

5905

Diag'd. on Diag. Ch. No. 805 & 1255

5905

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Planimetric Map
Field No.	T-5905 Office No.
LOCALITY	
State	Florida
General locality	Lake Okeechobee
Locality	Glewiston and Vicinity
Photos taken in 1939 and 1940.	
Supplemented by other surveys to	
Jan. 1940.	1942
CHIEF OF PARTY	
Lieut. Comdr. Kenneth G. Crosby	
LIBRARY & ARCHIVES	
DATE	Aug 23 - 1946

Applied to Chart 1289

" " " "

Aug. 4, 1943 GEE. before review.

Nov. 19, 1948 *and after* "

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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.

Sheet
~~Block~~ No. T-5905

REGISTER NO.

State Florida

General Locality Lake Okeechobee, Florida

Locality Clewiston and vicinity

Scale 1:10,000 Date of photos 1-9-40
12-21-39, 19

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

Chief of party Lieut. Comdr. Kenneth G. Crosby

Triangulation Recovered

H & T Established Harold A. Duffy, Sr. Photo Aid

Inked by Rudolph Dossett, Senior Photogrammetric Aid

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated April 3, 1940

Remarks: _____

SHEET No. T-5905

SUPPLEMENTARY SURVEYS

	Name	Date	Hours
Control surveys.....	X	Mar. Apr. May	60½
Planetable Surveys.....			
		Total	60½

FIELD INSPECTION

~~SUPPLEMENTARY SURVEYS~~

Preparation of Photographs.....	CH, JEH, FHD	Oct. Nov. 42	5½
Field Work.....			
Inking Notes.....			
Coast Pilot Notes.....			
Geographic Name Reports.....	FHE	May	4
Land Marks for Charts.....			
Description Cards & Recovery Notes.....	HAD	May	4
		Total	13½

MAIN RADIAL PLOT

Scale Plot.....	ALK	July	2½
Projection on Base Sheet.....) Washington Office		
Projection on Survey Sheet.....			
Control Plotted.....	JEH	June	¼
Control Checked.....	ALK	June	¼
Control Trans. to Base Sheet.....	JEH	June	¼
Transfer Checked.....			
Control Picked on Photograph.....	HVR	May	½
Control Checked on Photograph.....	CHW	May	½
Hydro & Topo. Stations Picked.....	HVR	May	½
Radial Points Picked.....	GEV	May	6
Adjacent Centers Picked.....	HVR, ERH	Apr.	12
Templates.....	HGB, CHW	May	10
Radial Plot.....	X	June	5½
Radial Points Transferred.....	WHS	June	1
Transfer Checked.....	HAD	June	4
H & T Stations Scaled & Checked.....	RD, BOB	July, Aug.	3
Additional Radial Points.....			
Investigation of Radial Points.....			
		Total	46

DETAILING

Rough Draft.....	RD	July	102
Smooth Draft.....			
		Total	102

COMPILATION

Name overlay.....	RD	July	2
Descriptive Report.....	RD	July	5
Field Review.....	RDE	Sept.	12
			19

Total time spent on Sheet.....241½ hours

X=Several of Office & Field Personnel

PRINCIPALS

Number	Date	Time	State of Tide
4534	1-9-40	10:52 A.M.	No Tide
4535	"	10:53 "	
4536	"	10:54 "	
4537	"	10:55 "	
4433	12-21-39	11:13 "	
4434	"	11:14 "	

Tide from predicted tables for: No Tide

Camera: U. S. Coast and Geodetic Survey Nine-Lens (focal length 8 inches)

SCALE

Mean scale of Photographs..... 1:10,000 + .9928
Scale of Survey Chart..... 1:10,000

STATISTICS

Area (Land)..... 20.8 Square statute miles
Shoreline (more than 200 ft. from opposite shore)... 6.7 Statute miles
Shoreline (crests)..... 26.2 Statute miles
Roads, streets, trails, and railroads..... 59.0 Statute miles

POSITION SYSTEM

Station: Clewiston Muni W.T., 1937

Date: N.A. 1927

Adjusted

Latitude: 913
26° 45' 16.812" (520.5 m.)
Longitude: 911 108.0 m.
80° 56' 03.966" (1980 m.)

*check JON
1.2-29-42*

FJA E Zone

*X = 521,401.03 FT.
Y = 879,971.61 FT.*

DESCRIPTIVE REPORT
TO ACCOMPANY
SHEET NO. T-5905

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 the area covered by this sheet is Lake Okeechobee, Florida, in the vicinity of Clewiston, along the southwestern shoreline.

The entire inshore area is a part of the Clewiston U. S. Sugar Corp. plantation and is entirely under cultivation.

There is an extensive system of irrigation and drainage canals and ditches throughout the sheet, controlled by pumping stations and flood gates.

The shoreline is protected by a levee built and maintained by the U.S. Corps of Engineers. A dredged channel extends along the levee from the Eastern to the Western limits of the sheet. There are also two dredged channels from the levee extending offshore to open water. These are shown on the map drawing.

The area in the N.W. corner of this sheet, in the vicinity of Grass Island, was, before the construction of the levee, largely firm land with some cultivated areas. This area is now marsh land and grass in water. It has been outlined and labeled accordingly. The distinction between the marsh and grass in water is indefinite and it is recommended that they be shown as merging with each other on the smooth draft.

All roads shown by a centerline should be drafted 0.6 m.m. wide.

CONTROL

Control on this sheet consists of the following triangulation stations:

<u>NAME OF STATION</u>	<u>YEAR</u>	<u>ESTABLISHED BY</u>
Clewiston W. T. -	1937	R. A. Earle
Stack, U. S. Sugar Corp.	1937	R. A. Earle

The following triangulations appear on this sheet outside the tracing limits:

Clewiston	1937	R. A. Earle
Dyke 2	1937	R. A. Earle

The position of the azimuth mark at triangulation station Clewiston, 1937, was compared with the geodetic azimuth given in the list of geographic

524 cards not found at time of
prelim. edit - C.B. Potterson 2-20-45
Type info. taken from ms.

positions and was found to be in agreement.

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, bench marks, azimuth marks, and radial points. The plot extended over the area covered by sheets T-5905 to T-5911, inclusive. All photographs in the area were used. It extends south and west along the east and south sides of Lake Okeechobee from Lat. 26° - $57.5'$, which is just south of Port Mayaca, Fla., to Long. 80° - $59'$, which is just west of Clewiston, Fla. 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 by 6; 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, a supplementary scheme of triangulation was established by this Party which proved adequate for rigid control throughout 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 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 m.m. blue circle
Hydrographic and Topographic Stations-----2.5 m.m. green circle
Radial Points in the Main Plot-----2.5 m.m. red circle
Radial Points (Additional)-----3.5 m.m. red circle
Photograph Centers-----Double white circle

SURVEY SHEETS

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

FIELD INSPECTION

Due to official order, the field party was withdrawn from the field before a complete inspection could be made of the entire area of this sheet. Only the extreme western areas are covered by inspection. A comparison with the field inspection of similar areas about Lake Okeechobee was made and it is believed that a correct interpretation has been made of the portion not covered by field inspection.

DETAILING

The detailing of this sheet has been 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 except for occasional touched up places no reinking was required.

The scale of photographs 4535 and 4537 were not as good as the others. They were usable, however, and some detail was taken from each.

JUNCTIONS

This sheet forms a junction on the east with T-5906, on the west with T-5904, and on the north with T-5892. All junctions are in agreement.

COMPARISON WITH OTHER SURVEYS

There were no old topographic sheets available for a comparison of this sheet.

LAND MARKS

The new landmarks to be charted and those to be deleted are recorded on form 567 attached to this report.

NON-FLOATING AIDS

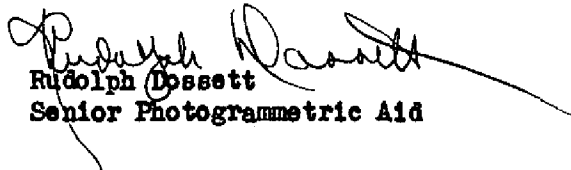
Light No. 14 at the end of Moorehaven South Channel is shown. It was located by radial line intersection; however, it was only possible to obtain two point radial intersection, and it is recommended that its position be considered as approximate.

Light No. 13, shown on Chart 805 and located on the approach channel to Hurricane Gate No. 2, could not be picked on the photographs. It was not established by the field party and has therefore not been shown.

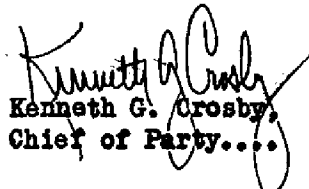
GEOGRAPHIC NAMES

The geographic names for this sheet 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 by Harold A. Duffy, Senior Photogrammetric Aid, May 30, 1942.

Respectfully submitted,


Rudolph Dossett
Senior Photogrammetric Aid

Forwarded by:


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

~~TO BE CHARTED~~ } STRIKE OUT ONE
~~TO BE DELETED~~

LANDMARKS FOR CHARTS
1101 E. Broadway, Th

1-5905
JPA, HLA, 9-14-64

1000

I recommend that the following objects which have (*have not*) been inspected from seaward to determine their value as landmarks, be charted on (~~*detached from*~~) the charts indicated.

Lieut. Comdr. Kenneth G. Crosby

Chief of Party:

[illegible]

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

~~TO BE CHARTED~~ } STRIKE OUT ONE
~~TO BE DELETED~~

1101 E. Broadway, Tampa, Fla. 9-14-42 193

LANDMARKS FOR CHARTS
Sheet No. T-5905

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

The positions given have been checked after listing.

Wm. H. G. G. G.

Lieut. Comdr. Kenneth G. Crosby

Chief of Party

[illegible]

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

LANDMARKS FOR CHARTS

Sheet T-5805

~~TO BE CHARTED~~ } STRIKE OUT ONE
~~TO BE DELETED~~ }

1101 E. Broadway, Tampa, Fla.

9-14-42

193

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

The positions given have been checked after listing

Lieut. Comdr. Kenneth G. Crosby

Chief of Party

[illegible]

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

T-5905

Remarks

Decisions

1		269806-08 USGB
2		267808-09
3		268809-11
4		267808-09
5		"
6		"
7		Railway Guide
8		1941 Off. Road Map
9		
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GEOGRAPHIC NAMES
Survey No. T-5905

Survey No. T-5905

M 234

DIVISION OF PHOTOGRAMMETRY
REVIEW OF PLANIMETRIC MAP T-5905

Radial Plot:

The radial plot is discussed in detail in the descriptive report. Although there are only two control stations on T-5905, the radial plot as a whole was adequately controlled and has been accepted without checking during review.

Field Inspection and Detailing:

As noted in the descriptive report, field inspection was not completed in this area. Delineation of the shoreline was accomplished by comparison with field inspection photographs in adjoining areas. After a study during the review, changes have been made in the delineation of the marsh line to show conditions existing at the time of photography as evidenced on the photographs. The revised shoreline is shown in red.

Detailing was complete, with the exception of a few buildings omitted at Clewiston. These have been added by the reviewer.

Comparison with Previous Surveys:

T-4127	1:20,000	1925
T-4128	1:20,000	1925

The construction of a dyke since 1925, the date of the previous surveys, has made possible the reclamation of a large area of land and this fact has changed the features of the map almost entirely. In fact, it is almost impossible to find any features that can be compared. The fact that the two maps were not made on the same horizontal datum accounts for a certain amount of shifting of detail, but it is evident that the Atlantic Coast Line R.R. has changed the position of their tracks in this area. The town of Clewiston has expanded from a few houses to a fairly large community. Sheet T-5905 supersedes those sections of T-4127 and T-4128 which it covers.

Comparison with Nautical Charts:

T-5905 was applied to Chart 1289 in August 1943, prior to this review. Changes have been made during the review as shown in red on the manuscript. Shoreline changes around Grass Island affect the chart.

NOTE:

T-5905 was compiled in 1942 but the processing in the Washington Office was delayed by war map work and was not completed until August 1946.

This review report was prepared by B. G. Jones from reviewer's notes in August 1946.

APPROVED BY:

B. G. Jones 8/46
B. G. Jones, Technical Asst.
Div. of Photogrammetry

K. T. Adams
Chief, Div. of Photogrammetry

Robert W. Max
Chief, Nautical Chart Branch
Division of Charts

Raymond P. Egan
Chief, Div. of Coastal Surveys