

5895

Diag'd. on diag. charts No. 804, 1247

5895

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Planimetric Map
Field No.	Office No. T-5895
LOCALITY	
State	Florida
General locality	Lake Okeechobee
Locality	Vicinity of Fisheating Bay
Photos taken Jan. 9, 1940 and supplemented by ground surveys to April 1942.	
1942	
CHIEF OF PARTY	
Lt. Comdr. Kenneth G. Crosby	
LIBRARY & ARCHIVES	
DATE	Aug 20 - 1947

Applied to chart 1289 7/19/43 G.T.E. (before review)

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-5395

State Florida

General Locality Lake Okeechobee

Locality Vicinity of Fisheating Bay

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

Party ~~Base~~ Air Photographic Party No. 1

Chief of party Lieut. Comdr. Kenneth G. Crosby

Field Inspected by: Lieut. J. D. Thurmond & Geo. E. Varnadoe,

Prin. Photo
Aid

~~Surveyed by~~

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, 1940

Remarks:

SHEET No. T— 5895

SUPPLEMENTARY SURVEYS

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

FIELD INSPECTION
~~SUPPLEMENTARY SURVEYS~~

Preparation of Photographs.....	JHH, CH, GEV	Nov. Dec.	4 $\frac{3}{4}$
Field Work.....	JDT, GEV	Apr. 1942	6
Inking Notes.....			
Coast Pilot Notes.....			
Geographic Name Reports.....	FHE	May	4
Land Marks for Charts.....			
Description Cards & Recovery Notes.....	GEV	Apr.	4
	Total		18 $\frac{3}{4}$

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.	$\frac{1}{2}$
Control Checked.....	EMB, JEH	Aug.	$\frac{1}{2}$
Control Trans. to Base Sheet.....	JEH	Aug.	$\frac{1}{2}$
Transfer Checked.....			
Control Picked on Photograph.....	GEV	May	1
Control Checked on Photograph.....	ALK	May	$\frac{1}{2}$
Hydro & Topo. Stations Picked.....	GEV, ALK	May	1 $\frac{1}{2}$
Radial Points Picked.....	ECB	May	1 $\frac{1}{2}$
Adjacent Centers Picked.....	HVR, EHH	Apr.	5
Templates.....	RD, JCP	July, Aug.	4
Radial Plot.....	X	Aug. 1942	1 $\frac{1}{2}$
Radial Points Transferred.....	FHE	Aug. 1942	1 $\frac{1}{2}$
Transfer Checked.....	RDE	Aug. 1942	1
H & T Stations Scaled & Checked.....	RDE, BOB	Aug. Sept.	$\frac{1}{2}$
Additional Radial Points.....			
Investigation of Radial Points.....			
	Total		21 $\frac{3}{4}$

DETAILING

Rough Draft.....	RDE	Aug.	51
Smooth Draft.....			
	Total		51

COMPILATION

Name overlay.....	RDE	Aug.	$\frac{1}{2}$
Descriptive Report.....	RDE	Sept.	3
Field Review.....	RD	Sept.	8
	Total		11 $\frac{1}{2}$

Total time spent on Sheet..... 104 hours

X=Several of Office Personnel

SHEET No. T— 5895

PHOTOGRAPHS

Number	Date	Time	Stage of Tide
4628	January 9, 1940	10:46	No Tide
4629		10:47	
4630		10:48	
4631		10:49	

Tide from predicted tables for: No Tide

CAMERA: U. S. Coast and Geodetic Survey Nine Lens (focal length 8¼ inches)

SCALE

Mean scale of Photographs ----- 1:10,000 + 1.008
 Scale of Survey Sheet ----- 1:10,000

STATISTICS

Area (land) ----- 17.25 Square statute miles
 Shoreline (more than 200 m. from opposite shore) ----- 8.63 Statute miles
 Shoreline (creeks) ----- 15.5 Statute miles
 Roads, streets, trails, and railroads ----- 8 Statute miles

REFERENCE STATION

Station: BIG ECC., 1937 ✓ Latitude: 26° 58' 58.182" (1790.7 m.)
 Datum: N.A. 1927 Longitude: 81 05 13.001 (358.5 m.)

x = 471,684.26
y = 963,897.83

Adjusted

DESCRIPTIVE REPORT
TO ACCOMPANY
SHEET NO. T-5895

GENERAL

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

The general locality of this sheet is Lake Okeechobee, Florida, in the immediate vicinity of Fisheating Bay.

The terrain consists of low marshy land with vegetation consisting principally of grass, brush, cypress and palm trees. There is little fast shore line on this sheet due to the existence of an extensive marsh which separates the lake proper from firm ground. This marsh has an average width of approximately 1,000 meters.

Along Florida State Highway No. 29 there are areas which were once in cultivation but at the time the photographs were taken, has been allowed to grow up in brush. The important ditches which drain this area have been shown.

CONTROL

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

<u>NAME OF STATION</u>	<u>YEAR</u>	<u>ESTABLISHED BY</u>
BIG	1924	L. D. Graham
BIG ECC.	1937	R. A. Earle

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 the 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 template 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 a 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 & 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 being found.

FIELD INSPECTION

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

DETAILING

This sheet was detailed in accordance with the current instructions for the 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 scale of Photo 4629 was good. The scales of Photos 4628, 4630, and 4631 were fair.

The stereoscope has been freely used as an aid to drafting and all buildings visible under the stereoscope have been shown.

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

JUNCTIONS

This sheet joins sheet T-5896 on the east and Sheet T-5893 on the south. The junctions are in agreement.

COMPARISON WITH OTHER SURVEYS

There are no surveys available in this office whose scales are such that an 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, May 30, 1942", submitted to the Washington Office by Harold S. Duffy, Senior Photogrammetric Aid. K. No
L
LA

Attention is called to a discrepancy in the geographic name "Hooker's Landing". This name, according to the field inspection, should appear on the survey sheet in the near vicinity of triangulation station BIG ECC., 1937 (Field Photograph 4630). The name "Hooker's Landing" as it appears on Geographic Name Sheet No. 18 is located northeast of the Indian Prairie Canal. This location is incorrect. No mention is made of the geographic name "Hooker's Landing" in the Geographic Name Report. The geographic name "Hooker's Landing" has not been shown on this survey sheet. ✓

LANDMARKS

There are no prominent landmarks 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....

LEGEND USED FOR FIELD INSPECTION AND DRAFTING
PROJECT 242 - 1942

TREES

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

STREAMS

Cn - Canal (width)
Cr - Creek
D - Ditch (width)
I S - Intermittent Stream
PDU - Probable drainage unsurveyed
Brg - Bridge or symbol
Cv - Culvert
Lw - Lagoon

FCS - Florida Coadetic Survey
USE - 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)

PONDS

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

MARKINGS

H.H.L. - Mean high waterline (solid red
line - fast land)
L.L.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
Hhd - 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
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)

BY-CALLNEONS

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

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

TREES

- Pl - Pine
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- Palc - Palmetto
- Pala - Palm
- D T - Deciduous trees (broad leaf)
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(Density)
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VEGETATION

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- 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)
- Su - Swamp
- Mg - Mangrove
- Hdg - Hedge

STREAMS

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- Cr - Creek
- D - Ditch (width)
- I S - Intermittent Stream
- PDU - Probable drainage unsurveyed
- Brg - Bridge or symbol
- Cv - Culvert
- Lev - Levee

- FOS - Florida Geodetic Survey
- USE - U. S. Engineers
- USMS - U. S. Biological Survey

ROADS & RAILROADS

- Rd 1 - 1st class road (paved)
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- Tr - Trail
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- RR ab - R.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)
- Low.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
- Mhd - Bulkhead
- Conc - Concrete
- Wo - Wooden
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- 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)
- FEK - Fire Break (abandoned)
- Cam - Cemetery
- Park - Park (give name)
- F.T. - Fire Tower
- T.T. - Transmission tower (tall steel)
- Pl. - Power Line
- Shal - Approx. limits by long dashed
line for use by hydrographer

T-5895

Remarks

Decisions

	Remarks	Decisions
1		USCB
2		270809-810
3		269 810
4		
5		Road Maps
6		
7		
8		
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27		

GEOGRAPHIC NAMES

Survey No. T-5895

Name on Survey	Source											
	A	B	C	D	E	F	G	H	K			
<u>Lake Okeechobee</u>												1
<u>Harney Pond Canal</u>												2
<u>Fisheating Bay</u>												3
<u>Gades County</u>												4
<u>Florida Highway No. 29</u>												5
												6
												7
												8
<u>Hookers Landing</u>												9
												10
												11
												12
												13
												14
												15
												16
												17
												18
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												21
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												23
												24
												25
												26
												27

Names underlined in red approved
by L. Heck on 8/14/43

(819147)

Division of Photogrammetry

Review of Planimetric Map T-5895

Field Inspection and Detailing.

These were generally adequate, with the exception of marsh shoreline. The distinction between marsh visible at high water and scattered grass in the water is rather indefinite and not much information was furnished by the field inspection. Changes have been made in the marsh line by the reviewer after a study of the photographs, adjoining manuscripts, and previous survey in this area. These changes are shown in red on the manuscript.

Comparison with Previous Surveys.

T-5895 supersedes T-4129, 1:20,000, 1925, over the common area. The marsh areas have changed considerably.

Comparison with Nautical Charts.

T-5895 was applied to chart 1289 prior to this review. The changes made during review and shown in red on the manuscript may affect this chart and should be examined when the chart is again taken up for correction.

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

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

H. H. Hildebrand
Chief, Nautical Chart Br.
Division of Charts

K. T. Adams
Chief, Div. of Photogrammetry

C. H. Green
Chief, Division of Coastal
Surveys

