5909

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of S	Survey Planimetric
Field No.	Office No. T -5909
	LOCALITY
State	Florida
General k	ocality Lake Okeechobee
Locality	Pelican Bay and Vicinity
	taken Jan. 1940 and supple- by ground surveys to March

CHIEF OF PARTY

Lt. Comdr. Kenneth G. Crosby

LIBRARY & ARCHIVES

DATE July 21-1947

B-1870-1 (1)

Applied to chart 1289 7/27/43 G.T.E. (before review)

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

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 No. T-5909

REGISTER NO.

State Florida
General Locality Lake Okeechobee
Locality Area between Pahokee & Belle Glade
Scale 1:10,000 Date of Samuery 9 , 1940
Party Mir Photographic Party No. 1
Chief of party Lieut. Comdr. Kenneth G. Crosby Field Inspected by: Harold A. Duffy, Sr. Photogrammetric Aid
Inked by Eugene L. Maxwell, Jr. Topographic Engineer
Heights in feet above to ground to tops of trees
Contour, Approximate contour, Form line interval feet
Instructions dated April 3 , 1940
Remarks:
GPO 296853

SUPPLY STATES STATES

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PROTOGRAPHS

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Tide from predicted tables fors

No Tide

CAMBRA: U. S. Coast and Geodetic Survey Kine-Lens (focal length 0) inches)

SCALE

SPATTSTICE

Area (land)	2 24 17	Square statute s Statute miles	ulles
gnoreline (creeks)	23 36	Statute miles	-

HEFERENCE STATION

					240 44/ 55.203 (1-1011)
Station:	BEN 1942	• .	-	Latitudes	26° 44° 55.267 (1700.9 m.) 80° 41' 04.755 (131.4 m)
Datum	N.A. 1927	:		longitudes	80 41 04.731 (130.7 m.)
:	, ., -			· :	Adjusted

Florida E Zone X = 602, 922. 736Ft y =877, 909. 074Ft

DESCRIPTIVE REPORT TO ACCOMPANY SHEET NO. T-5909

GENERAL

This sheet was compiled in accordance with "Instructions for D rafting 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 area intervening the towns of Pahokee and Belle Glade, Florida.

the land area covered by this sheet may be classed as:

(1) The inland area, and
(2) The island area.

The shoreline of the inland area is a gravel covered leves approximately rive feet high. The level inland area is east of the leves and is twenty-five feet high. The level inland area is east of the levee and is under cultivation for the most part. Drainage of the cultivated areas is accomplished by systems of drainage ditches and canals.

Remanants of the Old Florida State Levee traverse the inland area of this sheet. This levee has been abandoned and has, in many places, been destroyed, with but one exception (near Lat. 25° 45'; Long. 80° 40'). No remnants of the old levee could be mapped. The site of the levee is indicated on the sheet.

Old natural drainage channels that have been filled and that are now under cultivation are indicated as such.

The shoreline of the island area (Kreamer and Torry Islands) is, for the most part, indefinite. The central portions of the islands are under cultivation and are separated by small levees from the bordering marsh areas. Definite marsh boundaries were indicated with solid light lines. Indefinite marsh boundaries are dashed lines and indicate gradation from marsh to grass in water. Areas of grass in water were outlined with dashed lines. Areas of scattered grass in water were smooth drafted in an effort to indicate the density and outline of such areas, except for definite accumulations of water hyacinth which were outlined with a dashed line and labeled scattered grass in water.

The new levee (see discussion inland area) raised the level of the Lake about 3 feet, and caused some cultivation on the islands to be abandoned. These areas were disregarded except in cases where they support a growth of grass, and then they were labeled: grass (abandoned cultivation).

Two State Highways: Florida State Highway 143 and 172; and one railroad. Florida East Coast Railroad, are shown on the sheet. Highway #143 and F.E.C. Railroad roughly parallel each other and cross the sheet in a northsouth direction in the central portion of the inland area.

No attempt was made to map numerous field trails in cultivated areas because of their transitory nature.

All reads shown by centerline should be smooth drafted 0.6 m.m. wide.

CONTROL Note the 1942 control listed below has since been adjusted and should be shown as a See GP; in Gendery INE -11/23/43

There are no first or second order triangulation stations on this sheet. Following receipt of the Director's letter (Dated July 20, 1942, Reference No. 28-FFA-1990, Subject: Lake Okeechobee Triangulation), it was decided that the 1942 Lake Okeechobee triangulation was not strong enough to be used as triangulation, but that the stations should be considered as topographic stations. The following stations are shown as topographic stations but were used as control on the main radial plot with good results:

Correct Name is "Caldwell, yellow.	house, chimney, 1942"		
\ STATION	YEAŘ	ESTABLISHED BY	
Kreamer Island Sh	oul Light, 1942		* * * * * * * * * * * * * * * * * * * *
BAR *	1942	K. G. Crosby) -
BEN:	1942	K. G. Crosby	/
CHIMNEY, YELLOW HO)USE 1942	K. G. Crosby	all of these
CALDWELL, FLA.		· <u>·</u>	stations in
KRA	1942	K. G. Crosby	GPlist
OUT	1942	K. G. Croby	
RAM	1942	K. G. Crosby	(as 3rd order
Source STACK, STATE FARM NO. 2, SUGAR MILL RELLE GLADE) ' 194 2 .	K. G. Crosby	A. Shown
NO. 2, SUGAR MILL	1042	E Creaty	on Mms as
(0	/ 1942	- Kardy Czekby	& Statum.
WHITE	1942 .	K. G. Crosby	14 Jun. 45
(Bello &	Rodo State Farm No 2. Se	
MAIN RADIAL PLOT	over name - Mill	Plade State Farm No2, Se 1, stack, 1942"	a - jour 151.
		7 - · · · · · · · · · · · · · · · · · ·	/

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 Myaca, 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

SURVEY SHEETS

INTERPRETATION OF PHOTOGRAPHS

The photographs were clear and accurate interpretation was obtained, with but one unusual condition being encountered. The area mapped as grass in water between Torry Island and the levee, probably was formerly marsh, but with the building up the levee and subsequent raising of the lake level, the marshland was submerged, and should now be considered as grass in water.

Changed to marsh quering review, and considered as grass in water, and considered as of photographs.

FIELD INSPECTION

Field inspection of the area covered by this sheet was made by Harold A. Duffy, Senier Photogrammetric Aid, during the months of February and March, 1942. The field inspection was done on 1:10,000 scale photographs. Notes, were/for accurate interpretation of detail, with some exceptions, which sufficient

areas were discussed with the Chief of Party and the field inspector.

DETAILING

This sheet was detailed in accordance with the current instructions for the project. Before detailing, magnesium carbonate was applied and washed off. The detail on this sheet was taken from photographs 4547, 4548, 4549, 4550, 4551 and 4552: The scale of photograph 4552 was very good and most of detail covered by that photograph was taken from it. On the eastern portion of the sheet (between 80° 30' and 80° 39') the detail had to be taken from wing prints and only two-cut intersections could be obtained. However, the scale of photographs 4548 and 4549 was reasonably good in this area, and it is felt that the detailing has been accomplished within the allowable error.

Kreamer Island appeared only on the wing prints of two photographs (i.e. 4550 and 4551). All radials were located by "two-cut" intersections.

Several additional radial points were added along the southern boundary of the sheet to facilitate a junction with sheet T-5908.

Symbols were used in a few instances where a clearer interpretation could be expressed than could be shown by labels. On western side of Kreamer Island the grass in water and scattered grass in water was smooth drafted.

The stereoscope was used freely for interpreting the detail.

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

NON-FLOATING AIDS

The field season was officially closed before three point fixes could be made on non-floating beacons. They are, therefore, not shown.

JUNCTIONS

This sheet joins sheet T-5908 on the south and sheet T-5910 on the north. The junctions are in agreement.

COMPARISON WITH OTHER SURVEYS

No old topographic maps were available with which comparison could be made.

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, Senior Photogrammetric Aid.

LANDMARKS

There are no prominent features worthy of charting as land marks.

A list of landmarks to be deleted are shown on form 567 attached to this report.

Respectfully submitted,

Engene L. maxwell

Eugene L. Maxwell Jr. Topographic Engineer

Forwarded by:

Kenneth G. Crosby, Chief of Party.

LEGEND USED FOR FIELD INSPECTION AND DRAFTING PROJECT 242 - 1942

PROJECT 242 - 1942 TREES PONDS - Pine - Pond Су - Cypress - Cypress Pond Cy P Palo - Palmetto ΙP - Intermittent Pond Palm - Palm D T - Deciduous trees (broad leaf) SHOREL INE Cit - Citrus (orchard) Mix - Pine, cypress & Dec: trees H.W.L. mean high waterline (solid red (Density) line - fast land) Sct. - Scattered L.W.L. - low waterline (dashed red line) t.w. - Thinly wooded L.E. - Light line (solid blue line for h.w. - Heavily wooded mean high water line on marsh) Ser: - Serub trees Dk - Dock - Pier Pr **VEGETATION** Se W - Seawall Bkhd - Bulkhead - Cultivation Conc - Concrete - Grass Gr Wo - Wooden T Gr - Tall Tropical Grass - Jetty Jet - Marsh (dashed blue line on Dol - Dolphin inshore limits) Pile - Pile (give type) - Marsh grass in water (dashed blue g - Sand line on offshore limits) - Mud Mud Sw - Swamp Rk - Rock or Rocky Mg - Mangrove Sty - Stony Hdg - Hedge W - Water - Bluff (height) Blf STREAMS BUILDINGS - Canal (width) Ca Cr - Creek - House, barn or building - Ditch (width) D Ch - Church (give name) I S - Intermittent Stream Ct H - Court House (give name) PDU - Probable drainage unsurveyed Bo H - Boat House Brg - Bridge or symbol P.O. - Post Office (give name) - Culvert CA RR Sta- Railroad station (give name) Lev - Levee Hos - Hospital (give name) - School (give name) FGS - Florida Geodetic Survey USE - U. S. Engineers MISCELLANEOUS USBS - U. S. Biological Survey Fence ROADS & RAILROADS FB - Fire Break (maintained) - Fire Break (abandoned) Rd 1 - 1st class road (paved) Cem - Cemetery Rd 2 - 2nd class road Park = Park (give name) Tr - Trail F.T. - Fire tower R R - Railroad T.T. - Transmission tower (tall steel) O P - Overpass (state the kind) P.L. - Power Line

Shoal - Approx. limits by long dashed

line for use by hydrographer.

UP - Underpass (state the kind)

- Abandoned trail, road, etc.

RH ab- P.R. abandoned (grade only)

LICERO USED FOR FIELD LESPECTION AND DRAFTING PROJECT 242 - 1942

THEES **FUELS** Pi - Pine - Pond Cy - Cypress Cy P - Cypress Pond Palo - Palmetto IP - Internittent Pond Pala-Pala D T - Deciduous trees (broad lesf) SHORFLING Cit - Citrus (orchard) wix - Pine, cypress & Doo, troos Hell-Le- moon high waterline (solid (Density) red line - fast land) Sct. - Scattered Low.L. - low waterline (dashed red line) t.w. - Thinly wooded L.I. - Light line (solid blue line for hes. - Heavily wooded mean high water line on a rah) Sor, - Scrub treesi Dic - Dock Pr - Pier ADJETYLION . So # - Scarall Bichd - Bulkhead - Cultivition Conc - Concrete - Gress · Gr - Nooden Ro T Gr - Tall Tropical Grass - Jetty Jet y - Larch (dashed blue line on Dol - Dolphin inshore limits) Pilo - Pile (give type) - March grass in water (dashed blue 5 - Sand line on offshore limits) Lud - Lud SW - Swamp - Rock or Rocky Fik - Pangrova N8 Sty - Stony Hdg - Hodge i.i - Enter - Fluff (hoight) STITALS **SUTILITIES** Ga - Canel (midth) Cr - Creck - House, barn or building D - Ditch (width) Ch - Church (give nume) I S - Intermittent Strong Ct H - Court House (give name) Bo B - Boat House PDU - Probable drainage unsurveyed Brg - Bridge or symbol P.O. - Post Office (give name) cv - Culvert H.H.Sta-Roilroad station (give name) Lov - lavee Hos - Hospital (Tive mane) Sch - School (give name) P.G.S.- Florida Geodetic Survay U. S. E.- U. S. Engineers MISCELLANEOUS USES - U.S. Biological Survey - Fonce - Fire Break (maintained) ROAUS & RUILEDADS FFIX - Fire Break (abandoned) Rd 1 - 1st class road (paved) Cem - Cemetery Rd 2 - 2nd class road Park - Park (give muse) 1r - Trail F.T. - Pire tower RR - hailread T.T. - Transmission tower(tall steel) OP - Over ass(state the kine) P.L. - Pomer Line Shoal - Approx. limits by long dashed · UP - Und pass(state the kind)

Abandoned trail, road, etc.
R H ab- T.R. abandoned (grade only)

1ine for use by hydrographer.

Remarks.

Decisions

	Remarks.	Decisions
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11		267806-07
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13		Railway Guide
14		1941 Off. Road Map
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	GEOGRAPHIC NAMES Survey No. 12-5909		/.	Siz en	dradia	` `\@`;&`	Mag	, / . 8º of	W. Hally	AT STATE	ž /
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,	Kreamer Island	,									3
	Little Kreamer Island		_	<u> </u>							4
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•	Torry Island · /		_			<u> </u>		ļ			6
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Division of Photogrammetry Review of Planimetric Map T-5909

Field Inspection and Detailing.

These were generally adequate. The marsh shoreline on the manuscript has been revised during review. The distinction between marsh visible above mean high-water and low grass in the water is very indefinite. The revision has been made after a study of the adjoining manuscripts, the older surveys, and the photographs. Changes made by the reviewer are shown in red on the manuscript.

Comparison with Previous Surveys.

T-5909 has been compared with and supersedes T-4126, 1:20,000, 1925, and T-4147, 1:20,000, 1927, over the common area.

Comparison with Nautical Charts.

T-5909 was applied to chart 1289 prior to this review. Changes made in the shoreline during review may affect the chart and should be examined when chart 1289 is again corrected. And the 123-16 FM

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

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

APPROVED BY:

Technical Assistant to the Chief, Div. of Photogrammetry

Chief, Nautical Chart Br.

Division of Charts

Chief, Div. of Photogrammetry

Chief, Div. of Coastal 140

Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. 7-5909

Record of Application to Charts

DATE	CHART	-CARTOGRAPHER	REMARKS
7-27-43	1289	GH. Everett	Before After Verification and Review
1-22-48	' //	Malos	Before After Verification and Review
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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.