

5906

5906

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric

Field No. T-5906 Office No. _____

LOCALITY

State Florida

General locality Lake Okeechobee

Locality Little Bare Beach & Vicinity
Photos taken Jan. 9, 1940 and supplemented by ground surveys to April
1942 1942

CHIEF OF PARTY

Lieut. Comdr. Kenneth G. Crosby

LIBRARY & ARCHIVES

DATE

July 21 - 1947

B-1870-1 (1)

Applied to chart 1289 8-2-43 GTE

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

15906

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
~~Field~~ No. **T-5906**

REGISTER NO.

State **Florida**

General Locality **Florida East Coast**

Locality **Little Bare Beach and Vicinity**
Lake Okeechobee, vicinity of Lake Harbor, Florida
Photos

Scale **1:10,000** Date of ~~survey~~ **January 9, 1940**

Party
~~Survey~~ **Air Photographic Party No. 1**

Chief of party **Lieut. Comdr. Kenneth G. Crosby**

Field Inspected by: **Harold A. Duffy, Sr. Photogrammetric Aid**
~~Surveyed by~~

Inked by **F. H. Elrod, Photogrammetric Aid**

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated **April 3**, 19**40**

Remarks:

Office Memorandum

	Date	Hours
Control Sheets.....	JDT, FHE, HAD ; Mar., Apr.,	67
Flammable Sheets.....	June	
Total		67

Preparation of Photographs.....	CH, JEH, FHE	Oct. Nov.	7½
Field Work.....	GEV, JDT	Apr.	10
Index Notes.....			
Air Pilot Notes.....			
Geographic Data Sheets.....	FHE	May	5
Land Marks for Charts.....			
Description Cards.....	HAD	May	7½
Recovery Notes.....			
Total			29½

Office Memorandum

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.....	RD	June	1½
Transfer Checked.....	ALK	June	1½
Control Picked on Photograph.....	AVR	May	1½
Control Checked on Photograph.....	CHW	May	1½
Hydro & Sps. Stations Picked.....	HVR, CHW	May	1
Radial Points Picked.....	GEV	May	6
Adjacent Contour Picked.....	HVR, ERH	April	7½
Templating.....	HGB, CHW	May	11
Radial Plot.....	X	June	5½
Radial Points Transferred.....	WHS	June	1
Transfer checked.....	ECA, HAD	June	3½
H & S Stations Scaled & Checked.....	FHE, BOB	July, Aug.	3
Additional Radial Points.....	FHE	July	13½
Investigation of Radial Points.....			
X-Several of Office Personnel			
Total			54½

Office Memorandum

Rough Draft.....	FHE	July	86½
Smooth Draft.....			
Total			86½

COMPLETION

Name overlay.....	FHE	July	7
Descriptive Report.....	FHE	July	4
Field Notes.....	RD	Sept.	8
Total			19

Total time spent on sheet..... 257 hours

PHOTOGRAPHS

Number	Date	Time	Stage of Tide
4538	1-9-40	10:58 A.M.	No Tide
4539	1-9-40	10:59 A.M.	
4540	1-9-40	11:00 A.M.	
4650	1-9-40	2:31 P.M.	

Tide from predicted tables for: No Tide

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

SCALE

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

STATISTICS

Area (land)..... 16.39 Square statute miles
Shoreline (more than 200 m. from opposite shore).... 6.56 Statute miles
Shoreline (creeks)..... 14.49 Statute miles
Roads, streets, trails, and railroads..... 22.54 Statute miles

REFERENCE STATION

Station: Med. 1942

Latitude:

26° 43' (1233.8 m.) 26° 43' 40.09"

Datum: N. A. 1927

Longitude:

80° 51' (293.8 m.) 80° 51' 10.69"

Adjusted
~~There was no triangulation station on this
islet and no reference station will be
shown on the map. The adjoining islets
for reference stations. Station "Med" is not
on T 5906 map.~~

*This control has been adjusted and the
station should be shown as Δ.*

Med MED, 1942 x = 547,992.58 ft. Fla. E. zone
y = 870,217.03 ft.

5904-5911

DESCRIPTIVE REPORT
TO ACCOMPANY
SHEET NO. T-5906

GENERAL

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

The area covered by this sheet is in the general locality of the Florida East Coast and Lake Okeechobee, in the immediate vicinity between the towns of Lake Harbor and Clewiston on the South Shore of Lake Okeechobee. It is flat land with the exception of the levee which extends approximately twenty-five feet above the surrounding terrain. Most of the land is under cultivation. The cultivated areas are controlled by an elaborate drainage system, with drainage ditches surrounding almost all of the fields. Some of the land which has not been drained and cultivated has been labeled "Glade Land". The vegetation is mostly brush and grass with a few scattered palm and deciduous trees.

DETAILING

Sheet T-5906 was detailed in accordance with the current instructions for the project. Photographs 4538, 4539, 4540 and 4650 were in good scale. A few radial points were added to those of the Main Radial Plot so that more accurate detailing could be accomplished. Labels were used freely by the draftsman except in small areas where smooth drafting was necessary to give a better interpretation of vegetation. The stereoscope was frequently used to interpret detail and limits of vegetation.

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

Roads shown by centerline should be shown 0.6 m.m. wide.

CONTROL

There is no first or second order triangulation control on this sheet. A scheme of triangulation run by this party during March and April 1942 was not considered sufficiently strong to be used as triangulation. Reference is made to the Director's letter dated July 20, 1942, Reference No. 28-PFA-1990, Subject: Lake Okeechobee Triangulation. This control was used in running the main radial plot and good results were obtained. "MED 1942" was used as the reference station.

Note: This control has been adjusted and will should be shown as A. See G.P.'s in file. 11-23-43

MAIN RADIAL PLOT

A continuous radial plot was run on July 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 T-5911, inclusive. All photographs in the area were used. It extends south and west along the east and south

Mr. Sutcliffe & Mr. Williamson, in Geodesy state that the triangulation around Lake Okwachobee has been adjusted and is satisfactory. However, two stations, "Duo" and "Dar", adjacent to "Med" (Ref. Sta. for this map) ~~were observed to from only one station~~ had one ~~obs~~ observation each but were not shown in the system as published, even tho' they could qualify as azimuth stations of the stations from which they were observed.

These stations are marked with standard topographic station discs stamped as named and set in top of 6 inch round concrete monuments.

S. J. Gifford
Dir. of Photo
18 July 1947

Enclosed for the Bureau are two copies of a report on the results of the triangulation work done at Okwachobee, Lake Okwachobee, and the results of the work done at the other stations. The report is in the form of a letter to the Bureau and is dated July 18, 1947.

Very truly yours,
S. J. Gifford

cc - Mr. Williamson, Mr. Sutcliffe, Mr. Williamson

A copy of the report is being sent to the Bureau and a copy is being sent to the Division of Geodesy. The report is in the form of a letter to the Bureau and is dated July 18, 1947.

Very truly yours,
S. J. Gifford

sides of Lake Okeechobee from Lat. $26^{\circ} - 57.5'$, which is just south of Port Mayaca, Fla., to Long. $80^{\circ} - 59'$, which is just west of Clewiston, Florida. Photographs 4534 and 4433 are the western limits, 4544 is the southernmost 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 draftsman. 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 draftsman 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

FIELD INSPECTION

Field Inspection was made during the month of April 1942 by Harold A. Duffy, Senior Photogrammetric Aid. Field notes were adequate for detailing.

JUNCTIONS

Satisfactory junctions were made with the adjoining sheet, T-5907 which is on the east, and T-5905 which is on the west.

COMPARISON WITH OTHER SURVEYS

The existing charts of this area are of such scale that no accurate comparison can be made.

GEOGRAPHIC NAMES

The geographic names for this area are the subject of a special report entitled "Investigation of Geographic Names, Florida East Coast, St. Lucie River, Cross State Waterway and Lake Okeechobee", submitted to the Washington Office by Harold A. Duffy, Senior Photogrammetric Aid.

LAND MARKS

There are no existing land marks on sheet T-5906. "Building, Little Bare Beach"; the only land mark previously charted, has been destroyed. This information is submitted on Form No. 567, which is a part of this report.

Respectfully submitted,

Frank H. Elrod
Frank H. Elrod
Photogrammetric Aid

Forwarded by:

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

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

TREES

Pi - Pine
Cy - Cypress
Pal - Palmetto
Palm - Palm
D T - Deciduous trees (broad leaf)
Cit - Citrus (orchard)
Mix - Pine, cypress & Dec. trees
(Density)
Scat. - 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)
MW - 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
PIDU - Probable drainage unsurveyed
Brg - Bridge or symbol
Cv - Culvert
Lov - Love

FCS - Florida Geodetic Survey
USE - 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.
RH ab - P.R. abandoned (grade only)

PONDS

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

SHORELINE

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

~~NO RECHARTERED~~ } STRIKE OUT ONE
~~TO BE DELETED~~

1101 E. Broadway, Tampa, Florida
Sept. 8, 1942 193

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.

838-1943

838-1943

Wm. W. Foster, Secretary
Chief of Bureau

[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.

Remarks

Decisions

1		269806-08 USGB
2	Apply this name pending decision of USGB	267808-09
3		266806-08
4		Railway Guide
5		267808-09
6		
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GEOGRAPHIC NAMES

Survey No. T-5906

GEOGRAPHIC NAMES										
Survey No. T-5906										
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	
<u>Lake Okeechobee</u>	✓									1
<u>Little Bare Beach</u>	✓									2
<u>Miami Canal</u>	✓									3
<u>Culvert No. 3</u>	✓									4
<u>Atlantic Coast Line R.R.</u>	✓									5
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M 234

L. Heck T 12/29/42

Division of Photogrammetry
Review of Planimetric Map T-5906

Field Inspection and Detailing.

These were generally complete. A few roads were added by the reviewer, and are shown in red on the manuscript.

Comparison with Previous Surveys.

T-5906 has been compared with and supersedes T-4127(1:10,000)1925 in the common area.

Comparison with Nautical Charts.

T-5906 was applied to chart 1289 prior to this review. Changes made during the review do not affect the chart.

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

H. E. Reeling
Chief, Nautical Chart Br.
Division of Charts

C. K. Green
Chief, Div. of Coastal
Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. T-5906

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.