

8405

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-8405

West Endy Test

LOCALITY

State Florida

General locality Tampa Bay Area

Locality Sarasota County

Sarasota Quad

1944

CHIEF OF PARTY

Comdr. Ray L. Schoppe

LIBRARY & ARCHIVES

DATE January 7, 1948

B-1870-1 (1)

8405

DATA RECORD

T- 8405

Quadrangle (II): SARASOTA, Fla.

Project No. (II): CS 290 C

N2715-W8230/7.5

Field Office: Tampa, Florida

Chief of Party: Ray L. Schoppe

Compilation Office: Tampa, Florida 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: 6/17/44

Applied to chart No.

Date:

Redrafting Completed: 30 June 1944

Registered: Jan 1945
~~18 Dec 1947~~

Published: 1944

Compilation Scale: 1:20,000

Published Scale: 713 x 880

Scale Factor (III): 1.00

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

Reference Station (III): TERRACE, 1934

Lat.: 27°20'05.921" ✓ Long.: 82°31'51.143" ✓ Adjusted
(182.2 M) (1405.9 M) Unadjusted

State Plane Coordinates (VI):

Fla. St. Zone

X = 327,647.81 ft.

Y = 1,091,261.14 ft.

Military Grid Zone (VI)

Mil Grid Zone B

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
11492	11/12/42		1:20,000	Shoreline was detailed
11493	"		"	on 1:10,000 scale as
11494	"		"	part of Project 242.
11479	"		"	

Tide from (III): --

Mean Range: --

Spring Range:--

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

Contours and

Field Inspection by: Walter F. Robohn,
Sr. Photo. Aid

date: January, 1944

Field Edit by: *Lewis F. Hapburn*
Ben O. Bryant

date:

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

Projection and Grids ruled by (III) Wash. Office

date:

" " " checked by: " "

date:

Control plotted by: M. Rutkin

date: March, 1944

Control checked by: J. H. S. Billmyer

date: March, 1944

Radial Plot by: Tampa Office Personnel

date: March, 1944

Detailed by: E.A. Worrell, Asst. Engr. Draftsman

date: April-May, 1944

Reviewed in compilation office by: A. L. Kidwell

date: May, 1944

Elevations on Field Edit Sheet

checked by: *checked from field photos J.R.*

date: 6/12/44

STATISTICS (III)

Land Area (Sq. Statute Miles): 21.7 (Not compiled on 1:10,000 scale)

Shoreline (More than 200 meters to opposite shore): 0

Shoreline (Less than 200 meters to opposite shore): 4.9

Number of Recoverable Topographic Stations established: 0

Number of Temporary Hydrographic Stations located by radial plot: 0

Leveling (to control contours) - miles: 8/

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:

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

Revision of the planimetric base map from the new photographs and addition of contours and corrections obtained by the field parties. No radial plot was made for this work.

FIELD EDIT

Comparison of a copy of the corrected 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-8405
Project CS 290 C

1. Description of the Area. The geodetic bounds of this quadrangle are as follows: on the north, latitude $27^{\circ}22.5'$ N; on the south, latitude $27^{\circ}15'$ N.; on the west by longitude $82^{\circ}37.5'$ W; and on the east by longitude $82^{\circ}30'$ W. The land varies from a flat coastal plain with accompanying tidal marshes and streams, to gently rolling country, with good natural drainage. In the low coastal plain area there are many sink holes which are from one foot to five feet below normal ground elevation.

The city of Sarasota lies within the quadrangle limits. It is a well developed urban area, of approximately 12,000 population. In the outlying districts of the city there are many paved streets, nearly covered with grass, palms, and other vegetation, because they have been in disuse. The quadrangle is traversed by the Atlantic Coast Line and Seaboard railroads, U. S. Highway 41, Florida highways 220 and 118. Along the beaches there are numerous cottages, hotels, and other resort-type buildings.

This quadrangle is composed of about forty square miles of land area, and about 22 square miles of water (Gulf of Mexico and Sarasota Bay).

2. Completeness of Field Inspection. Except for an area of about three-fourths square mile in the extreme northeast corner (marked on photograph 11479), which was inspected by this field party, the field inspection of the quadrangle was completed by a field party under the direction of Lieut. Comdr. K. G. Crosby. In the area inspected by this party, roads, houses, timber, and water ways were classified according to instructions.

3. Interpretation of the Photographs. The low marshy sink holes show up as dark areas on the photographs. The higher areas appear as light spots, in some cases nearly white. Dredged ditches are easy to mistake for roads, because of the white sand spoil banks which appear as white lines similar to those indicating a road. All ditches are marked, and attention called to their presence.

The thick vegetation along swampy areas appears much darker than the surrounding woods, and it is fairly easy to identify this change on the photographs.

4. Horizontal Control. This will be the subject of a separate report.

5. Vertical Control. Fifteen miles of the supplementary fly levels were run in this quadrangle by C. B. Taylor, Jr., Junior

8

Topographic Engineer; and the remaining 86 miles were run by W. F. Robohn, Sr. Photo. Aid, who also contoured the area. A small builder's level and stadia type rods graduated to tenths were used, the levelman interpolating to hundredths. Elevations were placed on street intersections or some point readily distinguishable on the photographs. The levels are within the required limits of accuracy.

One loop had a closure of .59, as this loop was run on sand roads and in the late afternoon the error was believed to be cumulative, due to poor turning points and refraction. The line was not rerun, but was adjusted, (RB line), by applying to each setup the proportional part of the error.

All bench marks known to be in the area were searched for and recovery notes submitted by W. Bever, Jr. Topo. Engr. Besides U. S. Coast and Geodetic Survey bench marks, a few U. S. Engineer Department bench marks were used in running the level lines.

6. Contours and Drainage. Contouring was accomplished by standard methods, using the standard planetable and alidade. Elevations determined in the field were to the nearest tenth of a foot, and plotted to the nearest foot. Due to the flat nature of the terrain, the elevations to the nearest tenth were used in draw-the contours; and in a few isolated instances, an elevation appears as one which should be on the contour. These elevations are shown to the nearest foot, and therefore appear to be out of place.

Because of the flatness of the area, very few hand level traverses were run. There were no areas too heavily wooded to interfere with planetable operations.

The largest closure of planetable traverse and level loops was .7; however, this was a short traverse, and the contour was checked from another traverse. There were no contours on the off-shore keys.

7. Mean High-Water Line. This will be the subject of special investigation by party under direction of Lieut. Comdr. Crosby.

8. Low-Water Line. This will be the subject of special investigation by party under direction of Lieut. Comdr. Crosby.

9. Wharves and Shoreline Structures. This will be the subject of special investigation by party under direction of Lieut. Comdr. Crosby.

10. Details Offshore from the High-Water Line. This will be the subject of special investigation by party under direction of Lieut. Comdr. Crosby.

11. Landmarks and Aids to Navigation. This will be the subject of special investigation by party under direction of Lieut. Comdr. Crosby.

12. Hydrographic Control. This will be the subject of special investigation by party under direction of Lieut. Comdr. Crosby.

13. Landing Fields and Aeronautical Aids. The Sarasota Municipal Airport lies within the limits of this quadrangle. It is marked, and is equipped to handle light planes, but has no paved runways or night flying facilities.

14. Road Classification. This will be included in the report to be made by party under direction of Lieut. Comdr. Crosby.

15. Bridges. This is to be completed at a later date.

16. Buildings and Structures. This will be included in the report to be made by party under direction of Lieut. Comdr. Crosby.

17. Boundary Monuments and Lines. This work was accomplished by H. B. Wright, Photo. Aid, and is shown on photograph 11479.

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

19. Data. Contours and planetable elevations are shown on the photographs in black; level elevations, water lines and drainage are shown in blue; and field inspection is shown in red.

20. Accuracy Tests. A vertical accuracy test was made on this quadrangle and the report has been submitted.

Respectfully submitted:

Walter F. Robohn

Walter F. Robohn
Sr. Photo. Aid.
February 3, 1944

Approved:

Ray L. Schoppe

Ray L. Schoppe
Chief of Party

COMPILATION REPORT
To Accompany
SHEET NO. T-8405

26. CONTROL

25 control stations fall on the sheet. One of these could not be identified accurately; but was in a well controlled area. Two stations, "Tank, Elevated Municipal, North, 1944" and "Tank, Elevated Municipal, South, 1944" had no geographic positions at the time of the radial plot so were cut in as secondary control. Positions were later furnished by War Mapping Party No. 2 and when plotted, agreed exactly with the points "cut in".

+ New Pass 3, 1944

16 USE
10 GXS

27. RADIAL PLOT

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

28. DETAILING

This sheet was detailed as far west as U. S. Highway 41. The shoreline and area west of the highway was detailed on a scale of 1:10,000 as part of Project 242. The 1:10,000 compilation was reduced by pantograph and the junction transferred to the 1:20,000 sheet. Very little difficulty was had in making the junction check.

The photographs were clear and of fair scale. The field inspection was adequate. Although there is a lot of important detail in the vicinity of the city of Sarasota, no trouble was experienced in the detailing.

29. SUPPLEMENTAL DATA

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

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

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

45. COMPARISON WITH NAUTICAL CHARTS

In comparing the sheet with U.S.C. & G.S. Chart No. 1256, (published May 1928 on a scale of 1:80,000), no discrepancies of any importance could be noted due to the large difference in scales. Very little of the detail on the 1:20,000 sheet is shown on the published chart.

Respectfully submitted,

E. Alberta Worrell

E. Alberta Worrell,
Asst. Engr. Draftsman

Forwarded by:

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

FIELD EDIT REPORT
To Accompany
SHEET NO. T-8405

46. METHODS

In editing the compilation, all roads and streets were traversed by truck, and a visual inspection of the topographic features was made. In cases of the off-lying islands, an inspection was made from the mainland nearest the island; but no boat was employed in the inspection of the shoreline, etc. All buildings, roads, ditches, etc., that were added to the compilation were plotted by measurements from topographic features.

All additions, corrections and deletions to be found on the lithograph print of the map compilation. Red ink was used for additions, classifications and corrections; green ink was used for all deletions.

All citrus was classified by the field edit party. Where the trees were large and overlaid the ground, there were classified as "A"; where they were small and scattered, they were classified as "C". *shown only as orchard on published quad.*

All corrections and deletions will be found on five sheets: two ozalids and three lithograph sheets.

(only two lithograph sheets received. see below)

That portion beginning at 27° 19.7' north on the mainland, and that portion northwest of Big Sarasota Pass on the keys was edited by L. F. Hepburn, Engr. Aid. The remaining portion was edited by Mr. B. O. Bryant, Sr. Photo. Aid.

The north half of Longboat Key has not been field edited, due to the fact the lithograph print was badly smudged. It will, however, be field edited as soon as a contact print reaches the field party.

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.

checked

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. Attention is called to a part of Highway just north of Sarasota high school which was drawn in by field edit party. This should be checked against the photographs. *Done*

13. ACCURACY TEST

Covered by a separate report. *Not in yet*

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.

Respectfully submitted,

Lewis F. Hepburn,
Engineering Aid.

Ben O. Bryant,
Sr. Photo. Aid.

Forwarded by:

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

VERTICAL ACCURACY TEST
Quadrangle T-8405
Project CS 290 C

A vertical accuracy test was run on quadrangle T-8405 within the city limits of Sarasota, Florida, on February 3, 1944, by Sam C. Dionisio, Senior Engineering Aid, and party. This area was contoured by Walter F. Robohn, Senior Photogrammetric Aid, on photograph 11479.

A portion of a twenty-foot contour was tested, and the accuracy was found to be within the required limits of the instructions.

The vertical accuracy test is inked in yellow on photograph 11479. Dots on the photograph indicate the twenty-foot elevations ascertained in the field.

Submitted by:

Sam C. Dionisio
Sr. Engr. Aid
Feb. 3, 1944

Approved:

Ray L. Schoppe
Chief of Party

Remarks.

Decisions

1		273825
2		"
3		"
4		" USQB
5		"
6		"
7		"
8		"
9		"
10		"
11		" USQB
12		"
13		"
14		"
15		"
16		"
17		273826
18		" USQB
19		"
20		273825
21		"
22		"
23		"
24		"
25		"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8405

GEOGRAPHIC NAMES											
Survey No. T-8405											
		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		
2	Name on Survey	A	B	C	D	E	F	G	H	K	
✓	<u>Siesta Bridge</u>	✓									1
✓	<u>Fishery Point</u>	✓									2
✓	<u>Sarasota Heights</u>	✓									3
✓	<u>Hudson Bayou</u>	✓									4
✓	<u>Cedar Point</u>	✓									5
✓	<u>Sarasota</u>	✓	(Many buildings, schools, churches, etc, on Field Edit Sheet not listed)								6
	<u>Sarasota Municipal Airport</u>										7
✓	<u>Ringling Causeway</u>	✓									8
✓	<u>Payne Terminal</u>	✓									9
✓	<u>Hog Creek</u>	✓									10
✓	<u>Whitaker Bayou</u>	✓									11
✓	<u>Indian Beach</u>	✓									12
✓	<u>Stephens Point</u>	✓									13
✓	<u>Beverly Terrace</u>	✓									14
✓	<u>Primitive Baptist Church</u>	✓									15
✓	<u>Lockwood Ridge Road</u>	✓									16
✓	<u>Sarasota Bay</u>	✓									17
✓	<u>Longboat Key</u>	✓									18
✓	<u>Cranes Bayou</u>	✓	(a small section of it)								19
✓	<u>Quick Point</u>	✓									20
✓	<u>New Pass</u>	✓									21
✓	<u>Ocon Key</u>	✓									22
✓	<u>St. Armand Key</u>	✓									23
✓	<u>Bird Key</u>	✓									24
✓	<u>Otter Key</u>	✓									25
✓	<u>The Lido</u>	✓									26
✓	<u>Carol Isles</u>	✓									27

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

M 234

(Many buildings, schools, churches, etc, on Field Edit Sheet not listed)

(a small section of it)

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

T-8405

1

Remarks

Decisions

1		
2		USCB
3		
4		Railway Guide
5		"
6		Road Maps
7		"
8		
9		272825
10		"
11		"
12		"
13		"
14		"
15		" USCB
16		" "
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		273825
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8405

SARASOTA quadrangle

Name on Survey

	A	B	C	D	E	F	G	H	K	
✓ <u>Gulf of Mexico</u>	✓									1
✓ <u>Florida</u>	✓									2
✓ <u>Sarasota County</u>	✓									3
✓ <u>Atlantic Coast Line RR</u>	✓									4
✓ <u>Seaboard Air Line Ry</u>	✓									5
✓ <u>U.S. No. 41/Fla No. 5</u>		(Tamiami Trail)								6
✓ <u>Fla. Nos. 18, 220</u>										7
										8
✓ <u>Little Sarasota Bay</u>	✓	(a section of it)								9
✓ <u>Stickney Point Bridge</u>	✓									10
✓ <u>Clark Road</u>	✓									11
✓ <u>Swift Road</u>	✓									12
✓ <u>Sawyer Road</u>	✓									13
✓ <u>Mangrove Out</u>	✓									14
✓ <u>Phillippe Creek</u>	✓									15
✓ <u>Sarasota Key</u>	✓									16
✓ <u>Sarasota Beach</u>	✓									17
✓ <u>Sarasota Point</u>	✓									18
✓ <u>Big Sarasota Pass</u>	✓									19
✓ <u>Roberts Bay</u>	✓									20
✓ <u>Hayden</u>	✓									21
✓ <u>Hansen Bayou</u>	✓									22
✓ <u>Bailey Hall</u>	✓									23
✓ <u>Out of Door School</u>	✓									24
✓ <u>Bay Island</u>	✓									25
<u>Bay Island College</u>										26
✓ <u>Siesta</u>	✓									27

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-8405

Sarasota 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

*No horizontal accuracy test on this quadrangle
Vertical ~~test~~ accuracy test report included on
a preceding page.*

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.

No check made at time of review

Comparison with Nautical Charts Nos. 1256

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 comments necessary

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 17 June 1944 By Jack Riber
under direction of D. H. Benson *per L.T.S.*

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

Examined and approved:

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

~~Chief, Topography Section~~

[Signature]
Chief, Div. of Charts
~~Nautical Chart Branch~~

[Signature]
Chief, Div. of Coastal
Surveys