5908

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

General locality Lake Okeechobee

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

1942

194 2...

CHIEF OF PARTY

Lieut.Comdr. Kenneth G. Crosby

LIBRARY & ARCHIVES

DATE July 21-1947

B-1870-1 (I)

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-5908

REGISTER NO.

StateFlorida		·	
General Locality Florida Eas	it Coast, Lake	Okeechobee	
Locality South Bay, Florida		. J . J b	
Scale 1:10,000 Date of	-	•	
Party Air Photographic Par	ty No. 1		
Chief of party Lieut. Cond Field Inspected by: Marold			
Inked by Harold A. Duffy, S			
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SMET NO. T- 5908

PROTOGRAPES

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4543	1-9-40	11:01	: No Tide
4544	1-9-40	11:02	1
4545	: 1-9-40	: 11:05	1
4546	: 1-9-40	: 11:06	3
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fide from predicted tables for: No Tide

Camera: U. S. Const and Condetie Survey Bine-Lens (focal length 5; inches)

SCALE

Scale of Survey Sheet.

STATISTICS

TELANGULATION

Station: TOP, 1942 (Top. 51-)

Lat 26'42' 03.402" (1049) 66 42' 104.96 (1741.1 m.)

Dutum: N.A. 1927 Long 50' 42' 56.708 (1567.6) 1.0021 tude: 80° 42' 1567.6" (91.0 m.)

coordinates X = 592,810.56 592,800.63 ft.
y = 860,534.706 860,531.61.ft /21/43/fm

TO ACCOMPANY SHEET NO. T-6908

GENERAL

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

The area covered by this sheet is in the locality of Florida East Coast and Lake Okeechobee, in the immediate vicinity and including South Bay, Florida, and its surrounding territory. Nearly all of this sheet is glade land, the most of which has been drained and put under cultivation. This land is very flat and has an elaborate drainage system in which the water level is maintained by gravity and pumps. In general each field is surrounded by a ditch and a narrow field trail. The field trails were not shown because of their unimportance and to avoid congestion.

The vegetation in this section on uncultivated areas consists of a tropical grass called Parra Grass which was first planted along the railroad and levees to control errosion and settling, and has spread to other areas. There is also an abundance of low brush and scrub willow. There are numerous windbreaks planted along the roads and field boundaries consisting of Australian Pine, bamboo and palm. In the southwest corner of the sheet there is an area of virgin glade land covered by sawgrass and scrub brush native to this section.

DETAILING

Sheet T-5908 was detailed in accordance with the current instructions for the project.

Photographs 4546 and 4545 were in good scale, except for the fact that 4548 is slightly tilted. Numerous radial points were added to those of the main radial plot so that more accurate detailing could be accomplished since the detailing limits extended very near the photograph limits in the northeast corner of the sheet. Photographs 4543 and 4544 were in good scale, but were slightly tilted causing poor intersections on many of the radial points during the main radial plot near the south limits of the sheet. Numerous radial points were added and the picking of the original points checked and a few were moved giving satisfactory control along the south edge of the sheet. In general the photographs were well controled except along the south and east edge of the sheet where the detailing limits extended very near the photograph limits. The city of Belle Glade falls outside detail limits of this sheet and outside the project along the southeast side.

In the northwest corner of the chart.

In the northwest corner of the sheet where the detailing limits extend into Lake Okeechobee, the water level has been raised by the construction of the new levee around the lake, causing an indefinite mash shoreline in this area. The problem was discussed with the Chief of Party and it was decided to outline the definite marsh and smooth draft the areas of grass in water, and scattered tufts of grass in water. In this same marsh area there is a narrow canal abandoned and lodged with water hyacinth. This canel has no importance to navigation since it was of a temporary nature dug to put out the anchors for dredges used in the construction of the new levee.

Labels were used freely by the draftsman, except in small areas where smooth drafting was necessary to give a better interpretation of vegetation.

The stereoscope was frequently used to interpret detail and limits of

vegetation.

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

Roads shown by centerline should be shown 0.6 m.m. wide.

CONTROL

N.W. Belle Glade, Muni., Water Tank 1948 -

√ TOP, 1942 °

70M, 1942

S. E. Belle Glade, Muni., Water Tank 1948 -

Tank, Okeechobee Migratory Camp, Belle Glade 1942-

Sam, 1942

The above listed control stations were established by Lieut. Comdr. K. G. Crosby as triangulation stations in 1942. The last two control stations listed fall outside the project.

These stations are shown on the sheet as topographic stations (3.5 m.m. black circle); see Director's letter dated July 20, 1942; Reference No. 28-P.F.A. - 1990; Subject, Lake Okeechobee Triangulation. (Nota: This control has since been adjusted, Smill be shown as A. Sagara in file Fit 11-23-43.)

The U. S. Engineers established a scheme of triangulation to control the survey and construction of the new levee around this portion of Lake Okeechobee. There were no written descriptions or other information available for recovery of these stations. None of these stations were recovered.

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° - 57.5°, which is just south of Port Mayaca, Fla., to Long. 80° - 59' which is just west of Clewiston, Florida. 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 kid 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 exfellent. 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

BIELD INSPECTION

Field inspection was made during March and April 1942 by Harold A. Duffy, Sr. Photogrammetric Aid. Field notes were adequate for detailing.

JUNCTIONS

West This sheet forms a junction on the North with sheet T-5909 and on the South with sheet T-5907. Junctions are in good agreement.

COMPARISON WITH OTHER SURVEYS

A comparison was made with Photostat of Section of Topographic Survey No. T-4127, surveyed in 1924-25 on scale 1:20,000, and registered at U. S. C. & G. S. in Washington. Due to radical changes created by the new levee, the hurricane of 1928, and the scale of the above mentioned survey, a favorable comparison could not 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 to the Washington Office by Harold A. Duffy, Senior Photogrammetric Aid.

LAND MARKS

The following landmarks have been listed on form #567 which is submitted as part of this report:

TANK (Elevated), N.W. Belle Glade, muni., 135 Ft. tall, painted aluminum TANK (Elevated), S.E. Belle Glade, muni., 135 Ft. tall, painted aluminum TANK (Elevated), Okeachobee Migratory Camp, 135 Ft. Tall, painted aluminum Hurrican Gate No. 4, concrete, painted aluminum (TOP 1942)

Respectfully submitted by,

Harold A. Duffy,

Senior Photogrammetric Aid

Forwarded by,

Kenneth G.

Chief of Party

Form 567 Rev. March 1935

U. S. COAST AND GEODETIC SURVEY

Sheet T-5908

TO BE CHARTED STRIKE OUT ONE

LANDMARKS FOR CHARTS

MOL B. Branchay, Toppa, Florido Mark. 6, 1942, 193

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be charted on (deleted from) the charts indicated I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks, 830 -1943

The positions given have been checked after listing.

THE REAL PROPERTY. To Mile pointed aluminum (SUP 1912) tory damp, 135 ft. call, ptd. alum S.T. GENERAL LOCALITY 135 fb. tall, painted alum. (Hierated), H.W. Hollo Glade, 135 Fb. tall, mained alum. NAME AND DESCRIPTION South Bay Florida-Lako Okoochobaa-12 S) () 思心 B 8 B B LATITUDE 1650.9 738.3 D. M. METERS 6-401 1076.3 POSITION 8 8 8 88 8 0 LONGITUDE 8 8 6 1281.8 1116.2 1567.6 D. P. METERS 289.2 -476× DATUM ₹. 4 4 Taking to METHOD OF LOCATION \$ 燇 LOCATION 252 1912 HARBOR CHART × INSHORE CHART Ħ × Chief of Party. OFFSHORE CHART 8 8 8 3 CHARTS AFFECTED

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Division of Photogrammetry Review of Planimetric Map T-5908

Field Inspection and Detailing.

These were generally complete and adequate. A number of drainage ditches omitted by the compiler were added during the review, The distinctions between Marsh Islands visible at high water and low grass in the water is very indefinite in this area, and much of the marsh shoreline has been revised by the reviewer, after a study of the charts, the adjoining manuscript, and the photograph. Changes made during review are shown on the manuscript in red.

Comparison with Previous Surveys.

Comparison with Nautical Charts.

T-5908 was applied to chart 1289 prior to this review. The revision of shoreline made during the review may affect the chart, and should be examined the next time chart 1289 is taken up for correction.

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

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

APPROVED BY:

Technical Assistant to the Chief, Div. of Photogrammetry

Chief. Div. of Photogrammetry

Division of Charts

Chief, Div. of Coastal

Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. 7-5708

Record of Application to Charts

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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.