

5890

5890

Form 504
Rev. June 1941
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Air Photographic | Sheet
Plane Table | Survey No. T-5890
Hydrographic | (Field)

LOCALITY

State Florida

General locality Lake Macphochee
Caloosahatchee Canal

Locality Lake Hicpochee

12/21/39 Photos taken
1942

CHIEF OF PARTY

Lieut. Comdr. Kenneth G. Crosby

Applicant Tech 1289

8/6/43

ghe

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
~~XXXX~~ No. **T-5890**

REGISTER NO.

State **Florida**

General Locality **Lake Okeechobee (Florida East Coast)**

Locality **Lake Hicpochee**

Scale **1:10,000** Date of ~~XXXXXX~~ **Photos** **December 21, 19 39**

Party
~~XXXXXX~~ **Air Photographic Party No. 1**

Chief of party **Lieut. Comdr. Kenneth G. Crosby**

Field Inspected by:
~~XXXXXXXXXX~~ **Lieut. James D. Thurmond**

Inked by **Harold V. Reid, Engineering Draftsman**

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated **April 3**, 19 **40**

Remarks:

SHEET No. T—5890

SUPPLEMENTARY SURVEYS

	Name	Date	Hours
Control surveys.....	BEV	May	$\frac{1}{2}$
Planetable Surveys.....			
	Total		$\frac{1}{2}$

SUPPLEMENTARY SURVEYS

Preparation of Photographs.....	CH, FHE	Nov.	$2\frac{1}{2}$
Field Work.....	GEV, FHE, JDT	Apr.	19
Inking Notes.....			
Coast Pilot Notes.....			
Geographic Name Reports.....			
Land Marks for Charts.....			
Description Cards & Recovery Notes.....	GEV	May	4
	Total		$25\frac{1}{2}$

MAIN RADIAL PLOT

Scale Plot.....	ALK	May	$\frac{1}{2}$
Projection on Base Sheet.....			
Projection on Survey Sheet.....			
Control Plotted.....	JEH	Aug.	$\frac{1}{4}$
Control Checked.....	EMB	Aug.	$\frac{1}{4}$
Control Trans. to Base Sheet.....	JEH	Aug.	$\frac{1}{4}$
Transfer Checked.....			
Control Picked on Photograph.....	HGB	May	4
Control Checked on Photograph.....	ALK	May	1
Hydro & Topo. Stations Picked.....	X	May	5
Radial Points Picked.....	HAD, JEH	May & July	6
Adjacent Centers Picked.....	HAD, HVR, ERH	Apr.	29
Templates.....	JEH, BOP, JCP	July	$12\frac{1}{2}$
Radial Plot.....	X	Aug.	$9\frac{1}{2}$
Radial Points Transferred.....	FHE	Aug.	3
Transfer Checked.....	FHE, RDE	Aug.	$2\frac{1}{2}$
H & T Stations Scaled & Checked.....	HVR, WHS	Aug.	$\frac{1}{4}$
Investigation of Radial Points.....	HVR	Sept.	2
	Total		$76\frac{1}{4}$

DETAILING

Rough Draft.....	HVR	Aug. Sept.	62
Smooth Draft.....			
	Total		62

COMPILATION

Name overlay.....	HVR	Aug.	2
Descriptive Report.....	HVR	Aug.	$5\frac{1}{2}$
Field Review.....	RD	Sept.	7
			$14\frac{1}{2}$

Total time spent on Sheet..... $178\frac{1}{4}$ hours

X=Several of Office Personnel

PHOTOGRAPHY

Number	Date	Time	Stage of Tide
4425	12-21-39	11:00	None
4426	"	11:02	"
4427	"	11:07	"
4428	"	11:08	"
4429	"	11:09	"
4435	"	11:15	"
4437	"	11:27	"

Tide from predicted tables for: None

Camera: U. S. Coast and Geodetic Survey Wide-Lens (focal length 8 1/2 inches)

SCALE

Map scale of Photographs..... 1:10,000 ± 1.007
 Scale of Survey Chart..... 1:10,000

STATISTICS

Area (land)..... 24.2 Square statute miles
 Shoreline (more than 200 m. from opposite shore)... 11.4 Statute miles
 Shoreline (creeks)..... 22.8 Statute miles
 Roads, streets, trails, and railroads..... 9.9 Statute miles

SPHERICAL SYSTEM

Station: Mead - 1937 (U.S.C.G.S.)

Date: N.A. 1937

Adjusted

26° 46' 57.124" (1758.1 m)
Longitude 82° 45' (1700.1) m.
Longitude 82° 44'
82° 00' (1484.8) m.

Florida East Zone

x = 446,291.65
y = 890,118.92

DESCRIPTIVE REPORT
TO ACCOMPANY
SHEET NO. T-5890

1657.9
11625.9
1149

GENERAL

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

The general location of the area covered by this survey sheet is Lake Okeechobee (Florida East Coast) in the immediate vicinity of Lake Hicpochee.

The shoreline of Lake Hicpochee is shown on this drawing, as of the date of the photographs, and may be changed at this time due to the drainage factor of the Caloosahatchee Canal. Lake Hicpochee at one time was considerably larger and the lake itself as shown on this sheet is shallow with much marsh grass scattered about. In some places this grass appears very dense. The balance of the Lake Hicpochee area, which is bounded by a small levee, has been drained and is shown as glade land.

A very small amount of cultivated area is shown, and the land area of this sheet is for the most part glade land and identified as such.

All roads and highways are to be 0.6 m.m. wide.

CONTROL

Only one (1) triangulation station falls within the detailing limits of this survey sheet, viz: MAUD - 1937 - (U.S.E.D.)

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, which area is the southwest extremity of Lake Okeechobee. It is 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.

27 templates were used, all being for 9-lens photographs, and being controlled by triangulation as follows: 5 by 6; 0 by 5; 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 laid 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 northwest 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 laid 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
Photographs 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

NON-FLOATING AIDS

No non-floating aids appear on this survey sheet.

INTERPRETATION OF PHOTOGRAPHS

The photographs used in detailing this survey sheet were adequately clear and no difficulty was experienced in interpreting same.

FIELD INSPECTION

Field inspection was made by Lieut. James D. Thurmond during April 1942 and notes appearing on field photographs were found to be adequate.

DETAILING

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

The photographs for this drawing, namely: Nos. 4425, 4426, 4427, 4428, 4429, 4435 and 4437, were all nine (9) lens photographs. They were adequately clear and of good scale.

Before detailing, the surface of this sheet was rubbed with magnesium carbonate, and washed off. No additional cleaning or reinking was necessary.

The stereoscope was employed in determining the shore line of the larger draining canals.

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

JUNCTIONS

This survey sheet joins sheet No. T-5891 on the north, and sheet T-5904 on the east. These junctions are in agreement. The junction with sheet T-5889 cannot be made at this time since that sheet has not yet been detailed.

GEOGRAPHIC NAMES

Only two geographic names appear on the sheet, namely: Calcoosahatchee Canal and Lake Hicpochee. These were taken from existing charts covering this locality.

LAND MARKS

No prominent land marks appear on this survey sheet.

Respectfully submitted,

Harold V. Reid

Harold V. Reid
Engineering Draftsman

Forwarded by:

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

**LEGEND (USED FOR FIELD INSPECTION AND DRAFTING)
PROJECT 248 - 1942**

TREES

- Pl - Pine
- Cy - Cypress
- Palo - Palmetto
- Palm - Palm
- D F - 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)
- MW - Marsh grass in water (dashed blue
line on offshore limits)
- Sr - Swamp
- Mg - Mangrove
- Hdg - Hedge

STREAMS

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

- 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
- RR - Railroad
- O P - Overpass (state the kind)
- U P - Under pass (state the kind)
- X - Abandoned trail, road, etc.
- RR ab - R.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.H.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
- Bhd - 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)
- 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

SYMBOLS

- W - Pine
- CP - Cypress
- Pal - Palmetto
- Pal - Palm
- BT - Broadleaf tree (broad leaf)
- cit - Citrus (orchard)
- Mix - Pine, cypress & sec. trees (Lepidol)
- Sc - Scattered
- Th - Thick woods
- hw - Heavily wooded
- Scr - Scrub trees

VEGETATION

- C - Cultivation
- Gr - Grass
- T Gr - Tall tropical grass
- M - Marsh (dashed blue line on marshes only)
- MW - Marsh grass in water (dashed blue line on offshore marsh)
- Sw - Swamp
- Mg - Mangrove
- MH - Hedge

STREAMS

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

- EOS - Florida Geodetic Survey
- US - U. S. Engineers
- UBS - U. S. Biological Survey

ROADS & HIGHWAYS

- Hi 1 - 1st class road (paved)
- Hi 2 - 2nd class road
- Tr - Trail
- R R - Railroad
- OP - Overpass (state the kind)
- UP - Underpass (state the kind)
- X - Abandoned trail, road, etc.
- Hi ab - P.S. abandoned (grade only)

ROADS

- P - Road
- CP - Cypress Road
- IP - Intersecting Road

BOUNDARIES

- H.L. - High waterline (solid red line - fast land)
- L.W. - Low waterline (dashed red line)
- L.L. - Light line (solid blue line for deep high water line on marsh)
- Dk - Dock
- Pf - Pier
- Co - Canal
- Co - Canal
- Co - Concrete
- Co - Canal
- Jet - Jetty
- Dol - Dolphin
- Pile - Pile (give type)
- Co - Canal
- Co - Canal
- R - Rock or rocky
- Sty - Stony
- W - Water
- Hgt - Height (height)

BUILDINGS

- H - House, farm or building
- Ch - Church (give name)
- St H - Court House (give name)
- Bo H - Boat House
- Post - Post Office (give name)
- St Sta - Railroad station (give name)
- Hos - Hospital (give name)
- Sch - School (give name)

UTILITIES

- F - Fence
- FB - Fire Break (maintained)
- FB - Fire Break (abandoned)
- Co - Cemetery
- Park - Park (give name)
- T.F. - Fire tower
- T.F. - Transmission tower (tall steel)
- P.L. - Power line
- Shoal - APPROX. limits by long dashed line for use by hydro rapher.

	Remarks	Decisions
1	According to a letter from USE office in Jacksonville, Threemile Canal no longer used for a section of the main canal, which is all Caloosahatchee Canal	268809-811
2		"
3	For title	USGB
4		Highway Maps, 1941
5		State Off. Map
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. T-5890

Name on Survey	Source											
	A	B	C	D	E	F	G	H	K			
<u>Caloosahatchee Canal</u>												1
<u>Lake Hicpochee</u> ✓												2
<u>Lake Okeechobee</u> ✓												3
<u>Florida Highway No. 25</u> ✓												4
												5
												6
												7
												8
												9
												10
												11
												12
												13
												14
												15
												16
												17
												18
												19
												20
												21
												22
												23
												24
												25
												26
												27

NAME: _____
 L. Heck
 11/10/43

Review of Planimetric Map T-5890

Division of Photogrammetry

Main Radial Plot.

The plot is described in detail in the descriptive report. It was accepted without further verification in this office.

Field Inspection and Detailing.

The field inspection was adequate and the detailing of the manuscript complete with the exception of minor details added during the review.

Comparison with Previous Topographic Surveys.

None

Comparison with Nautical Chart 1289.

T-5890 was applied to chart 1289 prior to this review. The only change of importance made on the manuscript during the review was the addition of the ~~lagoon boom~~ ^{boom} along the opening between Caloosahatchee Canal and Lake Micpochee.

Reviewed by Louise M. Forrester

Under the direction of D. H. Benson
December 1943

Approved by:

B. G. Jones 5/46
B. G. Jones, Technical Asst.
Div. of Photogrammetry

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

K. T. Adams
Chief, Div. of Photogrammetry

Raymond P. Egan
Chief, Div. of Coastal Surveys

