

8391

Diag'd. on Diag. Ch. No. 1257-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. CS-290 Office No. T-8391

LOCALITY

State Florida

General locality Tampa Bay

Locality Bradenton

1942-'44

CHIEF OF PARTY

R.L.Schoppe

LIBRARY & ARCHIVES

DATE June 2, 1949

B-1870-1 (1)

13391

DATA RECORD

T-8391

Quadrangle (II): (No Name)

Project No. (II): CS 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 ^{Division of} ~~Descriptive~~
~~Report No. VI~~ ^(VI)
 Photogrammetry Office Files.

Completed survey received in office: 22 April, 1944

Reported to Nautical Chart Section:

Reviewed: 10 May, 1944

Applied to chart No. 582

Date: 12 May, 1944

Redrafting Completed: 30 May, 1944

Registered: 22 Nov '48

Published: May, 1945

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): Mound, 1934

Lat.: $27^{\circ}41'04.169''$ (128.3M) Long.: $82^{\circ}31'18.811''$ (515.5M) Adjusted
~~unadjusted~~

State Plane Coordinates (VI):

X =

Y =

Military Grid Zone (VI) "B"

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
11648	11/12/42	12:36	1:20,000	-0.6 ft.
11649	"	12:37	"	-0.6 ft.
11650	"	12:39	"	-0.6 ft.
11651	"	12:41	"	-0.6 ft.

Tide from (III): Predicted Tides - Tampa Bay.

Mean Range: 1.5

Spring Range: 2.0

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

Field Inspection by: S. C. Dionisio

date: Jan., 1944

Contouring and

Field Edit by: S. C. Dionisio, Sr. Photo. Aid

date: Jan. 1944

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

Red Line Celluloid Print

~~Projection and Control by~~ (III) Washington Office

" " " checked by: " " date:

Control plotted by: Printed on sheet

date:

Control checked by:

date:

Radial Plot by: Tampa office personnel

date:

Detailed by: Alberta Worrell

date: 3-4/44

Reviewed in compilation office by: A.L. Kidwell

date: 4/44

Jas. H. S. Billmyer

4/44

Elevations on *Map Manuscript* Field Edit Sheet

checked by: Sarasota Office

date: Jan. 1944

STATISTICS (III)

Land Area (Sq. Statute Miles): Previously reported

Shoreline (More than 200 meters to opposite shore):
Previously reported

Shoreline (Less than 200 meters to opposite shore):
previously reported

Number of Recoverable Topographic Stations established:

Number of Temporary Hydrographic Stations located by radial
plot:

Leveling (to control contours) - miles: 10

Roman numerals indicate whether the item is to be entered
by, (II) Field Party, (III) Compilation Party, or, (VI) the
Washington Office.

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

Remarks:

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

This quadrangle, together with similar adjoining maps produced under Project C.S. 1904, 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 1939 and were published in 1941 on the scale of 1:100,000. 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. 7-58401 VI

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.~~ *see Review Report*

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-8391
Project CS 290 A
Ray L. Schoppe, Comdr., Chief of Party

1. Description of the Area. The area involved is a seven- and one-half minute quadrangle, falling in Hillsborough and Manatee Counties, between Ruskin and Bradenton, Florida. It lies within longitude $82^{\circ}37'30''$ and $82^{\circ}30'00''$, and latitude $27^{\circ}30'30''$ and $27^{\circ}45'00''$. From the southeast corner of the quadrangle, where the elevation is 35 feet above sea level, the general slope is west toward Tampa Bay, where the elevation approaches sea level, and north toward Cockroach Bay.

Most of the quadrangle is water -- the area from the south central portion to the northeast limits is covered by Tampa Bay. The remainder of the land is barren, with scattered pine, and numerous intermittent and marsh ponds, which in dry seasons are dry. Very little of this area is cultivated, although there are a few small truck farms. The only main highway in the quadrangle is U. S. No. 541, which runs north and south throughout the area.

2. Completeness of Field Inspection. See descriptive report of original planimetric maps.

3. Interpretation of the Photographs. Refer to descriptive report of original planimetric maps.

4. Horizontal Control. See descriptive report of original planimetric maps.

5. Vertical Control. Vertical control for planetable contouring was provided by Coast and Geodetic Survey bench marks. Supplemental levels for the control were run over existing roads, trails, and ditches. Elevation points were set at road intersections, bridges, culverts, and other identifiable points. At some elevation points where loose sand in the trails might make the elevation vary, stakes were set off the trails to give a more accurate elevation.

No level lines closed over 0.3 foot, and those closing between 0.10 foot and 0.30 foot were adjusted by distributing the error throughout the loop by progressively raising or lowering each point. No U. S. Coast and Geodetic Survey or U. S. Geological Survey bench marks were searched for or recovered, except those which had been recovered by another party. One "EDD" bench mark was used. This was of second order accuracy, and no adjustment was necessary.

Supplementary level lines were run by Philip A. McAdam,
Engr. Aid.

not shown
on manuscript
or field edit.

6. Contours and Drainage. Contouring was accomplished on 1:20,000 scale U. S. Coast and Geodetic Survey red line compilation by standard methods using the standard U. S. Coast and Geodetic Survey planetable and alidade. Traverses were run between vertical control points, and there were no large closures. There is only one main contour -- the 20-foot contour in the southeast section of the quadrangle; and two depression contours in the southeast portion.

7. Mean High-Water Line. Refer to descriptive report for original planimetric maps.

8. Low-Water Line. Refer to descriptive report for original planimetric maps.

9. Wharves and Shoreline Structures. No changes were noted during the field edit. Refer to descriptive report for original planimetric maps.

10. Details Offshore from the High-Water Line. Refer to descriptive report for original planimetric maps.

11. Landmarks and Aids to Navigation. All aids to navigation have been checked. Two temporary beacons, which were set by the Piney Point Ferry Company for channel markers, have been located. Front Range and Rear Range beacons in Tampa Bay were moved in the summer of 1943, and their new positions were determined by intersection. Form 567 has been submitted for these beacons. *Chart Letter 63 (1944)*

12. Hydrographic Control. Refer to descriptive report for original planimetric maps.

13. Landing Fields and Aeronautical Aids. There is one aerial navigation beacon located in this quadrangle. Its location has been checked on the compilation. It is approximately 73 feet in height. There are no landing fields in this quadrangle.

14. Road Classification. All roads have been classified according to instructions.

15. Bridges. There are no bridges falling within the limits of this quadrangle.

16. Buildings and Structures. All buildings and structures were classified according to instructions during the field edit, and encircled on the compilation.

17. Boundary Monuments and Lines. Boundary monuments of Manatee and Hillsborough county are shown on the compilation in blue ink. The boundary has been inked in blue.

18. Geographic Names. A transposition in the names "Snake Key" and "Camp Key" was noted on the compilation. The change is shown; however, this will be the subject of a special report, to ~~be~~ ^{LK} submitted at a later date.

46. Field Edit Methods. All field edit was accomplished on the compilation. Buildings not shown were located by planetable and blocked in with black ink. Those that are shown are encircled, and deletions are made in black ink. Drainage is shown in blue, except that the ditches are labeled in black.

47. Adequacy of the Compilation. The compilation was found to be adequate, except for the known deficiencies such as classification of roads, bridges, woods, drainage, and boundary lines.


48. Accuracy Tests. Neither horizontal nor vertical accuracy tests were run within the limits of this quadrangle. Refer to descriptive report for quadrangle T-8392.

49. Data. Political boundaries, field edit, contouring, are shown on metal mounted lithographed print. Bench marks and fly levels are shown on separate chart paper print.

Submitted by:

Sam C. Dionisio
Sr. Photo. Aid

Approved:


Ray L. Schoppe
Chief of Party

COMPILATION REPORT
To Accompany
SHEET NO. T-8391

28. DETAILING

Sheet ^{T-8391} T-8285 is a revision of a 7½ minute quadrangle made from portions of sheets previously compiled from aerial photographs on a scale of 1:10,000 as part of project 242. (T-5840 & 41)

The quadrangle was furnished the compilation office in "red-line" on celluloid and all corrections were made in black ink.

Practically all detail was shifted to agree with a revised radial plot which was run to control the 1:20,000 quadrangle sheets in the surrounding area. Other revisions were made to agree with the 1:20,000 scale photographs which were taken much later than the ones from which the original compilation was made.

34. LANDMARKS AND AIDS TO NAVIGATION

Two beacons that were moved during the summer of 1943 have been relocated by plane table and are shown on the sheet. Form 567 is not submitted at this time, their positions will not be forwarded until they have been rechecked in the field, due to the change in position of Topographic signals and detail.

*Cut "C" - Range Front and
Cut "C" - Range Rear are lights
not beacons - They are
plotted in new position -
Chart Letter 63
1944*

35. HYDROGRAPHIC CONTROL

All topographic stations suitable for the control of hydrographic surveys have been removed from this sheet where their positions have been found to be in error. These stations will be re-located on the 1:10,000 scale compilations in the near future and their correct positions submitted.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

There are no existing standard topographic quadrangle maps of the area with which T-8391 can be compared.

45. COMPARISON WITH NAUTICAL CHARTS

In comparing the sheet with U. S. C. & G. S. chart No. 586, numerous small discrepancies of an unimportant nature were noted. It is recommended that the topography as shown on this quadrangle supersede that on the chart.

Respectfully submitted,

E. Alberta Worrell
E. Alberta Worrell,
Engineering Draftsman.

Forwarded by

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

FIELD EDIT REPORT
To Accompany
SHEET NO. T-8391

46. METHODS

In editing the map compilation all roads were traversed by truck. Due to the presence of many roads, walking was necessary only in a few places in order to make a visual inspection of all topographic features. All buildings, roads, ditches and other features were added to the ozalid print by measurements from topographic features or by plane table methods.

All additions, corrections and deletions are to be found on the ozalid print of the map compilation. In accordance with the instructions, black ink was used for all classifications and additions; green ink was used for all deletions.

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 changes noted on the field edit sheet, although no comment can be made on the area outlined in blue as this area was not visited by this edit party as per instructions by the Chief of Party.

48. ACCURACY TEST

Covered by a separate report.

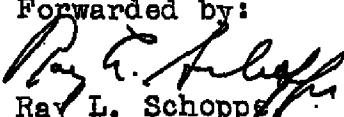
14. ROAD CLASSIFICATIONS

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

Respectfully submitted,

Ben O. Bryant,
Sr. Photo. Aid

Forwarded by:


Ray L. Schopps
Chief of Party.

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8391

Cockroach Bay QUADRANGLE, Florida

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 accuracy tests were made for this map area.

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.

T-4200	1/20000	1926
T-1408b	1/20000	1875

Comparison with Nautical Charts Nos. 586, 1257

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:

6 lights on chart 1257 at Long Mullet Key Channel could not be plotted on the map manuscript, since there is no photograph coverage.

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

Main Radial Plot, - see page 2 of descriptive report for T-5842.

It was found that the radial plot for T-5842 was in error, so that a new plot for the area covered by T-8391 was laid at the Tampa Office. This placed practically all of the shoreline in a new position. Office photographs were not available during review so that no check could be made to test the accuracy of the new plot.

Topographic Stations: Three topographic stations were radially plotted during review. No hydrographic stations appear on the map, since the hydrographic stations appearing on the compilation for T-5842 would not be in their true positions and were deleted from the new map manuscript.

Topographic Stations: Airway Beacon
Cut 'C', Range Rear Lt.
Cut 'C', Range Front Lt.

Control: Two triangulation stations appear on the map manuscript: Big Cockroach Mound, and Cockroach (USE)

Reviewed D. H. Benson By L. Forrester, 10 May, 1944
under direction of D. H. Benson *L. Forrester, (fs)*

Inspected by B. G. Jones

Examined and approved:

M. C. Davidson
Chief, Surveys Branch
Nautical Chart

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

L. Forrester
Chief, Div. of Charts

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.

T-8391

1
Decisions

Remarks

1		USGB
2		"
3		
4		
5		Railway Guide
6		Road Maps
7		"
8		
9		276825: all names on this section sheet
10		
11		
12		
13		USGB
14		"
15		
16		
17		
18	Shell key appears twice on compilation	
19		
20		
21		
22		
23		
24		
25		
26		USGB
27		"

GEOGRAPHIC NAMES

Survey No. T-8391

1	Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K
	<u>Florida</u>	✓								1
	<u>Hillsborough County</u>	✓								2
	<u>Manatee County</u>	✓								3
	<u>Tampa Bay</u>	✓								4
	<u>Atlantic Coast Line R.R.</u>	✓								5
	<u>U.S. No. 541/State No. 23. also Bayshore Road</u>			✓	✓					6
	<u>State No. 309</u>	✓								7
										8
✓	<u>Piney Point</u> (village)									9
✓	<u>Redfish Creek</u>									10
✓	<u>Piney Point</u> (point)									11
✓	<u>Piney Point Creek</u>									12
✓	<u>Cockroach Bay</u>									13
✓	<u>Cockroach Creek</u>									14
✓	<u>Dung Islet</u>									15
✓	<u>Southeast Head</u>									16
✓	<u>Snag Point</u>									17
✓	<u>Shell Key</u>			too small						18
✓	<u>Jump Pass</u>									19
✓	<u>Hole in the Wall Pass</u>									20
	<u>Mullet Key</u>			too small						21
✓	<u>Hallelujah Keys</u>									22
✓	<u>Beacon Key</u>									23
✓	<u>Beacon Pass</u>									24
✓	<u>Buoy Pass</u>									25
✓	<u>Big Cockroach Pass</u>									26
✓	<u>Big Cockroach Mound</u>									27

Remarks

Decisions

	Remarks	Decisions
1		276825 USGB
2	Note that Snake Key and Camp are transposed, with respect to their positions on the earlier planimetric map: see note in Desc. Report under Geog.	"
3	Names reporting this change	"
4		"
5		"
6		277825
7		"
8		"
9		"
10		"
11		"
12		" USGB
13		" "
14		"
15		"
16		" USGB
17		276825
18		
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27		

GEOGRAPHIC NAMES

Survey No. T-8391

2	Name on Survey	A	B	C	D	E	F	G	H	K	
	<u>Cockroach Channel</u>										1
✓	<u>Snake Key</u>										2
	<u>Table Bar</u>			too small							3
✓	<u>Camp Key</u>										4
✓	<u>Big Pass</u>										5
✓	<u>Big Pass Key</u>										6
✓	<u>Marys Point</u>										7
✓	<u>Gooseneck Pass</u>										8
✓	<u>Marys Lake</u>										9
✓	<u>Marys Lake Pass</u>										10
✓	<u>Coon Creek</u>										11
✓	<u>Little Cockroach Bay</u>										12
✓	<u>Little Cockroach Island</u>										13
✓	<u>Mags Hole</u>										14
✓	<u>Shell Key</u>										15
✓	<u>Little Cockroach Rock Pass</u>										16
	South Step										17
											18
											19
											20
											21
											22
											23
											24
											26
											27

Names underlined in red approved
by L. Heck on 5/24/41

M 234

Names underlined in red approved
by L. Heck on 5/24/41

NAUTICAL CHARTS BRANCH

SURVEY NO. T 8391

Record of Application to Charts

[illegible]

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.