

5904

5904

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Planimetric Map
Field No.	Office No. T-5904
LOCALITY	
State	Florida
General locality	Lake Okeechobee
Locality	West of Clewiston, Fla. Liberty Point Plantation
Photos taken Dec. 1939 and supplemented by ground surveys to April 1942.	
CHIEF OF PARTY	
Lt. Comdr. Kenneth G. Crosby	
LIBRARY & ARCHIVES	
DATE	July 21 - 1947

Applied to chart 1289 Aug. 7, 1943 G.T.E. (before review)

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.
15904

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
~~xxxxx~~ No. **T-5904**

REGISTER NO.

State **Florida**

General Locality **Lake Okeechobee**

Locality **West**
Vicinity of Clewiston, Florida **Liberty Point Plantation**

Scale **1:10,000** Date of **Photos** **December 21 19 39**
~~xxxxx~~

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

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

Field inspected
~~xxxxxx~~ by **Lieut. J. D. Thurmond & Geo. E. Varnadoe, Prin, Photo**
Aid

Inked by **Robert D. Eis, 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: _____

SUPPLEMENTARY SURVEYS

	Name	Date	Hours
Control surveys.....	GEV	May	8
Planstable Surveys.....			

FIELD INSPECTION

		Apr. Total 1942	8
Preparation of Photographs.....	CH, JEH, FHE	Oct. Nov. 1942	5 1/4
Field Work.....	FHE, GEV	Apr.	18
Inking Notes.....			
Coast Pilot Notes.....			
Geographic Name Reports.....	FHE	May	2
Land Marks for Charts.....			
Description Cards..... and	GEV	Apr. May	10
Recovery Notes.....			

MAIN RADIAL PLOT

		Total	35 1/4
		Aug. 1942	
Scale Plot.....	ALK	July 1942	2 1/4
Projection on Base Sheet.....	Washington		
Projection on Survey Sheet.....			
Control Plotted.....	JEH	Aug.	2 1/4
Control Checked.....	JEH, EMB	Aug.	1 1/4
Control Trans. to Base Sheet.....	JEH	Aug.	1/4
Transfer Checked.....			
Control Picked on Photograph.....	HVR, CHW	May	8
Control Checked on Photograph.....	CHW	May	1 1/4
Hydro & Topo. Stations Picked.....	HVR, CHW	May	5 1/4
Radial Points Picked.....	JEH	May	2
Adjacent Centers Picked.....	HVR, ERH	April	13
Templates.....	HGB, JCP, BOB	May, July	10
Radial Plot.....	X	Aug.	7 1/4
Radial Points Transferred.....	RDE, FHE	Aug.	3
Transfer checked.....	FHE	Aug.	1 1/2
H & T Stations Scaled & Checked.....	RDE, BOB	Aug.	1 1/2
Additional Radial Points.....			
Investigation of Radial Points.....	RDE	Aug.	4

DETAILING

Rough Draft.....	RDE	Aug. 1942	60 1/2
Smooth Draft.....			

COMPILATION

Name Overlay.....	RDE	Aug. Aug. 1942	4 1/2
Descriptive Report.....	RDE	Aug.	4
Field Review.....	RD	Sept.	10
		Total	18 1/2

Total time spent on Sheet.....: 177 1/2 hours

X= Several of Office Personnel

PHOTOGRAPHS

Number	Date	Time	Stage of Tide
4429	12-21-39	11:09	No Tide
4430	"	11:10	
4431	"	11:11	
4432	"	11:12	
4433	"	11:13	
4532	"	10:50	
4533	"	10:51	
4534	"	10:52	
4535	"	10:53	

Tide from predicted tables for: No Tide

CAMERA: U. S. Coast and Geodetic Survey Nine-Lens (focal length $9\frac{1}{2}$ inches)

SCALE

Mean scale of Photographs..... 1:10,000 ± 1:10,014
Scale of Survey Sheet..... 1:10,000

STATISTICS

Area (land)..... 33.3 Square statute miles
Shoreline (more than 300 m. from opposite shore)... nil Statute miles
Shoreline (creeks)..... 63.8 Statute miles
Roads, streets, trails, and railroads..... 30.6 Statute miles

REFERENCE STATION

Station: Clewiston, 1937 ✓ Latitude: $26^{\circ} 45' 14.248''$ (438.5 m.) ✓
Datum: N.A. 1927 ✓ Longitude: $80^{\circ} 59' 27.298''$ (754.3 m.)

Adjusted

check JON
12-29-42

Fla. E Zone

X = 502,964.36
Y = 879,697.22

DESCRIPTIVE REPORT
TO ACCOMPANY
SHEET NO. T-5904

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 Lake Okeechobee, Florida. The immediate location is that area lying west of the town of Clewiston, Florida and east of Lake Hicpochee, Florida.

The terrain consists of land of uniformly low elevation covered by an extensive network of canals and ditches. With the exception of the north-eastern portion of this sheet, which is cultivated land, the vegetation consists principally of grass, bushes, and scrub growth.

CONTROL

The following triangulation stations were used for control on this sheet:

<u>STATION</u>	<u>YEAR</u>	<u>ESTABLISHED BY</u>
Whidden	1937	R. A. Earle
Clewiston	1937	R. A. Earle
Liberty Point U.S.		
Sugar Plantation	1937	R. A. Earle
Small Westerly Tank		
Moore Haven U.S.		
Sugar Corp. Gramling	1937	R. A. Earle
Plantation Small Tank		

MAIN RADIAL PLOT

A continuous radial plot was run on August 4th and 5th, 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-5890, T-5891, T-5892 and T-5904, which area is the southwest extremity of Lake Okeechobee. It is to the west of Clewiston, Florida, and has for its eastern limits photographs 4534 and 4433. Photographs on the westernmost part are numbers 4427 and 4528 while the northern limits are photographs 4636, 4641 and 4646.

27 templates were used, all being for 9-lens photographs, and being controlled by triangulation as follows: 5 by 6; 0 by 5; 1 by 4; 2 by 3; 4 by 2; 14 by 1; 1 by 0. The existing triangulation 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 sheets and those on the base grid was good and only a small amount of adjustment was necessary. After laying the plot, the intersections of radial lines were transferred to the survey sheet by again matching grid squares as previously described.

The plot was laid by beginning on sheet T-5904, tying in to existing points from a previous plot covering sheets T-5905, T-5911 inclusive, and working west and northwest keeping the two flight lines tied together by triangulation control and the intersections of radial lines. After the laying of these two flight lines was completed, templates 4646 - 4649 inclusive, were layed by tying into the intersections of radial lines already formed and using triangulation which existed on the northeast part of sheet T-5892. The agreement along the flight lines and the intersections of radial lines to adjacent photographs was good. 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-5890 had 2; T-5891 had 29; T-5892 had 6; T-5904 had 6. In addition to these, the radial lines were transferred to the survey sheet where only two cuts could be obtained. There are 42 instances where this occurred throughout the entire plot. The draftsman will determine the value of these 2-cut intersections. All other points were established by the intersections of from 3 to 8 radial lines.

This plot is sufficiently strong to assure accurate detailing of the survey sheets as no large or unusual adjustments were necessary and all points are picked within 0.25 m.m. of their true positions.

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
Additional radial points-----	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

INTERPRETATION OF PHOTOGRAPHS

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

FIELD INSPECTION

The field inspection was made during April 1942 by Lieut. J. D. Thurmond and George E. Varnadoe, Principal Photogrammetric Aid. Field notes were sufficient for interpretation of vegetation and over all detailing of the sheet.

DETAILING

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

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

The stereoscope has been freely used as an aid to interpretation of the photographs.

All roads shown by a single line should be 0.6 m. wide.

Photograph 4632 shows evidence of tilt. The scale of the other photographs are all reasonably good.

JUNCTIONS

On the north boundary of this sheet, west of Long. $81^{\circ} - 03'$, a junction is made with sheet T-5891. East of Long. $81^{\circ} - 03'$, a junction is made with sheet T-5892. On the east this sheet joins sheet T-5904 and on the west it joins sheet T-5890. The junctions are in agreement. 5

COMPARISON WITH OTHER SURVEYS

No survey sheet was available for a comparison in this area.

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 Canal, Cross State Waterway and Lake Okeechobee, May 30, 1942", submitted to the Washington Office by Harold A. Duffy, Senior Photogrammetric Aid.

LANDMARKS

There are no prominent land marks within the limits of this sheet.

Respectfully submitted,

Robert D. Eis

Robert D. Eis,
Photogrammetric Aid

Forwarded by:

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

MANUAL USED FOR FIELD INSTRUCTION AND DRAFTING PROJECT 243 - 1942

TREE

P - Pine
Cy - Cypress
Pal - Palmetto
F - 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

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
Rdg - Ridge

STREAMS

Ca - Canal (width)
Cr - Creek
D - Ditch (width)
I S - Intermittent Stream
PTU - Probable drainage unsurveyed
Brg - Bridge or symbol
Cv - Culvert
Lcv - Looce

FCS - Florida Coodetic Survey
UES - U. S. Engineers
UBS - 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.
Ri ab - P.R. abandoned (grade only)

PONDS

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

AND PLANE

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)
Rk - Rock
Pr - Pier
Co B - Seagull
Rhd - Railroad
Coco - Concrete
Wo - Wooden
Jet - Jetty
Del - Dolphin
Pile - Pile (give type)
S - Sand
Mud - Mud
Rk - Rock or Rocky
Sty - Stony
W - Water
Hf - Huff (height)

MANMADE

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)

MAN-MADE

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

- W. - Pine
- G. - Cypress
- W. - White
- W. - White
- W. - Luscious trees (Pine and
- W. - Luscious (Pine)
- W. - Pine, Cypress & Luscious trees
- (Pine)
- Get. - Scattered
- W. - Thinly scattered
- W. - Thinly scattered
- Get. - Luscious trees

- G - Cultivation
- Gr - Grass
- T Gr - Tall Tropical Grass
- H - Herb (Cachoe) plus limo on
insulo in situ
- W - Marsh Grass in water (Cachoe plus
limo on offshore islets)
- Dr - Dry D
- Up - Mangrove
- Wd - Dodge

- ca - Canal (width)
- cr - Creek
- D - Ditch (width)
- I U - Intermittent Stream
- FW - Probable drainage watershed
- Br - Bridge or symbol
- cr - Culvert
- Low - Lowce

722 - Florida Geologic Survey
 723 - U. S. Engineers
 724 - U. S. Biological Survey

- HD 1 - 1st class road (paved)
- HD 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.
- Ab - P.R. abandoned (grade only)

P - Bond
Cy P - Cyprax Bond
I P - Intersect Bond

To Color - Low High waterline (solid red line) - fast land
 Low - low waterline (dashed red line)
 To - Light blue (solid blue line for areas high water line on marsh)
 to - Shrub
 to - Pier
 to - Highway
 to - Railroad
 to - Concrete
 to - Wooden
 to - Rocky
 to - Vegetation
 to - Pile (give type)
 to - Sand
 to - Mud
 to - Rock or Rocky
 to - Story
 to - Water
 to - Height (height)

H - Home, barn or buildings
 Ch - Church (give name)
 Co H - Court House (give name)
 Do H - Post House
 P.O. - Post Office (give name)
 R.R. Sta. - Railroad station (give name)
 Ho - Hospital (give name)
 Sch - School (give name)

- 3 - Fence
- DB - Dive break (mineralized)
- DB - Dive break (abandoned)
- Can - Cemetery
- Rock - Rock (dive area)
- P.O. - Dive tower
- P.O. - Trans. location tower (tall steel)
- P.O. - Power line
- Cheat - Approx. limits by long dashed line for use by hydrographer.

Remarks.

Decisions

1	For title: town east of this sheet	267808-09
2		268809-11
3		"
4		267808-09
5		268809-11
6		Railway Guide
7		1941 Off. Road Map
8		"
9		"
10	For title, lake not being included within this sheet.	269806-08 USGB
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. T-5904

GEOGRAPHIC NAMES											
Survey No. T-5904											
Name on Survey											
	A.	B.	C.	D.	E.	F.	G.	H.	K.		
<u>Clewiston</u> Town shown in T-5905											1
<u>Whidden Corner</u>											2
<u>Emory-Riddle Airfield</u>											3
<u>Liberty Point Plantation</u>											4
<u>Grambling Plantation</u>											5
<u>Atlantic Coast Line R.R.</u>											6
<u>Florida Highway No. 25</u>											7
<u>Florida Highway No. 29</u>											8
<u>Florida Highway No. 67</u>											9
<u>Lake Okeechobee</u>											10
<u>Moore Haven Airport</u>											11
											12
											13
											14
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											26
											27

M 234

Division of Photogrammetry
Review of Planimetric Map T-5904

Field Inspection and Detailing.

These were generally adequate. A number of minor drainage ditches and a few second class roads were omitted by the compiler and have been added during the review.

Comparison with Previous Surveys.

T-5904 supersedes T-4128, 1:20,000, 1925, over the common area.

Comparison with Nautical Charts.

T-5904 was applied to chart 1289 prior to this review. Changes made during the review are shown on the manuscript in red, but do not affect this chart.

Reviewed under the direction of D. H. Benson, December 1943.

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

APPROVED BY:

B. G. Jones 7/47
Technical Assistant to the
Chief, Div. of Photogrammetry

K. T. Adams
Chief, Div. of Photogrammetry

J. E. Sturtevant
Chief, Nautical Chart Br.
Division of Charts

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

NAUTICAL CHARTS BRANCH

SURVEY NO. T-5904

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.