DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Topographic Sheet No. T-5801

State: Florida
Locality: West Coast
Vicinity of Hudson

Photos: December 1929

1930

Chief of Party
Lieut. Kenneth G. Crosby
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

SHEET NO.
Field No. T-5801......

REGISTER NO.

State...Florida..............................................................................

General locality...West Coast......................................................

Locality...Town of Hudson..........................................................

Scale...1:20,000...........Date of survey...December 4........., 1939
Party
Wescos...Air...Photographic...Party...No. 1............................

Chief of party...Lieut. Kenneth G. Crosby...............................
Field Inspected
Surveyed by...Lieut. (j.g.) E.L. Jones, H.A. Duffy, Photo Aid, Oct. - Nov. 1940.

Inked by...Milton N. Slavney......................................................

Heights in feet above.........to ground to tops of trees
Contour, Approximate contour, Form line interval..........feet

Instructions dated..............April 3.............., 1940.

Remarks:..........................................................................................

..........................................................................................
PHOTOGRAPHS

<table>
<thead>
<tr>
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<th>Date</th>
<th>Time</th>
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<td>10:31</td>
<td>1.4</td>
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<td>10:32</td>
<td>1.4</td>
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</table>

Tide from predicted tables for: Aripeka, Indian Bay.
Reference Station: Tampa Bay

Cameras: U.S. Coast and Geodetic Survey Nine-Lens (focal length 8½ inches)
Negatives on file at Washington Office.

SCALE

Mean scale of Photographs: 1:20,000 ± .9928
Scale of Survey Sheet: 1:20,000

STATISTICS

Area (land): 73.12 square statute miles
Shoreline (more than 200 m. from opposite shore): 25.1 statute miles
Shoreline (creeks): 33.2 statute miles
Roads, streets, trails, and railroads: 99.8 statute miles

REFERENCE STATION

Adjusted

Station: RICHEY, 1934
Datum: N.A. 1927

Florida State Coordinates Zone 2 (West)

\[ x = 292,758.07 \]
\[ y = 1,453,647.43 \]

Plotting checked by F.H. McBeth

Date of Survey—See page 5
SUPPLEMENTARY SURVEYS

<table>
<thead>
<tr>
<th>Item</th>
<th>Date</th>
<th>Hours</th>
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<tbody>
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<tr>
<td>Planetable Surveys</td>
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FIELD INSPECTION

<table>
<thead>
<tr>
<th>Item</th>
<th>Date</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Preparation of Photographs</td>
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<tr>
<td>Field Work</td>
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<tr>
<td>Taking Notes</td>
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<tr>
<td>Co. at Pilot Notes</td>
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<tr>
<td>Geodetic Data Report</td>
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<td>Site Work for Charts</td>
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Total 97

MAIN RADIAL PLOT

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<tr>
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<td>Projection on Survey Sheet</td>
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<td>Control Trans. to Base Sheet</td>
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<td>Hydro &amp; topo. stations</td>
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<td>H &amp; T stations scaled</td>
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<td>Additional Radial Points</td>
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Total 62

DETAILING

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Total 379

COMPILATION

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Total 41

Total Time Spent on Sheet 579 Hours
DESCRIPTIVE REPORT TO ACCOMPANY SHEET NO. T—5801

GENERAL

This sheet was compiled from nine lens aerial photographs in accordance with "Instructions for Drafting Air Photographic Surveys, Project H.T. 242", dated April 3, 1940.

The general locality of the area covered by this survey sheet is Florida, West Coast, in the vicinity of the town of Hudson.

The shoreline area is marshy. The marsh gives way to mixed deciduous, pine, and palm trees, with grass and brush as one goes east to Florida State Highway No. 15. East of Florida State Highway No. 15 the vegetation consists of oak and pine of varying density with some swamp and an occasional plot of cleared land.

Areas of dry vegetation with varying density and identity were shown with symbols; labels were used in areas of uniform make up.

Approximate M.L.W. is shown by a dotted line, and the approximate limits of the shoal area is shown by a dashed line. The latter is shown for the use of the hydrographer only.

All small islets adjacent to marshy areas are to be construed as marsh unless otherwise labeled.

All roads are to be shown 0.6 m.m. wide, as none of the roads on this sheet are more than 12 meters wide.

CONTROL

Geodetic control of this sheet consists of the following U.S. Coast and Geodetic Survey triangulation stations:

<table>
<thead>
<tr>
<th>Name of Station</th>
<th>Year</th>
<th>Established by</th>
</tr>
</thead>
<tbody>
<tr>
<td>RICHEY</td>
<td>1934</td>
<td>G.L. Anderson</td>
</tr>
<tr>
<td>ISLE</td>
<td>1934</td>
<td>G.L. Anderson</td>
</tr>
<tr>
<td>SMITH</td>
<td>1934</td>
<td>G.L. Anderson</td>
</tr>
</tbody>
</table>

Station SMITH falls outside the tracing limits of this sheet, but it has been included in the control because SMITH AZIMUTH MARK does fall within the tracing limits of the sheet.

The position of the azimuth mark at triangulation station ISLE, 1934 and at SMITH, 1934 was compared with the published geodetic azimuth given in the list of geographic positions and each was found to be in good agreement.
MAIN RADIAL PLOT

A continuous radial plot was laid on February 4, 1941 for the location of radial points, marked hydrographic and topographic stations, bench marks and azimuth marks. This plot covers Sheet No. T-5799 to T-5802, inclusive, and includes all the photographs within the area of these sheets.

The plot comprised of 24 templates which extended southward for a distance of about 32 nautical miles, from a junction with the previous plot at photographs Nos. 3817, 3875 and 3886, as a northern limit, to photographs Nos. 3897 to 3806 as a southern limit.

All templates in this plot were controlled completely or in part by triangulation or traverse stations, the latter having been established by the Florida Mapping Project. Traverse stations of the "Y" series were plotted from coordinates furnished by the Washington Office but the "AU" series were plotted from coordinates computed at the Tampa Field Office from data furnished by the State Project Manager, Mr. George D. Barnhart, Gainesville, Florida. Fourteen templates were controlled by three to five triangulation stations supplemented by two to seven traverse stations; seven templates were controlled by two triangulation stations and three templates had but one triangulation station, but the latter templates were rigidly fixed by radial points already well established by previously laid templates.

The plot was laid with excellent results and no large or unusual adjustments were necessary to obtain good agreement along the flight lines or with radial points located by the previous main plot at the junction of the two plots.

The templates were made in accordance with "Notes on Radial Plotting of Nine-lens Air Photographs" dated April 9, 1940. The usual practice of laying the main plot was followed and consisted of plotting the control on the survey sheets, transferring it to base grid sheets and then laying the plot on the latter which were securely taped to the plotting table. Upon completion of the plot, the points established by the main radial plot were transferred to the survey sheet by matching grid squares. There was excellent agreement between the grid squares on the base sheets and the survey sheets and the adjustment within a grid square was practically negligible.

All of the points which were determined in the main radial plot by the common intersection of three or more radial lines giving a strong intersection have been transferred to the survey sheet. These points are believed to be within 0.2 m.m. of their true position. Points determined by only two radial lines or points which could not be determined from the common intersection of three or more radial lines have been transferred to the survey sheet by carefully transferring the radial lines themselves for further study by the compiler.

Various colored inks were used on the office photographs and the survey sheet to designate triangulation stations, hydrographic stations, radial points, etc. The following key is furnished for this information.

Photographs (Office Prints)

- Triangulation & Traverse Stations........2.5 mm blue circle
- Marked Hydro. & Topol Signals.............2.5 mm green circle
- Radial Points (Main Plot)..................2.5 mm red circle
- Radial Points (Additional)...............3.5 mm red circle
- Photograph Centers.......................double circle
Survey Sheet

Triangulation Stations .................. 3.5 mm high black triangle
Hydro. & Topo. Stations .................. 2.5 mm black circle
Radial Points (Main Plot) ............... 2.5 mm blue circle on back
Radial Points (Additional) .............. 3.5 mm blue circle on back
Radial Points (Questionable) .......... 3.5 mm green circle on back

INTERPRETATION OF PHOTOGRAPHS

Some difficulty was experienced in interpreting the shoreline area from
PILLMANS BAYOU south to HUDSON CREEK. This appeared due to the semi-flooded
condition, making delineation of the marsh limits difficult. On the north-
eastern limits of this sheet the detail was taken from what were necessarily
the edges of the easternmost flight of photographs. The photographs were
quite dark in this area and detail was obscured. With the two exceptions
mentioned here, no difficulty was experienced in interpreting the photographs.
The stereoscope was freely used while detailing these areas.

FIELD INSPECTION AND DATE OF SURVEY

The field inspection was made by Lieut. (j.g.) E. L. Jones and H. A. Duffy,
Photogrammetric Aid, in October and November 1940 by truck and skiff. The
legend used for field inspection and detailing is made a part of this report.

A special report entitled "Field Inspection Report - Horseshoe Point to
Anclote Keys", December 27, 1940, has been submitted by Lieut. E. L. Jones
which covers the field inspection for this area. Filed in Photogrammetric section.

Details are as of date of pictures - Dec. 4, 1939

DETAILING

The acetate was prepared for inking by rubbing with dry magnesium carbonate
and then washing with water. No additional cleaning was necessary while de-
tailing and the ink has adhered so well that no re-inking has been necessary.

Detailing has been done in accordance with current instructions. New
information, dated June 4, 1941, pertaining to the generalization of vegetation
presentation did not arrive until the sheet was about 70% inked.

In some cases road classifications differ from field notes. These changes
have been made with the approval of the field inspector and authorized by
instructions anent roads leading to farms and roads under construction. Trail
classification has been retained for roads leading to some houses in the eastern
part of the sheet on the advice of the field inspector.

Reference is made here to BEAR CREEK, beginning at Lat. 28° 19' 30'',
Long. 82° 37' 15" and disappearing in a sink at Lat. 28° 19' 40'', Long. 82°
40' 15". This is discussed under BEAR CREEK on Sheet 21 of special report
"Investigation of Geographic Names - Horseshoe Point to Anclote Keys", sub-
mitted to the Washington Office by Lieut. (j.g.) E. L. Jones.
JUNCTIONS

This sheet joins T-5800 on the north and T-5802 on the south. All junctions are in agreement.

COMPARISONS WITH OTHER SURVEYS

This sheet was compared with U.S. Coast and Geodetic Survey charts Nos. 1699 and 1700, both surveyed in 1886. The shoreline was found to agree with minor variations accountable to the relatively unstable character of shoreline marshes.

GEOGRAPHIC NAMES

The investigation of geographic names on this sheet is incorporated in the special report entitled "Investigation of Geographic Names - Horseshoe Point to Anclote Keys", submitted to the Washington Office by Lieut. (j.g.) E. L. Jones.

LANDMARKS

There are no prominent landmarks within the limits of this sheet.

Respectfully submitted,

[Signature]

Milton M. Slavney,
Engr. Draftsman.

Forwarded,

[Signature]

Lieut. Kenneth G. Crosby,
Chief of Party.
LEGGEND USED ON FIELD INJECTION
HORSeshOe POINT TO TARPON SPRINGS, FLORIDA
APRIL – DECEMBER, 1940 – LIEUT. R.L. JONES AND L.A. HUFFY

TREES
Pi = Pine
Cy = Cypress
Falo = Palmetto
Palm = Palm
D T = Deciduous trees (broad leaf)
Cit = Citrus (orchard)
Mix = Pine, cypress & Dec. trees
(Density)
Set. = Scattered
t.w.o. = Thiny wooded
h.w.o. = Heavily wooded
Scr. = Scrub trees; brush

VEGETATION
C = Cultivation
Gr = Grass
T.G. = Tall Tropical Grass
H = Marsh (dashed blue line on
inshore limits)
K W = Marsh grass in water (dashed blue
line on offshore limits)
Sw = Swamp
Mg = Mangrove
Hd. = Hedge

STREAMS
Ca = Canal (width)
Cr = Creek
D = Ditch (width)
I S = Intermittent Stream
RW = Probable drainag unsurveyed
Bre = Bridge or symbol
Cy = Culvert
Lev = Levee

F.G.S. = Florida Geodetic Survey
U.S.E. = U.S. Engineers
U.S.B. = U.S. Biological Survey

ROADS & RAILROADS
Rd. 1 = 1st class road (paved)
Rd. 2 = 2nd class road
Tr = Trail
R R = Rail Road
O P = Overpass (state the kind)
U P = Underpass (state the kind)
X = Abandoned trail, road, etc.
RR ab. = R.R. abandoned (grade only)

POSTS
P = Pond
C F = Cypress Pond
I F = Intermittent Land

SHORE LINE
H.W.L. = Mean high water line (solid
red line = fast land)
L.W.L. = Low water line (dashed red line)
L.H.L. = Light line (solid blue line for
mean high water line on marsh)
Dk = Dock
Pr = Pier
S V = Seawall
Bld. = Bulkhead
Con. = Concrete
Wo = Wooden
Jet = Jetty
dol = Dolphin
pile = pile (give type)
S = Sand
Mud = Mud
Rk = Rock or Rocky
Sty = Stony
W = Water
Blf. = Bluff (height)

BUILDINGS
H = House, barn or building
Cr = Church (give name)
O H = Court House (give name)
Do H = Dead House
P.O. = Post Office (give name)
R.R. Sta. = Railroad station (give name)
hos. = Hospital (give name)
Sch. = School (give name)

MISCELLANEOUS
F = Swamp
FB = Fire Break (maintained)
F.B. = Fire Break (abandoned)
Cem. = Cemetery
Park = Park (give name)
P.o. = Fire Tower
T.T. = Transmission towers (tall steel)
P.L. = Power Line
Shea = Approx. limits by long dashed
line for use by hydrographer
VEGETATION

P = Pine
C = Cypress
Palo = Palmetto
Palm = Palm
D T = Deciduous trees (broad leaf)
Cit = Citrus (orchard)
Mix = Pine, cypress & Dec. trees
(Density)
Set. = Scattered
t.w. = Thinly wooded
h.w. = Heavily wooded
Scr = Scrub trees, brush

SHORE LINE

R.H.L = Mean high water line (solid red line = fast land)
L.W.L = Low water line (dashed red line)
L.H. = Light line (solid blue line for mean high water line on marsh)
Hk = Dock
Pr = Pier
Se W = Seawall
Nthd = Bulkhead
Con = Concrete
We = Wooden
Jet = Jetty
dol = Dolphin
pile = pile (give type)
B = Sand
M = Mud
Mk = Rock or Rocky
Sty = Stony
W = Water
Blf = Bluff (height)

BUILDINGS

H = House, barn or building
Ch = Church (give name)
Ct H = Court House (give name)
Be H = Beach House
P.O. = Post Office (give name)
R.L. Sta = Railroad Station (give name)
hos = Hospital (give name)
Sch = School (give name)

ROADS & RAILROADS

Rd 1 = 1st class road (paved)
Rd 2 = 2nd class road
Tr = Trail
R R = Rail Road
O P = Overpass (state the kind)
U P = Underpass (state the kind)
X = Abandoned trail, road, etc.
R.R. abo = R.R. abandoned (grade only)

Miscellaneous

P = Range
FB = Fire Break (maintained)
FRX = Fire Break (abandoned)
Cem = Cemetery
Park = Park (give name)
P.O. = Fire Tower
T. T. = Transmission towers (tall steel)
P.L. = Power Line
Sheal = Approx. limits by long dashed line for use by hydrographer
1. The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. [Para. 16a, b, c, d, e, g, and i; 26; and 64]

   Yes

2. Change in position, or non-existence of lights, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. [Para. 26; and 66 g, n]

   Yes

3. Ground surveys by plane table, sextant, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, and all such surveys are discussed in the descriptive report. [Para. 66; and 66 d, e]

   No supplemental surveys

4. Blue prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. [Para. 26]

   Been transmitted

5. Difference between this compilation and contemporary plane table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report.

   Yes

6. The control and adjustment of the photographic plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. [Para. 12b, 46, and 65 c, h, i]

   Yes

7. High water line or marshy and mangrove coast is clear and adequate for chart compilation. [Para. 16a, 46, and 44]

   Yes.
8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 26, 37, 58, 39, 40, 41)

Yes, the approximate limits of shoal areas have been outlined as an aid to the hydrographer.

9. Recoverable objects have been located and described on Form 524 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. 29, 30, and 57)

Yes

10. A list of landmarks was furnished on Form 557 and instructions in the Director's letter of July 16, 1934, Landmarks for Charts compiled with. (Par. 156, 157, and 56)

No landmarks within limits of sheet

11. All bridges shown on the compilation are accompanied by a note stating whether fixed or draw, clearance, and width of draw if a draw bridge. Additional information of importance to navigation is given in the descriptive report. (Par. 160)

No bridges of navigational importance. A small bridge at Ariya has been shown.

12. Geographic names are shown on the overlay tracing. The accepted local usage of new names has been determined and they are listed in the report, together with a general statement as to the source of information and a specific statement when advisable. Complete discussion of place names differing from the charts and from the U.S. G. S. O. quadrangles is given in the descriptive report together with reasons for recommendations made. (Par. 54, and 55x)

No overlay. No mention of special report under paragraph "Geographic Names".

13. The geographic datum of the compilation is M.A. 1927 and the reference station is correctly noted. Yes

14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 64)

Yes

15. The drafting is satisfactory and particular attention has been given the following:

1. Standard symbols authorized by the Board of Survey and Maps have been used throughout except as noted in the report.

Yes, legend also used.

2. The degrees and minutes of Latitude and Longitude are correctly marked.

Yes
3. All station points are exactly marked by fine black dots. Yes

4. Closely spaced lines are drawn sharp and clear for printing. Yes

5. Topographic symbols for similar features are of uniform weight. Yes, legend also used

6. All drawing has been retouched where partially rubbed off. Not necessary to retouch

7. Buildings are drawn with clear straight lines and square corners where such is the case on the ground. Yes

(Parts 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47)

16. No additional surveying is recommended at this time. No additional topographic survey required.

17. Remarks: The light line around marsh and mangrove areas defines the outer limits of vegetation visible at mean high water. The mean high water line shown is in fact land only and is represented by a heavy solid line.

18. Examined and approved:


19. Remarks after review in office:

Reviewed in office by:
Examined and approved:

Chief, Section of Field Records
Chief, Division of Charts

Chief, Section of Field Work
Chief, Division of Hydrography
DIVISION OF CHARTS
SURVEYS BRANCH

Review of Air Photographic Survey T-5801

Contemporary Surveys: None

Previous Topographic Surveys:

<table>
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<tr>
<th>Survey</th>
<th>Date</th>
<th>Scale</th>
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<tr>
<td>T-1700</td>
<td>1886</td>
<td>1:20,000</td>
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</table>

See the descriptive report of T-5801 for comparison with other surveys made by field party.

T-5801 supersedes the previous topographic surveys over the common area except for a number of oyster rock locations and reefs indicated off shore north of Lat. 28°21' on the older surveys. These are not visible on the photographs and are not shown on T-5801.

Field Inspection:

Field inspection is complete excepting:

1. Details outside of the high water line, the location of which was found to be impractical.

2. Vegetation inland has not been as thoroughly marked as on the preceding sheets to the north but similarity between photographs make this unnecessary.

Radial Plot and Detailing:

The plot is well controlled and discussed in detail in the descriptive report. In view of this control T-5801 is accepted as of standard accuracy without further checking in this office. Along the east edge between Lat. 28°22' and Lat. 28°25' some changes have been made in the positions of perhaps a dozen small ponds and a very unimportant trail. (See paragraph Interpretation of Photographs of report T-5801.)

Comparison with Chart 178:

T-5801 is adequate for revision of topographic details on the chart excepting offshore rocks to be carried forward from older surveys pending completion of the hydrography.
Preparation of Hydrographic Boat Sheet:

The manuscript (original drawing on celluloid) shows the following details which do not appear on the printed copy and which will be necessary in making up boat sheets in this area:

(1) Semi-permanent topographic stations such as Points of Marsh and Points of Mangrove.

(2) Rocks awash, submerged rocks and rocky areas.

It was impracticable for the field inspection to determine the exact location, extent and character of these rocks. The information shown on T-5801 should be carried forward on the boat sheets for completion by the hydrography. In addition similar details on T-1699 and T-1700 which were not covered by T-5801 should be carried forward on the hydrographic boat sheet for investigation by the hydrography.

Redrafted:

T-5801 will be redrawn in this office for publication.

Reviewed by  F. H. McBeth
Under the direction of D. H. Benson
Inspected by B. G. Jones

Examined and approved:

[Signature]
Chief, Surveys Branch

[Signature]
Chief, Topography Section

[Signature]
Chief, Div. of Charts

[Signature]
Chief, Div. of Coastal Surveys
<table>
<thead>
<tr>
<th>Remarks</th>
<th>Decisions</th>
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*Apply on T-5802*

*Names underlined in red approved by L. Heck on 11/15/41*