

5894

5894

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric Map

Field No. _____ Office No. T-5894

LOCALITY

State Florida

General locality Florida East Coast

Locality Lake Okeechobee (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 July 21-1947

Applied to chart 1289 7/20/43 G.T.E.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

15894

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-5894

State Florida

General Locality Florida East Coast

Locality Lake Okeechobee (Fisheating Bay)

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

Party ~~used~~ Air Photographic Party No. 1

Chief of party Lieut. Comdr. Kenneth G. Crosby

Field Inspected by: G. E. Varnadoe, Prin. Photogrammetric Aid
~~Surveyed by~~

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— 5894

SUPPLEMENTARY SURVEYS

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

SUPPLEMENTARY SURVEYS

Preparation of Photographs.....	X	Nov.	6 $\frac{1}{2}$
Field Work.....	FHE, GEV	Apr.	10
Inking Notes.....			
Coast Pilot Notes.....			
Geographic Name Reports.....			
Land Marks for Charts.....			
Description Cards & Recovery Notes.....	GEV	May	4
Total			20 $\frac{1}{2}$

MAIN RADIAL PLOT

Scale Plot.....			
Projection on Base Sheet.....			
Projection on Survey Sheet.....			
Control Plotted.....	JEH	Aug.	1 $\frac{1}{2}$
Control Checked.....	EMB, JEH, BOB	Aug.	1 $\frac{1}{2}$
Control Trans. to Base Sheet.....	JEH	Aug.	1 $\frac{1}{2}$
Transfer Checked.....			
Control Picked on Photograph.....	GEV	May	1
Control Checked on Photograph.....	ALK	May	2 $\frac{1}{2}$
Hydro & Topo. Stations Picked.....	GEV, ALK	May	2 $\frac{1}{2}$
Radial Points Picked.....	LCB	May	2
Adjacent Centers Picked.....	ERH	Apr.	7 $\frac{1}{2}$
Templates.....	X	July	20 $\frac{1}{2}$
Radial Plot.....	JEH, FHE	July	1 $\frac{1}{2}$
Radial Points Transferred.....	JEH, FHE	July	2 $\frac{1}{2}$
Transfer Checked.....	JEH, FHE, RDE	July	1 $\frac{1}{2}$
H & T Stations Scaled & Checked.....			
Additional Radial Points.....			
Investigation of Radial Points.....	BOB	Sept.	4
Total			46 $\frac{1}{2}$

DETAILING

Rough Draft.....	BOB	Sept.	32
Smooth Draft.....			
Total			32

COMPILATION

Name overlay.....	BOB	Sept.	1
Descriptive Report.....	BOB	Sept.	4
Field Review.....	RD	Sept.	8

Total time spent on Sheet..... 113 hours

X—Several of Office Personnel

SHEET No. T—5894

PHOTOGRAPHS

Number	Date	Time	Stage of Tide
4641 ✓	1-9-40	2:18	No Tide
4642 ✓	"	2:18	
4643 ✓	"	2:19	
4644	"	2:20	
4645 ✓	"	2:22	

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 ----- 10,000 ~~+1.014~~
 Scale of Survey Sheet ----- 1:10,000

STATISTICS

Area (land) ----- 1 Square statute miles
 Shoreline (more than 200 m. from opposite shore) ----- 7.2 Statute miles
 Shoreline (creeks) ----- 0 Statute miles
 Roads, streets, trails, and railroads ----- 0 Statute miles

REFERENCE STATION

Station: HAV - 1924
 Datum: N.A. 1927

Latitude: 26° 56' ~~7:941~~³⁶⁴ ~~(224.4 m.)~~^{6.6}
 Longitude: 81 03 10:073¹ ~~(277.9 m.)~~⁸

*Fla. E Zone - x = 482,797.96
 y = 945,644.30*

adjusted

DESCRIPTIVE REPORT
TO ACCOMPANY
SHEET NO. T-5894

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 Fisheating Bay.

There is no cultivated area on this sheet, it is covered by water, grass in water, and few scattered marshes. There is an abandoned dredged channel running northwest - southeast into Lake Okeechobee.

There are no roads shown on this sheet.

CONTROL

Two triangulation stations are shown on this sheet, namely: Hav, which is a U.S.C. & G.S. station established in 1924 by R. D. Graham, and Spoil, also a U.S.C. & G.S. Station established by L. D. Graham in 1924. *Spoil, 1924 was changed to Topo - Pound moved by storm in 1942. Bul. #457 p. 12. L. Forrester.*

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 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 & 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

Field inspection was made during April 1942 by 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: 4641, 4642, 4643, 4644, were nine lens photographs and were of fair scale.

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

The boundary of scattered grass in water on the east part of the sheet is approximate; there were no photographs that covered this particular area.

JUNCTIONS

This sheet joins sheets T-5895 - T-5896 on the North, Sheet T-5893 on the West and Sheets T-5891 - T-5892 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. S-R N 11

LANDMARKS

There are no prominent landmarks 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.

SHRUBS

- Pi - Pine
- Cy - Cypress
- Falo - Palmetto
- Fala - Fels
- B.T - Deciduous trees (broad leaf)
- Cit - Citrus (orchard)
- Mix - Pine, cypress & Dec. trees (hazily)
- Sc. - Scattered
- t.w. - Thinly wooded
- h.w. - Heavily wooded
- Scr. - Scrub trees

VEGETATION

- C - Cultivation
- Gr - Grass
- S Gr - Tall tropical grass
- B - Marsh (dashed blue line on inshore limits)
- W - Marsh grass in water (dashed blue line on offshore limits)
- Sw - Swamp
- M - Mangrove
- Wc - Hedge

ROADS

- W - Canal (width)
- Cr - Creek
- D - Ditch (width)
- I S - Intermittent stream
- DR - Probable drainage unsurveyed
- Br - Bridge or symbol
- Cv - Culvert
- Lov - Levee
- FLS - Florida Geodetic Survey
- US - U. S. Engineers
- USGS - U. S. Geological Survey

ROADS & HIGHWAYS

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

ROADS

- P - Road
- Cy P - Cypress Road
- I - Intermittent road

UTILITIES

- h.h.l. - High water line (solid red line - first land)
- L.h.l. - Low water line (dashed red line)
- h.l. - High line (solid blue line for main high water line on marsh)
- Dr - Dock
- Er - Pier
- Co - Canal
- Emb - Embankment
- Con - Concrete
- Co - Canal
- Jet - Jetty
- Dal - Dike
- Wile - Wire (live type)
- W - Water
- Wd - Wind
- Wk - Wharf or dock
- Wp - Wharf
- Wt - Water
- Wf - Wharf (height)

UTILITIES

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

UTILITIES

- F - Fence
- FB - Fire Break (maintained)
- bfk - Fire Break (abandoned)
- Gas - Gas
- Park - Park (give name)
- P.T. - Pole tower
- T.T. - Transmission tower (tall steel)
- P.L. - Power line
- Hyd. - Hydro. limits by long dashed line for use by hydrographer

T-5894

Remarks

Decisions

	Remarks	Decisions
1		USGB
2		269809-821
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GEOGRAPHIC NAMES

Survey No. T-5894

Name on Survey											
	A	B	C	D	E	F	G	H	K		
<u>Lake Okeechobee</u>											1
<u>Fisheating Bay</u>											2
											3
<u>Glades County</u>											4
											5
											6
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L. Heck 8/24/43

Division of Photogrammetry
Review of Planimetric Map T-5894

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-5894 supersedes T-4128, 1:20,000, 1925, over the common area. There have been large changes in the marsh areas since the previous survey.

Comparison with Nautical Charts.

T-5894 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. *Applied 11-19-48 WMA*

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

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

APPROVED BY:

B.G. Jones 7/47
Special Assistant to the
Div. of Photogrammetry

K.T. Adams
Chief, Div. of Photogrammetry

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

C.K. Green
Chief, Division of Coastal
Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. *T-5894*

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
<i>11-19-'48</i>	<i>1289</i>	<i>W. Andrew</i>	Before After Verification and Review
			Before After Verification and Review
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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.