

5896

on Dig. 21904

5896

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

DESCRIPTIVE REPORT

Air Photographic } Sheet
Plane Table } Survey No. T-5896
Hydrographic } (Field)

Photos Taken 1/9/40

LOCALITY

State Florida
General locality East Coast
Locality Lake Okeechobee
(Indian Prairie Canal)

1942

CHIEF OF PARTY

Lieut. Comdr. Kenneth G. Crosby

applied to ch. 1289 7/16/43 JHE

C

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 **T-5896**
~~Index~~ No.

REGISTER NO.

State Florida

General Locality Florida East Coast

Locality Lake Okeechobee (Indian Prairie Canal)

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

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

Chief of party Lieut. Comdr. Kenneth G. Crosby

Field Inspected by: Lt. J. D. Thurmond and
~~Survey~~ G. E. Varnadoe, Prin. Photogrammetric Aid

Inked by Ben O. Bryant, 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— 5896

SUPPLEMENTARY SURVEYS

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

SUPPLEMENTARY SURVEYS

Preparation of Photographs.....	CH, JEH, GEV	Oct. Nov. Dec.	5 $\frac{1}{2}$
Field Work.....	GEV, JDT	Apr.	10
Inking Notes.....			
Coast Pilot Notes.....			
Geographic Name Reports.....	FHE	May	5
Land Marks for Charts.....			
Description Cards & Recovery Notes.....	GEV	April, May	3
Total			23 $\frac{1}{2}$

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 $\frac{1}{2}$
Control Checked.....	EMB, JEH	Aug.	1 $\frac{1}{4}$
Control Trans. to Base Sheet.....	JEH	Aug.	1 $\frac{1}{4}$
Transfer Checked.....			
Control Picked on Photograph.....	GEV	May	5
Control Checked on Photograph.....	ALK	May	1
Hydro & Topo. Stations Picked.....	ALK, HVR	May	2
Radial Points Picked.....	LCB	May	3
Adjacent Centers Picked.....	RDE, ERH	April, May	4
Templates.....	RD, ELM, JCP	July, Aug.	7 $\frac{1}{2}$
Radial Plot.....	X	Aug.	1
Radial Points Transferred.....	JEH	Aug.	1 $\frac{1}{4}$
Transfer Checked.....	RDE, JEH	Aug.	1
H & T Stations Scaled & Checked.....	BOB, WHS	Aug.	1 $\frac{1}{4}$
Additional Radial Points.....			
Investigation of Radial Points.....	BOB	Aug.	8
Total			37

DETAILING

Rough Draft.....	BOB	Aug.	52
Smooth Draft.....			
Total			52

COMPILATION

Name overlay.....	BOB	Aug.	1 $\frac{1}{2}$
Descriptive Report.....	BOB	Aug.	3 $\frac{1}{2}$
Field Review.....	RD	Sept.	8

Total time spent on Sheet..... 125 $\frac{1}{4}$ hours

X=Several Office Personnel

Station	Date	Time	Tide
4626	1-9-40	2:06	No Tide
4627	1-9-40	2:06	No Tide
4628	1-9-40	2:07	No Tide

No Tide

10,000 + 1.008
1:10,000

7.10 square statute miles
18.9 statute miles
1.5 statute miles
5.5 statute miles

Station: Bear 1924, 1937 ✓

Station: N.A. 1927 ✓

Latitude:

27° 01' 06" 539 (201.3) m. ✓

Longitude:

81° 00' 54" 252 (1495.6) m. ✓

Adjusted

F12. E. Zone

x = 495,093.62

y = 975,848.57

Check JON.
12-29-92

DESCRIPTIVE REPORT
TO ACCOMPANY
SHEET NO. T-5896

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 East Coast, Lake Okeechobee, vicinity of Indian Prairie Canal.

The terrain north of Florida Highway #29, which runs northeast, southwest on sheet, is mostly glade land and grassy ponds that flood. There is practically no cultivated area on this sheet. North of Highway #29 is a canal which acts as a drain for this area. The vegetation is brush, grass and palm. Florida Highway #29 in this area acts as a dyke. South of Highway #29 is mostly grass in water with few scattered palm, brush, sand and grass areas. Indian Prairie Canal crosses northwest, southeast on north part of Sheet.

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

CONTROL

Two triangulation stations are shown on this sheet, namely: Elderberry, which is a U. S. Coast & Geodetic Survey station established in 1934 by J. Bowie, Jr., and Bear, also a U. S. Coast & Geodetic Survey station established by L. D. Graham in 1924. The geodetic azimuth of Bear azimuth was checked by using a 3-arm protractor and found to be in good agreement.

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 Okeechobee, 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 inter-sections 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 and 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 and interpretation was obtained with no unusual conditions being found.

FIELD INSPECTION

Field inspection was made during April 1942 by Lieut. J. D. Thurmond

and G. E. Varnadoe, Principal Photogrammetric Aid. Field notes were sufficient for accurate interpretation of vegetation.

DETAILING

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

The photographs for this sheet, namely 4626, 4627, were nine lens photographs and were 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.

There Stereoscope was employed in interpreting detail wherever same was considered necessary.

Symbols have been used in a few places where it was thought that this was the better procedure.

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

JUNCTIONS

This sheet joins sheet T-5898 on the north, T-5898 on the west, T-5897 on the east and sheet T-5894 on the south. The junctions are in agreement.

COMPARISON WITH OTHER SURVEYS

There is no previous survey of the area covered by this sheet, which was available at this time with which a comparison could 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 prominent land marks within the detailing limits of this sheet.

Respectfully submitted,

Ben O. Bryant

Ben O. Bryant,
Photogrammetric Aid.

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

**LEGEND (REVISED) FOR FIELD INSPECTION AND DRAFTING
PROJECT 242 - 1942**

TREES

- Pi - Pine
- Cy - Cypress
- Palc - Palmetto
- Palm - Palm
- P.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)
- MW - Marsh grass in water (dashed blue
line on offshore limits).
- Sr - Swamp
- Mg - Mangrove
- Edg - Hedge

STREAMS

- Ca - Canal (width)
- Cr - Creek
- D - Ditch (width)
- I S - Intermittent Stream
- PEU - Probable drainage unsurveyed
- BRG - Bridge or symbol
- cv - Culvert
- Lov - Levee

- FOS - Florida Geodetic Survey
- UES - U. S. Engineers
- USGS - U. S. Geological Survey

ROADS & RAILROADS

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

FONDS

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

SYMBOLS

- H.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
- PF - Pier
- Se W - Seawall
- WKA - Bulkhead
- Conc - Concrete
- Wo - Wooden
- Jet - Jetty
- Dol - Dolphin
- Pile - Pile (give type)
- S - Sand
- Mud - Mud
- IR - Rock or Rocky
- Sty - Stony
- W - Water
- Blf - 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)
- FBK - Fire Break (abandoned)
- Can - Cemetery
- Park - Park (give name)
- F.T. - Fire Tower
- T.T. - Transmission tower (tall - steel)
- P.L. - Power Line
- Shoal - SHOALS, limits by long dashed
lines for use by Hydrographer.

**LEGEND USED FOR FIELD INSPECTION AND DRAFTING
PROJECT 242 - 1948**

TREES

Pl - Pine
 Cy - Cypress
 Pal - Palmetto
 Pals - Pals
 D F - 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)
 MW - Marsh grass in water (dashed blue
 line on offshore limits)
 Sw - Swamp
 Mg - Mangrove
 Hdg - Hedge

STREAMS

Cs - Canal (width)
 Cr - Creek
 D - Ditch (width)
 I S - Intermittent Stream
 PU - Probable drainage unsurveyed
 BRG - Bridge or symbol
 CV - Culvert
 Lev - Levee

FGS - Florida Geodetic Survey
 U.S. - U. S. Engineers
 U.S.S. - U. S. Hydrographic Survey

ROADS & RAILROADS

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

PONDS

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

SHORELINE

H.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
 Bhd - Bulkhead
 Conc - Concrete
 Wo - Wooden
 Jet - Jetty
 Dol - Dolphin
 Pile - pile (give type)
 S - Sand
 Mud - Mud
 Rk - Rock or Rocky
 Sty - Stony
 W - Water
 Hgt - Bluff (height)

BUILDINGS

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

MARKERS

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

T-5896

Remarks.

Decisions

	Remarks.	Decisions
1		269806-08 USGB
2		270809-10
3		"
4		1941 off. Road Map
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. T-5896

Name on Survey											
	A	B	C	D	E	F	G	H	K		
Lake Okeechobee ✓											1
Indian Prairie Canal ✓											2
Big Bear Beach ✓											3
Florida Highway No. 29											4
											5
											6
											7
											8
											9
											10
											11
											12
											13
											14
											15
											16
											17
											18
											19
											20
											21
											22
											23
											24
											25
											26
											27

Major modifications approved
by L. H. Hoot on 12/18/44

Division of Photogrammetry

Review of Planimetric Map T-5896

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 1946, and registered in 1947.

Field Inspection and Detailing.

The shoreline of Lake Okeechobee in this area is extremely difficult to interpret. The inland swamp changes at the shoreline to grass and water, which extends far out into the lake. The appearance of this vegetation on aerial photographs probably changes with the seasons and with variations in the lake level.

As received from the Tampa Office, the vegetation outside of the selected shoreline was shown in three categories: marsh, dense grass in water, and scattered grass in water. The delineation did not seem too consistent with the photographs and was extensively revised during review. The revision is shown in red on the manuscript and includes the delineation of grass in water in three categories: marsh islands, dense grass in water, and scattered grass in water.

Comparison with Previous Surveys.

T-5896 supersedes those part of surveys T-4129 and T-4130, 1:20,000, 1924-25 which it covers.

The construction of the highway along the lake shore has changed details of the shoreline since the last survey. Furthermore, this sheet, T-5896, has attempted to show the details of vegetation in the water which were omitted entirely on the previous surveys.

Comparison with Nautical Charts.

T-5896 was applied to chart 1289 prior to this review. Changes in the details of grass in water along the shore and in marsh islands have been made during the review and affect the chart. These changes are shown in red on the manuscript and have been incorporated on the printed copy.

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

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

K. T. Adams
Chief, Div. of Photogrammetry

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

