

5899

on Diag. Ch. 804

5899

Form 504
Rev. June 1941
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Air Photographic } Sheet
Plane Table } ~~Survey~~ No. T-5899
Hydrographic } (Field)

LOCALITY

State Florida

General locality Okeechobee County

Locality Lake Okeechobee, vicinity

of Kissimmee River

Photos: Jan. 9, 1940

194 2

CHIEF OF PARTY

Lieut. Comdr. Kenneth G. Crosby

applied to ch. 1289 7/13/43 LHE
1289 inspected after review (no case) LHE.

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.

Field No.

REGISTER NO. T-5899

State Florida

General Locality Okeechobee County

Locality Lake Okeechobee, vicinity of Kissimmee River

Scale 1:10,000 Date of ~~Survey~~ Photos January 9, 19 40

~~Party~~ Air Photographic Party No. 1

Chief of party Lieut. Comdr. Kenneth G. Crosby

Field Inspected by: George E. Varnadoe, Principal Photo Aid
~~Surveyed by~~

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, 19 40

Remarks:

SHEET No. T— 5899

SUPPLEMENTARY SURVEYS

	Name	Date	Hours
Control surveys.....	GEV	May	1
Planetable Surveys.....			
Total			1

SUPPLEMENTARY SURVEYS

Preparation of Photographs.....	GEV, JEH, CH	Oct. Nov. Dec.	4 $\frac{1}{2}$
Field Work.....	GEV, FHE, JDT	Mar. Apr.	18
Inking Notes.....			
Coast Pilot Notes.....			
Geographic Name Reports.....	FHE	May	3
Land Marks for Charts.....			
Description Cards & Recovery Notes.....	GEV	May	9
Total			34 $\frac{1}{2}$

MAIN RADIAL PLOT

Scale Plot.....	ALK	May	1 $\frac{1}{2}$
Projection on Base Sheet.....) Washington Office		
Projection on Survey Sheet.....			
Control Plotted.....	JEH	Aug.	1 $\frac{1}{2}$ 1 $\frac{1}{2}$ 1 $\frac{1}{2}$
Control Checked.....	EMB, JEH	Aug.	
Control Trans. to Base Sheet.....	JEH	Aug.	
Transfer Checked.....			
Control Picked on Photograph.....	HGB	May	1 $\frac{3}{4}$
Control Checked on Photograph.....	ALK, GEV	May	2 $\frac{1}{4}$
Hydro & Topo. Stations Picked.....	GEV, ALK	May	2
Radial Points Picked.....	LCB	May	3 $\frac{1}{2}$
Adjacent Centers Picked.....	RDE	Apr.	2 $\frac{1}{2}$
Templates.....	BOB	July	5 $\frac{1}{2}$
Radial Plot.....	X	Aug.	1 $\frac{1}{2}$
Radial Points Transferred.....	JEH	Aug.	1 $\frac{1}{4}$
Transfer Checked.....	RDE, JEH	Aug.	1 $\frac{1}{4}$
H & T Stations Scaled & Checked.....	JEH, BOB	Aug.	1 $\frac{1}{2}$
Additional Radial Points.....			
Investigation of Radial Points.....	JEH	Aug.	5
Total			31 $\frac{1}{2}$

DETAILING

Rough Draft.....	JEH, HAD	Aug. Sept.	48
Smooth Draft.....			
Total			48

COMPILATION

Name overlay.....	JEH	Aug.	2 $\frac{1}{4}$
Descriptive Report.....	JEH	Aug.	9 $\frac{1}{4}$
Field Review.....	RD	Sept.	4
			15 $\frac{1}{2}$
Total time spent on Sheet.....			130 $\frac{1}{2}$ hours

X=Several of Office Personnel

DESCRIPTIVE REPORT
TO ACCOMPANY
SHEET NO. T-5899

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, Okeechobee County, Florida, in the immediate vicinity of Kissimmee River.

There is a levee, approximately 25 feet above mean Lake level, extending from the N.E. limits of detail in a S.W. direction to within 670 meters of the mouth of the Kissimmee River, there turning in a N.W. direction and running approximately 240 meters from the northern shore line of said river to the limits of detail. A 2nd class road runs along the top of this levee for the entire distance shown on sheet.

The terrain between the levee and the Lake consists entirely of marsh land. The terrain between the Levee and the Kissimmee River and from the southern shore line of said river to limits of detail is also low and marshy.

The terrain behind the levee consists mainly of abandoned cultivated areas, now grown over with grass and scattered brush. There are several intermittent and grassy ponds scattered throughout this area. There are a few scattered areas of cultivated land appearing on this sheet.

There are two State Roads appearing on this sheet, i.e. Florida State Road No. 29 and Florida State Road No. 194. Florida State Road No. 29 makes a junction with Florida State Road No. 194 in the extreme N.E. section of this survey sheet. #194 runs from said junction NE to limits of detail. #29 runs from N.E. limits of detail in a S.W. direction across sheet to limits of detail.

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

CONTROL

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

<u>NAME</u>	<u>YEAR</u>	<u>ESTABLISHED BY</u>
Egg	1924	L. D. Graham
Gull	1924	L. D. Graham

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 run on August 6 and 7, 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-5893 - T-5899 inclusive. All photographs in the area were used. It extends along the west side of lake from a point just north of Moore Haven, Florida, to a point slightly south of Oksechobee, Florida. Photographs forming the southern limits are 4636, 4641 and 4646. The most northern one is 4614.

There were 24 templates used, all being for 9-lens photographs and being controlled by triangulation stations as follows: 1 by 4; 1 by 3; 5 by 2; 13 by 1; 4 by 0. The existing triangulation was sparse but proved adequate for controlling 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 good and only small 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.

Overlapping points were transferred from a previous plot which covered sheets T-5890, T-5891, T-5892 and T-5904 to sheets T-5893 and T-5894. By holding these points the laying of templates proceeded north and northeast until a junction was made with existing points on a previous plot covering sheets T-5900-T-5903 inclusive. 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-5893 had 7; T-5894 had 0; T-5895 had 1; T-5896 had 5; T-5897 had 3; T-5898 had 14; T-5899 had 6. In addition to these a number of two-cut intersections were transferred to the survey sheets. About 10 percent of all points were 2-cut intersections, being caused by the single flight line covering most of the plot. All other points were established by the intersections of from 3 to 6 radial lines.

This is a very good plot and considered strong enough for accurate detailing of the survey sheets. 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
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
Additional radial points-----3.5 m.m. blue circle on back
Photograph Centers-----Double blue circle on back.

INTERPRETATION OF PHOTOGRAPHS

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

FIELD INSPECTION

Field inspection was not completed for this area due to official Washington orders. However, enough field inspection was done by George Varnadoe in March and April, 1942 to detail this sheet within a reasonable degree of accuracy. The field inspection was made on 1:10,000 scale photographs.

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 reinking was necessary.

There are approximately 70 radial points within the detail limits of this sheet of which 1/3 are two point intersections and the remaining 2/3 three point intersections.

The detail appearing on this sheet was taken from photographs 4614, 4615 and 4616 all of which were off scale in varying amounts.

Approximately equal areas of detail were taken from photographs 4614, 4615 and 4616.

Labels have been used to indicate type and density of vegetation in most cases.

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

JUNCTIONS

This sheet joins sheet No. T-5900 (1:10,000 scale) on the North and

and sheet No. T-5898 (1:10,000 scale) on the south and are in good agreement.

COMPARISON WITH OTHER SURVEYS

A comparison was attempted with a 1:20,000 scale chart made in 1924 and 1925, but no results obtained since so many changes have been made in this area since that early date.

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 by Harold A. Duffy, Senior Photogrammetric Aid, to the Washington Office May 30, 1942.

LAND MARKS

There are no prominent objects suitable for charting as landmarks on this sheet.

Respectfully submitted.

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

Forwarded by

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

UNIVERSITY OF FLORIDA SURVEYING DEPARTMENT
 P. O. BOX 243 • 1942

WOODS

- Pi - Pine
- Cy - Cypress
- Fal - Palmetto
- Fal - Palm
- P. P. - Deciduous trees (small leaf)
- Cit - Citrus (orange)
- Mix - Pine, cypress & Dec. trees (Specify)
- Oct. - Unclassified
- t. w. - Thicket wooded
- H. w. - Heavily wooded
- Scr. - Scrub trees

VEGETATION

- C - Cultivation
- Cr - Creek
- P. Gr - Hill (tropical grass)
- W - Marsh (Specify type and area)
- M. - Marsh (grass in water) (Specify area)
- De - Swamp
- Hg - Mangrove
- Wg - Hedge

ROADS

- W - Road (width)
- Cr - Creek
- W - Road (width)
- I. S. - Intermittent Stream
- FR - Frangible drainage unimproved
- BR - Bridge or symbol
- CV - Culvert
- Lar - Lagoon
- FGS - Florida Geologic Survey
- WE - U. S. Engineers
- WEG - U. S. Geological Survey

ROADS & RAILROADS

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

WATER

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

SYMBOLS

- H. L. - Low high waterline (solid red line - fast lens)
- W. L. - Low waterline (dashed red line)
- Light line (solid blue line & high water line on marsh)
- Dock
- Pier
- Small
- Highland
- Concrete
- Spoken
- Jetty
- Dolphin
- Pile (give type)
- Sand
- Rock
- Shack or dock
- Shanty
- Water
- Alt. - Altitude (height)

BUILDINGS

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

UTILITIES

- P - Pole
- FB - Fire Break (maintained)
- FR - Fire Break (abandoned)
- Can - Cemetery
- Park - Park (give name)
- P. P. - Fire Tower
- T. T. - Transmission tower (tall steel)
- P. L. - Power Line
- School - School (Specify location by long dashed line for use by hydrographer)

T-5899

Remarks

Decisions

	Remarks	Decisions
1		269806-08 USGB
2		271808
3		"
4		"
5		"
6		"
7		1941 ofb. Road Map
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GEOGRAPHIC NAMES

Survey No. T-5899

Name on Survey	Source of Name										
	A	B	C	D	E	F	G	H	K		
Lake Okeechobee											1
Kissimmee River											2
Eagle Bay											3
Lemkin Creek											4
Popash Slough											5
Culvert No. 7											6
Florida Highway No. 29											7
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Names identified for red approved
by L Heck on 12/28/42

Division of Photogrammetry

Review of Planimetric Map T-5899

This map was compiled in the Tampa Office and submitted to Washington in September 1942, but the Washington Office processing was delayed by war map work of the Bureau. The map was reviewed in 1944, drafted in 1945, printed in 1945, and registered in 1947.

Field Inspection and Detailing.

These were adequate.

Comparison with Previous Surveys.

T-5899 supersedes T-4124, 1:20,000, 1924. The construction of a levee along the lake shore has changed the shoreline considerably since the previous survey.

Comparison with Nautical Charts.

T-5899 was applied to chart 1289 prior to this review. No changes made during the review affect the chart.

Reviewed under the direction of D. H. Benson.

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

APPROVED BY:

B. G. Jones 5/47
Technical Assistant to the
Chief, Div. of Photogrammetry

K. T. Adams
Chief, Div. of Photogrammetry

[Signature]
Chief, Nautical Chart Br.
Division of Charts

[Signature]
Chief, Div. of Coastal
Surveys