

# 8407

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. 290-G Office No. T-8407

### LOCALITY

State Florida

General locality Tampa Bay Area

Locality Sarasota County

1942-44

### CHIEF OF PARTY

Ray L. Schoppe

### LIBRARY & ARCHIVES

DATE May 24, 1949

B-1870-1 (1)

# 8407

LARK HIXON

T# 8407

Quadrangle (II): LAUREL

Project no. (II): 290-C

2707.5 - 8222.5 / 7.5

Field Office: Tampa, Fla.

Chief of Party: Ray L. Schoppe

Compilation Office: Tampa, Fla. Chief of Party: Ray L. Schoppe

Instructions dated (I: I T): 11/16/42

Copy filed in <sup>Division of</sup> ~~Geographic Names~~ <sup>Photogrammetry Office Files</sup>

Complete survey received in office: 15 May 1944

Reports to Nautical Chart Section

Reviewed: 14 June 1944 Applied to chart No. Date:

Redrafting Complete: June, 1944

Registered: 26 Oct., 1948 Published: May, 1945

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

Scale Factor (II): 1.00

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

Reference Station (IIII) OSPREY, 1935

Lat: 27°11'32.599" (1003.4M) Lon: 82°29'36.651" (1008.8M) Adjusted

State Plane Coordinates (VI): Fla. West Zone

X = not available Y =

Military Grid Zone (VI) Mil. Zone B

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>State of Tide</u>
11496	11/12/42	Mid-Day	1:20,000	Mean low-water
11497	"	" "	"	
11498	"	" "	"	
11622	"	" "	"	
11698	"	" "	"	
11699	"	" "	"	
11700	"	" "	"	

Tide from (III): Predicted Tides, Sarasota Point

Mean range: 1.3 ft. Spring range: 1.7 ft.

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

Field Inspection by: C. A. Moritz  
L. C. Bonham

Date: Mar., 1944

Field Edit by: *Ben O. Bryant*

Date: *June, 1944*

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

Projection and Grids ruled by (III) Wash. Office

Date:

checked by " "

Date:

Control plotted by: C. A. J. Pauw, Prin. Photo. Aid

Date: Dec, 1943

Control checked by: Adelaide L. Parker, Engr. Drafts.

Date: Dec, 1943

Radial Plot by: Tampa Office Personnel

Date: May, 1944

Detailed by: Ben O. Bryant, Sr. Photo. Aid (North $\frac{1}{2}$ )  
Marion T. Gwinn, Photo. Aid (South $\frac{1}{2}$ )

Date: May, 1944

Reviewed in compilation office by: M. M. Slavney

Date: May, 1944

Elevations on *Map Manuscript*  
~~World Face Sheet~~  
checked by *against field photo graphs.*  
*F. D. Evans.*

Date: *6/14/44*

STATISTICS (1951)

Total Area (by Statute 1949) 68.5 (Includes area on T-8406)

Area under (one year) 31.3

Area under (two year) 6.0

Number of temporary Hydrographic Stations located by statute

Number of temporary Hydrographic Stations located by statute

LOADING (to vessel contents) - 1951

No. of vessels loaded of one to five tons to be secured by (I) Pilot Party, (II) Organization Party, or (III) the

For entering area of port of ... to ...

1951

COMPILATION REPORT  
To Accompany  
SHEET NO. T-8407

26. CONTROL

Seventeen control stations fall on the sheet and it was possible to hold to all stations in the plot.

27. RADIAL PLOT

This plot included four of eleven sheets in project 290 C. The sheets, T-8407 to T-8410 inclusive, were well controlled with the possible exception of T-8409, which had but two triangulation stations within the limits of the sheet. The azimuth lines together with these two stations were tightly held and good intersections were obtained.

Control

(a) Lensity Sheet	Control Stations.
T-8407	17
T-8408	4
T-8409	2
T-8410	8

(b) Identification of control.

It is believed that all control used in this plot has been well identified and it was used without difficulty. Field inspection stations greatly facilitated positive identification on the photographs.

Photographs

The following photographs were used: 11495 through 11502, 11622, 11698 through 11701, 11705 through 11710, 11768 through 11770.

Distortion found in the unmounted photographs has been removed through the use of templates on which true corner, collumation and chamber lines have been linked.

Closures and Adjustments

Templates were layed in the usual manner, beginning with those templates which were well fixed, then laying through those with weaker fixes.

Azimuths to adjacent centers held on all templates and excellent radial intersections were obtained.

After the plot was completed, each photograph was placed under the survey sheet as an additional check on the secondaries picked.

#### Areas of Questionable Accuracy

Sheet T-8409 as mentioned above is the only weakly controlled sheet of the four layed in this plot. It is believed, however, that by holding the azimuths to adjacent centers and tying in to the two available stations, good fixes have been obtained on the secondaries picked.

#### 28. DETAILING

This sheet was detailed on two projections by two compilers. As the area that fell on Sheet T-8406 to the west was so small, it was detailed on the sheet on which the northern part of T-8407 was done.

The photographs were clear and of reasonably good scale. Field inspection east of U. S. Highway 41 was done on 1:20,000 scale prints and could readily be compiled. However, it consisted mostly of intermittent ponds and pasture land. Inspection west of the highway was done on 1:10,000 scale prints and due to the great length of time since these photographs were taken, there was considerable change in shore line and buildings on this compilation. The projector had to be used quite frequently in this area.

#### 29. SUPPLEMENTAL DATA

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

#### 44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

There are no existing topographic quadrangle maps of the area 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.

Respectfully submitted,

Ben O. Eryant,  
Sr. Photo. Aid.

*Marion T. Gwinn*  
Marion T. Gwinn,  
Photo. Aid.

Forwarded by:

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

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

*T-8407 Laurel, Florida*

This quadrangle, together with similar adjoining maps produced under Project G.S. 290-C 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:

PREPARATION OF BASE MAPS

Assembly into quadrangle base sheets by photographic means of previously produced planimetric maps of the area. These maps were compiled by this Bureau from aerial photographs taken in and were published in 1939 on the scale of 1:10,000. Lithographic prints of the quadrangle base sheets on cloth-mounted paper were furnished to the field parties and similar prints in red ink on celluloid sheets were furnished to the compilation office.

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. The field parties were permitted to make field inspection notes either on the photographs or on the planimetric base sheet.

Contouring by planetable, directly on the photographs or on the planimetric base sheet at the option of the field party. The contouring for this quadrangle was done on the

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-8407  
Project CS 290 C  
Ray L. Schoppe, Comdr., Chief of Party

1. Description of the Area. Quadrangle T-8407 is situated in Sarasota County, Florida, south of the city of Sarasota. It is bounded on the north by  $27^{\circ}15'$  north latitude, on the east by  $27^{\circ}22\frac{1}{2}'$  west longitude, on the south by  $27^{\circ}7\frac{1}{2}'$  north latitude, and on the west by  $27^{\circ}30'$  west longitude. The region is flat, sloping very gently to the south. The maximum elevation is approximately 25 feet, and occurs in the northern portion of the quadrangle; the minimum elevation approaches sea level along the small tidal stream in the southern portion of the quadrangle. The major portion of the surface drainage in this region is represented by the small creek which enters the quadrangle in the northern and eastern corner. This stream flows into a pond in a low marsh-like area, where the evidence of surface drainage almost disappears, merely being represented by a series of intermittent ponds which occur in the low marshy region. The definite channel of the stream again appears in the southern portion of the quadrangle.

Only a very small portion of the area is under cultivation; the scattered orange groves along U. S. Highway 41 represent the only land under cultivation. The remainder of the region is dotted with intermittent ponds and the vegetation is limited to palmetto and scattered pine. Here and there small areas of deciduous occur, especially in low, swampy areas and along the stream.

The culture of this quadrangle east of U. S. Highway 41 is limited to a few class 4U roads, one railroad, the Seaboard Air Line, two small villages, Osprey and Laurel, a few scattered farm buildings, and one power line which does not parallel a road or highway.

For information concerning the culture of the remainder of the quadrangle, refer to the field inspection report for planimetric maps.

2. Completeness of Field Inspection. All field inspection for the classification and clarification of detail was done on photographs 11698, 11699, 11700, and 11622. All field inspection west of W. S. Highway 41 was completed by Air-Photo Compilation Party No. 1. See Field Inspection Report for Planimetric Maps for additional information.

3. Interpretation of the Photographs. The photographs used for the field work in this quadrangle are typical of others for this region, and require no special comment.

For items 7 through 13, refer to Field Inspection Report for Planimetric Maps.

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

5. Vertical Control. Supplemental level lines were run south from State Highway 220 to a point midway through the quadrangle, thence west to tie with a line run along U. S. Route #41. Supplemental level lines were run by J. W. Brett, Sr. Photo. Aid. All level elevations which were checked by the planetable party were found to be correct and may be shown on the final map if desired.

6. Contours and Drainage. All the contouring was done on photographs 11622 and 11698. The twenty foot contour occurs in the extreme northern portion of the quadrangle, and for this reason no contours occur on the other photographs. Elevations have been established in the southern portion of the area by the level party and the topographic unit.

The contouring was accomplished by standard methods, using U. S. Coast and Geodetic Survey planetable and alidade.

The twenty foot contour is the only one which appears in this quadrangle, and because of this the contouring was accomplished quickly and easily. By establishing elevations at initial points and by taking careful note of the position and elevations of the numerous elevations, it was relatively easy to sketch this contour.

No special effort was required in locating the streams, for all drainage in the quadrangle is easily recognized on the aerial photographs.

All planetable traverses which were closed on known elevations checked satisfactorily. The usual error of closure rarely exceeded .2 or .3 foot.

14. Road Classification. All roads and highways have been identified and classified on the aerial photographs in accordance with instructions, as has been noted in item 2.

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

16. Buildings and Structures. All buildings and structures east of U. S. Highway 41 have been classified on the photographs in accordance with instructions. For information concerning field inspection west of Highway 41, refer to Field Inspection Report for Planimetric Maps.

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

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

19. Junctions. Satisfactory junctions were made with all adjoining quadrangles.

Respectfully submitted:

*Carl A. Moritz*

Carl A. Moritz  
Jr. Topo. Engr.  
March 28, 1944

Approved:

*Ray L. Schoppe*

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 that they be checked in the field by the field edit party on the compilations which are to a true scale of 1:20,000.

Each photographs which touches or borders on a quadrangle should be examined to locate these boundaries. In many cases 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 classified on photographs 11497 (north portion) and 11500 (south portion).

Respectfully submitted:

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

26 CONTROL - within limits of the published quadrangle:

Hall	1935	Casey	1935
Camp	"	Keg	"
Sevens	"	West Base	----
Blackburn	"	Edd 6	"
Blackburn Pt	"----	Osprey (USE)	"

- outside (west of) limits of the published quadrangle:

Ashby (USE)	1935
Lisp	"
Clower	1878-1909
Vamo	1935
Teer	"
Northwest	1878-1909
Marvin	1935

BENCH MARKS:

Y-38  
Z-38  
A-39

Compilations Report

out for photostat

in connection with T-8406.

12/16/49

Jordan

T-8407

	Remarks	Decisions
1		USGB
2		
3		
4		Railway Guide
5		Road Maps
6		
7		271824
8		"
9		"
10		"
11		"
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		270824-25
22		"
23		"
24		"
25		"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8407

LAUREL 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
<u>Florida</u> ✓	/								1
<u>Sarasota County</u> ✓	/								2
<u>Gulf of Mexico</u> ✓	/								3
<u>Seaboard Air Line Ry</u> ✓	/								4
<u>U.S. No. 41/ Fla. No. 5</u> ✓	/		(Tamiari Trail)						5
									6
<u>Laurel</u> ✓	/								7
<u>Laurel School</u> ✓	/								8
<u>M</u>									
<u>Myakka Trail</u> ✓	/								9
<u>Dona Bay</u> ✓	/		(partly here)						10
<u>Shakett Creek</u> ✓	/								11
<u>Fox Creek</u> ✓	/								12
<u>Salt Creek</u> ✓	/								13
<u>Gov Pen Slough</u> ✓	/								14
<u>Blackburn Bay</u> ✓	/								15
<u>Gassy Key</u> ✓	/								16
<u>South Creek</u> ✓	/								17
<u>Dryman Bay</u> ✓	/								18
<u>Blackburn Point Bridge</u> ✓	/								19
<u>Osprey</u> ✓	/								20
<u>Little Sarasota Bay</u> ✓	/								21
<u>Osprey School</u> ✓	/								22
<u>Osprey Baptist Church</u> ✓	/								23
<u>Church of God</u> ✓	/								24
<u>North Creek</u> ✓	/								25
<u>Outfish Creek</u> ✓	/								26
<u>Vamo</u> ✓	/								27

Names underlined in red approved  
by L. Heck on 6/20/47

FIELD EDIT REPORT  
To Accompany  
SHEET NO. T-8407

46. METHODS

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

All additions, corrections and deletions are to be found on the ozalid print of the map compilation (in two parts).

The northwest portion of this sheet from Longitude 82° 30', Latitude 27° 14' will be edited from a Planimetric Compilation which is to be furnished this party. *Edit done. Application checked 6/13/44.*

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.

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.

*copy  
T-8407*

14. ROAD CLASSIFICATIONS

All road classifications were checked and corrections were made where necessary. The additions, corrections, and deletions to be found on this sheet should supersede all previous compilations.

Respectfully submitted,

Ben O. Bryant,  
Sr. Photo. Aid.

June 3, 1944

Forwarded by:

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

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8407

*Laurel* QUADRANGLE, Fla.

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

*None*

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. 1252

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 immediate corrections*

*Not applied, 6-14-44*

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

Reviewed \_\_\_\_\_ By Francis J. Evans  
under direction of D. H. Benson *per 75*

Inspected by B. G. Jones B.G. Jones

Examined and approved:

~~Chief, Surveys Branch~~ for H. Edmonstone  
Chief, Div. of Charts

K.T. Adams  
Chief, Topography Section  
Division of Photogrammetry

W.M. Scaife  
Chief, Div. of Coastal  
Surveys

## 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.