

5907

2065

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Planimetric
Field No.	T-5907
Office No.	
LOCALITY	
State	Florida
General locality	Lake Okeechobee
Locality	Lake Harbor, Fla.
Photos taken Jan. 1940 and supplemented by ground surveys to March	
	1942
CHIEF OF PARTY	
Lieut. Comdr. Kenneth G. Crosby	
LIBRARY & ARCHIVES	
DATE	July 21 - 1947

Applied to chart 1289 7-30-43 GTE

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 15907

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
~~Index~~ No. T-5907

REGISTER NO.

State Florida

General Locality Lake Okeechobee (Florida East Coast)

Locality Lake Harbor, Florida

Scale 1:10,000 Date of Photos Jan. 9, 1940

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

Chief of party Lieut. Comdr. Kenneth G. Crosby

Field inspected by: Lieut. James D. Thurmond

Inked by Harold V. Reid, Engineering Draftsman

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated April 3, 1940

Remarks: _____

SUPPLEMENTARY SURVEYS

	Name	Date	Hours
Control surveys.....	JDT, HAD, FHE	Feb. Mar. May, :	131½
Planetable Surveys.....	FHSE, GEV	June :	...

FIELD INSPECTION

Total 131½

Preparation of Photographs.....	JEH, CH, FHE	Oct. Nov. :	7
Field Work.....	JEV, JDT, HAB	April 1944 :	26
Inking Notes.....		:	
Coast Pilot Notes.....		:	
Geographic Name Reports.....	FHE	May :	5
Land Marks for Charts.....		:	
Description Cards.... and	HAD	May :	14
Recovery Notes.....		:	

Total 52

MAIN RADIAL PLOT

Scale Plot.....		:	
Projection on Base Sheet.....	Wash. Office	:	
Projection on Survey Sheet.....		:	
Control Plotted.....	JEH	June :	1½
Control Checked.....	RD	June :	1½
Control Trans. to Base Sheet.....	JEH	June :	
Transfer Checked.....	ALK	June :	
Control Picked on Photograph.....	HVR	May :	3½
Control Checked on Photograph.....	JTW	May :	7½
Hydro & Topo. Stations Picked.....	HVR, JTW, LCB, ALK	May :	9
Radial Points Picked.....	JEH, GEV	May :	3½
Adjacent Centers Picked.....	WHS, HVR, ERH	Mar., Apr. :	11½
Templates.....	JTW	May :	2
Radial Plot.....	X	June :	8
Radial Points Transferred.....	WHS	June :	2
Transfer checked.....	HAD, ECA	June :	5
H & T Stations Scaled & Checked..	HVR, BOB	Aug. :	5½
Additional Radial Points.....	HVR	July :	4
Investigation of Radial Points...		:	

Total 65

DETAILING

Rough Draft.....	HVR	July :	184
Smooth Draft.....		:	

Total 184

COMPILATION

Name overlay.....	HVR	July :	11
Descriptive Report.....	HVR	Aug. :	12
Field Review.....	RD	Aug. :	10

Total 33

Total time spent on Sheet..... 465½ hours

X-Several of Office Personnel

PHOTOGRAPHS

Number	Date	Time	Stage of Tide
4541	Jan. 9, 1940	10:59 A.M.	None
4542	"	11:00 "	"
4651	"	2:31 P.M.	"
4652	"	2:32 "	"

Tide from predicted tables for: None

Camera: U. S. Coast and Geodetic Survey Wide-Lens (focal length 8 1/2 inches)

SCALE

Mean scale of Photographs..... 1:10,000 + 1.012
 Scale of Survey Sheet..... 1:10,000

STATISTICS

Area (land)..... 14.8 Square statute miles
 Shoreline (more than 200 m. from opposite shore)... 12.5 Statute miles
 Shoreline (creeks)..... 3.7 Statute miles
 Roads, streets, trails, and railroads..... 26.6 Statute miles

REFERENCE STATION

Station: SED. - 1942 (Topo. Sta.) Δ

Datum: N.A. 1927 - Adjusted

Florida State Plane Coordinates
East zone

X = 574, 119.54 FT. Y =

Latitude: 70 8
 26° 41' 39.690 (1221.5 m)
 Longitude:
 80° 46' 22.816 (630.8 m)
 76 629.2

858, 101.04 FT.

DESCRIPTIVE REPORT
TO ACCOMPANY
SHEET NO. T-5907

GENERAL

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

The general location of the area covered by this sheet is Lake Okeechobee, (Florida East Coast) in the immediate vicinity of the town of Lake Harbor, Florida.

The land area shown on this sheet is almost entirely under cultivation, except for a small part to the extreme southeast. This piece of land is identified as Glade Land.

To the northwest appears a detached area known as ^{Ritta} ~~RITTER'S~~ ISLAND. This too is mostly under cultivation, having been reclaimed by dykes and drainage. The levee as shown encircling this island does not appear on the related photograph and was drawn in from information obtained from members of the field inspection party. The location of this levee is to be considered approximate.

Drainage as shown on this sheet has been given priority over field roads unless said road showed a definite destination.

All roads are to be 0.6 m.m. wide.

CONTROL

There are no first or second order triangulation stations on this sheet. Following receipt of the Director's letter, dated July 20, 1942, reference No. 28-RFA-1990, Subject: Lake Okeechobee Triangulation, it was decided that the 1942 Lake Okeechobee triangulation was not strong enough to be used as triangulation, but that the stations should be considered as topographic stations. The following stations are shown as topographic stations but were used on the Main Radial Plot with good results:

A total of six (6) of the above mentioned stations appear within the tracing limits of this Survey Sheet - viz:

STATION	YEAR
Sam	1942
Palm - Ritta Island	1942
Hart	1942
Pole - Lake Harbor	1942
Tank - Hooker - Jones Camp	1942

Note: The above control has been adjusted and ¹⁵ ~~shown as~~ shown as Δ .

See G.P.'s in file ✓ JAE 11-23-43

✓ 10/21/43

MAIN RADIAL PLOT

A continuous radial plot was run on June 17 and 18, 1942, 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-5905 to 5911, inclusive. All photographs in the area were used. It extends south and west along the east and south sides of Lake Okeechobee from Lat. $26^{\circ} - 57.3'$, which is just south of Port Mayaca, Fla., to Long. $80^{\circ} - 59'$ which is just west of Clewiston, Fla. Photographs 4534 and 4433 are the western limits, 4544 is the southern most one, while 4561 is the photograph forming the northern limits.

The plot consisted of 34 templates all being for 9-lens photographs and being controlled by triangulation stations as follows: 1 by 9; 2 by 8; 1 by 7; 5 by 6; 2 by 5; 7 by 4; 6 by 3; 6 by 2; 4 by 1. Triangulation existing at the time of the field inspection could not, in a number of instances, be recovered due to it having been destroyed by cultivation. Therefore, a supplementary scheme of triangulation was established by this Party which proved adequate for rigid control throughout 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 grid squares. The agreement between the grid lines on the survey sheet and those on the base grid was excellent and no adjustment was necessary. After laying the plot, the intersections of the radial lines were transferred to the survey sheet by again matching grid squares as previously described.

The plot was laid only once, beginning on sheet T-5911 and working south and west until it was completed on sheet T-5905. The agreement along the flight lines and the intersections of radial lines to adjacent photographs was excellent. In some instances where a good intersection was not formed by the radial lines, the "cuts" were transferred to the survey sheet for further investigation by the draftman. They are as follows: Sheet T-5905 had 4; T-5906 had 4; T-5907 had 0; T-5908 had 8; T-5909 had 12; T-5910 had 6; T-5911 had 10. In addition to these, the radial lines were transferred to the survey sheet where only two "cuts" could be obtained. The draftman will determine the value of these 2-cut intersections, . 47 such instances occur in the entire plot. All other points were established by the intersections of from 3 to 6 radial lines.

This plot is considered "Strong"; no large or unusual adjustments were necessary; and all points are picked within 0.25 m.m. of their true position.

Various colored inks were used on the photographs and survey sheets to designate control, topographic stations and radial points.

The following key is furnished for reference:

PHOTOGRAPHS

Triangulation and Traverse Stations.....2.5 m.m. blue circle
Hydrographic and Topographic Stations.....2.5 m.m. green circle
Radial Points in the Main Plot.....2.5 m.m. red circle
Radial Points (Additional).....3.5 m.m. red circle
Photograph Centers.....Double white circle

SURVEY SHEETS

Triangulation and Traverse Stations.....3.5 m.m. high black triangle
Hydrographic and Topographic Stations.....2.5 m.m. black circle
Radial Points on Main Plot.....2.5 m.m. blue circle on back
Radial Points (Additional).....3.5 m.m. blue circle on back
Photograph Centers.....Double blue circle on back

NON-FLOATING AIDS

The Non-floating aids appearing on this sheet have been listed on form #567, which has been made a part of this report.

INTERPRETATION OF PHOTOGRAPHS

The photographs were exceptionally clear but due to the nature of the terrain a little difficulty was experienced in deciding which was a ditch or field road where some paralleled one another.

FIELD INSPECTION

Field inspection was made by Lieut. James D. Thurmond during February and March 1942 and notes appearing on field photographs were considered adequate.

DETAILING

This sheet was detailed in accordance with the current instructions for this project.

The photographs for this drawing, namely, 4541, 4542, 4651 and 4652 were nine lens photographs. Photographs 4540 and 4543, also nine lens photographs, were used to interpret details although their respective picture centers did not fall within the tracing limits. All the above photographs were considered adequately clear and of good scale.

Before detailing, the surface of this sheet was rubbed with magnesium carbonate and washed off. No additional cleaning or inking has been necessary.

The stereoscope was employed in interpreting detail wherever same was considered necessary. Symbols have been used wherever it was considered the better procedure.

The legend used by the Field Inspection Party and by the draftsman is made a part of this report.

JUNCTIONS

THIS survey sheet joins sheet #T-5906 on the west and sheets T-5908 to T-5909 on the east. All junctions are in good agreement.

GEOGRAPHIC NAMES

A report on the investigation of geographic names was made and submitted by Harold A. Duffy, Senior Photogrammetric Aid, covering that part of Florida East Coast, St. Lucie River Cross State Waterway and Lake Okeechobee.

LAND MARKS

Land Marks "Old Stack" and "Large Tree-Ritta Island" (Chart affected #805) have been razed, respectively. Land mark "Hurricane Gate #3 (Hart 1942) has been listed on form 567 and made a part of this report.

Respectfully submitted,

Harold V. Reid
Harold V. Reid
Engineering Draftsman

Forwarded by

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

LANDMARKS FOR CHARTS

TO BE CHARTED }
~~FOR BUREAU USE ONLY~~ } STRIKE OUT ONE

1101 E. Broadway, Tampa, Fla. September 12, 1924

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

The positions given have been checked after listing

Ident. Comdr. Kenneth G. Crosby

Chief of Party.

[illegible]

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.

LANDMARKS FOR CHARTS

2101 E. Broadway, Tampa, Fla. September 12, 1968

~~TO BE DELETED~~ } STRIKE OUT ONE

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

The positions given have been checked after listing

Ident. Comdr. Kenneth G. Crosby

Chief of Party.

[illegible]

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.

FIELD BOOK FOR FIELD DESCRIPTION AND DRAFTING PROJECT 813 - 1942

PLANTS

- P - Pine
- Cy - Cypress
- Falc - Palmetto
- Falc - Palm
- D T - Deciduous trees (broad leaf)
- Cit - Citrus (orchard)
- Mix - Pine, cypress & Dec. trees (Density)
- Scb. - Scattered
- t.v. - Thinly scattered
- h.v. - Heavily wooded
- Scr. - Scrub trees

VEGETATION

- C - Cultivation
- Gr - Grass
- T Gr - Tall Tropical Grass
- M - Marsh (dashed blue line on inshore limits)
- MW - Marsh grass in water (dashed blue line on offshore limits)
- Sw - Swamp
- MG - Mangrove
- Edg - Edge

STRUCTURES

- Ca - Canal (width)
- Cr - Creek
- D - Ditch (width)
- I S - Inter-ittant Stream
- PD - Probable Drainage unsurveyed
- Br - Bridge or symbol
- Cv - Culvert
- Lv - Ledge

- FOS - Florida Geodetic Survey
- UES - U. S. Engineers
- UBS - U. S. Biological Survey

ROADS & RAILROADS

- M 1 - 1st class road (paved)
- M 2 - 2nd class road
- T - Trail
- R R - Railroad
- OP - Overpass (state the kind)
- UP - Underpass (state the kind)
- X - Abandoned trail, road, etc.
- Ab - P.O. abandoned (grade only)

FOUNTS

- P - Pond
- Cy P - Cypress Pond
- I P - Inter-ittant Pond

SYMBOLS

- R.H.L. - Mean high waterline (solid red line - fast land)
- L.H.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
- Head - Bulkhead
- Conc - Concrete
- Wo - Wooden
- Jet - Jetty
- Dol - Dolphin
- Pile - Pile (give type)
- S - Sand
- Sh - Mud
- R - Rock or Rocky
- Sty - Stony
- W - Water
- Ht - Ht (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)
- Sta - Railroad station (give name)
- Hos - Hospital (give name)
- Sch - School (give name)

NEIGHBORHOODS

- F - Fence
- FB - Fire Break (maintained)
- ABK - Fire Break (abandoned)
- Can - Cemetery
- Park - Park (give name)
- T.O. - Fire tower
- T.T. - Transmission tower (tall steel)
- P.L. - Power Line
- Canal - Approx. limits by long dashed line for use by hydrographer.

SYMBOLS USED FOR FIELD MAPS, PLANS AND DRAFTING
PROJECT 242 - 1942

TREES

Pl - Pine
 Cy - Cypress
 Palo - Palmetto
 Palu - Palm
 D T - Deciduous trees (broad leaf)
 Cit - Citrus (orchard)
 Mix - Pine, cypress & Dec. trees
 (Density)
 scs. - 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/ - Marsh grass in water (dashed blue
 line on offshore limits)
 Sw - Swamp
 Mg - Mangrove
 Rds - Reeds

STRAITS

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

FSS - Florida Geostatic Survey
 US - U. S. Engineers
 USB - 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/ab - R.R. abandoned (grade only)

POUNDS

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

WATER LINES

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
 Fr - Pier
 Ce W - Seawall
 Bhd - Bulkhead
 Ccnc - Concrete
 Wo - Wooden
 Jet - Jetty
 Dol - Dolphin
 Pilo - Pile (give type)
 S - Sand
 Mud - Mud
 Rk - Rock or Rocky
 Sty - Stony
 W - Water
 Hgt - Height (height)

BUILDINGS

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

ENGINEERING

T - Trench
 FB - Fire Break (maintained)
 ABH - Fire Break (abandoned)
 Cen - Cemetery
 Park - Park (give name)
 T.T. - Tiro tower
 T.R. - Transmission tower (tall steel)
 P.L. - Power Line
 Gual - Approx. limits by long dashed
 line for use by hydrographer.

T-5907

Remarks.

Decisions

1		269806-08 USGB
2		267808-09
3		267806-07
4		"
5		266806-08
6		"
7		"
8		"
9		"
10		"
11		Railway Guide
12		"
13		1941 Off. Road Map
14		
15		
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GEOGRAPHIC NAMES
Survey No. T-5907

Name on Survey	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.	
Lake Okeechobee										1
Ritta Island										2
Halifax Bank										3
South Bay										4
Lake Harbor										5
Miami Canal ✓										6
Miami Locks Plantation										7
Bean City										8
Hurricane Gate No. 3										9
Culvert No. 4A										10
Florida East Coast Ry.										11
Atlantic Coast Line R.R.										12
Florida Highway No. 25										13
										14
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										27

Names underlined in red approved
by L. Heck on 12/29/42

Division of Photogrammetry
Review of Planimetric Map T-5907

Field Inspection and Detailing.

These were generally complete and adequate. A number of drainage ditches omitted by the compiler were added during the review. The distinctions between Marsh Island, visible at high water and low grass in the water is very indefinite in this area, and much of the marsh shoreline has been revised by the reviewer, after a study of the charts, the adjoining manuscript, and the photograph. Changes made during review are shown on the manuscript in red.

Comparison with Previous Surveys.

T-5907 has been compared with and supersedes T-4127(1:20,000)1925. The shoreline in this area has changed ~~readily~~ due to the construction of a levee along the lake shore.

Comparison with Nautical Charts.

T-5907 was applied to chart 1289 prior to this review. The revision of shoreline made during the review may affect the chart, and should be examined the next time chart 1289 is taken up for correction.

This report prepared by B. G. Jones from reviewer's notes, July 1947.

Reviewed under the direction of R. M. Berry, January 1944.

APPROVED BY:

B. G. Jones 7/47

Technical Assistant to the
Chief, Div. of Photogrammetry

K. T. Adams

Chief, Div. of Photogrammetry

R. M. Berry

Chief, Nautical Chart Br.
Division of Charts

C. K. Green

Chief, Div. of Coastal
Surveys 194

NAUTICAL CHARTS BRANCH

SURVEY NO. T-5907

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.