

5911

5911

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Planimetric Map
Field No.	Office No. T-5911
LOCALITY	
State	Florida
General locality	Lake Okeechobee
Locality	Lake Okeechobee in the Canal Point and Vicinity
Photos taken Jan. 9, 1940. Photos of Jan. 1940 supplemented by field surveys to 1942 April 1942.	
CHIEF OF PARTY	
Lt. Comdr. Kenneth G. Crosby	
LIBRARY & ARCHIVES	
DATE	July 21 - 1947

Applied to Chart 1289 7/24/43 G.T.E. (before review)

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

~~Sheet~~ No. T-5911

REGISTER NO.

State Florida

General Locality Lake Okeechobee

Locality Lake Okeechobee in the vicinity of Canal Point

Scale 1:10,000 Date of ~~Survey~~ <sup>photos</sup> January 9, 1940

Party

~~Survey~~ Air Photographic Party No. 1

Chief of party Lieut. Comdr. Kenneth G. Crosby

Field Inspected by

~~Surveyed by~~ Lieut. J. D. Thurmond and Harold A. Duffy, Sr. Photo. Aid

Inked by James E. Hundley, 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: \_\_\_\_\_

15911

FIELD TRIP REPORT

Continued. . . . .	JDT, HAD, FHE	March, April	61
Photostatic copies. . . . .	GEV, JHSB, JDT	May, June	51½
Compilations. . . . .			112½

Photostatic copies of photo logs. . . . .	CH, JEH, FHE	Oct. Nov.	8
Field work. . . . .	HAD, FHE, JDT	Feb. March	77½
Travel notes. . . . .	HAD	Feb.	3
Joint field notes. . . . .			
Map of the area. . . . .	FHE	May	5
Land use map for the area. . . . .			
Photostatic copies of maps. . . . .	HAD	Feb., May	25½
Recovery notes. . . . .			
		Total	119

FIELD TRIP REPORT

Scale plot. . . . .	WHS	May	1
Projection on map of area. . . . .	Wash. Offc.		
Projection on survey sheet. . . . .			
Control plotted. . . . .	RD	June	1½
Control checked. . . . .	ALK	June	1
Control plans to (see sheet). . . . .	RD	June	2
Transfer checked. . . . .	ALK	June	1
Control checked on photo map. . . . .	HVR, HGB, WAS	May	13
Control checked on photo map. . . . .	HGB	May	9
Map & photo. . . . .	HVR, HEB, JTW	May	24
Control points plotted. . . . .	GEV	May	6
Transfer checked. . . . .	RD, WHS	March	7
Compilations. . . . .	JTW	May	13½
Control plot. . . . .	X	June	16
Control points transferred. . . . .	RD, CAJP	June	16
Transfer checked. . . . .	ECA, HAD	June	16
Control points checked & checked. . . . .	JEH, JCP	July, Aug.	15½
Control points and. . . . .	JEH	June	12½
Investigation of radial points. . . . .		Total	114½

Control plot. . . . .	JEH	June, July	84½
Control plot. . . . .		Total	84½

FIELD TRIP

Map copy. . . . .	JEH	July	12½
Descriptive report. . . . .	JEH	July	9½
Field review. . . . .	WHS	Aug.	19
		Total	41½

Time spent on field trip. . . . . 47½ hours

X = Several of Office personnel

SHEET NO. T- 5911

PHOTOGRAPHS

Number	Date	Time	Stage of Tide
4556	1-9-40	11:18	None
4557	1-9-40	11:19	
4558	1-9-40	11:19	
4559	1-9-40	11:20	
4560	1-9-40	11:21	
4561	1-9-40	11:22	

Tide from predicted tables for: None

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

SCALE

Mean scale of Photographs..... 1:10,000  $\pm$  1.012  
 Scale of Survey Sheet..... 1:10,000

STATISTICS

Area (land)..... 17.6 Square statute miles  
 Shoreline (more than 200 m. from opposite shore)... 8.0 Statute miles  
 Shoreline (creeks)..... 1.2 Statute miles  
 Roads, streets, trails, and railroads..... 36.2 Statute miles

REFERENCE STATION

Station: *Sand Cut Migratory Camp, Tank, 1942*  
~~Sand Cut Water Tank, 1942~~

Date: N. A. 1927

Latitude: *055 (1448.2 M.)*  
~~26° 54' 47" 092 (1449.3 m.)~~  
 Longitude: *588 (1230.3 M.)*  
~~80° 36' 44" 500 (1230.3 m.)~~

*Fla. E*  $X = 626,314.68 \text{ Ft.}$   
 $Y = 937,725.40 \text{ Ft.}$

*(Adjusted!)*

DESCRIPTIVE REPORT  
TO ACCOMPANY  
SHEET NO. T-5911

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 survey sheet is Lake Okeechobee, in the immediate vicinity of Canal Point, a town located at the junction of West Palm Beach Canal and Lake Okeechobee, in the Northwest section of Palm Beach County, Florida.

There is a Levee, approximately 25 feet above mean Lake level running along the shore line the entire length of that part of the Lake that appears on this sheet.

The terrain directly behind this Levee is very low, in most cases being just at mean Lake level, hence the numerous drainage ditches in and around the cultivated areas shown on this sheet.

The vegetation appearing on this sheet consists of equal amounts, approximately, of cultivated and glade land. The Glade land is wet throughout and is covered with sawgrass and small areas of scattered brush.

West Palm Beach Canal, appearing in or near the southwest corner of this sheet is narrow and comparatively shallow and evidently could be used only by small commercial craft.

There are 2 State Highways appearing on this sheet, i.e. Florida State Road #194 running from the northern limits of detail, approximately 150 meters from shore line of Lake Okeechobee, to Canal Point, turning southeast at Canal Point and running near the shore line of West Palm Beach Canal to limits of detail. Florida State Road #143 makes a junction with Florida State Road #194 at Canal Point and running southwest to limits of detail.

The Florida East Coast Railroad Company operates a line running within an average of 120 meters of the shoreline of Lake Okeechobee, approximately north and south the entire length of this sheet.

A second class road runs along the top of the Levee and is only used to get workers to the Flood Gates and Dredges on the Lake in this vicinity.

There is no designated road or trail system in the cultivated area shown on this sheet.

All roads shown by centerline only should be drawn 0.6 m.m. wide.

CONTROL

The only triangulation station within the detailing limits of this sheet is New, 1924, 1942, a Coast and Geodetic Survey station established by L. D. Graham.

A scheme of triangulation was run by this party in 1942 but reference

is made to the Director's letter dated July 20, 1942, Reference No. 28-PFA-1990-Subject: Lake Okeechobee Triangulation, in which it was suggested that these stations be shown as topographic stations. They are shown on the survey sheet as 3.5 m.m. black circles and are as follows: Sand Cut Water Tank, Canal Pt. Muni. Water Tank, Can., Canal Pt. Light. These stations were used as control on the main radial plot with good results. *This control has been used and adjusted to the scales and been changed to angles 1/2*

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.  $26^{\circ} - 57.5'$ , which is just south of Port Mayaca, Florida, to Long.  $80^{\circ} - 59'$  which is just west of Clewiston, Florida. Photographs 4534 and 4433 are the western limits, 4544 is the southern most 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 SKEETS

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  
Lake Okeechobee 1942 Triangulation Stations....3.5 m.m. black circles on front

#### INTERPRETATION OF PHOTOGRAPHS

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

#### FIELD INSPECTION

Field inspection was made by M. A. Duffy, and Lt. J. D. Thurmond in February, March and April, 1942. The field inspection was done on 1:10,000 scale photographs. Notes were sufficient for accurate interpretation of all detail.

#### DETAILING

This sheet was detailed in accordance with the current instructions for the project. Before detailing, magnesium carbonate was applied and then washed off. No additional cleaning or reinking was necessary.

The detail which appears on this sheet was taken from photographs 4056, 4057, 4058, 4059, 4060 and 4061. All were in poor scale, 4057 being very bad.

Several additional radial points were added to photographs 4056, 4057, 4058, 4059 and 4060 in order that the adjustment between radial points would not exceed maximum adjustment allowed between these points for detailing purposes.

After adding these points to the photographs, mentioned in the above paragraph, it was possible to transfer the detail from the photographs to



the survey sheet within maximum error allowed.

Labels have been used to indicate detail instead of symbols.

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

#### JUNCTIONS

This sheet joins sheet No. T-5918 (1:10,000) on the north and sheet No. T-5910 (1:10,000) on the south and all junctions are in agreement.

#### COMPARISON WITH OTHER SURVEYS

A comparison of surveys was attempted with a 1:20,000 scale sheet compiled in 1924-25. However, so many changes have been made, due to a Levee being constructed west of the Florida East Coast Railroad line, therefore, changing the entire shore line of Lake Okeechobee in this area, that a comparison is practically impossible.

#### GEOGRAPHIC NAMES

The geographic names for this area is 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 May 30, 1942, by H. A. Duffy, Sr. Photogrammetric Aid.

#### LANDMARKS

Sand Cut Water Tank, 100 feet tall, painted light grey, unlighted and Canal Point Municipal Water Tank, 65 feet tall, painted aluminum and unlighted are two most prominent objects in this area and it is recommended that they be charted as Landmarks. They are listed on Form 567 which is a part of this report.

#### NON-FLOATING AIDS

Form 567 recording Non-Floating aids is made a part of this report.

Respectfully submitted

*James E. Hundley*  
James E. Hundley,  
Sr. Photogrammetric Aid

Forwarded by  
*Kenneth G. Crosby*  
Kenneth G. Crosby,  
Chief of Party....

**LEGEND USED FOR FIELD INSPECTION AND DRAFTING  
PROJECT 249 - 1948**

**TREES**

Pi - Pine  
Cy - Cypress  
Pal - Palmetto  
Palm - Palm  
D T - Deciduous trees (broad leaf)  
Cit - Citrus (orchard)  
Mix - Pine, cypress & Dec. trees  
(Density)  
Sc. - 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)  
Mv - 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  
PIU - Probable drainage unsurveyed  
Brg - Bridge or symbol  
Cv - Culvert  
Lov - Love

FCS - 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.  
RH ab. P.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  
Bld - Bulkhead  
Cone - Concrete  
Wo - Wooden  
Jet - Jetty  
Dol - Dolphin  
Pile - Pile (give type)  
S - Sand  
Mud - Mud  
Rk - Rock or Rocky  
Sty - Stony  
W - Water  
Ht - 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 (tell steel)  
P.L. - Power Line  
Shoal - Approx. limits by long dashed  
line for use by hydrographer.

**LEGEND USED FOR FIELD INSPECTION AND DRAFTING  
PROJECT 842 - 1943**

**TREES**

P1 - Pine  
Cy - Cypress  
Pal - Palmetto  
Palm - Palm  
D T - Deciduous trees (broad leaf)  
Cit - Citrus (orchard)  
Mix - Pine, cypress & Dec. trees  
(Density)  
Sc. - 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)  
M<sup>w</sup> - 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  
Lov - Lovee

FCS - 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 B - Railroad  
O P - Overpass (state the kind)  
U P - Underpass (state the kind)  
X - Abandoned trail, road, etc.  
R B - P.R. abandoned (grade only)

**PONDS**

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

**SHORELINE**

H.H.L. - mean high waterline (solid red  
line - Fast land)  
L.W.L. - low waterline (dashed red line)  
L.H. - Light line (solid blue line for  
Mean high water line on marsh)  
Dr - Dock  
Pr - Pier  
Se W - Seawall  
Bld - Bulkhead  
Cone - 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)  
FBA - 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.

T-5911

Remarks

Decisions

1		269806-08 USGB
2		"
3		"
4		"
5		268806-08
6		"
7		"
8		"
9		"
10		Railway Guide
11		1941 Fla. Off. Road Map
12	To Canal Point from Southwest	"
13		269806-08
14		"
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

Division of Photogrammetry

Review of Planimetric Map T-5911

Radial Plot.

The radial plot was well controlled in this area and has been accepted without checking in the Washington Office.

Field Inspection and Detailing.

These were generally adequate. The road and levee along the lake shore have been redetailed during review to clarify the manuscript. A few buildings were added at Canal Point and several second class roads, omitted by the compiler, have been added.

Comparison with Former Surveys.

T-5911 supersedes previous survey T-4126, 1:20,000 scale, 1925, over the common area. The lake shore area has changed radically since the previous survey due to construction of a road and levee.

Comparison with Nautical Charts.

T-5911 was applied to chart 1289 in July 1943, prior to review. Changes made during the review are shown on the manuscript in red. They are of rather minor importance to the chart but should be examined when chart 1289 is again take up for correction.

Reviewed under the direction of R. M. Berry, Jan. 1944.

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

APPROVED BY:

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

K. T. Adams  
Chief, Div. of Photogrammetry

J. E. Rutenburg  
Chief, Nautical Chart Br.  
Division of Charts

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

## NAUTICAL CHARTS BRANCH

SURVEY NO. E-5911

## Record of Application to Charts

[illegible]

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.