5892

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

5892

Type of Survey Planimetric Map

Field No. ..... Office No. T-5892

LOCALITY

State Florida

General locality Lake Okeechobee, ~~S.W. of~~ Liberty Point and Vicinity

Locality ~~Moore Haven, N.E. of Clewiston~~

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

194 2

CHIEF OF PARTY

Lt. Comdr. Kenneth G. Crosby

LIBRARY & ARCHIVES

DATE July 21 - 1947

B-1870-1 (1)

Applied to chart 1289 8/4/43 G.T.E.

Form 537a
Ed. Nov. 1929

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. T5892

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 ~~Field~~ No. T-5892

REGISTER NO.

State Florida

General Locality Lake Okeechobee

Locality S.W. of Moore Haven, N.E. of Clewiston

Scale 1:10,000 Date of Photos ~~Survey~~ January 9, 1940

Party ~~Number~~ Air Photographic Party No. 1

Chief of party Lieut. Comdr. Kenneth G. Crosby

Field Inspect. by: ~~Corresponding~~ G. A. Varnadoe, Principal Engineering Aid

Inked by R. Dossett, Senior Photo. Aid

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

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

Instructions dated April 3, 1940

Remarks:

GPO 260853

SHEET No. T— 5892

SUPPLEMENTARY SURVEYS

	Name	Date	Hours
Control surveys	GEV	May	1
Planetable Surveys			
		Total	1

SUPPLEMENTARY SURVEYS

Preparation of Photographs	GEV, FHE CH	Nov. Dec.	5 ½
Field Work	GEV, FHE,	Apr.	16
Inking Notes			
Coast Pilot Notes			
Geographic Name Reports	FHE	May	5
Land Marks for Charts			
Description Cards & Recovery Notes	FHE	May	4
		Total	30½

MAIN RADIAL PLOT

Scale Plot	ALC	May	1 ¼
Projection on Base Sheet	/ Wash. Office		
Projection on Survey Sheet			
Control Plotted	JEH	Aug.	3/4
Control Checked	JEH, EMB	Aug.	3/4
Control Trans. to Base Sheet	JEH	"	¼
Transfer Checked			
Control Picked on Photograph	HVR, ALK	May	5
Control Checked on Photograph	ALK	"	1 ¼
Hydro & Topo. Stations Picked	HVR, ALK	"	4 3/4
Radial Points Picked	JEH	"	2
Adjacent Centers Picked	HVR, ERH	Apr.	9½
Templates	BOB, JCP	July	6
Radial Plot	X	Aug.	6
Radial Points Transferred	FHE	"	3
Transfer Checked	FHE, RDE	"	1 3/4
H & T Stations Scaled & Checked	RD, BOB	"	1
Additional Radial Points			
Investigation of Radial Points			
		Total	43 ¼

DETAILING

Rough Draft	RD	Aug.	19
Smooth Draft			
		Total	19

COMPILATION

Name overlay	RD	Aug.	2
Descriptive Report	RD	"	2
Field Review	RDE	Sept.	12
			16

Total time spent on Sheet ..... 109 3/4 hours

X: Several of Office personnel.

SHEET NO. T-5892

PHOTOGRAPHS

Number	Date	Time	Stage of Tide
4646	1-9-40	2:23	No Tide
4647	1-9-40	2:24	
4648	1-9-40	2:24	
4649	1-9-40	2:25	
4532	1-9-40	10:50	
4533	1-9-40	10:51	
4639	1-9-40	2:17	

Tide from predicted tables for: No Tide

Camera: U. S. Coast and Geodetic Survey Nine-Lens (focal length 8½ inches)

SCALE

Mean scale of Photographs..... 1:10,000 + 1.014
Scale of Survey Sheet..... 1:10,000

STATISTICS

Area (land).....	1.8	Square statute miles
Shoreline (more than 200 m. from opposite shore)...	6.9	Statute miles
Shoreline (creeks).....	0.8	Statute miles
Roads, streets, trails, and railroads.....	2.6	Statute miles

REFERENCE STATION

Station: Dyke-2, 1937

Datum: N.A. 1927 - Adjusted

Latitude:
26° 48' 43".181 (1329.0 m)

Longitude:
80° 59' 07".967 (220.0 m)

x = 504,714.27 ft.
y = 900,792.67 ft.

DESCRIPTIVE REPORT
TO ACCOMPANY
SHEET NO. T-5892

GENERAL

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

The general locality of the area covered by this sheet is Lake Okeechobee, Florida. It includes a short stretch of the lake shore line between Clewiston and Moore Haven in the vicinity of the Moore Haven U.S. Sugar Corporation, Benbow Plantation. It also includes Observation Island and areas of marsh and shoal to the north and west.

The small inshore area is principally cultivated land, with small areas of grass and brush along the levee.

The off shore areas to the northern limits of the sheet consists of marsh and grass in water. This has been outlined and labeled accordingly.

All houses visible under the steroscope have been shown.

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:

STATION	DATE	ESTABLISHED BY
Ver	1925	L. D. Graham
Moore Haven, U.S. Sugar Corp. Benbow Plant Small Tk.	1937	R. A. Earle
Dyke-2	1937	R. A. Earle

The position of the azimuth mark at triangulation station Dyke-2, 1937 was compared with the geodetic azimuth given in the list of geographic positions and was found to be in good agreement.

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
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

INTERPRETATION OF PHOTOGRAPHS

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

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 reinking has been required.

The scale of all photographs, except 4639, were reasonably good. The scale of 4639 was very poor and it was not used.

JUNCTIONS

This sheet forms a junction on the west with T-5892, on the S. W. with T-5904 and on the S.E. with T-5905, and all junctions are in agreement.

COMPARISON WITH OTHER SURVEY

A comparison was made with Photostat Copy of T-4128 of topographic Survey of 1924-25 on 1:20,000 scale. The construction of the new levee along the lake shore has created radical changes there. The offshore features including Observation Island compare favorably.

LAND MARKS

There are no land marks in 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 H. A. Duffy, Senior Photogrammetric Aid. L.H. S.R. No. 15

Respectfully submitted,

Rudolph Bossett,
Sr. Photogrammetric Aid

Forwarded by,

Kenneth G. Crosby,
Chief of Party.

LEGEND USED FOR FIELD INSPECTION AND DRAFTING
PROJECT 842 - 1942

TREES

Pi - Pine
Cy - Cypress
Palo - Palmetto
Palm - Palm
D T - 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
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)

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
Sea 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

[illegible]

Pl - Pine
Cy - Cypress
Palm - Palmetto
Palm - Palm
[illegible] - [illegible] trees (broad leaf)
Cit - Citrus (orchard)
Ms - Mixed, cypress & pine, trees (Decidu)
Sct. - Scattered
T.D. - Thickly wooded
L.W. - Lightly wooded
Scr. - Scrub trees

VEGETATION

G - Cultivation
Gr - Grass
T Gr - Salt tropical grass
M - Marsh (dashed blue line on shore) 1.15%
M - Marsh grass in [illegible] line on offshore flats)
Sw - Swamp
Mg - Mangrove
Hg - Hedge

TIDES

Cnl - Canal (width)
Cr - Creek
D - Ditch (width)
I S - Intermittent stream
Fld - Frequent flooding unmarked
Br - Bridge or symbol
Cv - Culvert
Lev - Levee

FGS - Florida Geodetic Survey
U. S. Engineers
U. S. Hydrographic Survey

ROAD CLASSIFICATION

Rd 1 - 1st class road (paved)
Rd 2 - 2nd class road
Trl - Trail
RR - Railroad
O P - Overpass (state clearance)
U P - Underpass (state clearance)
X - Abandoned trail, road, etc.
Rd ab - Road abandoned (small only)

[illegible]

[illegible] - Land
Cy [illegible] - Cypress Pond
I [illegible] - Intermittent Pond

SHORELINE

H. W. - Mean High Waterline (solid red line - first line)
L.W. - Low Waterline (dashed red line)
L.L. - Light line (solid blue line for mean high water line on marsh)
Dk - Dock
Pr - Pier
Sea W - Seawall
RR - Railroad
Con - Concrete
Rip - Rip-rap
Jet - Jetty
Pil - Pilings
Fill - Fill (give type)
S - Sand
Mud - Mud
Rk - Rock or rocky
Gvl - Gravel
W - Water
Clf - Cliff (height)

BUILDINGS

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

[illegible]

B - Buoy
FB - Fire Break (unfinished)
FBK - Fire Break (abandoned)
Cem - Cemetery
Park - Park (give name)
F.T. - Fire Tower
T.S. - Triangulation tower (bold steel)
T.L. - Power Line
P.L. - Approx. limits by long dashed line for use by photographer

T-5892

	Remarks	Decisions
1		U.S.G.B.
2		268809
3	Outside of Sheet - Record J. Steiger	"
4		"
5		268810
6		"
7		
8	Check on county highway map: not named on usual road maps of the state. OK	Road Maps
9		
10		
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27		

M 234

GEOGRAPHIC NAMES

Survey No. T-5892

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
Observation Island										2
Observation Shoal										3
Liberty Point	(point here; village of same name more to southward)									4
Culvert No. 1-A										5
Benbow Plantation										6
U.S. Sugar Corporation										7
Florida Highway No. 29										8
Glades County										9
										10
										11
										12
		Names underlined in red approved by La Heck on 8/20/43								13
										14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

M 234

Division of Photogrammetry

Review of Planimetric Map T-5892

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-5892 has been compared with and supersedes T-4128, 1:20,000, 1925, over the common area.

Comparison with Nautical Charts.

T-5892 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 [illegible]

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

Chief, Nautical Chart Br.
Division of Charts

K.T. Adams
Chief, Div. of Photogrammetry

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

NAUTICAL CHARTS BRANCH

SURVEY NO. 5892

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
11-19-48	1289	[illegible]	~~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.