

# 8408

Diag'd. on diag.ch. No. 1256

Form 504

## U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

### DESCRIPTIVE REPORT

Type of Survey Air Photo Compilation

Field No. \_\_\_\_\_ Office No. T-8408

Horiz. & Vert. Accuracy Tests

#### LOCALITY

State Florida

General locality Tampa Bay Area

Locality Lower Myakka River Valley

State Park

1944

#### CHIEF OF PARTY

Comdr. Ray L. Schoppe

#### LIBRARY & ARCHIVES

DATE January 7, 1948

# 8408

## DATA RECORD

T- 8408

Quadrangle (II):

Project No. (II): 290

Field Office: Tampa, Fla.

Chief of Party: Ray L. Schoppe

Compilation Office: Tampa, Fla.

Chief of Party: Ray L. Schoppe

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

Copy filed in ~~Descriptive~~  
Report No. T- (VI)  
Div. Photogram Office Files

Completed survey received in office: 15 May 1944

Reported to Nautical Chart Section: ✓

Reviewed: 15 June 1944 Applied to chart No.

Date:

Redrafting Completed: 29 June 1944

Registered: <sup>Jan 1945</sup>  
~~17 Dec 1944~~

Published: 1944

Compilation Scale: 1:20,000

Published Scale: 1:31680

Scale Factor (III): 1.00

Geographic Datum (III): N.A. 1927 Datum Plane (III): M.S.L. 1929

Reference Station (III): MIAKKA, 1934

Lat.: 27°12'54.446"  
(1675.7 M)Long.: 82°16'03.169"  
(87.2 M)Adjusted  
~~Unadjusted~~

State Plane Coordinates (VI): Fla. W. Zone

X = 413,046.05 ft.

Y = 1,047,419.61 ft.

Military Grid Zone (VI) Zone "B"

STATISTICS (III)

Land Area (Sq. Statute Miles): 64.4

Shoreline (More than 200 meters to opposite shore): 3.7

Shoreline (Less than 200 meters to opposite shore): 17.5

Number of Recoverable Topographic Stations established:

Number of Temporary Hydrographic Stations located by radial plot:

Leveling (to control contours) - miles: 20

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 7-8408

This quadrangle, together with similar adjoining maps produced under Project C.S. 290C, 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, driveways, and numerous other points identifiable on the photographs.

### COMPILATION OF MANUSCRIPT

Compilation on the map manuscripts by radial plot methods (celluloid hand templates) 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.



DESCRIPTIVE REPORT TO ACCOMPANY  
QUADRANGLE T-8408  
Project CS 290 C  
Ray L. Schoppe, Comdr., Chief of Party

1. Description of the Area. This quadrangle is bounded on the north by north latitude  $27^{\circ}15'$ ; on the south by north latitude  $27^{\circ}7\frac{1}{2}'$  north latitude; on the west, by  $82^{\circ}22\frac{1}{2}'$  west longitude, and on the east by  $82^{\circ}15'$  west longitude. The land is part of a flat coastal plain with very poor natural drainage. There are many sink holes which are from one to three feet in depth.

About eighteen square miles of this quadrangle consists of the Myakka River Valley State Park. This area has been protected from fire and grazing and as a result is very well covered with native vegetation. In fact, so much so that a man has difficulty walking through it. The Myakka River runs through the area from north to south. This stream is a rather narrow and sluggish river and in the dry season ceases to flow.

Florida Highway 220 passes through the quadrangle from west to east in the northern end. In the southern two-thirds of this area there are no improved roads, travel being over the few cattle trails that exist.

The Atlantic Coast Line Railroad has a branch line running through the north third of the quadrangle.

2. Completeness of Field Inspection. The greater part of the field inspection in this quadrangle was done by a party of H. A. Duffy, Prin. Photo. Aid. Some of the areas that were not covered by Mr. Duffy were field inspected by this party at the time of the contouring. There are certain areas which were not actually field inspected, but the surrounding areas which were inspected show the same features on the photographs. It is believed that the compiler can refer to an inspected area nearby and clarify any questionable detail.

3. Interpretation of the Photographs. The low marshes, intermittent ponds, and perennial ponds and drainage show as dark areas on the pictures. The high places show light, and some are almost white. The woods and pasture trails appear as white, thread-like lines. Timbered areas are darker in tone and under a stereoscope show up well. Marshes and swamps are darker and have a mottled effect when compared with the sandy-bottomed intermittent ponds. The perennial ponds have a smoother appearance, and are very dark in color.

4. Horizontal Control. Horizontal control has been recovered by W. Bever, Jr. Topo. Engr., and J. A. Webb, Sr. Engr. Aid. Proper reports and recovery notes have been submitted to the compilation office.

8408

5. Vertical Control. Vertical control for the control of the planetable work was provided by J. W. Brett, Sr. Photo. Aid, and party. Supplemental level lines were run south to Florida State Highway 220 and its line of U. S. Coast and Geodetic Survey bench marks from the level lines within quadrangle T-8403. All these lines with the exception of the supplemental levels along Highway 220 were run north to south, and have junctions with the level lines in T-8403. All lines closed within the limits of error and were adjusted.

6. Contours and Drainage. Contouring was completed on photographs 11708, 11709, 11710, 11767, and 11769. Elevations were determined in the field to the nearest tenth of a foot and were plotted to the nearest foot. Because of the flatness of the terrain the elevations to the tenth of a foot were used in sketching the contour, and in several isolated instances an elevation appears as one that should be on the contour, and as a result appears to be misplaced.

Because of the flatness of the area, few hand level traverses were run. No area was too heavily wooded to restrict planetable work. The longest planetable traverse was 15,000 feet, and closed within .3 foot. The highest elevation was 38 feet; the lowest, 8 feet.

Items 7 through 12 are inapplicable to this quadrangle.

13. Landing Fields and Aeronautical Aids. There are no landing fields within the area. There is a Department of Commerce air beacon in the area, and it is shown on the proper photograph. There are two water tanks shown and their approximate heights are given. A fire lookout tower (Bee Ridge Fire Tower) proposed position is shown on photograph 11710. This height is 135 feet. The field edit party should check and locate this tower if completed at the time of the Field edit. Form 567 should be submitted for these.

14. Road Classification. All roads were classified at the time of the field inspection and the work done in accordance with the instructions.

15. See supplement by G. C. Fryer, Jr. Topo. Engr.

16. Buildings and Structures. All buildings and structures were classified according to instructions, except that in some cases buildings are shown even though they are in a bad state of repair. This was done, as these buildings are the only landmarks in this otherwise featureless area. It was believed these buildings are good landmarks.

17. Boundary Monuments and Lines. See supplement by G. C. Fryer, Jr. Topo. Engr.

18. Geographic Names. This is the subject of a separate report by J. W. Stingley, Jr. Topo. Engr. ✓

19. Data. Contours and planetable elevations are shown in black; levels, water lines, and other drainage are in blue. Areas worked in each photographs are outlined in red, and field inspection notes are also in red. Approximate limits of the quadrangle are in green on the photographs.

20. Accuracy Tests. A horizontal accuracy test will be run through a portion of this quadrangle by the geodetic traverse party under the supervision of Lieut. Comdr. G. W. Lovesee.

A vertical accuracy test is to be run at a later date.

Respectfully submitted:



W. F. Robohn  
Sr. Photo. Aid  
March 28, 1944

Approved:



Ray L. Schoppe  
Chief of Party



The political subdivision lines as shown on the photographs have been transferred to the photographs from a general highway and transportation map prepared by the Florida State Roads Department. This map is published on a small scale and an attempt has been made to transfer the political subdivision boundaries to the photographs as accurately as possible; but due to the varied scale of the photographs on which they were placed it is not to be assumed that they are correct. It is recommended they be checked in the field by the field edit party on the compilations that are to a true scale of 1:20,000.

Each photograph that touches or borders on a quadrangle should be examined to locate these boundaries. In many instances they will appear on the wings of the photographs.

This same rule must be followed in regard to the classification of bridges. Bridges for this quadrangle are shown, however, on photograph 11709.

Respectfully submitted:

*C.C. Fryer*

C. C. Fryer  
Jr. Topo. Engr.  
March 28, 1944

COMPILATION REPORT  
To Accompany  
SHEET NO. T-8408

26. CONTROL

Four control stations fall on the sheet and could be ~~used~~<sup>used</sup> to in the radial plot. These were adequate when used in conjunction with the control on adjacent sheets.

27. RADIAL PLOT

The main radial plot is covered in the compilation report for Sheet T-8407.

28. DETAILING

The detailing was done by two compilers on two projections. This was to hasten the review and transmittal to the Washington Office.

The photographs were clear and of fair scale. The field inspection was complete and as there was no detail of any importance on this sheet, no difficulty was experienced in the compiling.

29. SUPPLEMENTAL DATA

No maps and plans by other organizations were used to supplement the photographs or field inspection.

34. LANDMARKS AND AIDS TO NAVIGATION

One airways beacon falls on the sheet. It's scaled geographic position is listed on the attached Form 567.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

There are no existing standard topographic quadrangle maps with which a comparison can be made.

45. COMPARISON WITH NAUTICAL CHARTS

The area is not shown on any of the published nautical charts in detail.

Respectfully submitted,

*Ida R. Roberts*

Ida R. Roberts,  
Jr. Engr. Draftsman.

Forwarded by:

*Ray L. Schoppe*  
Ray L. Schoppe,  
Chief of Party.

*E. J. Gray*  
E. J. Gray,  
Sr. Engr. Draftsman.



FIELD EDIT REPORT  
To Accompany  
SHEET NO. T-8408

46. METHODS

In editing the map compilation, all roads were traversed by truck. Due to the lack of roads, walking was necessary in many places in order to make a visual inspection of all topographic features. One building added to the map compilation was plotted by measurements from topographic features.

Attention is called to the fact that the Road 4 UP beginning at the Ford, south of Fortneys Camp and running North on the East Bank of the Myakka River, and the South and East side of Lower Myakka Lake, then making a junction with Florida State Road 220 was omitted from the map compilation.

There is no citrus in the quadrangle. Where the trees are large and overlap the ground, they are classified as "A"; where they are scattered they are classified as "C"; where thick brush under 10 feet high, they are classified as "B".

The elevations shown on the map compilation were not checked against those shown on the field photographs, as the photographs were not accessible to the field edit party.

Black ink was used for all additions, corrections and classifications. Green ink was used for all deletions.

Contact was made with the Superintendent of Myakka State Park, Mr. Crowley, and he states that there are no perennial ponds in this quadrangle, other than the South Lake.

47. ADEQUACY OF THE MAP COMPILATION

The map compilation was found to be adequate and complete, except for the additions, corrections and deletions noted on the field edit sheet.

48. ACCURACY TEST

Covered by a separate report.

14. ROAD CLASSIFICATIONS

All road classifications were checked in the field and corrections were made where necessary. All roads were classified according to instructions.

15. BRIDGES

All bridges were previously classified, and were found to be adequate.

18. GEOGRAPHIC NAMES

A check was made of the geographic names in this quadrangle with the Superintendent of the State Park. He drove out in the field and marked the sites of Harris and Fortners Camps as well as identifying that section of the Park known as Shiner Town.

Mr. Crowley has been living in the State Park for thirty years.

Respectfully submitted,

Lewis F. Hepburn,  
Engineering Aid.

Forwarded by:

*Ray L. Schoppe*  
Ray L. Schoppe,  
Chief of Party.

VERTICAL ACCURACY TEST

QUADRANGLE 8498

PROJECT CS-290 C

A vertical accuracy test in this quadrangle was accomplished by the writer,  
on field photograph number 11710.

This test was accomplished by following a single contour and taking shots on  
the contour at intervals of approximately 150 feet, which are shown by red dots in  
prick holes. The test proves the contours are within the limits of the accuracy  
required.

Respectively submitted

*Hiram B. Wright*

Hiram B. Wright

# TESTS FOR HORIZONTAL ACCURACY

Quadrangles T-8408 & T-8407  
Project CS 290 C

This test consists of a second order traverse between triangulation stations Miakka and Bee Ridge. This traverse was run by the party of Lieut. Comdr. Lovesee, and consists of 28 test points, 14 of which were well defined and compiled.

11 of the compiled points are within the boundaries of quadrangle T-8408, and 2 are in quadrangle T-8407.

In the computations the test points are referred to as P.P. (Photograph Point No.) and in measurements on the map manuscript as M.M.

T-8408

Tabulation of Test points

Description of point	Test point number	Latitude ° ' "	Longitude ° ' "	Difference in mm.
Inter. of rd. & rd. 80 degrees	P.P. 2 M.M. 2	27 13 247.5 256.0	82 16 1615.5 1617.0	.441
Inter. of rd. & rd. 75 degrees	P.P. 3 M.M. 3	27 13 373.3 383.0	82 17 419.6 418.0	.485
Inter. of rd. & rd. 90 degrees	P.P. 4 M.M. 4	27 13 795.0 806.0	82 17 1604.2 1606.0	.457
E. end of Miakk R. Bridge	P.P. 5 M.M. 5	27 14	82 18 <del>inside</del>	B .13 (OK)
Inter. rd. & stream	P.P. 6 M.M. 6	27 14 459.5 459.0	82 18 1513.2 1514.0	.047
Inter. of rd. & rd. 90 degrees	P.P. 8 M.M. 8	27 14 621.7 625.0	82 19 30.0 33.0	.227
Inter. of rd. & stream	P.P. 9 M.M. 9	27 14 959.1 964.0	82 19 579.1 579.0	.245
Inter. of rd. & rd. 90 degrees	P.P. 10 M.M. 10	27 14 979.4 982.0	82 19 1065.6 1075.0	.487
Inter. of rd. & rd. 90 degrees	P.P. 11 M.M. 11	27 14 987.1 986.0	82 19 1262.3 1259.0	.177
Inter. of dch. & rd.	P.P. 12 M.M. 12	27 14 1033.6 1033.0	82 20 787.7 795.0	.364
Inter. of rd. & rd. 90 degrees	P.P. 13 M.M. 13	27 14 1085.3 1091.0	82 20 1038.0 1030.0	.491

Description of point	Test point number	Latitude ° ' "	Longitude ° ' "	Difference in mm.
Inter. of rd. & rd. 90 degrees	P.P. 14 M.M. 14	27 14 1224.4 1229.0	82 20 26.7 33.0	.394
Inter. of rd. & rd. 75 degrees	P.P. 17 M.M. 17	27 14 1566.9 1563.0	82 22 1481.4 1481.0	.196
E. end of bridge	P.P. 18 M.M. 18	27 14 1746.4 1743.0	82 23 243.5 255.0	.597 X

All points tested show a difference of less than 5 mm, except test point number 18. The horizontal accuracy is 93% which is within the limits of required accuracy.

Submitted by:

*L. W. Swanson*  
L. W. Swanson  
Lieut. Comdr.

Approved by:

*Ray L. Schoppa*  
Ray L. Schoppa  
Chief of Party



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

## LANDMARKS FOR CHARTS

TO BE CHARTED } STRIKE OUT ONE  
TO BE DELETED }

KS FOR CHARIS  
Tampa Photogrammetric Office  
Tampa, Florida

May 24, 1944

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

The positions given have been checked after listing.

**Ray L. Schoppa** *Chief of Party.*

[illegible]

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

T-8408

Remarks.

Decisions

1		USGB
2		
3		Road Maps
4		Railway Guide
5		269821 USGB
6		271822-23
7		272822-23
8		"
9		271824
10		272822-23 U.S.G.B.
11		"
12		"
13		"
14		"
15		" U.S.G.B.
16		"
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

# GEOGRAPHIC NAMES

Survey No. T-8408

## LOWER MYAKKA LAKE

quadrangle

Name on Survey

	A	B	C	D	E	F	G	H	K	
✓ Florida										1
✓ Sarasota County MANATEE CO										2
✓ State No. 220										3
✓ Atlantic Coast Line R.R.										4
✓ Myakka River										5
✓ Shiny Town										6
✓ Fortners Camp (at new position)										7
✓ Harris Camp										8
✓ Myakka Trail										9
✓ Lower Myakka Lake										10
✓ Deep Hole										11
✓ Sugar Bowl Road (No. 220)										12
✓ Vanderipe Slough										13
✓ Honore										14
✓ Myakka State Park (western part)										15
✓ Myakka State Forest (eastern part)										16
and Park										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Names underlined in red approved  
by L. Heck on 6/23/44



## 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.

Black and white cloth-mounted copy of the published quadrangle at 1:20,000 scale. 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 woodland, refer to the published quadrangle for the finally adopted outlines.

Descriptive Report.

### Filed in the Photogrammetric Division.

Field inspection photographs.

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

Field edit sheet.

Descriptions of recoverable topographic stations (Form 524), filed in Review 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.

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 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.

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- 8408

*Lower Hyakkohake, Fla.* 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

*Adequate. Reports on horizontal and vertical accuracy are included on preceding pages.*

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. *None*

Comparison with Nautical Charts Nos. *None*

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:

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

*Note of consequence*

Reviewed 15 June 1944 By L. Forrester  
under direction of D. H. Benson *per L.T.S.*

Inspected by B. G. Jones *B.G. Jones 1/48*

Examined and approved:

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

~~Chief, Topography Section~~

*[Signature]*  
Chief, ~~Div. of Charts~~  
*Nautical Chart Branch*  
*[Signature]*  
Chief, Div. of Coastal  
Surveys *per*