5828

Diagd. on Diag. Ch. No. 1257-2

Form 50.

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Planimetric Map

Field No. T-5828 Office No.

LOCALITY

State Florida

General locality Florida West Coast

Locality Rio Vista and Vicinity

Photos. taken December 12, 1939

194 1

CHIEF OF PARTY

Lieut. Kenneth G. Crosby

LIBRARY & ARCHIVES

DATE Caug 1-1946

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Applied to Chart 557 before review October 5, 1942 L.A.M. October 13, 1942 L.A.M.

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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. T-5828

REGISTER NO.

State Florida
General Locality Florida West Coast, Tampa Bay
Locality West end of Gandy Bridge,
Scale 1:10,000 Date of survey December 12, , 1939
Vessel Party: Air Photographic Party, No. 1
Chief of party Lieut. Kenneth G. Crosby, Field inspected by: Surveyenkby James C. McGuire, Photogrammetric Aid.
Inked by William H. Shearouse.
Heights in feet above to ground to tops of trees
Contour, Approximate contour, Form line interval feet
Instructions dated April 3, 19 40
Remarks:
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Florida System of Plane Coordinates (West Zone)

x coordinate:
y coordinate:
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DESCRIPTIVE REPORT TO ACCOMPANY SHEET NO. T---5828

GENERAL

This sheet was compiled 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 immediate vicinity of the West End of Gandy Bridge.

The terrain along the shoreline is mostly mangrove. The inland terrain is flat land and is covered with vegetation consisting generally of pine, palm, palmetto, brush and grass. There are no swamp areas on this sheet except the heavy mangrove areas at the waters edge. Cultivated areas on the sheet are negligible.

Approximate M. L. W. is shown by dotted lines. Approximate shoal limits are shown by short dash lines and are for the use of the hydrographer.

The small bars shown are oyster bars, except where labeled otherwise and consist of sand and shell.

All roads shown by centerline should be 0.6 m.m. wide.

CONTROL

The following triangulation and traverse stations were used for control on this sheet:

Name of Station	Year	Established by
PETE	1908	W.B.F. (C- 45.)
DOG	1908	W.B.F. "
Y-1	1934	Florida Mapping Proj.
Y-2	1934	Florida Mapping Proj.
Y-39	1934	Florida Mapping Proj.
· Y-40	1934	Florida Mapping Proj.
Y-48	1934	Florida Mapping Proj.

None of the above stations have azimuth marks.

No errors were found in the location of the control stations nor in the plotting of these stations on the photographs.

Triangulation stations ASPLIN, 1934, and BIG 1926, and traverse stations, Y-49, 1934 and Y-50, 1934, fall on this sheet but are outside the tracing limits. A paragraph concerning the position of triangulation station BIG will be included in the descriptive report of Sheet T-5830.

Station BIG reported 1934

MAIN RADIAL PLOT

A continuous radial plot was laid on July 28-30, 1941 for the location of radial points, hydrographic & topographic stations, bench marks and azimuth marks on Sheets T-5826 to T-5833, inclusive. It extended southward from a northern limit formed by photographs 3828, 3995, 3916, 3954, 3974, 4185, 4176 and 4200 where it formed a satisfactory junction with the previous main radial plot. The plot consisted of 63 templates, all of which were controlled by triangulation or second order traverse. Four templates had 3 to 5 control stations; eighteen templates had 6 to 10 control stations; thirty-three templates had 10 to 20 control stations and eight templates had 20 to 30 control stations. The latter being in the vicinity of St. Petersburg. All. traverse stations of the "Y" series used for control of the plot were established and located by the Florida Mapping Project and were considered to be of second order accuracy. In several instances, triangulation established by the U.S. Engineers has been used for controlling the plot in conjunction with U. S. Coast & Geodetic Survey triangulation and traverse control. The order of accuracy for the U. S. E. triangulation is not definitely known although their office has advised that it is probably about third order. These stations are shown on the survey sheet by 2.5 m.m. black circles rather than by the triangle symbol.

No large or unusual adjustments were necessary in any part of the plot. Agreement along the flight line was excellent and the intersection of radial lines to adjacent centers checked the actual center of the template very closely. Photographs on the shore flight (Gulf side) had large amounts of tilt but did not present any difficulties while laying the plot.

The templates were made in the usual manner and in accordance with "Notes on Radial Plotting of Nine-Lens Air Photographs", dated April 9, 1940. All hydrographic and topographic stations whether marked or unmarked were located by the main radial plot. A great number of radial points were established to alleviate the necessity of the draftsman establishing additional points.

The usual practice of laying the main plot was followed. This consisted of plotting and checking the control on the survey sheets and then transferring these points to base grid sheets by matching individual grid squares. The amount of adjustment in each individual grid square was negligible but amounted to about .5 m.m. in some cases for the entire length of the sheet. The grid sheets were securely taped to the plotting table and allowed to remain for 48 hours before any templates were laid. Before laying the templates, the base grids were examined for movement and the necessary adjustments made to reduce or remove the discrepancies along the matched grid lines. After laying the templates all points were transferred to the survey sheet by again matching individual grid squares between the base grid and the survey sheets.

A further check was made by comparing all photographs for each particular sheet against the location established by the radial plot. It has been found that much time can be saved by making this additional check at the time of completing the transfer rather than waiting until the sheet is ready for detailing. This eliminates a particular fruitful source of discrepancy, namely the picking of a wrong intersection when there is a multiplicity of "cuts", not all of which meet at a common intersection.

All points located by the main radial plot on this sheet were determined by the common intersection of three or more radial lines. These intersections were excellent and in cases where there were six or seven radials, there was a common intersection. It is believed that the location as determined by these intersections are less than 0.2mm of their true location.

Various colored inks were used on the mounted office prints and on the survey sheet to designate triangulation, traverse and topographic stations, etc. The following key is furnished for this information:

Photographs (Office Prints)

Triangulation	& Traverse Stations	2.5 mm	blue circle
Marked Hydro.	& Topo. Signals	2.5 mm	green circle
Radial Points	(Main Plot)	2.5 mm	red circle
Radial Points	(Additional)	3.5 mm	red circle
	nters		

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)		

INTERPRETATION OF PHOTOGRAPHS

The photographs were clear and accurate, interpretation was obtained with no unusual conditions being found.

FIELD INSPECTION

Field inspection was made during April and May, 1941 by James C. McGuire, Photogrammetric Aid. Considerable difficulty was experienced in distinguishing between the low waterline and grass in water, as the field inspector used the same symbol for both in most cases. Difficulty was also experienced in determining where the heavy line, denoting fast land, should be placed on the map drawing as the field inspector used the heavy line symbol around the mangrove islands and mangrove limits. These mangrove areas flood at high tide and after consulting with the Chief of Party and other draftsman it was decided that the field inspector was in error by using the heavy line. Therefore a light line has been used on the map drawing, denoting the limits of vegetation.

rather than the heavy line as shown on the field inspection photographs.

The draftsman made a trip to the field on September 23, 1941 to ascertain the accuracy of certain doubtful field notes, to recover Tidal Bench Mark "G-5, 1923", on the west end of Gandy Bridge and to take measurements of the St. Petersburg Drive-In Theatre. The theatre has been built since the photographs were made and a number of ground measurements were necessary to establish its position. It is believed its position and diagram are accurate, the approximate location is Latitude 27° 50.3', Longitude 82° 38.3.

DETAILING

This sheet was detailed in accordance with the current instructions for the project.

As a whole the photographs for this drawing were of exceptionally good scale. All the photographs were used to some extent. They were very clear and no unusual difficulty was experienced in interpretating vegetation, etc. The scale of photographs 4173, 4176, 4199, 4200, 4201 and 4200 was good, 4175 and 4198 was fair, and 4174 poor.

Before detailing the surface of this sheet was rubbed down with magnesium carbonate and then washed off. No additional cleaning or reinking has been necessary.

Symbols have been used in a few places when it was thought that this was the better procedure.

The sterescope has been freely used for pricking the corners of buildings, interpreting the detail and determining the limits of vegetation.

The legend used by the field inspection party and by the draftsman is made a part of this report.

JUNCTIONS

This sheet joins Sheet T-5830 on the south, and T-5827 on the west. The junctions are in agreement.

COMPARISON WITH OTHER SURVEYS

Reference is made to a letter from the Washington Office dated May 10, 1941 (28-PFA, 1990), advising that this paragraph may be dispensed with for this area. Surveys of other agencies and the charts of this area are of such scales that accurate comparisons could not be made.

GEOGRAPHIC NAMES

The geographic names for this area are the subject of a special report entitled "Investigation of Geographic Names, Anclote Keys to Entrance of Tampa Bay", submitted by Lieut. (j.g.) J. D. Thurmond, to the Washington Office.

LANDMARKS

No landmarks now appear on the charts for this area, however it is recommended that the large white building on Weedon Island be charted. It is submitted on Form No. 567, which is a part of this report. See Chart Letter #508-1943.

Respectfully submitted,

Villiam N. Thearouse

William H. Shearouse, Engineering Draftsman. (Topographic)

Forwarded,

Lieut. Kenneth G. Crosby, Chief of Party.

REVIEW OF AIR PHOTO COMPILATION NO. T-5828

Chief of Party: Kenneth G. Crosby

Compiled by: W. H. Shearouse

Project: H. T. 242

Instructions dated: April 3, 1940.

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. (Par. 16a,b,c,d,e, g, and i; 26 and 64)

Yes.

 Change in poetion, or non-existence of wherfs, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (Par. 26; and 66 g, n)

Yes.

3. Ground surveys by plane table, sextent, 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. (Par. 66; and 66 d, e)

None used.

4. Blue prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 28)

None 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 photo plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 12b; 14; and 65 c,h,i)

Yes; no large or unusual adjustments.

7. High water line or marshy and my rove coast i clear and adequate for chart compilation. (> 16s, 43, 4, 44)

Yes the light line around marsh and mangrove areas defines the outer limits of vegetation visible at high water. The mean high waterline is shown on fast land only and is represented by a heavy solid line.

- 8. The representation of low water lines, reals, coral real and rooks, and legenda pertaining to them is catinfactory. (Per. 36, 37, 38, 39, 40, 41) Yes, low water line 4 approximate. Shoal areas are 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 Lundmarks was furnished on Form 557 and instructions in the Director's letter of July 16, 1934, Landmarks for Charts, complied with. (Per. 168, e; and 60)

 Yes.
- 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. (Far. 160)

 No bridges of navigational importance. All are fixed span type, crossing drainage canals or small unnavigable streams.
- 12. Geographic names are shown on the overlay tracing. The accepted local usage on 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 unvisable. Complete discussion of place names differing from the charte and from the U.S. G. & G.S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and 66k)

No overlay. See report on geographic names mentioned in paragraph, "GEOGRAPHIC NAMES".

13. The geographic datum of the commilation is N.A. 1927 and the reference station is correctly noted.

Reference station has been corrected for datum difference since aime no triangulation stations with the tracing limits is on the N.A. 1927 datum.

14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j)

- 15. The drafting is estimated by and particular attention has been given the following:
 - 1. Standard symbol's authorized by the Board of Surveye and Mana 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.

- All station points any exactly exacted by fine block dots. Yes.
- L. Closely spaced lines are drawn sharp and clear for printing. Yes.
- 5. Topographic symbols for einitar features are of uniform weight. Yes, legend also used.
- b. 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 ease on the ground. Yes.

(Pur. 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48)

16. No additional survoying is recommended at this time.

No additional topographic survey required.

- 17. Remarks: The airport in the vicinity of Latitude 27° 51'North, Longitude 82° 36.5' West, has been abandoned. Bridges crossing the bayou in this vicinity have also been abandoned.
- 18. Emmined and approveds

Kernoth G. Crosby.

19. Benerks after review in effices

Reviewed in office by:

Examined and approveds

Chief of Section of Field Records

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Chief, Division of Charts

thief, Division of Hydrography

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DIVISION OF PHOTOGRAMMETRY

REVIEW OF PLANIMETRIC MAP T-5828

Radial Plot:

The radial plot, which is described in detail in the descriptive report, was accepted without further check during review.

Field Inspection and Detailing:

Adequate

Comparison with Previous Topographic Surveys:

T-5828 supersedes those sections of the following older surveys which it covers:

T-1409a 1:20,000 T-4185 1:20,000

Comparison with Nautical Charts:

T-5828 was applied to charts 587 and 1257 prior to this review. No changes important to the charts have been made on the manuscript during the review.

Topographic Quadrangles:

T-5828 was compiled in 1941, but processing in the Washington Office was delayed because of war map work of the Bureau and was not completed until July 1946. Meanwhile, the Coast and Geodetic Survey produced topographic quadrangles (manuscript scale 1:20,000) for the War Department of this same area. Planimetric details from T-5828 were used as a base in the preparation of quadrangles T-8380, T-8381, and T-8386, which were completed in 1944. The quadrangles are more recent and are more complete as regards map detail than T-5828, but are at a smaller scale.

Reviewed by Lillian A. Lee

Under the direction of D. H. Benson, August 1943

Review report prepared by B. G. Jones from reviewer's notes, July 1946

Approved by:

19.11. goves 7/46

B. G. Jones, Technical Asst. Div. of Photogrammetry Chief, Nautical Chart Branch Division of Charts

Chief, Div. of Photogrammetry

hief, Div. of Coastal Surveys