# 5839

**Diag'd. on diag. ch. No. 1257-2**

**Form 504**

**U. S. COAST AND GEODETIC SURVEY**  
**DEPARTMENT OF COMMERCE**

## DESCRIPTIVE REPORT

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Air Photo. Compilation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td>Office No.</td>
</tr>
<tr>
<td></td>
<td>T-5839</td>
</tr>
</tbody>
</table>

## LOCALITY

<table>
<thead>
<tr>
<th>State</th>
<th>Florida</th>
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<tbody>
<tr>
<td>General locality</td>
<td>Florida West Coast</td>
</tr>
<tr>
<td>Locality</td>
<td>Tampa Bay</td>
</tr>
<tr>
<td>9 Lens Photos</td>
<td>12-7-39</td>
</tr>
<tr>
<td>Single Lens Photos</td>
<td>11-39</td>
</tr>
</tbody>
</table>

**1944**  

**CHIEF OF PARTY**  

Comdr. Ray L. Schoppe

**LIBRARY & ARCHIVES**

**DATE**  

Oct 14 - 1947
DATA RECORD

T-5839 (Revised)

Quadrangle (II): Project No. (II):

Field Office: Tampa, Florida Chief of Party: Ray L. Schoppe

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

Instructions dated (II III): 4/3/40 Copy filed in Descriptive Report No. T-

(VI)

Completed survey received in office: 4/4/42. Manuscript and report sent
back to Supt. May 14, 1942. Entirely uncompleted. New manuscript and report
submitted to this office 11/44.

Reported to Nautical Chart Section: 4/42. New manuscript and report submitted
12/6/45. Changes made by revision and called to attention of Assistant Chief 4/45.

Reviewed: 4/45 Applied to chart No. Date:

Redrafting Completed: 5/24/45

Registered: 9/47 Published: 5/28/46

Compilation Scale: 1:10,000 Published Scale: 1:10,000

Scale Factor (III): 1:10,000 + 0.9943

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

Reference Station (III): OLD (U.S.E.) 1908

Lat.: 27° 51' 51.282" Long.: 82° 24' 06.119"
(1577.9M) (168.2M) Adjusted

State Plane Coordinates (VI): FLORIDA - WEST ZONE

X = 370,207.49 Y = 1,283,505.92

Military Grid Zone (VI)

Note: The new manuscript entirely replaces
the original manuscript. Letter to be destroyed upon
completion of review. The original document which was
not received from Tampa July 1945.
PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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</thead>
<tbody>
<tr>
<td>4045</td>
<td>12/8/39</td>
<td>11:35 A.M.</td>
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<tr>
<td>4051</td>
<td>11:45</td>
<td>11:45 A.M.</td>
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<tr>
<td>4052</td>
<td></td>
<td>11:46 A.M.</td>
<td>1.0</td>
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<td>2-113 to 2-116*</td>
<td>11/38</td>
<td>No data.</td>
<td>No data.</td>
<td></td>
</tr>
<tr>
<td>2-137 to 2-141*</td>
<td>11/38</td>
<td>&quot;</td>
<td>&quot;</td>
<td></td>
</tr>
<tr>
<td>2-196 to 2-197*</td>
<td>11/38</td>
<td>&quot;</td>
<td>&quot;</td>
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</tr>
</tbody>
</table>

*Single lens.

Tide from (III): Tampa Bay (St. Petersburg, Fla.)

Mean Range: 1.5
Spring Range: 2.0

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

Field Inspection by: J.D.T. & H.A.D.  
Field Edit by:  
Date of Mean High Water Line Location (III): Date of photographs.

Projection and Grids ruled by (III) M.M. Slavney  
" checked by: B. H. Lyon

Control plotted by: M. M. Slavney
Control checked by: B. H. Lyon

Radial Plot by: M. M. Slavney

Detailed by: J. Collins

Reviewed in compilation office by: J. A. Giles

Elevations on Field Edit Sheet checked by:  

\[\text{Date: } 8/7/44\]  
\[\text{Date: } 8/7/44\]  
\[\text{Date: } 8/7/44\]  
\[\text{Date: } 8/7/44\]  
\[\text{Date: } 8/15/44\]  
\[\text{Date: } 8/7/44\]  
\[\text{Date: } \text{Sept. } 1944\]  
\[\text{Date: } \text{Oct. } 1944\]
STATISTICS (III)

Land Area (Sq. Statute Miles): 11.57

Shoreline (More than 200 meters to opposite shore): 8.06

Shoreline (Less than 200 meters to opposite shore): 12.3

Number of Recoverable Topographic Stations established: 6

Number of Temporary Hydrographic Stations located by radial plot: 12

Leveling (to control contours) - miles;

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:
MAIN RADIAL PLOT
PROJECT 242 F

This plot consisted of three sheets T-5838, T-5839, and T-5840. The accuracy of these three sheets, controlled and compiled in Air Photo Party No. 1 in November and December 1941 and February and March 1942, was questioned when the Washington Office discovered discrepancies up to fifty meters between points on Sheet T-5839 and 1:20,000 War Mapping Sheet T-5885. It was therefore decided to re-run the plots covering T-5838, T-5839, and T-5840 on the premise that the weakness discussed above was confined to this area where the scarcity of control was notable.

The regular discussion of the Radial Plot follows:

(A) CONTROL DENSITY:

Control stations within limit of plot

<table>
<thead>
<tr>
<th>Sheet</th>
<th>Number of Stations</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-5838</td>
<td>8</td>
</tr>
<tr>
<td>T-5839</td>
<td>10</td>
</tr>
<tr>
<td>T-5840</td>
<td>12</td>
</tr>
</tbody>
</table>

On Sheet T-5838 the control was all located north of approximate latitude 27° 51' 50", five of the stations lay on a line approximately at latitude 27° 51' 50".

On August 9, 1944, a traverse spur was run south from F-9 on railroad right-of-way for 1856 meters to locate several picture points to assist in laying the radial plot.

On Sheet T-5839 the ten control stations were all lights in Tampa Bay that fall on one single-lens photograph only, and consequently were valueless for controlling the radial plot. There was no other control and therefore, the sheet was without control for the radial plot.

On Sheet T-5840 all of the twelve control stations were U. S. Engineers stations on the Little Manatee River, no control fell in the north two minutes and thirty seconds of the sheet.

Identification of control was adequate.
(B) PHOTOGRAPHS:

The following nine-lens, 1:10,000, photographs were used:

4044 to 4048 inclusive
4051 to 4053 inclusive

The following nine-lens, 1:20,000, photographs were enlarged to 1:10,000 and used:

11684 to 11686 inclusive

The following single-lens pictures procured from the Department of Agriculture were used:

BQF - 2-113
BQF - 2-114
BQF - 2-116
BQF - 2-117
BQF - 2-137 to 2-144 incl.
BQF - 2-193 to 2-199 incl.
BQF - 3-18

Nine-lens photographs 4045 and 4053 were marked: "Use with caution, negative distorted", and nine-lens photograph 4044 has two bad chamber junctions with the center chamber.

The nine-lens photographs were unmounted acetate impregnated, therefore, it was necessary to use the metal template for the elimination of the effect of paper distortion.

The single-lens photographs furnished by the Department of Agriculture were unmounted, and a day-to-day check failed to reveal much change in the prints, however, the prints were handled as theoretically square; templets were made and distortion handled by adjusting to a square format.

(C) CLOSURES AND ADJUSTMENTS:

Regular procedure was followed in laying templates with the strongest fixes first, then progressively laying through photographs with weaker fixes. All azimuths to adjacent centers were held and good intersections were obtained throughout. The variety of photographs listed under sub-head (B) attests to the inadequacy of photograph coverage by the 1:10,000 nine-lens photographs. The lack of 1:10,000 photographs made it necessary to utilize the single-lens and the 1:20,000 nine-lens photographs to obtain sufficient number of cuts to fix points on the plot. Junction was
effected with previously compiled Sheet T-5838 on the line of first class road labeled "County Road No. 417" in the vicinity of latitude 27° 51' 50".

Sheet T-5839 is a completely new compilation. Junction was effected with previously compiled Sheet T-5840 on a line running from the approximate latitude 27° 45' 30", longitude 82° 27' 30", to approximate latitude 27° 45', longitude 82° 25' 30".

(D) AREAS OF QUESTIONABLE ACCURACY:

On Sheet T-5838 the area south of the Alafia River from longitude 82° 20' to 82° 21' is covered by only one 1:10,000 photograph, single-lens photograph BQF 3-18. The other cuts to fix the detailing points and the center of BQF 3-18 were taken from 1:20,000 nine-lens photographs.

(E) GENERAL:

Secondary control was shown on the projection with double blue circles of 2.8 mm. and 1.5 mm. radius. Centers were shown with double blue circles 4.0 mm. and 2.8 mm. radius. Approximately 90% of the additional or detailing control points were cut in by the control section. These points were shown on the projection with 2.0 mm. blue circles. The survey sheets were then released to the draftsman with the instructions that any further additional control should be cut in by the draftsman and shown on the survey sheet with a 2.0 mm. circle radius of purple ink.

Respectfully submitted,

Bennie H. Lyon,
Chief Aeronautical Draftsman.
DESCRIPTIVE REPORT
To Accompany
SHEET NO. T-5839
(Revised)

26. & 27. CONTROL & RADIAL PLOT

See incorporated three sheets submitted by
Mr. E. H. Lyon.

28. DETAILING

This area was covered by both single and
nine lens photographs. The scale of the nine lens
photographs was good, with the exception of photograph
4051, which was only fair.

All single lens photographs were of fair
scale, and were used for detailing.

Since the nine lens photographs were of a
more recent date, they were used for detailing where-
ever possible, as some changes were noted along shoreline.

Between Lat. 27° 46' and 27° 48', Long.
82° 23' and 82° 25', some areas have been cleared
for cultivation, which are not shown on single lens
photographs, but are marked by the field party. These
have been drafted as shown by field party. The field
inspection was adequate enough to insure an accurate
interpretation of all detail.

From Lat. 27° 48' south and Long. 82° 23'
west, some areas have been recently converted to
cultivation. These areas were detailed from photo-
graph No. 11687, which was originally a 1:20,000
print, but the center chamber has been enlarged to
1:10,000 scale. Photograph No. 11686, scale 1:20,000,
was also used. Extra radial points were located with-
out difficulty. The projector was used in detailing
from both photographs.

Approximately three and one-half square miles
in the southeast corner of the sheet was not compiled
due to the lack of adequate photograph coverage.

29. SUPPLEMENTAL DATA

No graphic control surveys or maps and plans
of other organizations were used to supplement the
photographs in detailing this sheet.
34. LANDMARKS & AIDS TO NAVIGATION

There are no landmarks in this area. Aids to navigation are listed on Form 567 which is a part of this report. They were plotted on survey sheet from coordinates furnished by the U.S.E.D. which are forwarded herewith. The positions on Form 567 were scaled from survey sheet.

35. HYDROGRAPHIC CONTROL

There are eight H. & T. stations within the boundaries of this sheet which are described and marked. They are listed below with their true positions. These positions are to supercede all previous ones:

<table>
<thead>
<tr>
<th>Station</th>
<th>Lat.</th>
<th>Long.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAT, 1941</td>
<td>27° 43'</td>
<td>273 Long. 82° 23'</td>
</tr>
<tr>
<td>ORF, 1941</td>
<td>27° 47'</td>
<td>1364 Long. 82° 24'</td>
</tr>
<tr>
<td>ALL, 1941</td>
<td>27° 47'</td>
<td>441 Long. 82° 24'</td>
</tr>
<tr>
<td>AUK, 1941</td>
<td>27° 46'</td>
<td>1237 Long. 82° 25'</td>
</tr>
<tr>
<td>DOC, 1941</td>
<td>27° 46'</td>
<td>36 Long. 82° 25'</td>
</tr>
<tr>
<td>LEW, 1941</td>
<td>27° 45'</td>
<td>1041 Long. 82° 26'</td>
</tr>
<tr>
<td>DAW, 1941</td>
<td>27° 45'</td>
<td>956 Long. 82° 24'</td>
</tr>
<tr>
<td>B.M. W-39,1933 Lat. 27° 47'</td>
<td>977 Long. 82° 22'</td>
<td>1071</td>
</tr>
</tbody>
</table>

(It is respectfully requested that the foregoing stations be entered on Form 524. New cards could not be made by this office as original picking cards are in the Washington Office.)

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

Details within the limits of this sheet were checked against ozalid T-8385. Differences were taken care of by the use of the 1:20,000 photographs which are still in this office. Refer to paragraph 28.

45. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with U.S.C.&GS Chart no. 587, bearing a print date of April 11, 1944, scale 1:40,000. An accurate comparison could not be made due to scale difference, however, certain differences in shoreline were noted. The chart shows an indefinite shoreline along the outer edge of mangrove, and the sand flat back of mangrove as a marsh area.

On the compilation there is shown a high-water line at the inner edge of the sand flat, and an indefinite shoreline around mangrove. All cultural features are in general agreement.

Approved and forwarded by: Respectfully submitted,

Ray L. Schoppe, James Collins
Chief of Party, Sr. Photo. Aid.

Chart Letter 101 (1945)
TO BE CHARTED

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Tampa Photogrammetric Office Oct. 23, 1944

I recommend that the following objects which have been inspected from seaward be charted on the charts indicated.

The positions given have been checked after listing.

Ray L. Schoppe
Chief of Party.

<table>
<thead>
<tr>
<th>GENERAL LOCALITY</th>
<th>NAME AND DESCRIPTION</th>
<th>POSITION</th>
<th>METHOD OF LOCATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Florida West Coast</td>
<td>Hillsboro Cut A, Range Rear</td>
<td>27° 49' 506 82° 25' 1141</td>
<td>N.A. Triangulation (U.S. ET) 1927</td>
<td>587</td>
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<tr>
<td>Tampa-Hillsboro Bay</td>
<td>Hillsboro Cut A, Range Front #4</td>
<td>27° 48' 1323 82° 26' 1382</td>
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<td>1257</td>
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<tr>
<td></td>
<td>Hillsboro Cut B, Range Front #6</td>
<td>27° 48' 1703 82° 26' 1360</td>
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<td>Hillsboro Cut B, Range Rear #4</td>
<td>27° 49' 335 82° 26' 977</td>
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<td>Hillsboro Cut C.S., Range Front</td>
<td>27° 48' 1124 82° 26' 1483</td>
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<td>Hillsboro Cut C.S., Range Rear</td>
<td>27° 47' 1813 82° 26' 1589</td>
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<td></td>
<td>Hillsboro 7 Light</td>
<td>27° 48' 1379 82° 27' 47</td>
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<td>Hillsboro 5 Light</td>
<td>27° 48' 1035 82° 27' 415</td>
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<td>Hillsboro 2A Light</td>
<td>27° 48' 918 82° 27' 350</td>
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<td>Hillsboro 3 Light</td>
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<td>Hillsboro 2B Light</td>
<td>27° 48' 558 82° 27' 993</td>
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<td>Hillsboro 11 Light</td>
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<td>Checked by: H. J. Faye</td>
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</tbody>
</table>

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.
<table>
<thead>
<tr>
<th>Name on Survey</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
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<tr>
<td>Tampa Bay</td>
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<td>Jackson Branch</td>
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<td>Big Bend</td>
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<td>Adamsville</td>
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<tr>
<td>Whiskey Stump Key</td>
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<td>Green Key</td>
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<td>The Kitchen</td>
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<td>Dug Creek</td>
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</table>

*By L. Heek on 12/12/1949*
### Nautical Charts Branch

**Survey No. T-5839**

**Record of Application to Charts**

<table>
<thead>
<tr>
<th>Date</th>
<th>Chart</th>
<th>Cartographer</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/8/42</td>
<td>587</td>
<td>L.A. McGoun</td>
<td>Before After Verification and Review. T-5839 was replotted and re-detailed. Original manuscript was since been cancelled.</td>
</tr>
</tbody>
</table>

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.
Division of Photogrammetry

Review of Planimetric Map T-5839

As noted on page 1 of the descriptive report, the original manuscript received in the Washington Office in 1942 was returned to the Tampa Office for recompilation. The new manuscript was received in November 1944 and supersedes the original. This descriptive report and review refer to the new manuscript compiled in Tampa in 1944.

Field Inspection and Detailing.

All road classifications have been changed to conform with the standard symbols for planimetric maps. Some new roads were located and a few areas recently converted to cultivation were picked up on photographs 11686 and 11687, original 1:20,000 scale prints with center chamber enlargements to 1:10,000.

A low water line which was only approximated by the detailer has been deleted by the reviewer.

Comparison with Previous Surveys.

T-5839 supersedes the following older surveys over the common area:

- T-1411a  1:20,000  1875
- T-4201  1:20,000 & 1:10,000  1926

Comparison with Nautical Charts.

The original manuscript, as discussed in the first paragraph of this review, was applied to chart 587 in 1942. Since the original manuscript is superseded by a new manuscript, the latter should now be applied to chart 587.

Reviewed under the direction of R. M. Berry, April 1945.

Review report prepared by B. G. Jones from reviewer's notes, September 1947.
APPROVED BY:

[Signature]
Technical Assistant to the Chief, Div. of Photogrammetry

[Signature]
Chief, [Nautical Chart Br.] Division of Charts

[Signature]
Acting Chief, Div. of Photogrammetry

[Signature]
Chief, Division of Coastal Surveys