# 5903

Diag: Ch. 804

Form 504 Rev. June 1941

DEPARTMENT OF COMMERCE
' U. S. COAST AND GEODETIC SURVEY

# **DESCRIPTIVE REPORT**

Hydrographic

Air Photographic Sheet Plane Table Sheet (Field)

LOCALITY

Florida State .....

General locality Martin County

Locality Dake Okeechobee, vicinity of

Chances Bay and Vicinity

Jan 9,1940 1942

CHIEF OF PARTY

Lieut. Comdr. Kenneth G. Crosby

applied to ch. 1289 7/21/43 StE

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# 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-5903
StateFlorida
General Locality Martin County
General Locality Martin County  Chancy Locality Lake Okeechobee, vicinity of Chancy Bay and Vicinity
Scale 1:10,000 Date of Exercity January 9 , 1940 Party
Mersed Air Photographic Party No. 1
Chief of party Lieut. Comdr. Kenneth G. Crosby Field Inspected by: George E. Varnadoe, Prin, Photogrammetric Aid
Inked by James E. Hundley, Sr. Photogrammetric Aid
Heights in feet above to ground to tops of trees
Contour, Approximate contour, Form line interval feet
Instructions dated April 3 , 19 40
Remarks:
ero 266853

# SHEET No. T- 5903

SUPPLEMENTARY SURVEYS	Name	Date	Hou	ırs
Control surveys	_ GEV	May	1	
Planetable Surveys	!		_	
		Total	1	
FIELD INSPECTION		2000	_	
STOPPINIONIENERATRIVOSITRIVENAS				
Preparation of Photographs	JEH, CH,	GEV Oct.Nov.Dec.	5 <del>1</del>	<del></del>
Field Work		Feb. Mar. 42	ટ <b>ટ3ર્ક</b>	
Inking Notes	1			
Coast Pilot Notes				
Geographic Name Reports		,		
Land Marks for Charts				
Description Cards & Recovery Notes	GEV	Mar	6	
		Total	3 <del>4</del> 2	
MAIN RADIAL PLOT		•		
Scale Plot	WHS	May	1	
Projection on Survey Sheet	),,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.00	-	
Projection on Survey Sheet	_  jwashingt	on Office		
Control Plotted		June	1,	
Control Checked		June	dos-fa-f4	
Control Trans. to Base Sheet		June	ı	
Transfer Checked			4	
Control Picked on Photograph		June	6	
Control Checked on Photograph		June	3 <del>1</del>	
Hydro & Topo. Stations Picked			6	
Radial Points Picked		June	5	
Adjacent Centers Picked		April	5	
Templates	HOB	May	13	
Radial Plot	1	June	6	
Radial Points Transferred	<b>I</b>	June	l i	
Transfer Checked	•	June	3	
H & T Stations Scaled & Checked		July	11/2	
Additional Radial Points		July	1 1 4	
Investigation of Radial Points	JEH	July	7	
	-	Total	60	
DETAILING				
Rough Draft	JEH, JTW	June, July	1424	
Smooth Draft	-	<b>,-</b>		
COMPILATION		Total	1422	
	1			
Name overlay		July	4 <del>3</del>	
Descriptive Report		July	6	
Field Review	_ RD	Sept.	8	
	· · · · · · · · · · · · · · · · · · ·		188	
Total time spent on Sheet			256 <del>3</del>	ours

Militer	Date	Time	Stage of Tide
4598 4599 4600 4601	1-9-40	11:56 11:57 11:58 11:59	No Tide
Details o	n this map are o	of the date of	the photographs.
	• •		: : :

Tide from predicted tables fort

CAMERA: U. S. Count and Geodetic Survey Mine-Lens (focal length Of inches)

Mean acale of Photographs...... •••••••• 1:10,000 + 1.007 Scale of Survey Sheet......

#### STATISTICS

Shoreline (more than 300 m. from opposite chore)		Square statute miles Statute miles
Shoreline (creeks)	13.8	Statute miles

REFERENCE STATION

Chan, 1924 - 1933, 1935 N.A. 1927 (adjusted)

Datum:

191 (836.9 m)

Latitude: 27° 04° 27°172 (836.3 m.)

19.006 (523.7 m)

Longitude: 80° 39° 187998 (583.5 m.)

E151

Fla. E Zone X= 612,176.47 FT. y= 996,261.81 FT.

# DESCRIPTIVE REPORT TO ACCOMPANY Sheet No. T-5903

#### GENE RAL

This sheet was compiled in accordance with "Instructions for Drafting 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 immediate vicinity of Chaney Bay, in Martin County, Florida.

The terrain along the shoreline of Lake Okeechobee is low and marshy. The inland terrain is also low and consists of approximately 25% cultivated land, 75% glade land, swamps, marshes and bushy areas.

The Florida State Road No. 194 runs approximately North and South near the shoreline of the Lake.

The Florida East Coast Railway line runs from the Northern limits of detail to the southern limits of detail at or near the eastern limits of this sheet.

The vegetation in other than cultivated areas consists mainly of grass, brush, cypress, scattered pine and palmetto.

The cultivated areas have numerous drainage ditches.

All reads shown by centerline only, should be drawn 0.6 m.m. wide.

#### CONTROL

The following Triangulation Stations are within the tracing limits of this sheet:

NAME	YEAR	ESTABLISHED BY
CHAN	1924	L. D. Graham
SAND	1924	E. B. Roberts

The position of the azimuth mark at triangulation station, Chan, 1924, was determined by the main radial plot. The azimuth position was checked with a three arm metal protractor, reading to minutes, and was found in good agreement. No other stations have azimuth marks.

No errors were found in the location of the control stations on this sheet, nor in the plotting of these stations in the photographs.

#### MAIN RADIAL PLOT

A continuous radial plot was run on June 14-16 inclusive, 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-5900 to 5903 inclusive. All photographs in the area were used. It extends northerly and westerly along the eastern shore of Lake Okeechobee, Florida. Photographs 4563 and 4598 are the southeast limits and photographs 4612 and 4615 are the northwest limits.

The plot consisted of 18 templates, all being for nine-lens photographs and being controlled by triangulation stations as follows: 2 templates by 4; 2 by 3; 7 by 2; 2 by 1; 5 by 0. These templates were made in accordance with "Notes on Radial Plotting of nine-lens photographs", dated April 9, 1940.

The control afforded by first and second order triangulation was sufficient on sheets T-5900, T-5902 and T-5903. There was no triangulation control on sheet T-5901, and the field season was closed before additional observations could be made by this Party.

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 grids 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 laying of the plot began on sheet T-5900 and proceeded to triangulation station Ute, 1924, on sheet T-5902. Sheet T-5900 was adequately controlled by triangulation. Sheet T-5901 did not have any triangulation on it and the plot was laid by holding to previously located intersections of radial lines and azimuth. Due to lack of control this part of the plot had to be relaid several times before a satisfactory "tie-in" could be made at triangulation station Ute, 1924. The reminader of the plot - sheets T-5902 and T-5903 - was laid by starting with the templates for photographs 4563 and 4598 and working North to triangulation station Ute. 1924. Photographs 4563 and 4598 were used in the previous plot which covered sheets T-5912 to T-5919 inclusive: Therefore, the radial points already on them were used to tie these plots together. In proceeding with the laying of the templates on sheets T-5903, it was found that the location of the monument for triangulation station Sand, 1924, was doubtful as the recovery card for this station says that it apparently has been moved. The location of the point as picked on the photographs failed to form an intersection at the plotted position of station Sand, 1924, on the base grid, but by holding intersections of radial lines and azimuth and other triangulation control in the area the plot is satisfactory for accurate detailing of the area covered by sheet T-5903.

The agreement along the flight line and the intersection of radial lines was good on sheet T-5900. In 12 instances where the radial lines failed to form good intersections the "cuts" were put on the survey sheet for further investigation by the draftsman. In 15 instances where only 2 cuts could be obtained they were also put on the survey sheet for the draftsman to determine their accuracy.

Agreement along the flight line was only fair on sheets T-5901 and T-5902. About 50 percent of the cuts failed to form good intersections and these were penciled on the survey sheet to be investigated by the draftsman.

Agreement along the flight line and the agreement of the intersection of radial lines was good on sheet T-5903. There were 15 instances where only 2 cuts could be obtained and these cuts were penciled on the survey sheet; so that the draftsman could determine their strength. In four instances a satisfactory intersection was not formed by the radial lines and the cuts were penciled on the survey sheet for further investigation by draftsman.

All points established by the common intersection of 3 to 6 radial lines

See memorandum in Desc. Report 7-5401

were picked, and it is believed that all picked points are within 0.25 m.m. of their true position.

This plot cannot be called "strong". However, the sheets on both ends are rigidly controlled by triangulation. This allows an accurate "tie-in" of sheet T-5903 with the previous plot and insures a good tie between sheet T-5900 of this plot and T-5899 of the next plot on the west side of Lake Okeechobee.

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 Sheet

#### INTERPRETATION OF PHOTOGRAPHS

The photographs were clear and accurate interpretation was obtained with no unusual conditions prevailing.

#### FIELD INSPECTION

Field inspection was made by George Varmadoe, Principal Photogrammetric Aid, during February and March, 1942. The field inspection was done on 1:10,000 scale photographs. Notes were sufficient for accurate interpretation of all detail.

#### DETAILING

This sheet was detailed in accordance with the current instructions for the project. Before detailing, magnesium carbonate was applied and then washed off. No additional cleaning or reinking was necessary.

The detail which appears on this survey sheet was taken from photographs 4598, 4599, 4600 and 4601, all of which were in poor scale.

After dtailing Florida State Road No. 194 in its proper place from the photographs it was discovered that the distances given from triangulation stations Chan, 1924 and Sand, 1924 did not agree. This was caused by the triangulation stations being moved while the road was under construction.

Symbols have been used, in a few cases, to indicate density.

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

#### JUNCTIONS

This sheet joins sheet No. T-5902 on the North and sheet No. T-5912 on the South and all junctions are in agreement.

#### COMPARISON WITH OTHER SURVEYS

A comparison with Sheet No. T-4125 surveyed in 1924-25 on scale 1:20,000 was attempted but changes have been so extensive in this section that no accurate 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 to the Washington Office may 30, 1942 by Harold A. Duffy, Senior Photogrammetric Aid.

#### LANDMARKS

There are no prominent objects appearing on this sheet suitable for charting as landmarks.

Respectfully submitted,

James E. Hundley, Mc. Senior Photogrammetric Aid.

Forwarded by:

Kenneth G. Grosby,

Chief of Party.

### T. L.

" Pina 45

- Division

Palo ... Pal atto

Talls - Palm

DT - Decideous trees (broad leaf)

Cit - Citrus (orobard)

Mix - Pine, comess & Duc, tress

(Denalty)

Oct. - Scattered

tone - Tringy moded

how - Henvill Bouled

Sare - Comb trees

#### AND IN LINE

- Cultivation

- Green Gr.

y Or - Tall Trupical Crass

sa mil mild fedard) deren ...

instore Little)

- Herel graps in mater (dealed blue

lim on effahore lisits)

- 306 P 31

- MANEXOVO 

HAg - Hedge

#### STALB

(a - Caust (width)

CT - Creak

- Mitch (41939) Þ

13 - Intermittent Street

PIN - Probable draines unsurveyed

BIR - Bridge or available

CY - Chivers

LAY - LAYES

ros - ploride Devietic Survey

USE - U. S. Englishers

BB - U. U. Diological Survey

# BANK & MIL-10 ME

Hd 1 - lat oluse road (pared)

paor esisto bas - S bis

- Trail

BR H - Beilroad

O P - Overpass (state the kind)

UP - Undorpass (state the kind)

- Aboutioned trail, road, etc.

Hi ab- Pelle abandaned (grade only)

#### **EDNOS**

- Rand

Cy P - Cypress Ford

I P - Interstate Fond

#### SHOULD BE

Believ mean high emperime (actid red

line - feet land)

Lefoles low waterlies (desded red line)

Labe - Light line (solid blue line for

deran no suil reter this on careh)

UŁ - Dock

II. ~ Pier

Go # - Boamall

BOOK - RUDDING

Mone - Concrete

80 - WOODER

Jet " Jetty

~ Dolphin Dol

Pile - Pile (give type)

- Sand 3

the state - Mid

: **k** - Nock or Mocky

317 - Stony

- Hater 3#

- Mare (beight) 1-1

#### BUTTINGS

- House, barn or building Ħ

- Church (give pane) (th

Ct R - Court Rouse (give asso)

Bo H - Boat House

P.O. - Post Office (give kn=2)

RR Sta- influent station (give mile)

the - Bospital (give max)

- School (sim mae) Ech

#### MINITIALIOUS

- Teme

- Fire Break (maintained)

- Fire Broak (abanconed) FIX

- Comster CAR

Park - Park (give noce)

PoTo - Pire tower

Tore - Transmission tower [tall steel)

P.L. - Power Line

thost - Approx. Little by long druked

line for use by hydrographer.

# COLUMN CHE KITCHER COLUMN AND ENVELOPE COLUMN AND ENVELOPE COLUMN COLUMN

#### TOS

14 - Pina

G - garage

falo - al vite

Alt - Pala

tion - heridana trees (bread leaf)

det - dierm (orchard)

Biz - Pine, cypress & Tuc. tress

(Dempity)

Oct. - Gentsered

t.v. - Thinly wooded

hew. - Reavily wooded

Ser. - Serub troop

#### VALUE TON

c - caltimation

GF - Grass

Tar - tall Treplial Grans

H - Nexet (deable blue lies of

interiors listed

said deritat) unter al same deres - ter

lam or organized and

50 - Spe. 17

NG " MADELOAN

Har - Heace

#### ST LLA 2

Ca - Capal (gicth)

Or - Creek

D - Ditch (visth)

19 - Internitiont Street

PMI - Probable drainers unangward

Brg a Bridge or eyrbol

Cy - celvart

Lov - Loves

pos . Florida Goodstic Survey

ton . U. G. Degiceers

mm: \_ []. U. Biological Survey

#### WIND A CUI. DA'S

Ed 1 - Int class foud (pared)

the see see sugar seed

Trail

H - Milroad

υμ . Overpase (state the kind)

U P - Codorpaes (state the kind)

Y - Abandoned trall, road, etc.

H ab- Polle abandaned (grade only)

#### **圣**姬

P - Pond

Cy P - Cypross food

ing twittent paid

#### SECTION SECTION

Hawailan mean high waterline (solid red

lize - fact land)

Ludeban low reservine (deshed red like)

Lake - Light line (solid blue line for

moun titch water line on merch)

Dk - Dock

Tr - Pler

Cu w - Housell

Mad - Bulkheed

100c - Concrete

Rebook - 03

Jos - Jetty

nidelog - losphin

File - Pile (give type)

A Sand

BIAL - BIAL

Thock or about

ity - story

- Habot

Alf - Blutt (beight)

### T TIME

fi - Nouse, barn or dullding

th - thursh (give name)

(LER - Court Louis (give more)

Bu B - Sout Bouse

Pada - Rist Office (give myme)

Wester hillred etation (give mae)

Man - Bospital (give sate)

Sch - School (give kesse)

#### MERCHALLOUS

P - Fence

FB - Fird Brank (catotained)

THE - VI. W Brink (absoluted)

(Bill - Canstery

INITE - Park (stre seem)

Torn - Piro totar

m.g. - Traterisation tower (tall stock)

Pole - Perer Line

Chool - Approx. Lilits by long drabad

line for use by third rapher.

	Remarks	Decisions
1		269806-08 USGB
2		270806-08
3		Railway Guide
4		1941 Off. Road Map
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Survey No. <sub>T-5903</sub>		/_	JOJE ST	diso	/ ca . co	Mad	, de o	CHAIL		*/
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Name on Survey	/ A,	B,	C,	D D	E	or r	₹. G	Н	У <sub>К</sub>	
Lake Okeechobee							_			
Chancy Bay										
Florida East Coast Ry										
Florida Highway No. 194										
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# Division of Photogrammetry Review of Planimetric Map T-5903

This map was compiled in the Tampa Office and submitted to Washington in September 1942, but the Washington Office processing was delayed by war map work of the Bureau. The map was reviewed in 1943, drafted in 1944, printed in 1945, and registered in 1947.

#### Main Radial Plot.

The main radial plot in this general area is discussed in the descriptive report and was not entirely satisfactory. An attempt to relay this radial plot was made in the Washington Office, but it was decided to accept the plot as originally made in the Tampa Office. The Washington Office check of the radial plot is discussed in the review report for T-5901.

The accuracy of position of details on the map is accepted as adequate for charting. Well-defined details are within  $1\frac{1}{2}$  millimeter of correct geographic position.

#### Field Inspection and Detailing.

Adequate.

#### Comparison with Previous Surveys.

T-5903 supersedes T-4125, 1:20,000, 1924.

#### Comparison with Nautical Charts.

T-5903 was applied to chart 1289 prior to this review. Changes made on the manuscript during review do not affect the chart.

Reviewed under the direction of D. H. Benson.

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

APPROVED BY:

Technical Essistant to the Chief, Nautical Chart Chief, Div. of Photogrammetry Division of Charts

Chief, Div. of Photogrammetry

Chief, Div. of Coastal Surveys

# NAUTICAL CHARTS BRANCH

# SURVEY NO. 7-5903

# Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
7-21-43	1289	G.H. Everet	Before After Verification and Review
1-22-48	7 //	Malos	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.