6		277825
7		"
8		"
9		276825
10		"
11		"
12	Charted as Indian Hill: referred to USGB: ,OK to use this well established local name pending Board's action.	"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21	There is a USGB decision (6th Report) for Shellmound Bay here, apparently never applied on any map (in which Cockroach Bay and Indian Hill Bay are rejected).	"
22	Pending Board's revision, use this well established local name.	"
23		"
24		"
25		"
26		"
27		"
M 234		

GEOGRAPHIC NAMES

Survey No. T-5841

Sheet No. 2

Name on Survey	Sources										
	A. On Chart No.	B. On previous survey No.	C. On U. S. quadrangle Maps	D. From local information	E. On local Maps	F. P. O. Guide or Map	G. Rand McNally Atlas	H. U. S. Light List	K.		
✓ <u>Jump Pass</u>											1
✓ <u>Mullet Key</u>											2
✓ <u>Hole in the Wall Pass</u>											3
✓ <u>Hallelujah Keys</u>											4
C ✓ <u>South Stop</u>											5
											6
											7
											8
											9
											10
											11
<div>Names underlined in red approved</div> <div>by L. Heston on 12/26/45</div>											12
											13
											14
											15
											16
											17
											18
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											22
											23
											24
											26
											27

Remarks	Decisions
1	276825
2	"
3	"
4	"
5	"
6	
7	
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27	

MANUAL USED FOR FIELD INVESTIGATION AND DRAWING
PROJECT 212 - 1941

TREES

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

VEGETATION

C - Cultivation
Gr. - Grass
T Gr - Tall Tropical Grass
M - Marsh (dashed 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
FDU - Probable drainage unsurveyed
Brg - bridge or symbol
Cv - Culvert
Ley - 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 - Rail Ro
C P - Overpass (state the kind)
U P - Underpass (state the kind)
E - Abandoned track, road, etc.
R.R. aban. - (grade only)

PONDS

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

SHORE LINE

M.H.L. - Mean high water line (solid
red line - fast land)
L.H.L. - low water line (dashed red line)
L.L. - Light line (Solid blue line for
mean high water line on marsh)
Dr - Dock
Pr - Pier
Se L - Seawall
Blhd - Bulkhead
Cone - 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
Sch - School (give name)
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)

MISCELLANEOUS

F - fence
FB - Fire Break (maintained)
FBA - Fire Break (abandoned)
Cem - Cemetery
Park - Park (give name)
F.T. - Fire Tower
T.T. - Transmission Tower (+ 11 steel)
P.L. - Power line
Shed - Approx. limits by long dashed
line for use by hydrographer.

NAUTICAL CHARTS BRANCH

SURVEY NO. 5841

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-5841

Radial Plot.

No attempt was made to check the radial plot for this sheet during the review, as the office photographs were not available. Although the control for the area was extremely meager, it was felt that it was adequate without requiring additional field observations.

Detailing.

All road classifications have been changed to conform to the standard symbols for planimetric maps.

In the immediate vicinity of Longitude 82°32' the junction between this survey and survey No. T-5842 was very poor. It was necessary to correct the position of the railroad, two ditches and two roads, all of which were in error on survey T-5841.

Mean High Water Line.

Minor corrections were necessary and are indicated in red on the manuscript.

Comparison with Other Surveys and Charts.

There are no contemporary hydrographic surveys.

T-1346b	1:20,000	1874
T-1408b	1:20,000	1875
T-4200	1:20,000	1926
T-4212	1:20,000	1926

The above four previous topographic surveys are superseded by T-5841 in areas common to each.

T-8391 (War Dept.)	1:31,680	1944
T-8392 (War Dept.)	1:31,680	1944

These two War Mapping Quadrangles are in general good agreement with survey T-5841.

Comparison with Nautical Charts.

T-5841 was applied to charts 586 and 1287 prior to this review. No changes have been made during review which affect these charts.



General.

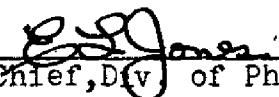
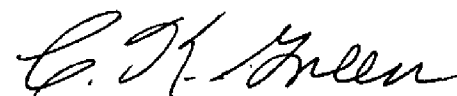
Most of the geographic names are underlined or circled on this sheet with purple ink. No attention is to be paid to these markings by the draftsman as they indicate that the names were verified. (1942)

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

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

APPROVED BY:

 Technical Assistant to the Chief, Div. of Photogrammetry	 Chief, Nautical Chart Br. Division of Charts
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 11 Sept 47 Acting Chief, Div. of Photogrammetry	 Chief, Division of Coastal Surveys
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