

# 5891

T  
a  
a  
n

Form 504	
U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE	
<b>DESCRIPTIVE REPORT</b>	
Type of Survey	Planimetric Map
Field No.	Office No. T-5891
LOCALITY	
State	Florida
General locality	Lake Okeechobee, Fla.
Locality	Moore Haven & Vicinity
Photos taken Jan. 9, 1940 and supplemented by ground surveys to March 1942. <u>1942</u>	
CHIEF OF PARTY	
Lt. Comdr. K. G. Crosby	
LIBRARY & ARCHIVES	
DATE	July 21 - 1947

Applied to chart 1289 8-6-43 G.T.E.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 15891

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. ....

REGISTER NO. T-5891

State Florida

General Locality Lake Okeechobee, Fla.

Locality Moore Haven & Vicinity

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

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

Chief of party Lieut. Comdr. K. G. Crosby

Field Inspected by: ~~Surveyed by~~ Lieut. J. D. Thurmond

Inked by Rudolph Dossett, Sr. 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—5891**

**SUPPLEMENTARY SURVEYS**

	Name	Date	Hours
Control surveys.....	GEV	May, '42	1
Planetable Surveys.....			
	Total		1

**SUPPLEMENTARY SURVEYS**

Preparation of Photographs.....	GEV, FHE, CH	Nov., Dec., '41	4 3/4
Field Work.....	GEV, JDT	Apr., '42	12
Inking Notes.....			
Coast Pilot Notes.....			
Geographic Name Reports.....	FHE	May, '42	3
Land Marks for Charts.....			
Description Cards & Recovery Notes.....	FHE, GEV	Apr., '42	12
	Total		31 3/4

**MAIN RADIAL PLOT**

Scale Plot.....	ALK	Apr., '42	2 1/2
Projection on Base Sheet.....			
Projection on Survey Sheet.....			
Control Plotted.....	JEH	Aug., '42	1 1/4
Control Checked.....	JEH, EMB	"	1
Control Trans. to Base Sheet.....	JEH	"	1/2
Transfer Checked.....			
Control Picked on Photograph.....	ALK, HAD, HGB	May, '42	15
Control Checked on Photograph.....	ALK, HGB	May	3 1/4
Hydro & Topo. Stations Picked.....	ALK, HGB	"	4 3/4
Radial Points Picked.....	LCB	"	6 3/4
Adjacent Centers Picked.....	HVR, ERH	Apr., '42	16
Templates.....	HAD, BOB	July, Aug "	17
Radial Plot.....	X	Aug. "	8 1/2
Radial Points Transferred.....	FDE, FHE	Aug. "	3
Transfer Checked.....	RD, FHE	"	3 3/4
H & T Stations Scaled & Checked.....	FDE, BOB	"	1
Additional Radial Points.....			
Investigation of Radial Points.....	HAD	"	7
	Total		91 1/4

**DETAILING**

Rough Draft.....	RD	Aug., '42	7
Smooth Draft.....			
	Total		7

**COMPILATION**

Name overlay.....	RD	Aug., '42	2
Descriptive Report.....	RD	Aug., '42	5
Field Review.....	HAD	Sept., '42	14 1/2
			21 1/2
Total time spent on Sheet.....			152 1/2 hours

X: Several of Office Personnel.

SHEET No. T—5891

PHOTOGRAPHS

Number	Date	Time	Stage of Tide
4528	1-9-40	10:46	No tide
4529	"	10:47	
4530	"	10:48	
4637	"	2:14	
4638	"	2:15	

*The details of this map are of the date of the photographs.*

Tide from predicted tables for: No tide

CAMERA: U. S. Coast and Geodetic Survey Nine Lens (focal length 8¼ inches)

SCALE

Mean scale of Photographs-----1 : 10,000 ± 1.014  
 Scale of Survey Sheet-----1 : 10,000

STATISTICS

Area (land)-----36.7 Square statute miles  
 Shoreline (more than 200 m. from opposite shore)-----9.2 Statute miles  
 Shoreline (creeks) -----13.8 Statute miles  
 Roads, streets, trails, and railroads-----46.04 Statute miles

REFERENCE STATION

Station: WISE, (USE,) 1937  
 Datum: N.A. DATUM, 1927

Latitude: 26° 50' 09".316 (286.7M) ✓  
 Longitude: 81° 07' 22".220 (613.5M) ✓

Plane Coordinates:

X = 459,942.60 ft ✓  
 Y = 909,508.61 ft ✓

DESCRIPTIVE REPORT  
TO ACCOMPANY  
SHEET NO. T-5891

GENERAL

This sheet was compiled in accordance with "Instructions for drafting Air Photographic Surveys, Project H.T.242," dated April 3, 1942.

The general locality of the area covered by this sheet is Lake Okeechobee, Florida, in the vicinity of Moore Haven and it includes the shoreline from a point near Grambling Plantation, northwestward to Longitude 81° 04'. The new levee extends along the entire shoreline. Offshore in the lake very little open water shows within the limits of this sheet; it being principally grass in water with some marshland. The inshore areas west and southwest of Moore Haven consist principally of glade land vegetated by grass, brush and occasional small cultivated areas. There are large cultivated areas east of Moore Haven.

The old levee is shown by dashed lines and labeled "Old Levee". Only the canals more than 8 meters wide have been shown with a double line.

Canals and ditches along roads and highways have not been shown except where their width indicated a main drainage medium.

Field roads and trails have been shown only in cases where they lead to houses. All roads shown by a centerline should be drafted 0.6 m.m. wide.

CONTROL

Control on this map drawing consists of the following triangulation stations:

NAME OF STATION	YEAR	ESTABLISHED BY:
Tri 1925	1925	L. D. Graham
Tri, ECC, 1937	1937	R. A. Earle
Wise, USED, 1937	1937	"
Moore Haven, Muni W.T. 1937	1937	"
Moore Haven Small Tank, 1924	1924	L. D. Graham
Moore Haven, Courthouse, Small flagpole, 1937	1937	L. D. Graham
Moore Haven Church steeple, 1924	1924	L. D. Graham

Station "Moore Haven, United States Sugar Corporation, Grambling Plantation, Small Tank, 1937", appears on this sheet but outside the tracing limits.

The position of the azimuth mark at triangulation station "Wise, USE, 1937" was compared with the geodetic azimuth given in the list of geographic positions and was found to be in good 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 August 4th and 5th, 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-5890, T-5891, T-5892 and T-5904, covering the southwest extremity of Lake Okeechobee to the west of Clewiston, Florida, and has for its eastern limits photographs 4534 and 4433. Photographs on the westernmost part are numbers 4427 and 4528 while the northern limits are photographs 4636, 4641 and 4646.

A total of 27 templates were used, all being for 9-lens photographs, and being controlled by triangulation as follows: Templates 5 by 6, 1 by 4, 2 by 3, 4 by 2, 14 by 1, 1 by 0. The existing triangulation 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 sheets and those on the base grid was good and only a small amount of 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.

The plot was layed by beginning on sheet T-5904, tying into existing points from a previous plot covering sheets T-5905, T-5911 inclusive, and working west and north west keeping the two flight lines tied together by triangulation control and the intersections of radial lines. After the laying of these two flight lines was completed templates 4646, 4649 inclusive, were layed by tying into the intersections of radial lines already formed and using triangulation which existed on the northeast part of sheet T-5892. 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-5890 had 2; T-5891 had 29; T-5892 had 6; T-5904 had 6. In addition to these, the radial lines were transferred to the survey sheet where only two cuts could be obtained. There are 42 instances where this occurred throughout the entire plot. The draftsman will determine the value of these 2-cut intersections. All other points were established by the intersections of from 3 to 8 radial lines.

This plot is sufficiently strong to assure accurate detailing of the survey sheets as no large or unusual adjustments were necessary and all points are picked within 0.25 m.m. of their true positions. 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
Additional radial points -----	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 " " "
Photograph centers -----	Double blue circle on back

#### FIELD INSPECTION

The field inspection was made by Lieutenant J. D. Thurmond and G. A. Varnadoe, Principal Engineering Aid, during the month of March, 1942.

Field notes were considered adequate for an accurate interpretation of detail.

#### 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 no re-inking has been required.

Only photograph 4530 had a good scale. The scale of all the others was poor. Photograph 4639 was very poor and no attempt was made to use it for detailing.

The stereoscope was used in picking the detail in those parts of the sheet not covered by field inspection. All buildings including those in the congested area of the city have been shown.



JUNCTIONS

This sheet forms a junction on the southwest with T-5890, on the ~~southeast~~ with southeast with T-5904, on the northwest with T-5893, on the north east with T-5894 and on the east with 5892. All Junctions are in agreement.

COMPARISON WITH OTHER SURVEYS

A comparison was made with a photostat of topographic sheet No. T-4128, surveyed in 1924-1925 on scale 1: 20,000. There are noticeable changes along the shoreline of Lake Okeechobee due to differences created by the construction of the new levee. There is also changes in the roads, new ones having been built and old eliminated. The vegetation appears to be the same insofar as a comparison could be made. Due to the limitation of detail and the scale of the previous survey a ~~favor-~~ <sup>comprehensive</sup> ~~able~~ comparison could not be made.

LANDMARKS

There are no landmarks within the limits of this sheet.

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 by Harold A. Duffy, Sr. Photogrammetric Aid.

L.H.  
S.R. No.  
25

MOORE HAVEN LOCKS

Attention is called to a discrepancy between the field measurements of this party of the lock at Moore Haven and the U. S. Engineer's Publication of November, 6, 1941, entitled "Condition of Intercoastal Waterway Fernandina, Fla., to Key West, Fla., and Okeechobee Cross Florida Waterway," The measurements of this party is 300 feet in length whereas the U. S. Engineer's Publication shows 250 feet. The U. S. Engineer's measurement has been accepted as correct and is shown on the drawing.

Respectfully Submitted

*Rudolph Rossett*  
Rudolph Rossett  
Sr. Photogrammetric Aid

Forwarded:

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

FLORIDA BIRD BANDING FIELD SURVEILLANCE AND MAPPING  
FORM BT 242 - 1948

TREES

- P1 - Pine
- Cy - Cypress
- Falo - Palmetto
- Fala - Palm
- D T - Deciduous trees (broad leaf)
- Cit - Citrus (orchard)
- Miz - Pine, cypress & Dec. trees (locality)
- sc. - Scattered
- th. - Thinly wooded
- h.w. - Heavily wooded
- scr. - Scrub trees

VEGETATION

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

ROADS

- Co - Canal (width)
- Cr - Creek
- D - Ditch (width)
- I O - Intermittent stream
- DR - Probable drainage unsurveyed
- BR - Bridge or symbol
- CV - Culvert
- Lev - Levee
- Fla. Geodetic Survey
- U. S. Engineers
- U. S. Biological Survey

ROADS

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

ROADS

- F - Ford
- Cy P - Cypress Pond
- I O - Intermittent stream

SYMBOLS

- H.L.L. - Mean high waterline (solid blue line - face land)
- L.L.L. - Low waterline (dashed red line)
- L.L. - Light line (solid blue line on mean high water line on shore)
- Dk - Dock
- Pr - Pier
- Se W - Seawall
- Wh - Wharf
- Co - Concrete
- Lo - Loden
- Jet - Jetty
- lol - Dolphin
- Pile - Pile (give type)
- S - Sand
- Sh - Shed
- Sk - Shack or haly
- Sty - Storey
- T - Tower
- Blf - Bluff (height)

BUILDINGS

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

UTILITIES

- F - Fence
- EB - Wire Break (maintained)
- EBR - Wire Break (abandoned)
- Can - Cemetery
- Park - Park (give name)
- P.T. - Fire Tower
- T.T. - Transmission tower (tall steel)
- T.L. - Trolley line
- Shad - Approx. limits by long dashed line for use by hydrographer

**LEGEND USED FOR FIELD INSPECTION AND DRAFTING  
PROJECT 242 - 1942**

**TREES**

- Pi - Pine
- Cy - Cypress
- Falo - Palmetto
- Fala - Palm
- D T - Deciduous trees (broad leaf)
- Cit - Citrus (orchard)
- Mix - Pine, cypress & Dec. trees  
(Density)
- Scs - Scattered
- t.w. - Thinly wooded
- h.w. - Heavily wooded
- Scr - Scrub trees

**VEGETATION**

- G - Cultivation
- Gr - Grass
- T Gr - Tall Tropical Grass
- M - Marsh (dashed blue line on  
inshore limits)
- MW - 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
- PD - Probable drainage unsurveyed
- Brg - Bridge or symbol
- Cv - Culvert
- Lev - Levee

- FCS - Florida Geodetic Survey
- UES - U. S. Engineers
- USBS - U. S. Biological Survey

**ROADS & RAILROADS**

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

**POUNDS**

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

**MARKING**

- 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
- Fr - Pier
- Se W - Seawall
- Mhd - Milkhead
- Conc - Concrete
- Wo - Wooden
- Jet - Jetty
- Dol - Dolphin
- Pile - Pile (give type)
- S - Sand
- Mud - Mud
- Rk - Rock or Rocky
- Sty - Stony
- W - Water
- Hlf - 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)
- Can - 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

	Remarks	Decisions
1		U.S.G.B.
2		268809-11
3	Pending with U.S.G.B.	"
4		"
5		"
6		"
7		
8		Road Maps
9		"
10		Railway Guide
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. T-5891

Name on Survey	Source											
	A	B	C	D	E	F	G	H	K			
Lake Okeechobee												1
Moore Haven												2
Caloosahatchee Canal			(Not Three Mile Canal)									3
Culvert No. 1												4
Moore Haven Locks and Hurricane Gate No. 1												5
Grambling Plantation												6
U.S. Sugar Corporation (New Site)												7
Florida Highway No. 67												8
Florida Highway No. 29												9
Atlantic Coast Line Railroad												10
Glades County												11
												12
												13
												14
												15
												16
												17
												18
												19
												20
												21
												22
												23
												24
												25
												26
												27

Names underlined in red approved  
 by L. Heck on 8/10/43

Division of Photogrammetry

Review of Planimetric Map T-5891

Field Inspection and Detailing.

These were generally adequate, with the exception of marsh shoreline. The distinction between marsh visible at high water and scattered grass in the water is rather indefinite and not much information was furnished by the field inspection. Changes have been made in the marsh line by the reviewer after a study of the photographs, adjoining manuscripts, and previous survey in this area. These changes are shown in red on the manuscript.

Comparison with Previous Surveys.

T-5891 supersedes T-4128, 1:20,000, 1925, over the common area.

Large changes have occurred in the lake shore since the previous survey. These are due to the construction of a levee and reclamation of land adjacent to the lake.

Comparison with Nautical Charts.

T-5891 was applied to chart 1289 prior to this review. The changes made during review and shown in red on the manuscript may affect this chart and should be examined when the chart is again taken up for correction. *Applied 11-19-48 MDA*

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

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

APPROVED BY:

*B. G. Jones 7/47*  
\_\_\_\_\_  
Technical Assistant to the  
Chief, Div. of Photogrammetry

*K. T. Adams*  
\_\_\_\_\_  
Chief, Div. of Photogrammetry

*[Signature]*  
\_\_\_\_\_  
Chief, Nautical Chart Br.  
Division of Charts

*[Signature]*  
\_\_\_\_\_  
Chief, Div. of Coastal  
Surveys

# NAUTICAL CHARTS BRANCH

SURVEY NO. 5891

## Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
11-19-'42	1289	<i>M. M. Jones</i>	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
			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
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

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.