

5619

No Form 529 disupt.

Diag. cht. No. 688

5619

Form 504 Rev. Dec. 1933	
DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR	
DESCRIPTIVE REPORT	
Topographic Hydrographic	Sheet No. T-5619
May 28, 1941	
State FLORIDA	
LOCALITY	
ST. JOHNS RIVER	
LAKE JESSUP	
WESTERN PART	
Photographs taken Feb. 16, 1939	
1939	
CHIEF OF PARTY	
Riley J. Sipe	

U. S. GOVERNMENT PRINTING OFFICE: 1934

May 28, 1941

before review
Applied to Chart Comp 688, May 1, 1940. H. Mae Swen

Inspected & fully applied to chart 688 June 29, 1946 D. H. Benson

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.

Field No. 46

REGISTER NO. T-5619

State FLORIDA

General locality ST. JOHNS RIVER

Locality LAKE JESSUP - WESTERN PART.

Scale 1:9615 Date of Photographs ~~Survey~~ Feb. 16, 1939

Vessel Air Photographic Party No. 2-A

Chief of party Riley J. Sipe

Surveyed by See notes on compilation.

Inked by " " " "

Heights in feet above mean to ground to tops of trees

Contour, Approximate contour, Form line interval 25 feet

Instructions dated Mar. 4, 1933 & Letter June 6, 1939, 1939

Remarks: U. S. C. & G. Survey nine lens camera.

Field Inspection March & August 1939.

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TIME SHEET

Field Sheet No. 46
Register No. T-5619

The following table gives the total time spent on rough drafting this sheet.

Pricking points for plotting	21 hrs.
Making templates	30 "
Radial plot	44 "
Pricking additional points for detail	15 "
*Plotting all control	104 "
Detailing roads, bldgs, fences, trails, etc.	194 "
Detailing symbols	0 "
Detailing shoreline	16 "
Field Inspection	50 "
Instruction	12 "
Reports	11 "
Field review of drawing	23 "
Indexing pictures	1 "

Total - - - - - 521 hrs

*(This item is high as an inexperienced man plotted the control.
Should be about 60 hrs. for the ordinary sheet).

7100

7104 (15)

144
16
210

74 21

Note: Date of Survey: Photo 2/16/39

Field Insp. Mar/39 and Aug '39.

Details on photos are of date of the photographs

DESCRIPTIVE REPORT

Field Sheet No. 46

Register No. T-5619

GENERAL INFORMATION.

This rough map drawing was compiled from air photographs taken by the U. S. Army Air Corps using a nine lens camera designed by the U. S. Coast and Geodetic Survey.

The projection was made with a scale factor of 1.04.

Unimportant small buildings and those not distinct enough on the photographs to locate accurately were not shown.

CONTROL.

A total of 27 control points are plotted on this map drawing, 21 of which fall within the tracing limits. Three of these are triangulation stations established by this party in 1935. The remaining 18 are traverse stations established by the Florida Mapping Project.*

RADIAL PLOT.

Templates were made on clear acetate sheeting and these were adjusted to the control plotted on a regular control sheet. After the best adjustment of all templates was obtained, the templates were securely fastened to the control sheet with scotch tape. The smooth projection was then placed on top and the radial points pricked at the intersection of the radial lines.

The majority of the radial points on this map drawing were pricked at the intersection of only two radial lines due to insufficient overlap of the photographs. However it is believed that the topographic detail is not in error more than 3 meters.

Florida Mapping Project Station D. A. ²²⁷228 in the northeast corner of this drawing is evidently in error. A field inspection was made but the error could not be determined. D. A. 226 which is just outside the limits could not be made to check. Due to the above discrepancies the area north of Latitude 28° 45' in the northeast corner of the drawing has not been detailed.

INTERPRETATION OF PHOTOGRAPHS.

No difficulty was experienced from a photographic standpoint except in the area known as Gee Hammock. The dividing line between this hammock and the swamp could not be ascertained from the photographs so it was included in the swampy area. Although hammock land is normally dry, the density and similarity of this area to the adjacent swamp suggests that it is probably semi-swamp.

About $\frac{1}{2}$ mile northwest of Marl Bed Slough are two parallel ditches running approximately east and west. These are very prominent ditches on each side of the abandoned and discontinued end of the first class dirt road beginning at the west end of these ditches.

* The grid was added to T-5619 after the sheet was received as in the office and the positions of a number of the *file* geod. s. stations were checked from the grid values as filed in the division of geod. These stations were plotted on the *allotted* from geographic positions furnished the field party by the Florida State Survey office. *889* 10/16/39.

This area has been detailed in office. There was ample control for the nine lens photos. Sta. D.A. 228 fell with the plot. D.A. 227 would not hold and has been left off the drawing. 889.

*Field map of Lake Jessup shown
no more details were added
the photographs 1395 & 1396*

2

FIELD INSPECTION.

Field inspection was made by boat and truck in March 1939. Additional inspection was made in August 1939 by truck.

GRAPHIC CONTROL SURVEY.

CS180 M CS181 M This map drawing is covered by Graphic Control Sheets "DDDD" & "EEEE" of which this office has only a tracing.

Five undescribed topographic stations were transferred from these sheets.

No accurate comparison could be made with these sheets due to the fact that the topographic party attempted to define Mean High Water Line while the photographic compiling party defined the outer limits of vegetation at the time the photographs were taken as the shoreline.

HYDROGRAPHIC SURVEYS.

The part of Lake Jessup shown on this map drawing is covered by Boat Sheet No. 62, *H6436* Launch MIKAWA, 1939, F. L. Gallen, Chief of Party. No comparison was made as a copy of this survey was not on hand.

U. S. C. & G. SURVEY CHART No. 458.

Due to the large difference in scales an accurate comparison could not be made.

MISCELLANEOUS.

Areas of vegetation either too small or too difficult to label for correct interpretation were drafted in detail.

The distance between the power line, following the east and west portion of the State Highway No. 203 and the road to Longwood, has been exaggerated for clearness in printing.

All small marsh areas that are located offshore and marked marshy with an "M", are merely small islets and should be outlined by a light line and the usual marsh symbol used.

PREPARATION FOR INKING.

The sheet was prepared for inking by rubbing the section about to be inked with dry Carbonate of Magnesia.

Respectfully submitted,

D. R. Shallenberger.

Forwarded: *R. J. Lipe*

	Remarks	Decisions
1		287812
2	Smokehouse one word	"
3		"
4		"
5		"
6		"
7		"
8	Fivemile one word	"
9		"
10		286812
11		287812
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. T-5619

GEOGRAPHIC NAMES										
Survey No. T-5619										
Name on Survey	<div>On Chart No. 458</div> <div>On previous survey No.</div> <div>On U. S. quadrangle Maps</div> <div>From local information</div> <div>On local Maps</div> <div>P. O. Guide or Map</div> <div>Rand McNally Atlas</div> <div>U. S. Light List</div>									
	A.	B.	C.	D	E	F	G	H	K	
BONNET CREEK				X						1
BIG SMOKE HOUSE COVE				X						2
BIRD ISLAND	X			X						3
CABBAGE HAMMOCK POINT				X						4
CALDWELL POINT				X						5
CLIFTON				X	X					6
CLIFTON SPRINGS				X						7
FIVE MILE BRANCH				X						8
GEE CREEK				X	X					9
GEE HAMMOCK				X	X					10
GARDENA				X						11
HOWELL CREEK				X						12
MARL BED FLATS				X						13
MARL BED POINT				X						14
MARL BED SLOUGH				X						15
PHELPS CREEK				X						16
SHOTBAG CREEK				X						17
SOLDIER CREEK				X	X					18
SOLDIER CREEK COVE				X						19
WAGNER				X	X					20
Lake Jessup										21
Silver Lake										22
Sanford Airport										23
										24
										25
										26
										27
										28

L. Heck on 3/11/41

M 234

L. Heck on 3/11/41

GEOGRAPHIC NAMES

BONNET CREEK

A small stream flowing into Lake Jessup on the north side about $\frac{1}{2}$ mile north of Marl Bed Point.

BIG SMOKE HOUSE COVE

A cove on the north side of Lake Jessup approximately $\frac{1}{2}$ mile east of Five Mile Branch.

BIRD ISLAND

An island in Lake Jessup approximately one mile southeast of Marl Bed Point.

CABBAGE HAMMOCK POINT

A prominent point just east of Big Smoke House Cove principally covered with palm trees.

CALDWELL POINT

A point of land between Five Mile Branch and Soldier Creek Cove.

CLIFTON

A community on the south side of Lake Jessup through which the Atlantic Coast Line R. R. runs. It is about one mile east of the Wagner Railroad Station.

CLIFTON SPRINGS

A small community just southeast of triangulation station Whites Wharf, 1935. This community is sometimes called Whites Landing but the former name appears to be in more common usage and is recommended.

FIVE MILE BRANCH

A small stream between Big Smoke House Cove and Caldwell Point. It is sometimes called Thomas Creek but Five Mile Branch is recommended.

GEE CREEK

A small creek that runs into Soldier Creek just before it empties into Lake Jessup. Only a small portion could be traced on the photographs (just north of D.A. 290c) due to the swampy area.

GEE HAMMOCK

On the south side of Lake Jessup just south of the Atlantic Coast Line R. R. between Wagner and Clifton. This name applies to the northern portion of the swampy area.

GARDENA

A small community and railroad station on the Atlantic Coast Line R. R. just south of F. M. P. Station "D.A. 292c".

HOWELL CREEK

A stream about one mile west of triangulation station "Whites Wharf, 1935".

MARL BED FLATS

A low marshy area on the northwest shore of Lake Jessup just southwest of Marl Bed Point.

MARL BED POINT

The prominent point northwest of Bird Island and just northeast of Marl Bed Flats.

MARL BED SLOUGH

A marshy area just northwest of Marl Bed Point. It is sometimes called Old Railway Canal but the former name is recommended.

PEELPS CREEK

A creek that a prominent ditch empties into just north of Shotbag Creek.

SHOTBAG CREEK

A small stream about one quarter mile north of Marl Bed Point.

SOLDIER CREEK

A stream flowing into Soldier Creek Cove.

SOLDIER CREEK COVE

A cove just west of Caldwell Point at the extreme western end of Lake Jessup.

WAGNER

A community and railroad station on the south side of Lake Jessup on the Atlantic Coast Line R.R. about one mile west of Clifton.

REVIEW OF AIR PHOTO COMPILATION NO.

Chief of Party: Riley J. Sipe

Compiled by: T-5619

Project: HT-168

Instructions dated: 3/4/35

1. The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Par. 16a, b,c,d,e,g and i; 26; and 64)

Yes

- 2. Change in position, or non-existence of wharfs, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (Par. 26; and 66 g,n)

Yes

3. Ground surveys by plane table, sextant, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, and all such surveys are discussed in the descriptive report. (Par. 65; and 66 d,e)

Yes

4. Blue-prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 28)

No contro(needed (Names only)

5. Differences between this compilation and contemporary plane table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report.

Yes

6. The control and adjustment of the photo plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 12b; 44; and 66 c,h,i)

Yes. (See desc. report for section in NE corner of drawing.)

7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)

Yes

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Refer also to the pamphlet "Notes on the Compilation of Planimetric Line Maps from Five Lens Air Photographs."

8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41)

Yes

9. Recoverable objects have been located and described on Form 524 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. 29, 30, and 57)

None

10. A list of landmarks was furnished on Form 567 and instructions in the Director's letter of July 16, 1934, Landmarks for Charts, complied with. (Par. 16d, e; and 60)

None

11. All bridges shown on the compilation are accompanied by a note stating whether fixed or draw, clearance, and width of draw if a draw bridge. Additional information of importance to navigation is given in the descriptive report. (Par. 16c)

No bridges over navigable waters

12. Geographic names are shown on the overlay tracing. The accepted local usage of new names has been determined and they are listed in the report, together with a general statement as to source of information and a specific statement when advisable. Complete discussion of place names differing from the charts and from the U. S. G. S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and 66k)

Yes

13. The geographic datum of the compilation is NA 1927 and the reference station is correctly noted.

Yes

14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j)

Yes

15. The drafting is satisfactory and particular attention has been given the following:

1. Standard symbols authorized by the Board of Surveys and Maps have been used throughout except as noted in the report. ✓
2. The degrees and minutes of Latitude and Longitude are correctly marked. ✓

3. All station points are exactly marked by fine black dots. ✓
4. Closely spaced lines are drawn sharp and clear for printing. ✓
5. Topographic symbols for similar features are of uniform weight. ✓
6. All drawing has been retouched where partially rubbed off. ✓
7. Buildings are drawn with clear straight lines and square corners where such is the case on the ground. ✓

(Par. 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48)

Yes

16. No additional surveying is recommended at this time.

17. Remarks:

As the photographs did not have sufficient overlap the majority of radial points were determined by only two radial lines.

18. Examined and approved;


Chief of Party

19. Remarks after review in office:

Reviewed in office by:

Examined and approved:

Chief, Section of Field Records

Chief, Section of Field Work

Chief, Division of Charts

Chief, Division of Hydrography
and Topography.

PLANE COORDINATE GRID SYSTEM

Positions of grid intersections used for fitting the grid to this compilation were computed by Division of Geodesy and the computation forms are included in this report.

Positions plotted by H. D. REED, JR.

Positions checked by " ON RULING MACHINE

Grid inked on machine by S. KASS & H. D. R. JR.

Intersections inked by _____

~~Points used for plotting grid:~~ Offsets from projection line intersections at each corner of sheet to nearest grid line were used in plotting instead of grid intersections

28-45
81-19

Lat-28-42
Long-81-14

28-43
81-16

28-42
81-19

28-45
81-14

Triangulation stations used for checking grid:
K = 423,548.12 - 401,551,446.82

1. Whites Wharf, 1935 (Ref. Sta.) 5. _____
- 4 = 415,135.48 - 401,576,692.81
2. Cooper, 1935 6. _____
3. _____ 7. _____
4. _____ 8. _____

DIVISION OF CHARTS

Section of Field Records

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-5619

Graphic Control Surveys

CS-180-M (1:10,000) 1939

CS-181-M (1:10,000) 1939

The Graphic control surveys show only location of temporary hydrographic stations and the magnetic declination. The latter checks with the charts of this area.

Previous Topographic Surveys

T-1512 (1:80,000) 1883

T-⁵⁶¹⁹~~1512~~ supersedes the section of T-1512 which it covers.

Contemporary Hydrographic Surveys

H-6436 (1:10,000) 1939

The review of H-6436 and comparison with T-5619 have been completed by the hydrographic reviewing unit.

Chart 688

T-5619 has been applied to chart 688 prior to this review. No changes have been made in T-5619 since its application to chart 688.

General

T-5619 has been compiled as a rough drawing and will be smooth drafted in the Philadelphia office. The detailing on T-5619 is complete.

Referring to the last paragraph under "Radial Plot" page 1 of the descriptive report, one minute of latitude was left blank by the field party, between sheets T-5688 and T-5619. There was ample control for a strong plot with the nine-lens photos. This plot was made and the area detailed in the office. Part of the detail was added to T-5688 and part to T-5619. In making the plot Station DA 228 held well, DA 227 did not hold by about 12 meters. Since the field identification of this station was checked and the plot was strong there is evidently some error in the grid position furnished by the Florida State mapping project. Station DA 227 was left off the drawing and the error has been reported to the Division of Geodesy. Station DA 226 was not identified by any field inspection notes on hand in the office and was not used in the plot.

Reviewed in office by - F. H. McBeth, 1/41

Inspected by - B. G. Jones, 1/41



Examined and Approved:



Chief, Section of Field Records.



Chief, Division of Charts.



Chief, Topography Section.



Chief,
Division of Coastal Surveys.