5893

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric Map

Field No. ..... *Office No.* T-5893

LOCALITY

State Florida

General locality Lake Okeechobee

Locality (Florida East Coast) Vicinity of Fisheating Creek

Photos taken Jan. 1, 1940 and supplemented by ground surveys to April 1942.

1942

CHIEF OF PARTY

Lt. Comdr. Kenneth G. Crosby

LIBRARY & ARCHIVES

DATE July 21-1947

B-1870-1 (1)

5893

5893

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

Form 537a
Ed. Nov. 1929

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. T-5893

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-5893

State Florida

General Locality Lake Okeechobee (Florida East Coast)

Locality Vicinity of Fisheating Creek

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

Party ~~Vessel~~ Air Photographic Party No. 1

Chief of party Lieut. Comdr. Kenneth G. Crosby

Field Inspected by: ~~Surveyed by~~ Lieut. James D. Thurmond

Inked by Harold V. Reid, Senior Engineering Draftsman

Heights in feet above ..... to ground to tops of trees

Contour, Approximate contour, Form line interval ..... feet

Instructions dated April 3, 1940

Remarks:

GPO 266553

SHEET No. T— 5893

SUPPLEMENTARY SURVEYS

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

SUPPLEMENTARY SURVEYS

Preparation of Photographs	X	Nov.	6½
Field Work	FHE, GEV, JDT	Apr.	20
Inking Notes			
Coast Pilot Notes			
Geographic Name Reports	FHE	May	5
Land Marks for Charts			
Description Cards & Recovery Notes	GEV	May	1
		Total	32½

MAIN RADIAL PLOT

Scale Plot	ALK	May	1
Projection on Base Sheet			
Projection on Survey Sheet			
Control Plotted	JEH	Aug.	¼
Control Checked	JEH, EMB	Aug.	½
Control Trans. to Base Sheet	JEH	Aug.	1
Transfer Checked			
Control Picked on Photograph	GEV	May	1
Control Checked on Photograph	ALK	May	¾
Hydro & Topo. Stations Picked	GEV, ALK	May	1 ¾
Radial Points Picked	LCB	May	5¼
Adjacent Centers Picked	HVR, ERH	Apr.	11
Templates	JEH, BOB, JCP	July & Aug.	17
Radial Plot	JEH, FHE	Aug.	1¼
Radial Points Transferred	JEH, FHE	Aug.	2
Transfer Checked	JEH, RDE, FHE	Aug.	2
H & T Stations Scaled & Checked			
Additional Radial Points			
Investigation of Radial Points	HVR	Aug.	4
		Total	48¾

DETAILING

Rough Draft	HVR	Aug. Sept.	102½
Smooth Draft			
		Total	102½

COMPILATION

Name overlay	HVR	Aug.	6
Descriptive Report	HVR	Sept.	8
Field Review	RD	Sept.	12
			26

Total time spent on Sheet 210¾ hours

X=Several of Office Personnel

SHEET No. T— 5893

PHOTOGRAPHS

Number	Date	Time	Stage of Tide
4631	January 1, 1940	10:49	None
4632	"	10:50	
4633	"	10:51	
4634	"	10:52	
4635	"	10:53	
4636	"	10:54	

Tide from predicted tables for: None

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

SCALE

Mean scale of Photographs ..... 1:10,000 + 1.014
Scale of Survey Sheet 1:10,000

STATISTICS

Area (land)	26.3	Square statute miles
Shoreline (more than 200 m. from opposite shore)	19.7	Statute miles
Shoreline (creeks) and canals	39.3	Statute miles
Roads, streets, trails, and railroads	22.9	Statute miles

REFERENCE STATION

Station: MIC 1925
Datum: N.A. 1927

Latitude: 26° 58' 02.979" (91.7 m.)
Longitude: 81 07 41.760 (1151.7 m.)

V4 = 458, 221.06 Ft.
V4 = 957, 335.47 Ft.

DESCRIPTIVE REPORT
TO ACCOMPANY
SHEET NO. T-5893

GENERAL

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

The general location of the area covered by this survey sheet is Lake Okeechobee, in the immediate vicinity of a meandering stream known as Fisheating Creek.

The terrain for the most part is of a marshy nature with numerous grassy ponds scattered over the entire area. Only a few cultivated areas appear on this sheet. A large levee, constructed for flood control of Lake Okeechobee, runs the full length of this sheet and immediately to the east of this levee is a large ditch, paralleling almost the full length of the levee. This ditch was originally dug to obtain material for the construction of said levee, but is now filled with water and serves as drainage.

Very little local drainage appears on this sheet and very few roads other than Florida State Highway #29.

All roads shown are to be 0.6 m.m. wide.

CONTROL

Only one (1) triangulation station appears within the tracing limits of this survey sheet. It is station MIC., which is a U. S. Coast & Geodetic Survey station established by L. D. Graham in 1925. Station MIC is being used as a reference station.

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 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 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 & 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 & Traverse stations.....3.5 m.m. high black triangle
Hydrographic & 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 yet some difficulty was encountered in determining marsh land from grass in water in the area bordering on Lake Okeechobee. This was due mainly to the fact that the U. S. Engineers have recently raised the level of the lake.

FIELD INSPECTION

Field inspection was made by Lieut. James D. Thurmond during April 1942 and notes appearing on field photographs were adequate.

DETAILING

This sheet was detailed in accordance with the current instructions

for this project.

The photographs for this drawing viz: 4631, 4632, 4633, 4634, 4635, were nine lens photographs. Photographs 4643 and 4644 were also nine lens photographs, and although the centers of these two photographs did not fall within the tracing limits of this sheet, they were used to good advantage in determining detail in the eastern area.

All the above mentioned photographs were adequately clear and of good scale.

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

The stereoscope was employed wherever it was considered necessary.

Symbols have been used wherever it was deemed the better procedure.

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

JUNCTIONS

This survey sheet joins sheet Nos. T-5895 on the north, T-5894 on the east and T-5891 on the south. All junctions are in good agreement.

COMPARISON WITH OTHER SURVEYS

There are no other surveys of this area with which an accurate comparison could be made.

GEOGRAPHIC NAMES

A report on geographic names was made and submitted by Harold A. Duffy, Sr. Photogrammetric Aid, entitled "Investigation of Geographic Names, Florida East Coast, Cross State Waterway and Lake Okeechobee".

LANDMARKS

There are no prominent landmarks on this sheet.

Respectfully submitted,

Harold V. Reid

Harold V. Reid,
Sr. Engineering Draftsman

Forwarded by:

Kenneth G. Crosby,
Chief of Party.

[illegible] 2 [illegible]
[illegible] 343 – 1942

[illegible]

Pi – Pine
Cy – Cypress
Palm – Palmetto
Palm – Palm
[illegible] – Decid uous trees (broad leaf)
Cit – Citrus (orchard)
In – [illegible], cypress, pine, trees (locality)
Sct. – Scattered
[illegible] – Fairly spaced
[illegible] – Heavily wooded
[illegible] – Scrub trees

[illegible]

C – Cultivation
Gr – Grass
[illegible] – [illegible] grass
[illegible] – Marsh (grass [illegible] line [illegible] [illegible] 11 lt.
[illegible] – Marsh grass in water (Cart. [illegible] line of offshore limits)
[illegible] – Sand
[illegible] – Mangrove
[illegible] – Sedge

[illegible]

Cn – Canal (width)
Cr – Creek
D – Ditch (width)
I [illegible] – Intermittent stream
[illegible] – Probable drainage unsurveyed
[illegible] – Bridge or symbol
Cv – Culvert
Lev – Levee

[illegible] – Florida Geodetic Survey
[illegible] – [illegible] Engineers
[illegible] – [illegible] Field Survey

[illegible]

Rd 1 – 1st class road (paved)
Rd 2 – 2nd class road
Tr – Trail
[illegible] – Railroad
[illegible] – Crossings (state the kind)
[illegible] – [illegible] (state the kind)
[illegible] – Abandoned trail, road, etc.
[illegible] – [illegible] (name only)

[illegible]

[illegible] – Road
Cy – Cypress [illegible]
I – Intermittent [illegible]

[illegible]

[illegible] – [illegible] (solid line [illegible] line – [illegible])
[illegible] – [illegible] (dashed [illegible])
[illegible] – Light line ([illegible])
[illegible] – Rock
[illegible] – Pier
[illegible] – Seawall
[illegible] – Bulkhead
[illegible] – Concrete
[illegible] – [illegible]
Jet – Jetty
[illegible] – [illegible]
[illegible] – [illegible] (line type)
[illegible] – Sand
[illegible] – Mud
[illegible] – Shell or [illegible]
[illegible] – Stony
[illegible] – [illegible]
Bf – Bluff (height)
Fl. Flooded

[illegible]

H – House, shack or building
Ch – Church (give name)
Ct [illegible] – Court House (give name)
[illegible] – [illegible] house
[illegible] – Post Office (give name)
[illegible] – Railroad station (give name)
Hos – Hospital (give name)
Sch – School (give name)

[illegible]

[illegible] – [illegible]
[illegible] – Fire Break ([illegible])
[illegible] – Fire Break (unfenced)
Cem – Cemetery
Park – Park (give name)
[illegible] – Fire tower
[illegible] – Transmission tower (tall steel)
[illegible] – [illegible] line
[illegible] – [illegible] 12 [illegible] by [illegible] [illegible] by [illegible]

[illegible] 812 - 1942

[illegible]

Pi - [illegible]
Cy - Cypress
Palm - Palmetto
[illegible] - [illegible]
[illegible] - [illegible] trees [illegible]
Cit - Citrus (orchard)
Mix - Pine, cypress & dec. trees (mixture)
Sct. - Scattered
T.W. - Thinly wooded
D.W. - Densely wooded
[illegible] - [illegible] trees

[illegible]

C - Cultivation
Gr - Grass
[illegible] - [illegible] grass
[illegible] - [illegible] (... blue line on ... limits)
[illegible] - Marsh grass in water (... blue line on offshore limits)
Sp - Swamp
[illegible] - Mangrove
[illegible] - [illegible]

[illegible]

Cn - Canal (width)
Cr - Creek
D - Ditch (width)
I S - Intermittent Stream
[illegible] - [illegible] drainage unsurveyed
[illegible] - Bridge or [illegible]
Cv - Culvert
[illegible] - Tower

[illegible] - [illegible] Geodetic Survey
[illegible] - [illegible] Engineers
[illegible] - [illegible] Geological Survey

[illegible]

Rd 1 - 1st class road (paved)
Rd 2 - 2nd class road
Tr - Trail
[illegible] - [illegible]
[illegible] - Overpass (state the kind)
[illegible] - Underpass (state the kind)
X - [illegible] trail, RR, etc.
[illegible] - [illegible] (... only)

[illegible]

[illegible] - Sand
[illegible] - [illegible]
I - Intermittent [illegible]

[illegible]

[illegible] - [illegible] (solid ... line - [illegible])
[illegible] - [illegible] (...)
[illegible] - [illegible] (... line on ...)
[illegible] - [illegible]
[illegible] - [illegible]
[illegible] - [illegible]
[illegible] - Headland
[illegible] - Concrete
[illegible] - [illegible]
Jt - Jetty
[illegible] - [illegible]
[illegible] - [illegible] (give type)
[illegible] - [illegible]
[illegible] - [illegible]
[illegible] - [illegible]
[illegible] - [illegible]
[illegible] - [illegible]
Bf - Bluff [illegible]
Fl. Flooded

[illegible]

B - House, barn or building
Ch - Church (give name)
[illegible] - Court House (give name)
[illegible] - [illegible] house
[illegible] - [illegible] (give name)
[illegible] - [illegible] station (give name)
[illegible] - [illegible] (give name)
[illegible] - [illegible] (give name)

[illegible]

[illegible] - [illegible]
[illegible] - [illegible]
[illegible] - [illegible]
[illegible] - Cemetery
[illegible] - [illegible] (give name)
[illegible] - Fire Tower
[illegible] - [illegible] (... steel)
[illegible] - [illegible]
[illegible] - [illegible] by [illegible]
[illegible] by [illegible]

T-5893

	Remarks	Decisions
1		USCB
2		269809-911
3		"
4		
5		Road Maps
6		
7		
8		
9		
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M 234

GEOGRAPHIC NAMES

Survey No. T-5893

Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Lake Okeechobee										1
Lakeport										2
Fisheating Creek										3
Fisheating Bay										4
Florida Highway No. 29										5
Glades County										6
										7
										8
										9
										10
										11
										12
										13
										14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Names underlined in red approved by L. Heck on 8/21/43

M 234

Division of Photogrammetry

Review of Planimetric Map T-5893

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-5893 supersedes T-4729, 1:20,000, 1925, over the common area.

Comparison with Nautical Charts.

T-5893 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 [illegible]

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

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

K.T. Adams
Chief, Div. of Photogrammetry

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

NAUTICAL CHARTS BRANCH

SURVEY NO. 5893

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
11-19-48	1289	[illegible]	~~Before~~ After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

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.