

8364

8364

1257

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Topographic
Field No.	T-8364
Office No.	
LOCALITY	
State	Florida
General locality	Tampa Bay
Locality	Lutz
194 3	
CHIEF OF PARTY	
Ray L. Schoppe - Field	
Kenneth G. Crosby - Compilation	
LIBRARY & ARCHIVES	
DATE	Oct 21 - 1946

Consider Completely Applied to
1257-41114 within the common area
L.S.S. 10/26/55

(England no
detail on
chart)

DATA RECORD

T- 8364

Quadrangle (II): Lutz

Project No. (II): 290-B

Field Office: Tampa, Florida

Chief of Party: R. L. Schoppe

Compilation Office: Tampa, Florida Chief of Party: K. G. Crosby

Instructions dated (II III): 11/16/42

Copy filed in Descriptive
Report No. T- (VI)

Completed survey received in office: 11/15/43

Reported to Nautical Chart Section: 11/16/43

Reviewed: 3/21/44

Applied to chart No.

Date:

Redrafting Completed: 5/13/44

Registered:

Published: 1944

Compilation Scale: 1:20,000

Published Scale: 1:31,680

Scale Factor (III): 1.00

Geographic Datum (III): N.A.D. 1927

Datum Plane (III): M.S.L. 1929

Reference Station (III): B.M. L-112, 1943

82° 23' 02.752 (75.0 m)

Lat. 28° 13' 20.288 (624.5) Long.: ~~82° 23' 02.752 (74.6 m)~~ ^{adjusted}
m. _{unadjusted}

State Plane Coordinates (VI):

Florida System of Plane Coordinates, West Zone

X = 376,307.92 Feet

Y = 1,413,661.90 Feet

Military Grid Zone (VI)

"B"

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
11660	11-12-43		1:20,000	Inshore sheet
11661			"	
11662			"	
11676			"	
11677			"	
11678			"	
11679			"	

Tide from (III): --

Mean Range:--

Spring Range: --

Camera: (Kind or source) U.S.C. and G.S. 9 lens

Field Inspection by: C.A. Moritz, Jr. Topo. Engr. 9 date: April 1943

Field Edit by: G. E. Varnadoe date: November, 1943

Date of Mean High-Water Line Location (III): --

Projection and Grids ruled by (III) J.C.O'N. date: 3/30/43

" " " checked by: " date: "

Control plotted by: W.E. Snyder, Photo. Aid date: 4/21/43

Control checked by: M.N. Lyon, Asst. Photo. Aid date: "

Radial Plot by: Tampa Office Personnel date: May 1943
" rerun by " " " " July 22, 1943

Detailed by: E.C. Andrews, Photo. Aid date: May-Oct. 1943

J.H.S. Billmyer, Asst. Photo. Engr.
Reviewed in compilation office by: A.L. Kidwell date: Oct.-Nov. 1943

Jr. Topo. Engr.
Elevations on Field Edit Sheet G. E. Varnadoe Nov., 1943
checked by: date: _____

STATISTICS (III)

Land Area (Sq. Statute Miles): 65.6

Shoreline (More than 200 meters to opposite shore): --

Shoreline (Less than 200 meters to opposite shore): --

Number of Recoverable Topographic Stations established: --

Number of Temporary Hydrographic Stations located by radial plot: --

Leveling (to control contours) - miles:

Roman numerals indicate whether the item is to be entered by,

(II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname
and initials (not initials only).

Remarks:

General Procedure in the Production of Topographic Quadrangles for the War Department

This quadrangle, together with similar adjoining maps produced under Project C.S.290-B, was prepared by the Coast and Geodetic Survey for the War Department under "General Specifications for War Department Mapping Program" issued about December 1941, in which is incorporated the "Standard of Accuracy for a National Map Production Program" issued by the Bureau of the Budget under date of June 10, 1941.

The general procedure in the production of this and the adjoining quadrangles was:

FIELD SURVEYS

Aerial photography with the Coast and Geodetic Survey nine-lens camera, with airplane and flight crew furnished by the U. S. Coast Guard. The photographs were taken to the scale of 1:20,000.

Ground inspection of the photographs for identification of control points, and classification and clarification of planimetric details on the photographs.

Contouring by planetable directly on the photographs. Supplementary vertical control was established by means of an extensive subordinate level net, furnishing unmarked elevations at road intersections, drive-ways, and numerous other points identifiable on the photographs.

COMPILATION OF MANUSCRIPT

Compilation on the map manuscripts by radial plot methods (celluloid hand templets) of all planimetry and contours. These manuscripts were drawn on the scale of 1:20,000 on celluloid sheets on which polyconic projections had been ruled with the Projection Ruling Machine in the Washington Office. Compilation was accomplished in the ~~Baltimore~~ Tampa Photogrammetric Office.

FIELD EDIT

Comparison of a copy of the manuscript with the ground. This included inspection for completeness and accuracy as well as the location by planetable methods of additional details, checking of nautical and aeronautical aids to navigation, etc.

Accuracy Tests - Application of systematic horizontal and vertical accuracy tests to check the maps for conformity with the specifications. These tests consisted of comparison of the map position and elevation of selected random points with the true position and elevation as independently determined by standard survey methods.

PROCESSING IN THE WASHINGTON OFFICE

Review - Examination of the manuscript for accuracy and completeness of compilation and compliance with specifications, correcting where necessary; addition of military and state grids and other special features; and verification of the general adequacy of the manuscript as a basis for the production of a finished map.

Drafting and Reproduction - Preparation of smooth color separation drawings on 1:20,000 scale on metal-mounted "blue-line" copies of the manuscript. From these drawings, negatives and printing plates were prepared for reproduction of the finished map on the scale of 1:31,680 or 1:25,000.

COMPILATION REPORT
TO ACCOMPANY
SHEET NO. T-8364

26. CONTROL

There were sufficient control stations within the tracing limits of this quadrangle to insure the accuracy of the main radial plot.

27. RADIAL PLOT

The main radial plot is discussed in the compilation report for Sheet T-8363.

28. DETAILING

This sheet was detailed from photographs which were of fair scale and very clear. Field inspection done on four photographs covering the sheet was more than adequate, enabling the draftsman to properly classify all vegetation and roads.

Political boundaries shown were obtained from county maps furnished by the field party, the proper boundaries being determined after consultation with county authorities.

A geographic name survey had not been completed at the time this sheet was detailed, names shown were taken from county maps whose authority and correctness are not known, additions and corrections can therefore be expected.

These facts, together with the clarity of the photographs used, greatly facilitated the detailing and throughout the job no difficulties were encountered.

29. SUPPLEMENTAL CONTROL

No graphic control surveys by this Bureau, or maps and plans of other organizations were used to supplement the photographs in detailing.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

There were no existing topographic quadrangles available in this office for comparison with T-8364.

45. COMPARISON WITH NAUTICAL CHARTS

None of the published charts include the area covered by this inland sheet.

Respectfully submitted,

Edward C. Andrews

Edward C. Andrews,
Photogrammetric Aid

Forwarded by:

Kenneth G. Crosby
Kenneth G. Crosby;
Chief of Party....

DESCRIPTIVE REPORT

Quadrangle T-8364

Project CS 290 B

The field inspection and contouring for quadrangle T-8364 has been done on photographs #11660, 11661, and 11678, 11679.

1. This quadrangle is found in the northern tier of quadrangles comprising Project CS 290. It is a portion of the physiographic province known as the Coastal Plain. In most respects the topography is characteristic of that found in the major portion of this physiographic province.

Unlike many of the quadrangles in the peninsular portion of the Coastal Plain, there is some fairly well-developed surface drainage; this drainage is the Hillsborough River. Although it cannot be classed as an important stream, it exercises some control on the topographic features of the area. However, the area affected by the stream is confined to the eastern portion of the quadrangle. The western half of the quadrangle is completely lacking in surface drainage.

The central and western portion of this area is dotted with a large number of lakes, most of which are comparatively small. (All of these features are the result of sub-surface drainage, with the attendant leaching of the limestone strata, resulting in cavern formation and the ultimate collapse of the cavern roofs, forming sink holes.) In addition to the lakes, the landscape is pock-marked by numerous swamps which are heavily-timbered with cypress. These two important physiographic features account for the numerous depression contours which are characteristic of topography developed on limestone strata.

A large part of the eastern and western portion of the quadrangle are completely devoid of cultural features. A few small towns constitute the

chief cultural features of the area. Among these are Lutz, Denham, and Drexel, all of which are small, unincorporated villages. There are several other important cultural features lying within the quadrangle; two of these are the Seaboard Air Line Railroad and U. S. Highway No. 41 which, lying parallel to one another, extend north and south through the entire length of the quadrangle. The Atlantic Coast Line Railroad also crosses the northwestern corner of the quadrangle and intersects the Seaboard at Drexel. The remainder of the cultural features of the area includes numerous forms of houses, farm buildings, a few country stores, citrus fruit packing houses, filling stations, Florida State Highway No. 209, and a number of lower class roads.

2. The field inspection for the clarification of detail on the photographs and the classification and identification of features, such as buildings, roads, cemeteries, schools, churches, boundaries, etc. has been completed. Those features, which according to recent instructions were to have been omitted and those, which in the opinion of the topographer, are of no value have been deleted. None of the field inspections remains to be done by the field edit party.

3. All of the photographs in this area are characteristic of this particular area, and no additional clarification is needed to aid the office draftsmen. The only features which were helpful to the topographer in this area were the lakes and sink holes; the appearance of these features on the photographs facilitated the location of depression contours and made sketching of these contours easier. For a description of the photographic tones and densities, see report for quadrangle T-8376.

4. All recovery work in this quadrangle was completed before the field inspection and contouring was begun. Because of this fact, the topographer

is unable to comment upon the horizontal control.

5. The level lines in this quadrangle were run by J. Wilson and O. Rector; the level notes can be found in volumes no. 23 and no. 24. The elevations were established by the level parties at road intersections and at many other points which are readily identifiable on the photographs. The control for the level lines was taken from U. S. Coast and Geodetic Survey bench marks, and all lines were closed and tied to a bench mark within the required limits of accuracy.

All the elevations on the photographs which were checked by the topographic party fell within the acceptable limits and may be included on the final map, if desired.

Several elevations on the photographs were found to be in error, but a check of the level notes revealed that the elevations had been miscopied; these elevations have been corrected on the photographs.

6. All the contours in this quadrangle were located by stadia traverses with the plane table and alidade. In a few limited areas - those which were heavily-wooded and not readily accessible with the plane table - compass and pace traverses with the Locke level or Abney level were used.

Although there is a considerable amount of woodland in this quadrangle, most of it lies between two successive contours, and consequently little difficulty was encountered in such areas. The streams which flow through heavily-wooded areas were located by pacing in to the bank of the stream at various intervals from several points which were recognizable on the photographs. In most cases the courses of streams through the woodlands could be traced on the photographs or picked up with the stereoscope, and in no case was it necessary to spend time locating the streams with the plane table.

A considerable amount of sketching was done in contouring this quadrangle which enabled the field work to be completed in the shortest possible time and at the least possible cost. The absence of large wooded areas made it unnecessary to take a great number of shots; by establishing elevations at critical points

and by determining the "break" of the land it is possible to sketch the contours quickly and well within the required limits of accuracy.

14. All roads within the area have been classified on the photographs with the possible exception of a few small private roads; these all belong in class 4UP. Many small roads and trails which have no particular destination have been deleted, for these would be of little or no value on the final map.

15. All bridges have been classified according to the instructions by Mr. Clarence C. Fryer, Jr. Topographic Engineer.

16. All buildings, including dwellings, barns, stores, public buildings, etc. which should be shown on the final map have been identified on the photographs. Those buildings which are in very poor condition or barns which are smaller than the dwellings have been deleted.

18. The portion of the work covering geographic names was accomplished by Mr. Jack W. Stingley, Junior Topo. Engineer, and is covered by a ~~1~~² special report.

The levels for this quadrangle and that part of the report pertaining thereto were accomplished by Mr. J. Wilson, Engineering Aid, and Mr. O. Rector, Photo. Aid.

The field inspection and contouring for this quadrangle and those parts of the report were accomplished by Mr. Carl A. Moritz, Jr. Topographic Engineer.

Respectfully submitted,


Carl A. Moritz

Carl A. Moritz,
Jr. Topo. Engineer


Approved

Ray L. Schoppe
Ray L. Schoppe
Comdr. U.S.C&G Survey
Chief of Party

4. Existing triangulation has been supplemented by a traverse across this quad which was run by William A. Rasure, Prin. Photo. Aid.


C. F. Chanworth
Lieut. U.S.C&G Survey

Approved


Ray L. Schoppe
Comdr. U.S.C&G Survey
Chief of Party

FIELD EDIT REPORT
TO ACCOMPANY QUADRANGLE T-8364
PROJECT CS 290 B
Ray L. Schoppe, Comdr., Chief of Party

46. Methods. Methods used were the same as discussed in the field edit report for quadrangle T-8376. Refer to descriptive report for that quadrangle. All additions, corrections, and deletions are to be found on the cloth bound print of the map compilation.

47. Adequacy of the Compilation. In general, the compilation is complete and adequate. However, no buildings were classified except churches, schools, and the postoffice at Lutz. It appears that the compiler did not make full use of the field inspection notes.

48. Accuracy Tests. The horizontal and vertical accuracy tests for this quadrangle were accomplished by another party, and the field edit party has no knowledge as to the results of these tests.

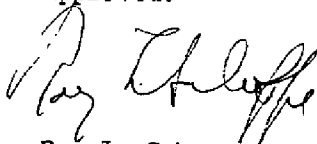
14. Road Classifications. All road classifications were checked and corrections made where necessary. All roads not previously classified were completed according to instructions.

15. Bridges. Two bridges in the northeastern part of the quadrangle, on Florida State Highway #209, were classified according to instructions by the field edit party.

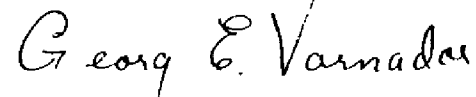
18. Geographic Names. All geographic names used were taken from a geographic name sheet completed by Jack W. Stingley, Jr. Topo. Engr., except those names supported by numbers 5, 6, and 7. For these three names the following authority is offered:

- 5. M. B. Nevel, Lutz, Fla. - Resident and grove owner for 30 years.
- 6. H. F. Strickland, Route 1, Lutz, Fla. - Resident and grove owner for 23 years.
- 7. G. M. Riegler, Route 1, Lutz, Fla. - 35 years local knowledge.

Approved:


Ray L. Schoppe
Chief of Party

Respectfully submitted:


George E. Varnadoe
Principal Photogrammetric Aid
December 24, 1943

T-8364

1

Remarks

Decisions

1		
2		USGB
3		Railway Guide
4		"
5		Road Maps
6		"
7		
8		280824
9		281823-824
10		"
11		"
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26		"
27		" 281825

GEOGRAPHIC NAMES

Survey No. T-8364

IUTZ quadrangle.

1	Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K
✓	<u>Pasco County</u>									1
✓	<u>Hillsborough County</u>									2
✓	<u>Seaboard Air Line Ry.</u>									3
✓	<u>Atlantic Coast Line R.R.</u>									4
✓	<u>U.S. No. 41</u> (also Florida No. 5)									5
✓	<u>Florida No. 209</u>									6
										7
	<u>Thirteen Mile Run</u>	(a little of it here, equals outlet of L. Stemper)								8
✓	<u>Cypress Creek</u>									9
✓	<u>Worthington Gardens</u>									10
✓	<u>Hanna Road</u>									11
✓	<u>Hanna Lake</u>									12
✓	<u>Lake Stemper</u>									13
✓	<u>Brant Lake</u>									14
✓	<u>Bruing</u>									15
✓	<u>Porter Road</u>									16
✓	<u>Strawberry Lake</u>									17
✓	<u>Cooper Lake</u>									18
✓	<u>Lake Thomas</u>	(to south)								19
✓	<u>Iutz</u>									20
✓	<u>Iutz School</u>									21
✓	<u>Iutz U.B. Church</u>									22
✓	<u>Sunset Lake/ Lane</u>									23
✓	<u>Keane Lake</u>									24
✓	<u>Lake Hobbs</u>									25
✓	<u>Little Hobbs Lake</u>									26
✓	<u>Vernon Road</u>									27
✓	<u>Reinsinger Road</u>									27

T-8364

2

Remarks

Decisions

1		281823-824
2		"
3		"
4		"
5		"
6		"
7		"
8		"
9		"
10		"
11		"
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		282824
21		"
22		"
23		"
24		"
25		"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8364

2

Name on Survey

On Chart
No.

On previous survey
No.

On U. S. quadrangle
Maps

From local
information

On local Maps

P. O. Guide or Map

Rand McNally Atlas

U. S. Light List

A.

B.

C.

D.

E.

F.

G.

H.

K.

✓ ✓ Deer Lake

1

✓ ✓ Little Deer Lake

2

✓ ✓ Deer Park

(settlement on railway north of Lutz, a little north of Feinsinger Road)

3

✓ ✓ Lake Kell

4

✓ ✓ Hog Island Lake

5

✓ ✓ Browns Lake

6

✓ ✓ Garden Road

7

✓ ✓ Big Moss Lake

8

✓ ✓ Little Moss Lake

9

✓ ✓ Livingston Avenue

10

✓ ✓ Richeau Lake

11

✓ ✓ Hart Lake

12

✓ ✓ Catfish Lake

13

✓ ✓ Twin Lakes

14

✓ ✓ Gooseneck Lake

15

✓ ✓ Bird Lake

16

✓ ✓ Denham

17

✓ ✓ Myrtle-Denham School

18

✓ ✓ Lake Como

19

✓ ✓ Lake Padgett

20

✓ ✓ Bell Lake

21

✓ ✓ East Lake Ellis

22

✓ ✓ West Lake Ellis

23

✓ ✓ Lake Saxon

(shift location)

24

✓ ✓ Myrtle Lake

25

✓ ✓ Black Lake

26

✓ ✓ Hog Lake

27

T-8364

3

Remarks

Decisions

1		282824
2		"
3		"
4		"
5		"
6		"
7		"
8		"
9		"
10		282823
11		"
12		282824
13		Ry. 686 (SAL)
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
M 234		

GEOGRAPHIC NAMES

Survey No.

T-8364

3 Name on Survey

	A.	B.	C.	D.	E.	F.	G.	H.	K.	
✓ <u>Benjo Lake</u>										1
✓ <u>Big Cypress Swamp</u>										2
✓ <u>Lake Thomas</u> (to N.)										3
✓ <u>Drexel</u>										4
<u>Drexel School</u>										5
✓ <u>Drexel Baptist Church</u>										6
✓ <u>King Lake</u>										7
✓ <u>Dupree Gardens</u>										8
✓ <u>Red Bug Lake</u>										9
✓ <u>Cabbage Swamp</u>										10
✓ <u>Dade City Shortcut</u> (part of State No. 209)										11
✓ <u>Cow Lake</u>										12
✓ <u>Drexel Station</u>										13
										14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Names underlined in red approved
by L. Heck on 4/10/44

RECORDS

Between January, 1942 and July, 1944, this Bureau completed 323 quadrangles. These maps have been published, or are in the process of being published on scales of 1:31,680 or 1:25,000. This series of quadrangles includes a land area of approximately 15,000 square miles. Incident to this work, a considerable volume of survey records and data has accumulated which will be filed for future reference. This material is filed as follows:

Registered and Filed in the Vault

Cloth-mounted copy of the published quadrangle.

published quadrangle at 1:20,000 scale
Black and white cloth-mounted copy of the ~~map-~~
~~manuscript.~~ This copy is filed to preserve
original survey detail shown on the manuscript
at 1:20,000 scale which may not have been shown
on the published sheet. For ~~political boundaries,~~
~~woodland, marsh, and swamp limits,~~ refer to the
published quadrangle for the finally adopted
~~positions.~~ outlines.

Descriptive Report.

Division.

Filed in the Photogrammetric Section - Surveys Branch

Field inspection photographs.

Contoured photographs (on which planetable contouring work was performed.)

Field edit sheet.

Descriptions of recoverable topographic stations
(Form 524), filed in ~~Reviewing Unit.~~ Section.

Supplementary traverse and level records.

Field notes, computations, lists of positions, and
tabulations of results of horizontal and vertical
accuracy tests.

Reproduction proof.

Correction sheet (copy of quadrangle showing in
red changes to be made when next printed.)

Check lists of work performed on each sheet in the
Washington Office during review, drafting, edit, and
reproduction.

Original celluloid manuscript.

Copies of specifications and all instructions
to field parties and field offices.

Filed in Reproduction Branch

Glass negatives of the color separation drawings.

Filed in the Library

~~Special report on field work by Commander K. T.
Adams, 1944.~~

Special report on office work by B. G. Jones, 1944.

Season's report on field work by Commander F. L.
Gallen, 1944.

Season's report on field work by Commander R. L.
Schoppe, 1944.

Delivered to the Army Map Service in accordance
with the contract

Film negatives and film positives of the color
separation drawings.

All color separation drawings.

~~Original celluloid manuscript.~~

A correction sheet consisting of a copy of the
first edition of the quadrangle with notes in red
indicating changes desirable at the next printing.

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8364

LOTZ QUADRANGLE

This quadrangle manuscript has been examined for completeness, accuracy, and conformity with the specifications. It is adequate for smooth drafting, reproduction and publication. Revisions found to be necessary in this office are discussed on the next page.

Horizontal and Vertical Accuracy

The nearest horizontal accuracy test was run in quadrangle T-8377.

The nearest vertical accuracy test was run in quadrangle T-8378.

Previous Surveys

This manuscript has been compared with the following previous topographic surveys of this Bureau and other agencies. This map is satisfactory to supersede the previous surveys over the common area.

There are no previous topographic surveys in this area.

Comparison with Nautical Charts Nos.

The manuscript has not been applied to the charts at the date of this review. The following comments are pertinent to the compilation and correction of nautical charts:

No nautical charts cover this area.

The following revisions of the map manuscript were found to be necessary and were accomplished as a part of this review:

Only changes of a minor nature were necessary during the review of this map manuscript.

Reviewed 3-21-44 By Lillian A. Lee
under direction of D. H. Benson

Inspected by B. G. Jones B.G. Jones 8/46

Examined and approved:

K.T. Adams
Chief, ~~Surveys Branch~~
Division of Photogrammetry

~~Chief, Topography Section~~

Robert M. Wether
Chief, Div. of Charts
Nautical Chart Branch
Raymond C. Egan
Chief, Div. of Coastal
Surveys