

8403

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-8403

Horn's Acc'y Test

LOCALITY

State Florida

General locality Tampa Bay Area

Locality Sarasota County

MIAKKA QUAD

194 4

CHIEF OF PARTY

Comdr. Ray L. Schoppe

LIBRARY & ARCHIVES

DATE January 7, 1948

B-1870-1 (1)

8403

DATA RECORD

T# 8403

Quadrangle (II): MIAKKA

Project No. (II): 290

N 2715-WP215/7.5

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: 6/13/44 Applied to chart No. Date:

Redrafting Completed: 28 June, 1944

Registered: ~~Jan 48~~ ~~11 Dec 1947~~ Published: 1944

Compilation Scale: 1:20,000 Published Scale: 1:31,680

Scale Factor (III): 1.00

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

Reference Station (III): VERNA, 1934

Lat: $27^{\circ}21'53.943''$ (1660.3M) Long: $82^{\circ}16'06.347''$ (174.1M) ~~Adjusted~~
~~Unadjusted~~

State Plane Coordinates (VI):

Fla. W Zone

X = 412,576.15 ft.

Y = 1,101,895.81 ft.

Military Grid Zone (VI) B

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
11711	11/12/42		1:20,000	Inshore Sheet
11712	"		"	
11713	"		"	
11749	"		"	
11750	"		"	
11751	"		"	

Tide from (III): --

Mean Range: --

Spring Range:--

Camera: (Kind or source) U. S. C. & G. S. Nine-Lens

Contours and

Field Inspection by: A. W. P. Rogers

Date: Feb. 1944

Field Edit by: *Ben O. Bryant*

Date: 1944

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

Projection and Grids ruled by (III) Wash. Office Date:

" " " checked by: " " date: 1944

Control plotted by: M. Rutkin date: Mar. 1944

Control checked by: J. H. S. Billmyer date: Mar. 1944

Radial Plot by: Tampa Office Personnel date: Mar. 1944

Detailed by: Enola N. Cross date: Apr. 1944

Reviewed in compilation office by: J. A. Giles date: May 1944

Elevations on Field Edit Sheet
checked by: C. M. Allen

date: Mar. 1944

STATISTICS (III)

Land Area (U.S. Statute Miles): 64.4

Shoreline (More than 200 meters to opposite shore):

6.0 Statute Miles

Shoreline (Less than 200 meters to opposite shore):

15.2 Statute Miles

Number of Reconnaissance Topographic Stations established:

Number of Temporary Hydrographic Stations located by radial plot:

Leveling (to control contours) - miles: 111.6

House numbers indicate whether the item is to be endorsed 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 T-8403

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, drive-ways, 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-8403
Project CS 290 C
Ray L. Schoppe, Comdr., Chief of Party

1. Description of the Area. This quadrangle, lying in Sarasota County, Florida, is bounded on the north by north latitude $27^{\circ}22\frac{1}{2}'$, on the east by $82^{\circ}15'$ west longitude, on the south by north latitude $27^{\circ}15'$, and on the west by west longitude $82^{\circ}22\frac{1}{2}'$. Elevations vary from 96 feet above sea level in the northeast corner to 13 feet above sea level in the southeast, at the shoreline of Myakka Lake.

The Myakka River enters, and cuts across the southeast corner of the quadrangle, broadens into the Myakka Lake, and thence flows southwest into the Gulf of Mexico. With the exception of the Myakka River State Park, an area comprising approximately 15,000 acres, the quadrangle is range land, dotted with intermittent ponds. The general slope is to the south and southeast, toward Myakka River. The only other drain of importance is locally known as Howard Creek, which forms in the north central portion in the Orbow Ranch country, and flows to the south through the Indian Head Swamp, thence to the southeast, and into Myakka Lake.

A branch line of the Atlantic Coast Line Railroad runs through the southwest corner of the quadrangle.

The "Hi Hat" ranch has checkerboarded a large part of the quadrangle with trails into quarter section blocks. Additional new cultural developments are shown with appropriate notes on photograph 11697.

2. Completeness of Field Inspection. Field inspection was completed in accordance with instructions at the time the contouring was done. Classification and identification of pertinent features has been completed.

3. Interpretation of the Photographs. Wooded areas appearing in lighter casts are palmetto, and dark solid densities, such as are found in "bay-heads" are conspicuously heavy deciduous, usually pin oak and some swamp maple, indicating a flooded condition at least part of the year. A large majority of the ponds are intermittent. Those showing a fuzzy, mottled case in the center, however, indicate marsh with lily pads, marsh grass, and sometimes a deciduous brush growth which thrives in such boggy areas. A good example of this is found on photograph 11712, in the portion southeast of the Indian Head swamp.

4. Horizontal Control. Recovery and identification cards have been completed according to instructions by J. A. Webb, Sr. Photo. Aid, and party, and forwarded to the compilation office.

5. Vertical Control. Vertical control for the planetable work was completed by J. W. Brett, Sr. Engr. Aid, and party. Supplemental level lines were run between U. S. Coast and Geodetic Survey bench marks, using standard methods. All lines closed within the required limits of accuracy, and all lines were adjusted. An attempt was made to place temporary bench marks where they would be most useful to the contour party.

6. Contours and Drainage. The contouring of this quadrangle was done by standard planetable methods on photographs 11711, 11713, 11714, 11715, 11696, and 11697. All closures were within the prescribed limits of accuracy. In the northern half of the quadrangle where there were few trails or cross roads, special care was taken to observe and make any necessary changes to facilitate small horizontal closures, by checking scale factor between sharply identifiable points of ponds.

Most of the intermittent streams were easily discernible on the photograph, but where obscure and doubtful, inspection was made by pacing the distance from identifiable points. Most intermittent streams form deltas at the bay heads and have no regular channel, due to the flatness of the country. Where inaccessible, the probable drainage symbol was used.

Items 7, 8, 9, and 10 are inapplicable to this quadrangle.

11. Landmarks and Aids to Navigation. There are no landmarks recommended for charting within the limits of this quadrangle.

12. Item 12 is inapplicable to this quadrangle.

13. Landing Fields and Aeronautical Aids. There are no landing fields within the quadrangle, unless the cleared area approximately 3,000 feet southeast of Myakka Lake in the Myakka State Park was layed out for this purpose as an auxiliary landing field. This plot of ground could be used for the purpose.

14. Road Classification. All roads have been classified according to instructions, and the symbol "Grd Crss" shown at railroad intersections.

15. Bridges. Bridges have been classified according to instructions by C. C. Fryer, Junior Topographic Engineer, and are shown on photographs 11697 and 11712.

16. Buildings and Structures. All buildings to be shown have been circled in red. Deletions are also in red.

17. Boundary Monuments and Lines. Political subdivisions are shown on photograph 11712. The boundary line of the Myakka River State Park is shown in black on the photograph, using one dot and dash.

18. Geographic Names. This will be the subject of a separate report.

19. One new private road is under construction, and is shown on photograph 11712. When complete, it should have at least a 4UP classification.

Another road under construction is shown on photograph 11697. This road leads from Florida State highway 18 to the Hi Hat Ranch. The right-of-way swath is 75 feet wide through timbered land. This road, when complete, should be classified at least 3P.

Near the Hi Hat Ranch headquarters, three ponds are being enlarged, changing them from intermittent to perennial. These ponds will be kept filled by centrifugal pumps. A ditch, or canal, ten feet wide, will connect the three ponds. Three other intermittent ponds just northeast of a large "Y" intersection $1\frac{1}{2}$ mile north of the Hi Hat Ranch headquarters are to be changed to perennial ponds, with connecting ditches.

The reforested areas are delineated in red on the photographs. These areas now are classified as EW, whereas in two more years they will have become ZE. These areas are all on the Hi Hat Ranch property.


Deletions of old roads and trails are in red ink. Some of the intermittent ponds were shown with shaded parallel blue lines, and others with the optional symbol.


48. Accuracy Tests. A vertical accuracy test will be run over a portion of this quadrangle, and a report will be submitted.

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

Respectfully submitted:

Approved:


Ray L. Schoppe
Chief of Party


A. W. P. Rogers
Photo. Aid
March 15, 1944

COMPILATION REPORT
To Accompany
SHEET NO. T-8403

26. CONTROL

One triangulation and four traverse stations fall on this sheet and were used for control. All stations could be held to in the radial plot, and were adequate.

27. RADIAL PLOT

The main radial plot, of which this sheet was a part, is discussed in the compilation report for Sheet No. T-8399.

28. DETAILING

The photographs were clear and of fair scale. Although this is the compilers' first sheet, no difficulty was experienced as there was very little detail of much importance, and the field inspection was sufficient for detailing.

29. SUPPLEMENTAL DATA

There were no maps or plans by other organizations used to supplement the photographs or field inspection.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

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

45. COMPARISON WITH NAUTICAL CHARTS

None of the published nautical charts cover the area in detail.

Respectfully submitted,

Enola N. Cross

Enola N. Cross,
Air Photo. Observer.

Forwarded by:

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

FIELD EDIT REPORT
To Accompany
SHEET NO. T-8403

46. METHODS

In editing the map compilation, all roads and streets were traversed by truck and visual inspection was made of all topographic features. All buildings, roads, ditches, etc. that were added to the map compilation were plotted by measurements from topographic features.

Attention is invited to the areas that show ponds labeled within the area of intermittent ponds. This edit party visited quite a few of these ponds and there was no water to be found. Also this party conferred with several of the ranchers that ride over this area frequently and it was concluded that there has been no water in these ponds for past two or three months; therefore, the ponds were deleted and left as intermittent ponds.

Black ink was used for all additions and classifications; green ink was used for all deletions.

All additions, corrections, and deletions are to be found on the ozalid print of the map compilation.

47. ADEQUACY OF THE COMPILATION

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

48. ACCURACY TESTS

Covered by a separate report.

14. ROAD CLASSIFICATIONS

All road classifications were checked in the field and corrections were made where necessary. All roads not previously classified were classified according to instructions.

18. GEOGRAPHIC NAMES

It will be noted that two Gum Sloughs are shown on the sheets. These were checked and found to be correct by local usage. ✓ LA

Forwarded by
Ray L. Schoppe
Ray L. Schoppe,
Chief of Party.

Respectfully submitted,

Ben O. Bryant,
Sr. Photo. Aid.

TESTS FOR HORIZONTAL ACCURACY

Quadrangle T-8403
Project CS 290C

This test consists of a second order traverse between triangulation stations Verna and Goodrich. It contains 16 test Points, 14 of which are well defined and compiled, all of which are within the boundaries of Quadrangle T-8403.

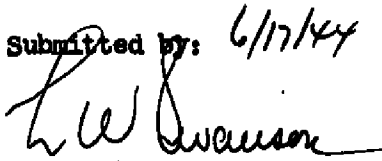
The traverse closure is on part in 33,263, and a discrepancy of .432 meters was adjusted through the traverse. The test points are referred to in the computations as P.P. (Photograph point number) and the test points are scaled from the map manuscript and referred to as M.M.

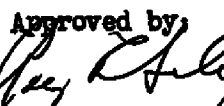
Tabulation of Test points

Description of point	Test point number	Latitude ° ' "		Longitude ° ' "		Difference in mm.
Inter. of rd. & dch. 65 degrees	P.P. 1 M.M. 1	27°	21' 801.0 795.9	82°	16' 200.0 200.11	.255
Inter. of rd. & rd. 90 degrees	P.P. 2 M.M. 2	27	20 1817.0 1817.2	82	16 222.0 255.9	.197
Inter. of rd. & rd. 90 degrees	P.P. 3 M.M. 3	27	20 516.0 517.4	82	16 284.0 283.9	.071
Inter. of rd. & rd. 90 degrees	P.P. 4 M.M. 4	27	20 72.0 72.9	82	16 296.0 294.1	.106
Inter. of rd. & dch. 90 & 60 degrees	P.P. 5 M.M. 5	27	20 88.0 90.8	82	17 1381.0 1382.7	.167
Inter. of rd. & rd. 90 degrees	P.P. 6 M.M. 6	27	20 100.0 100.0	82	17 546.0 594.0	2.400 X
Inter. of rd. & rd. 90 degrees	P.P. 7 M.M. 7	27	20 100.0 100.9	82	17 664.0 662.5	.027
Inter. of rd. & dch. 90 degrees	P.P. 8 M.M. 8	27	20 124.0 123.1	82	17 796.0 795.8	.227
Inter. of rd. to driveway 90 degrees	P.P. 9 M.M. 9	27	20 124.0 123.1	82	18 796.0 795.8	.045
Inter. of rd. & rd. 65 degrees	P.P. 11 M.M. 11	27	20 700.0 706.7	82	19 1068.0 1064.3	.382
Inter. of rd. & dch. degrees	P.P. 12 M.M. 12	27	20 582.0 578.0	82	19 1517.0 1518.7	.217

Description of point	Test point number	Latitude °	Longitude °	Difference in m.m.
Inter of r.d. & rd. 80 degrees	P.P. 14 M.M. 14	27 20 550.0 548.2	82 20 1437.0 1435.2	.127
Inter. of rd. & firetrail 90 degrees	P.P. 15 M.M. 15	27 20 546.0 546.3	82 21 908.0 905.5	.126
Inter. of rd. & fire- break, 90 degrees	P.P. 16 M.M. 16	27 20 554.0 549.7	82 22 64.0 62.2	.236

The manuscript error is less than .5 mm at all points tested except for test point 6; of 93 % of the points tested were within the required limits of accuracy.

Submitted by: 6/17/44

 L. W. Swanson
 Lieut. Comdr.

Approved by:

 Ray L. Schoppe
 Chief of Party

T-8403

Remarks.

Decisions

1	With respect to title of this quadrangle, the form MIANKA is usage for the village for which it is named.	USGB
2	All other names in area use spelling MYANKA.	
3		
4		Road Maps
5		USGB
6		
7	The area which is "park" is the western and northwestern part; the "forest" is east and southeast.	272822-23 USGB
8		" "
9		"
10		" USGB
11		"
12		271824
13		272822-23
14		"
15		273822-23
16		"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26		
27		

GEOGRAPHIC NAMES

Survey No. T-8403

MIAKKA quadrangle

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	
Florida ✓									1
Sarasota County ✓	Manatee County ✓								2
Atlantic Coast Line R.R. ✓									3
State Nos. 18, 180 ✓									4
Myakka River ✓									5
									6
Myakka State Park ✓									7
Myakka State Forest ✓	or Myakka State Forest and Park								8
Vanderipe Slough ✓									9
Lake Myakka ✓	(not Upper Lake Myakka)								10
Howard Creek ✓									11
Myakka Trail ✓									12
Utopia ✓	(R.R. Sta. near Hi Hat Ranch)								13
Hi Hat Ranch ✓									14
Indian Creek ✓									15
Indian Creek Swamp ✓									16
Gum Slough ✓	(name applied to two separate places on Field Edit Sheet---see report verifying this usage)								17
Myakka Road ✓	(No. 18)								18
Ox Bo Ranch ✓									19
T.C. Ranch ✓									20
Verna Road ✓	(No. 180)								21
Miakka ✓									22
Miakka School ✓									23
Miakka Cemetery ✓									24
Miakka Methodist Church ✓									25
									26
									27

Names unchanged and approved
by L. Heckman 6/15/44

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- 8403

Mickka, 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

Horizontal accuracy test report enclosed in this report

No vertical accuracy test was made on this map.

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:

None of consequence

Reviewed 13 June 1944 By Howard J. Murray
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~~
Naval Chart Branch
[Signature]
Chief, Div. of Coastal
Surveys *142*