5910

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric Map

Field No. ..... Office No. T-5910

LOCALITY

State Florida

General locality Lake Okeechobee

Locality Pahokee and vicinity

Photos taken Jan 9, 1940. Supplemented by ground surveys to April 1942.

1942

CHIEF OF PARTY

Lieut. Comdr. Kenneth G. Crosby

LIBRARY & ARCHIVES

DATE July 21-1947

B-1870-1 (1)

5910

Applied to Chart 1289 7/27/43 G.T.E. (before review)

Form 537a
Ed. Nov. 1929

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. T5910

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.

~~XXXXXXXXXX~~No. Sheet T-5910

REGISTER NO.

State Florida

General Locality ~~Southwestern~~ Lake Okeebhobee

Locality Pahokee & Vicinity

Scale 1: 10,000 Date of ~~survey~~ Photo. January 9, 1940

Party:
~~XXXXXX~~ Air Photographic Party No 1

Chief of party Lieut Comdr. K.G. Crosby

Field Inspected by Lieut. J.D. Thurmond & H. A. Duffy,
~~XSurveyedXby~~ Sr. Photogrammetric Aid.

Inked by Robert Eis Photogrammetric Aid

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

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

Instructions dated April 3, 1942

Remarks:

GPO 266853

SHEET NO. T- 5910

SUPPLEMENTARY SURVEYS

	Name	Date	Hours
Control Surveys	JDT,GEV,HAD	March, April	56
Planetable Surveys	GEV,JDT,JHSB	May, June	50
Compilations		Total	106

FIELD INSPECTION

Preparation of Photographs	CH,JEH,FHE	Oct. Nov.	7¾
Field Work	HAD, GEV, FHE	Feb.,Apr.	34½
Inking Notes	HAD	Feb.	3
Coast Pilot Notes			
Geographic Name Reports	FHE	May	7
Land Marks for Charts			
Description & Rds	HAD	Feb., May	20
Recovery Notes			
		Total	72¼

MAIN HORIZ PLOT

Scale Plot	WHS-	May	1
Projection on Base Sheet	Wash. Offc.		
Projection on Survey Sheet			
Control Plotted	JEH	June	1½
Control Checked	ALK	June	1¾
Control Trans. to Base Sheet	RD	June	2
Transfer Checked	ALK	June	½
Control Picked on Photographs	WHD, HVR	May	12½
Control Checked on Photograph	LCB	May	3
Hydro & Topo. Stations Picked	HVR, LCB, JTW	May	7
Radial Points Picked	GEV	May	6
Adjacent Centers Picked	RD,WHS	March	3¾
Templates	JTW	May	14½
Radial Plot	X	June	8
Radial Points Transferred	RDE	June	2
Transfer Checked	ECA	June	2
H & T Stations Scaled & Checked	RDE, RD	Aug.	3
Additional Radial Points and investigation of radial points	RDE	July	19½
		Total	88

INKING

Rough Draft	RDE	July, Aug.	143½
Smooth Draft			
		Total	143½

COMPILATION

Name overlay	RDE	Aug.	2
Descriptive Report	RDE	Aug.	6
Field Work	RD	Aug.	7
		Total	15

Total time spent on Sheet ..... 424¾ hours

X = Several of office personnel

SHEET NO. T-5910

PHOTOGRAPHS

Number	Date	Time	Stage of Tide
4553	Jan. 9, 1940	11:15	No tide
4554	" " "	11:16	"
4555	" " "	11:17	"
4556	" " "	11:18	"

Tide from predicted tables for:

Camera: U. S. Coast and Geodetic Survey Nine-Lens (focal length 8½ inches)
Negative on file at the Washington Office.

Scale

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

STATISTICS

Area (land).....19.33 Square statute miles
Shoreline (more than 200 m. from opposite shore) 5.75 Statute miles
Shoreline (creek) .....24.44 Statute miles
Roads, streets, trails, and railroads.....57.50 Statute miles

REFERENCE STATION

Station: Tank Pahokee Muni, 1942
Datum: N.A. 1927 ~~(Prov.)~~ 4

Latitude: 26° 49' 27.~~678~~72" (~~851.8m.~~ 853.1m)
Longitude: 80° 39' 57.40" (1585m)

Fla. East Zone

X = 608,945.93 Ft.
Y = 905,432.092 Ft.

T-5910

DESCRIPTIVE REPORT
TO ACCOMPANY
SHEET T- 5910

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 this sheet is Lake Okeechobee, Florida, in the vicinity of Pahokee. The major portion of the area of this sheet consists of intensely cultivated ground covered by an extensive network of drainage ditches and canals. The elevation of the entire area is uniformly low and it is only by means of levees, drainage ditches, canals, and large pumping stations, constantly working, that the land can be kept from being flooded.

In a few of the fields and along the more important roads, there have been planted wind breaks consisting of australian pines, bamboo, and palm trees.

The entire shoreline of Lake Okeechobee on this survey sheet is formed by a levee approximately 25 feet high. Inshore, adjacent, and parallel to this levee is an area approximately 200 meters wide where-in are located the majority of the buildings other than those in congested areas. The vegetation in this area consists of tropical grass, brush, pine, palm and deciduous trees. There are three areas of marked congestion within the limits of this sheet. They are the towns of Pahokee, Azucar and Pelican Lake. The last two towns named are owned by the United States Sugar Corporation.

Roads shown by a single line should be 0.6 m.m. wide.

At a distance of about a mile northeast of Pahokee there is shown a large building labeled "Packing Shed." On the photographs only the foundation is visible but it is reported that the building has been completed and a railroad siding laid subsequent to the time the photographs were taken. This building has been shown as completed.

CONTROL

The control on this sheet consists of a portion of a scheme of triangulation by Lieutenent Commander Kenneth G. Crosby executed in the Spring of 1942. The geographic positions of the stations in the scheme were computed, plotted on the survey sheet and used as control on the main radial plot in the usual manner. However, subsequent to the time the main radial plot was run, the Washington Office has reviewed the results of the triangulation party and has declared the work to be of less than third **order** accuracy. In view of the opinions of the Washington Office, the 1942 triangulation stations have been shown on the survey sheet as hydrographic and topographic stations by black circles 3.5 m.m. in diameter.

Note: This 1942 control has since been adjusted and will be shown as Δ. See G.P.'s in Geodesy file - 11/23/43
Bgg

The use of all 1942 triangulation stations as control on this survey sheet was satisfactory with the exception of the station TANK, PELICANLAKE, 1942. The observations upon this station were such that its computed geographic position was doubtful. The position of station TANK PELICAN LAKE, 1942, on this survey sheet was determined by the intersection of two radial lines. *

Stations which were used for control on this survey sheet are:

STATION	YEAR	ESTABLISHED BY
√Now	1942	K. G. Crosby
√Lam	"	"
√East Ventilator	"	"
√Tank, Azucar	"	"
√Tank, Pahokee Muni	"	"
√Bacom Point Light	"	"

Stations GIG, 1942, (K.G.Crosby), CANAL POINT LIGHT 1942, (K.G.Crosby) TANK CANAL POINT, 1942 (K.G.Crosby) and CAN 1942 (K.G.Crosby) fall without the limits of this sheet.

INTERPRETATION OF PHOTOGRAPHS

The photographs were clear and no difficulty was experienced in their interpretation.

MAIN RADIAL PLOT

A continuous radial plot was run on June 17 and 18, 1942, for the purpose of locating all photograph centers; all hydrographic stations; topographic stations; benchmarks; azimuth marks and radial points. The plot extended over thearea covered by sheets T-5905 to 5911, inclusive. All photographs in the area were used. It extends south and west along the east and south sides of Lake Okeechobee from Latitude 26°-57.5', which is just south of Port Mayaca, Florida, to Longitude 80°- 59' which is just west of Clewiston, Florida. Photographs 4534 and 4433 are the western limits, 4544 is the southernmost one while 4561 is the photograph forming the northern limits.

The plot consisted of 34 templates all being for 9-lens photographs and being controlled by triangulation stations as follows: 1 by 9; 2 by 8; 1 by 7; 5 by6; 2 by 5; 7 by 4; 6 by 3; 6 by 2; 4 by 1. Triangulation existing at the time of the field inspection could not, in a number of instances, be recovered, due to it having been destroyed by cultivation. Therefore, supplementary scheme of triangulation was established by this party proved adequate for rigid control throughout the plot.

* Geodesy found no trouble with this position and the published position has been plotted on the manuscript and details adjacent thereto have been adjusted. The difference in position between the radial plot and triangulation was about 1.0 mm or 10 meters indicating that the plot was in error by this amount in the extreme S.E. corner of the manuscript. A.J.C.

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 laid only once, beginning on sheet T-5911 and working south and west until it was completed on sheet T-5905. The agreement along the flight lines and the intersections of radial lines to adjacent photographs was excellent. 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-5905 had 4; T-5906 had 4; T-5907 had 0; T-5908 had 8; T-5909 had 12; T-5910 had 6; T-5911 had 10. In addition to these, the radial lines were transferred to the survey sheet where only two "cuts" could be obtained. The draftsman will determine the value of these 2-cut intersections. 47 such instances occur in the entire plot. All other points were established by the intersections of from 3 to 6 radial lines.

This plot is considered "strong"; 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 mm blue circle
Hydrographic and Topographic Stations.....2.5 mm green circle
Radial Points intheMain Plot.....2.5 mm red circle
Radial Pokmts (additional) .....3.5 mm red circle
Photograph Centers.....Double white circle

Survey Sheets

Triangulation and Traverse Stations.....3.5 mm high black triangle
Hydrographic and Topographic Stations....2.5 mm black circle
Radial Points on Main Plot.....2.5 mm blue circle on back
Radial Points (Additional) .....3.5 mm blue circle on back
Photograph Centers.....Double blue circle on back

FIELD INSPECTION

The field inspection was made by Harold A. Duffy, Sr. Photogrammetric Aid, during March and April 1942.

DETAILING

The detailing of this sheet was done in accordance with the current instructions for this sheet and project.

Before detailing the surface of this sheet was rubbed with magnesium carbonate and washed off. No additional cleaning was necessary and no re-inking has been required.

The scale of the photographs was only fair. A sufficient number of additional radial points were added to provide adequate local control for drafting. Symbols were used wherever a better interpretaion could be obtained than by legend. The stereoscope has been freely used as an aid to drafting. All buildings visible under the stereoscope have been shown.

JUNCTIONS

This sheet joins T-5911 on the north and T-5909 on the south. The junctions are in agreement.

COMPARISON WITH OTHER SURVEYS

Existing surveys in this area are of such scale that an accurate comparison cannot be made. However, a visual comparison with former survey sheet No. T-4126 reveals that extensive changes have been made in the area covered by this sheet (T-5910).

LAND MARKS

Reference is made to Form 567 which is made part of this report.

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, Sr. Photogrammetric Aid.

Respectfully submitted,

Robert Eis,
Engineering Aid

Forwarded:

Kenneth G. Crosby,
Chief of Party...

LEGEND USED FOR FIELD INSPECTION AND DRAFTING
PROJECT 242 - 1942

TREES

Pi - Pine
Cy - Cypress
Palo - Palmetto
Paln - Palm
D F - Deciduous trees (broad leaf)
Cit - Citrus (orchard)
Mix - Pine, cypress & Dec. trees (Density)
Sct. - Scattered
T.W. - Thinly wooded
H.W. - Heavily wooded
Scr. - Scrub trees

VEGETATION

C - Cultivation
Gr - Grass
T Gr - Tall Tropical Grass
M - Marsh (dashed blue line on inshore limits)
MG - Marsh grass in water (dashed blue line on offshore limits)
Sw - Swamp
Mg - Mangrove
Hdg - Hedge

STREAMS

Ca - Canal (width)
Cr - Creek
D - Ditch (width)
I S - Intermittent Stream
PDU - Probable drainage unsurveyed
Brg - Bridge or symbol
Cv - Culvert
Lev - Levee

FGS - Florida Geodetic Survey
USE - U. S. Engineers
USBS - U. S. Biological Survey

ROADS & RAILROADS

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

PONDS

P - Pond
Cy P - Cypress Pond
I P - Intermittent Pond

SHORELINE

H.W.L. - mean high waterline (solid red line - fast land)
L.W.L. - low waterline (dashed red line)
L.L. - Light line (solid blue line for mean high water line on marsh)
Dk - Dock
Pr - Pier
Se W - Seawall
Bkhd - Bulkhead
Conc - Concrete
Wo - Wooden
Jet - Jetty
Dol - Dolphin
Pile - Pile (give type)
S - Sand
Mud - Mud
Rk - Rock or rocky
Sty - Stony
W - Water
Blf - Bluff (height)

BUILDINGS

H - House, barn or building
Ch - Church (give name)
Ct H - Court House (give name)
Bo H - Boat House
P.O. - Post Office (give name)
RR Sta - Railroad station (give name)
Hos - Hospital (give name)
Sch - School (give name)

MISCELLANEOUS

F - Fence
FB - Fire Break (maintained)
FBX - Fire Break (abandoned)
Cem - Cemetery
Park - Park (give name)
F.T. - Fire tower
T.T. - Transmission tower (tall steel)
P.L. - Power Line
Shoal - Approx. limits by long dashed line for use by hydrographer.

LEGEND USED FOR FIELD INSPECTION AND DRAFTING
PROJECT 248 - 1942

TREES

Pi - Pine
Cy - Cypress
Palo - Palmetto
Pala - Pala
D T - Deciduous trees (broad leaf)
Cit - Citrus (orchard)
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	Remarks	Decisions
1		269806-08 USGB
2		268806-08
3		267806-07
4		268806-08
5		"
6		"
7		"
8		"
9		"
10		
11		Railway Guide
12		Fla. 1941 State Road Map
13	Shown on sheet to SW of Pahokee near lake	
14		Fla. 1941 State Road Map
15		
16		
17		
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23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. T-5910

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
Bacom Point										2
Culvert No. 10										3
Forked River										4
Pahokee										5
Pahokee Migratory Workers Camp										6
Pelican Lake (village)										7
Azucar										8
West Palm Beach Canal										9
										10
Florida East Coast Ry.										11
Florida Highway No. 143										12
Florida Highway No. 172										13
Florida Highway No. 194										14
				Name underlined in red approved by Latteck on 12/30/44						15
										16
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										27

M 234

Division of Photogrammetry

Review of Planimetric Map T-5910

Radial Plot.

The radial plot was well controlled and has been accepted as satisfactory without checking in this office. However, it appears that the plot may have been in error as much as 1 millimeter in the southeast section of the sheet, as indicated by the discussion on page 2 of the descriptive report.

Field Inspection and Detailing.

These were generally adequate. A few second class roads have been added by the reviewer.

Comparison with Previous Surveys.

T-5910 supersedes T-4126, 1:20,000, 1925 over the common area. Changes have occurred along the lake shore since the previous survey. These are due to the construction of a levee.

Comparison with Nautical Charts.

T-5910 was applied to chart 1289 in July 1943, prior to this review. No changes have been made during the review which affect the chart.

Reviewed under the direction of R. M. Berry, December 1943.

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

APPROVED BY:

B.G. Jones 6/47
Technical Assistant to the Chief, Div. of Photogrammetry

Chief, Nautical Chart Br.
Division of Charts

K.T. Adams
Chief, Div. of Photogrammetry

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

NAUTICAL CHARTS BRANCH

SURVEY NO. T-5910

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
7-27-43	1289	G.M. Everett	Before ~~After~~ Verification and Review
11-22-48	"	P.E. Tudor	~~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.