5898

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Form 504
Rev. June 1941

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Air Photographic
Plane Table
Hudrographic
Field)
Sheet
(Field) Hydrographic

LOCALITY

Florida

General locality . East Coast

Locality Bet. Lakeport & Okeechobee

Big Sawgrass Marsh
Photos: Jan. 9, 1940

1942

CHIEF OF PARTY

Lieut. Comdr. Kenneth G. Crosby

U. S. GOVERNMENT PRINTING OFFICE. 315551

applied to Ch. 1289 7/14/43 StE

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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....

StateFlorida
General Locality Florida East Coast, Lake Okeechobee Big Saugrass Mars
Locality between Lakeport and Okeechobee
Photos Scale 1:10,000 Date of SERVEY Jamuary 9 19 42 Party Vassel Air Photographic Party No. 1
Yassat Air Photographic Party "0. 1
Chief of party Lieut. Comdr. Kenneth G. Crosby Field Inspectedby Lt. J. D. Thurmond, H & G Engineer Surveyedxey George E. Varnadoe, Pr. Photogrammetric Aid
Inked by Harold A. Duffy, Sr. 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— 5898

Control surveys	SUPPLEMENTARY SURVEYS	Name	Date	Hours
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Preparation of Photographs			^	•
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Fig.	Inking Notes	_ GEV	April	3
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Total ALK	Geographic Name Reports	_ fhe	May	5
Total 28 MAIN RADIAL PLOT				
Main Radial Plot	Description Cards & Recovery Notes	_ GEV	May	1
Main Radial Plot	•		Total	28
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182	Field Review	- KD	Sept.	7월
Total time spent on Sheet 1362 hours	•			

SHEET No. T-5898

PHOTOGRAPHS

Number	Date	Time	Stage of Tide
4617 4618 4619 4625	1-9-40	12:30 P.M. 12:31 " 12:33 " 2:05 "	No Tide
•			-
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Tide from predicted tables for:

No Tide

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

SCALE

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

STATISTICS

Area (land)	30.78	Square statute miles
Shoreline (more than 200 m. from opposite shore)	15.0	Statute miles
Shoreline (creeks)		
Roads, streets, trails, and railroads	11.73	Statute miles

REFERENCE STATION

KISS 1924,1935 Station:

07° 58.873 (1812 m.)

N.A. 1927 Adjusted Datum:

Longitude: 80

Fla. E. Zone

x= 537,693.7/ y=1,017,499.43

D ESCRIPTIVE REPORT TO ACCOMPANY SHEET NO. T-5898

GENERAL

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

The area covered by this sheet is in the locality of Florida, East Coast and Lake Okeechobee, in the immediate vicinity of the northwest shore of Lake Okeechobee between Indian Prairie Canal and Kissimmee River.

Approximately one-third of this sheet along its northwestern limits is glade land. This area is very flat and in some small areas is very wet most of the year. These smaller areas were outlined and labeled "Marsh (very wet)".

There are numerous grassy pends in this area with very little natural drainage or canals and therefore contain water throughout the year. The rest of this sheet extends into Leke Okeechobee and nearly all of this area contains a heavy growth of grass in water which thins out to tufts of grass in water farther out in the Lake.

The vegetation in this section comprises of different types of grass; scattered scrub, deciduous trees, a few scattered palm trees and patches of brush. There is very little cultivation in this area and most of the land is used as pasture.

CONTROL

The only control station falling within the detail limits of this sheet is "KISS", a U. S. C. & G. S. triangulation station established in 1924 by L. D. Graham.

Kiss Azimuth 1934 was checked with the three arm steel protractor and found to be in good agreement with the 1934 observed azimuth.

Elderberry 1934 falls outside the detail limits but its azimuth mark, "Elderberry Azimuth 1934" falls within the detail limits of this sheet. This station was checked with the tree arm steel protractor and found to be in good agreement with the 1934 observed azimuth.

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 4p 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

Survey Sheets

DETAILING

Sheet T-5898 was detailed in accordance with the current instructions for the project.

All photographs were in good scale. A few radial points were added to those of the main radial plot so that more accurate detailing could be accomplished since the detailing limits extended very near to the photograph limits in the southeast corner of the sheet. The detailing in this area was

controled almost wholly by two cut intersections. This area consists of a heavy growth of grass in water and the two intersections were adequate to control the approximate outline as shown on the sheet. The hydrographic party should confirm this outline in their field operations.

The picking of the original radial points were checked and a few were moved slightly to give satisfactory control over all of the sheet. In general the photographs were well controled except in the southeast corner of the sheet where the detailing limits extend very near the photograph limits.

Labels were used freely by the draftsman, except in small areas where amouth drafting was necessary to give a better interpretation of vegetation.

The stereoscope was frequently used to interpret detail and limits of vegetation.

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

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

FIELD INSPECTION

Field inspection was made during April 1942 by Lt. J. D. Thurmond, H & G Engineer, and George E. Varnadoe, Principal Photogrammetric Aid. Field notes were adequate for detailing.

JUNCTIONS

This sheet forms a junction on the north with Sheet T-5899 and on the south with Sheets T-5896 and T-5897. All junctions are in good agreement.

COMPARISON WITH OTHER SURVEYS

A comparison was made with a photostat copy of Topographic Sheet No. T-4130, surveyed in 1924-25 on scale 1:20,000. Due to changes created by road building, the hurricane of 1928 and because of the scale of the above mentioned survey, a favorable comparison could not 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.

LANDMARKS

There are no landmarks in this area of sufficient importance to be charted.

Respectfully submitted.

Harold A. Duffy, Vy & Senior Photogrammetric Aid

Forwarded by:

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

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Division of Photogrammetry

Review of Planimetric Map T-5898

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 1945, 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 addition of marsh waters in the southern part of the sheet.

Comparison with Previous Surveys.

T-5898 supersedes T-4130, 1:20,000, 1924, over the common area.

The construction of a highway and several drainage canals near the lake shore have changed the details of the shoreline since the last survey. T-5898 also attempts to show details of the grass and vegetation in the water outside of the selected shoreline. These details were omitted on T-4130.

Comparison with Nautical Charts

T-5898 was applied to chart 1289 prior to this review. The changes made in the shoreline and marsh islands during review affect the chart. These changes are shown in red on the map manuscript.

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, Div. of Photogrammetry

Chief, Nautical Chart Br Division of Charts

Chief, Div. of Photogrammetry

Chief, Div. of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. <u>5898</u>

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
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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.