5902

Diag. Ch. 804

Form 804 Rev. June 1941 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Air Photographic | Sheet | Survey No. T-5902 | Hydrographic | Field)

LOCALITY

Florida

General locality Lake Okeechobee

Locality Northeast shore of Lake

Okeechobee

LeHuce

Jan-9-, 1940

194.2

CHIEF OF PARTY

Lieut. Comdr. Kenneth G. Crosby

U. S. GOVERNME IT PRINTING OFFICE

applied to chart 1289 July 12, 1943 ATE.

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-5902
State Florida
General Locality Lake Okeechobee
Locality Northeast shore of Lake Okeechobee Photos
Scalel:10,000 Date of xxxxxx January 9 , 19 40 Party
Wassax Air Photographic Party No. 1
Chief of party Lieut. Comdr. Kenneth G. Crosby Field Inspected by: George E. Varnadoe, Principal Photogrammetric Aid
Inked by Milton M. Slavney, Sr. Engineering Draftsman
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- 5902

SUPPLEMENTARY SURVEYS	Name	Date	Hours
Control surveys	GEV	May	1
Planetable Surveys			
•		Total	1
SUPPLEMENTARY SURVEYS		rotai	
Preparation of Photographs	GEV, JEH, CH	Oct.Nov.Dec.	51/4
Field Work		Feb. Mar. 1942	
Inking Notes		77	~
Coast Pilot Notes		,	
Geographic Name Reports			
Land Marks for Charts		'	
Description Cards & Recovery Notes	GEV	March	6
	<u> </u>	Total	48 4
		rotar	±0 <u>4</u>
MAIN RADIAL PLOT			
Scale Plot	WHS	May	1 .
Projection on Base Sheet	. · · ·		
Projection on Survey Sheet	Washington Of	1100	
Control Plotted	_ RD	June	1 4
Control Checked	1	June	44
Control Trans, to Base Sheet	i	June	1 1
Transfer Checked	1	June	1 1
Control Picked on Photograph	1	May	
Control Checked on Photograph		May	5
Hydro & Topo. Stations Picked		Мау	112
Radial Points Picked	7	May -	3 3 2
Adjacent Centers Picked	1	April	4
Templates	1 +	May	4
Radial Plot	_	June	25
Radial Points Transferred		June	11/2
Transfer Checked		June	5
H & T Stations Scaled & Checked		July Aug.	3
Additional Radial Points		June	8
Investigation of Radial Points		June	6,
			J
DETAILING		Total	83
Rough Draft	MMS	June	95 <u>1</u>
Smooth Draft			
	<u> </u>	Total	95%
COMPILATION			
Name overlay	MMS	July	4
Descriptive Report		July	8
Field Review	FDE	Sept.	19
LIGIT INCARCATETATION			
Makal Aimes museuk and Make			81
Total time spent on Sheet			259 1 hours
X=Several of Office Personnel			

SHEET No. T- 5902

PHOTOGRAPHS

Number	Date	Time	Stage of Tide
4602 4603 4606	1-9-40	12:02 12:04 12:11	No tide
Deta Photogn	ile on this m	gs are of the a	late of the

Tide from predicted tables for: No tide on Lake Okeechobee

CAMERA: U.S. Coast and Geodetic Survey Nine Lens (focal length 81/4 inches)

SCALE

Mean scale of Photographs	1:9930
Scale of Survey Sheet	1:10,000

STATISTICS

Area (land)	15	Square statute miles
Shoreline (more than 200 m. from opposite shore)	4.4	Statute miles
Shoreline (creeks)	2.0	Statute miles
Roads, streets, trails, and railroads	23.9	Statute miles

REFERENCE STATION

Station: UTE 1924 Vr

Datum: N.A. 1927

Adjusted

Longitude: 80 41 20.432 (562.6)

Fla. E. Zone

X=601,144.37

1,018,894.94

DESCRIPTIVE REPORT TO ACCOMPANY SHEET NO. T-5902

GENERAL

This sheet was compiled from nine-lens aerial photographs 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 Florida, Lake Okeechobee, on the northeast shore of Lake Okeechobee.

The shoreline area is generally grassy with brush patches. The character of the shoreline and its location is further discussed under sub-head INTERPRETATION OF PHOTOGRAPHS. The inshore area is generally Palmetto and grass covered with scattered pine. Marshes and intermittent ponds are scattered through the sheet area.

Areas of vegetation with varying density and identity were shown with symbols. Labels were used in areas of uniform make up.

All roads on this survey sheet are to be shown 0.6 m.m. wide.

CONTROL

Control of this sheet consisted of the following U. S. Coast and Geodetic Survey triangulation stations:

NAME OF STATION	EAR	ESTABLISHED BY
Pier Ute		E. B. Roberts E. B. Roberts

The positions of these two stations were computed for the North American 1927 Datum.

MAIN RADIAL PLOT

A continuous radial plot was run on June 14-16 inclusive, 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-5900 to T-5903 inclusive. All photographs in the area were used. It extends north and west along Lake Okeechobee from Lat. 27° - 01', which is just north of Port Mayaca to Okeechobee, Florida. Photographs 4563 and 4598 are southeast limits and photographs 4612 and 4615 are the northwest limits.

The plot consisted of 18 templates all being for nine-lens photographs and being controlled by triangulation stations as follows: 2 by 4; 2 by 3; 7 by 2; 2 by 1; 5 by 0. These templates were made in accordance with "Notes on Radial plotting of nine-lens photographs", dated April 9, 1940.

The control afforded by first and second order triangulation was sufficient on sheets T-5900, T-5902 and T-5903. There was no triangulation

control on sheet T-5901, and the field season was closed before additional observation could be made by this Party.

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 was excellent and no adjustment was necessary. After laying the plot, the intersections of the radial lines were transferred to the survey sheet by again matching grid squares as previously described.

The laying of the plot began on sheet T-5900 and proceeded to triangulation station Ute, 1924, on sheet T-5902. Sheet T-5900 was adequately controlled by triangulation. Sheet T-5901 did not have any triangulation on it and the plot was laid by holding intersections of radial lines and azimuth. Due to lack of control this part of the plot had to be relaid several times before a satisfactory tie-in could be made at triangulation station Ute, 1924. The remainder of the plot - sheets T-5902 and T-5903 - was laid by starting with the templates for photographs 4565 and 4598 and working north to triangulation station Ute. 1924. Photographs 4563 and 4598 were used in the previous plot which covered sheets T-5912 to T-5919 inclusive. Therefore, the radial points already on them were used to tie these plots together. In proceeding with the laying of the templates on sheets T-5903, it was found that the location of the field marker for triangulation station Sand, 1924, was doubtful as the recovery card for this station says that it apparently has been moved. The location of the point as picked on the photographs failed to form an intersection at the plotted position of station Sand, 1924, on the base grid, but by holding intersections of radial lines and azimuth and other triangulation control in the area the plot is satisfactory for accurate detailing of the area covered by sheet T-5903.

The agreement along the flight line and the intersection of radial lines was good on sheet T-5900. In 12 instances where the radial lines failed to form good intersections the "cuts" were put on the survey sheet for further investigation by the draftsman. In 15 instances where only 2 cuts could be obtained they were also put on the survey sheet for the draftsman to determine their accuracy.

Agreement along the flight line was only fair on sheets T-5901 and T-5902. About 50 percent of the cuts failed to form "tight" or good intersections and were penciled on the survey sheet to be investigated by the draftsman. It is thought that by recutting these points the intersections will be closed. The compiler will include a supplement on main radial plot for these two sheets.

Agreement along the flight lines and the agreement of the intersection of radial lines was good on sheet T-5903. There were 15 instances where only 2 cuts could be obtained and these cuts were penciled on the survey sheet so that the draftsman could determine their strength. In four instances a satisfactory intersection was not formed by the radial lines and the cuts were penciled on the Survey Sheet for further investigation by draftsman.

All points established by intersection of radial lines were picked where

from 3 to 6 lines formed the intersection and it is believed that all picked points are within 0.25 m.m. of their true position.

This plot cannot be called "strong". However, the sheets on both ends are rigidly controlled by triangulation. This allows an accurate tie-in of sheet T-5903 with the previous plot and insures a good tie between sheet T-5900 of this plot and T-5899 of the next plot on the west side of Lake Okeechobee.

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.

SURVEY SHEET

Survey sheet T-5902 came off the radial plot for this area with 72 radial points picked, 59 of which gave thangles of error ranging from 25 sq. m.m. to 500 sq. m. m. The compiler then, under orders of the Chief of Party to straighten out the sheet, checked the plotted positions of the two triangulation stations on the sheet, and on the photographs, moving them in 2 instances. Then a completely new set of radial points was picked on the various photographs. A radial plot was then run on the sheet, that is without the use of individual templates. By shifting the photograph centers, maintaining agreement with triangulation, and dovetailing into sheet T-5903, a satisfactory plot was achieved at the second try. The only reservation to this is the apparent difficulty in using one cell of photographs 4602 and 4803. It seems obvious that this one cell has been the victim of some sort of maladjustment in the conversion printer.

INTERPRETATION OF PHOTOGRAPHS

Field notes were adequate but some changes have been made in interpretation. The field inspectors location of H.W.L. has been accepted as a recoverable H.W.L. Areas labeled marsh and lying outside of H.W.L. have been designated as grass in water. Cognizance has been taken that the water level of Lake Okeechobee is controlled and therefore varies with the desires of the agency controlling the irrigation locks.

FIELD INSPECTION

The field inspection was made by George E. Varnadoe, Principal

See monoroudin in Desc. Robit 7-5461

Photogrammetric Aid, in February 1942 by truck and skiff. The legend for field inspection and detailing is made a part of this report.

DETAIL ING

The acetate was prepared for inking by rubbing with dry magnesium carbonate and then washing with water. No additional cleaning was necessary while detailing and the ink has adhered so well that no reinking has been necessary.

All ditches as detailed on this sheet should show on the finished print.

JUNCTIONS

This sheet joins T-5901 on the West and T-5903 on the South. Both junctions are in good agreement.

COMPARISON WITH OTHER SURVEYS

A comparison was made with photostat of Section of Topographic Sheet No. T-4124, surveyed in 1924-25 on scale 1:20,000. Due to changes created by road building, levee construction, the hurricane of 1928, and the scale of the above mentioned survey, a favorable comparison could not be made.

GEOGRAPHIC NAMES

The investigation of geographic names is incorporated in the 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 Ald.

LANDMARKS

There are no prominent landmarks within the area covered by this sheet.

Respectfully submitted.

Milton M. Slavney

Senior Engineering Draftsman

Forwarded by:

Kenneth G. Choeb

Chief of Party

Form 567 Rev. March 1935

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U.S. COAST AND GEODETIC SURVEY

Sheet T-5902

LANDMARKS FOR CHARTS

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193

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chartentsh (deleted from) the charts indicated. I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks,

1101 E. Broadway, Tampa, Fla.

The positions given have been checked after listing.

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NAME AND DESCRIPTION WHITE HOUSE INN HOUSE (Both of	LATITUDE 0 1 0.M. 27 07.4 27 07.4	D. M. METERS	LONGITION LONGITUDE S O 1 D.P.P 80 40.7 Barks have be	OD AUTERS		METHOD	DATE LOCATION APTIL 1942	HARBOR CHART INSHORE CHART OFFSHORE CHART	OFFSHORE CHART OFFSHORE CHART
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considered for the charts of the area and not by individual field survey sheets. This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be sidered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

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PROJECT 848 - 1048

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GEOGRAPHIC NAMES Survey No. _{T-5902}		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	De don Serio	D D D D D D D D D D D D D D D D D D D	of the control of the	or or was	C. C. C.	Med Metal	N. S.	, \$
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Lake Okeechobee										1
Lettuce Creek							<u> </u>			2
Canoe Creek										3
Florida East Coast ky.										4
Seaboard Air Line Ry.										5
Florida Highway No. 85		<u> </u>								6
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Division of Photogrammetry

Review of Planimetric Map T-5902

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 1943, drafted in 1942, printed in 1946, and registered in 1947.

Main Radial Plot.

The main radial plot in this general area is discussed in the descriptive report and was not entirely satisfactory. An attempt to relay this radial plot was made in the Washington Office, but it was decided to accept the plot as originally made in the Tampa Office. The Washington Office check of the radial plot is discussed in the review report for T-5901.

The accuracy of position of details on the map is accepted as adequate for charting. Well-defined details are within $1\frac{1}{2}$ millimeter of correct geographic position.

Field Inspection and Detailing.

Adequate.

Comparison with Previous Surveys

T-5902 supersedes those parts of T-4124, 1:20,000, 1924, and T-4125, 1:20,000, 1924, which it covers.

Comparison with Nautical Charts.

T-5902 was applied to chart 1289 prior to this review. Changes made on the manuscript during review do not 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:

Technical Assistant to the Chief, Nautical Chart Br. Chief, Div. of Photogrammetry Division of Charts

Chief, Div. of Photogrammetry

Chief, Div. of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. 7-5902

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
7-12-43	1289	GH.E.	Before After Verification and Review
1-22-48	> ,,	Mandros	Before After Verification and Review
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			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.