5915

	DESCRIPTIVE REPORT
	Air Photographic Sheet Plane Table Hudrographic (Field)
	Hydrographic (Field)
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10	LOCALITY
	State Florida
	General locality Lake Okeechobse
	Locality St. Lucie Canal near Lake
	Okeechobee
	Photos Luken Jan. 9, 1940 1942
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1247

Form 504 Rev. June 1941

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

CHIEF OF PARTY

Lieut. Comdr. Kenneth G. Crosby

U. S. GOVERNME IT PRINTING OFFICE \$1855

8/14/42 St Perieur applied the 1289

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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.

148180No T-5915

REGISTER NO.

State FLORIDA
General Locality Lake Okeechobee
Locality St. Lucie Canal near Lake Okeechobee
Photos Scale1:10,000 Date of XXXXXX January 9 1940
Party Vessex Air Photographic Party No 1
Chief of party <u>Kenneth G. Crosby</u> Field inspected by, Lieut. J. D. Thurmond & G.E. Varnadoe
Inked by Robert D. Eis, Eng'r Aid
Heights in feet above to ground to tops of trees
Contour, Approximate contour, Form line interval feet
Instructions dated April 3, 1940 , 19
Remarks:
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GPO 266853

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SUPPLEMENTARY SURVEYS

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GENERAL

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

The general locality of the area covered by this survey sheet is Florida East Coast, in the immediate vicinity of the Saint Lucie - Lake Okeechobee Canal

The terrain along the northern bank of the canal consists of a sand and marl spoilebank 10 to 12 feet high extending inshore about 250 meters. Beyond the spoil bank the terrain is flat sandy land with numerous ponds and marshes. The vegetation consists principally of pine, palm, palmetto, grass and brush.

The southern bank of the canal is 10 to 12 feet high covered with grass, vines and brush. The area adjacent to the southern bank is covered with vegetation consisting of pine, palmetto, grass and brush. In the vicinity of triangulation station Allen, there are extensive cultivated areas, many of which are now being used as cattle pastures. The terrain of the southwestern portion of the sheet consists of numerous ponds and marshes. The vegetation consists of pine, palmetto, grass and brush.

CONTROL

The following triangulation station was used for control on this sheet.

NAME OF STATION YEAR ESTABLISHED BY

ALLEN 1934 J. Bowie, Jr.

Allen azimuth mark was moved and reset by the road construction company and the azimuth position could not be checked as the new position is not on record at this office. However, the geographic position has been scaled and is being (submitted on Form 524 in conjunction with this sheet.

Traverse stations established by the U. S. Engineers along the St. Lucie Canal could not be used for control as geographic positions could not be obtained. They were recovered by the field party and their locations determined by the main radial plot. The geographic position for each has been scaled and is being submitted on Form 524.

MAIN RADIAL PLOT

A continuous radial plot was run on April 22 - 24, 1942 inclusive, for the prose of locating all photograph enters, all hydrographic stations, topographic stations, bench marks, azimuth marks, and madial points. The plot extended over the area covered by sheets T-5912 to T-5919, inclusive. All photographs in the area were used. It extends alongthe St. Lucie Canal from Stuart, Florida, south and westward to Lake Okeechobee at Port Mayaca. Photographs4591,4583 and 4584 are the northeast limits and photograph 4564 forms the westerly limits.

The plot consisted of 37 templates all being for 9-lens photographs and being controlled by triangulation stations as follows: 1 by 0; 12 by 1-2; by 3; 8 by 4-8; 7 by 9-13. 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-5919, T-5918, T-5917 and T-5912. Triangulation control was very meagre on sheets T-5913, T-5914, T-5915 and T-5916, but it was felt that additional field observations were not necessary.

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 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 plot was layed only once with the exception of those templates on sheets T-5914 and T-5915. The laying of the plot began with the templates on sheets T-5917, T-5918 and T-5919 and proceeded southwest to triangulation station "ALLEN" on sheet T-5915. These templates were rigidly controlled. From that point to sheet T-5912 the templates were layed by holding intersections of radial line and azimuth, and due to lack of control the templates on sheets T-5914 and T-5915 had to be layed three times before a satisfactory tie-in of control on sheet T-5912.

The agreement along the flight line and the intersections of radial lines to adjacent photographs was excellent, with exceptions as noted in this paragraph. About 98 per cent of the points established by the plot resulted from the intersection at a common point, of three to six radial lines. The remaining 2 per cent are instances where only two "cuts" could be obtained. These are mostly out on the wings of the photographs and while the value of the intersection will be determined by the draftsman, it is believed that the majority of them will be outside the detailing limits. In six or eight instances the point was selected at the center of gravity where the radial lines did not form a common intersection. In no case were the sides of the triangle of error greater than 0.25 m.m. away from the point selected.

The conditions in the preceeding paragraph apply to seven of the eight sheets of this plot. The other sheet (T-5814) was the "weakest" of the plot, insofar as control is concerned, and a common intersection of radial lines was not obtained in some instances on the northern half of the sheet. There are fourteen of these instances and in each case the "cuts" were transferred to the survey sheet for further investigation by the draftsman. The points on the southern part of the sheet were picked at common intersections and after the draftsman has made further investigation, it is believed the detailing will be accomplished with the desired accuracy.

To summarize - the plot is considered "strong;" no large or unusual adjustments were necessary; and that all points are picked with 0.25 m.m. of their true position.

Various cologed inks were used on the photographs and survey sheets to designate triangulation stations, topographic and hydrographic stations, and radial points.

The following key is furnished for future reference.

Photographs

Triangulation and traverse stations......2.5 mm blue circle Hydrographic and topographic stations.....2.5 mm green circle Radial points in main plot2.5 mm red circle

Survey Sheet

INTERPRETATION OF PHOTOGRAPHS

The photographs were clear and accurate and interpretation was obtained with no unusual conditions being found.

FIELD INSPECTION

Field inspection was made during February, 1942 by Lieut. J. D. Thurmond and George E. Varnadoe, Principal Photogrammetric Aid. Field notes were sufficient for accurate interpretation of vegetation and over-all detailing of the sheet.

DETAILING

This sheet was detailed in accordance with the current instructions for the project.

The scale of photograph 4573 and photograph 4576 was good. The scale of photograph 4574 and 4575 was fair.

Due to the highway construction since the photographs were made, the centerline of Florida Highway 109 in the vicinity of triangulation station Allen, 1934, now lies nearer the triangulation station than is shown on the photographs. Indetailing, the centerline of Florida Highway 109 was shown according to the field inspection.

All field roads and minor ditches are not shown. However, the more important field roads are delineated. Before detailing, the surface of this sheet was rubbed down with magnesium carbonate and then washed off. No additional cleaning or re-inking has been necessary.

Symbols have been used in a few areas to clarify local conditions.

The stereoscope has been used freely for picking corners of buildings, interpreting detail and determining the limits of regetation.

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

JUNCTIONS

This sheet joins sheet T-5916 on the East and sheet T-5914 on the west. The junctions are in agreement.

COMPARISON WITH OTHER SURVEYS

Reference is made to a letter from the Washington Office dated May 10, 1941 (28 PFA-1990), advising that this paragraph may be dispensed with. Surveys by other agencies of this area are of such scales that accurate comparisons 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," May 30, 1942, submitted to the Washington Office by Harold A. Duffy, Senior Photogrammetric Aid.

LANDMARKS

There are no prominent landmarks within the limits of this sheet.

Respectivity submitted

Robert D. Eis,

Photogrammetric Aid

Forwarded

Chief of Party

LEGERO USID FOR FIELD IN SPECTION AND DIMPTURE PROJECT 242 - 1942

TR' FS IV the P1 - Pine - Fond - Cypress CY P - Cypress Pand Palo - Palmetto ΪP - Intermittent Fond Palp- Pala D T - Deciduous trees (broad lesf) SHOPFLINE Cit - Citrus (orchard) Lix - Pine, cypress & Doo. trees H.W.L.- mean high naterline (solid (Density) red line - fast land) Sct. - Bosttered Lell-Le- low waterline (dashed red line) t.w. - Thinly wooded L.L. - Light line (solid blue 1243 for h.w. - Heavily wooded men high enter line on r. reh) Sor. - Scrub trees Dk - Dock - Plor Pr VINETATION Se W - Segmall Fikhd - Bulkhead - Cultivation Conc - Concrete - Grass 6:0 - nooden T Gr - Tall Tropical Gress Jat - Jetty - Larah (dished blue line on Dol - Dolphin inshore limits) Pile - Pile (give type) - Earth grass in water (dished blue s - Sand line on offshore limits) **Lud** - Ind SIT - Swarp - Rock or Rocky lik - FENEROSO Sty - Stony Hda - Hodge - i.ater W - Bluff (hoight) M STAINS = Flood of Land FL SUILLINGS. - Conel (width) Gr - Creak H - House, barn or building - Vitch (wiath) - Garch (give nume) IS - Intermittent Street Ot H - dourt House (ive name) FUU - Probable drainage unsurveyed Bo H - Boat House Brg - Bridge or symbol P.O. - Fost Office (dive name) CV - Culvert R.H.Sta-Rollroad station (Live name) Lev - Levee - Hospital (ive name) Hos - School (sive name) Sch P.G.S .- Morida Geodetic Survey U. S. D.- U. S. Engineers HIS TALLABIOUS USBS - U.S. Biological Survey - Fence ROADS & It ILLOIDS FB - Fire Break (mintuined) - Fire Break (abendened) FIX hd 1 - let class roed (paved) - Cenetery Cen Rd 2 - 2nd class road Park - Park (give name) - Trail + From coods Tr P.T. - Fire tower RR - hailroad 7.7. - Transmission tower(tall steel) - Overness (state the kind) P.L. - Pomer Line - Inderposs(state the kind) Shool - Approx. limits by long dashed - abilidoned trail, road, etc. line for use by hydrographer. R H ab- F.R. abandoned (grade only)

	GEOGRAPHIC NAMES . Survey No. 1-5915	/	No. Of	Ac or	S. Mod.	of the land	or local Mag	O. Cide of	Mad Metall	N. S.	<i>š</i> //
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Remarks

Decisions

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2		270803-05					
3	No. 85 on most maps.	1941 off.	State Road	Мар			
4		270803 -0 5					
5	With respect, to title for this sheet, this section of St. Lucie Canal is nearer St. Lucie River than						
6	to Lake Okeechobee.						
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Division of Photogrammetry Review of Planimetric Map T-5915

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

Field Inspection and Detailing.

These were complete and only a few minor corrections were necessary during the review.

Main Radial Plot.

The radial plot across T-5915 was relatively weak, but the accuracy of position of details is probably within 1 millimeter of correct geographic position.

Comparison with Nautical Charts.

T-5915 was applied to chart 1289 prior to this review. No changes of consequence to the chart were made during the review.

Reviewed under the direction of D. H. Benson.

This report prepared by B. G. Jones from reviewer's notes, May 1947.

APPROVED:

Technical Assistant to the Chief.Div. of Photogrammetry

Chief, Nautical Chart Division of Charts

Chief.Div. of Photogrammetry

Chief, Div. of Coasta

Surveys