

9307

Diag. Cht. No. 1243-2.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-35A(48) Office No. T-9307

LOCALITY

State Florida

General locality East Coast

Locality Ponte Vedra Beach

1949-52

CHIEF OF PARTY

H.F. Garber, Chief of Field Party

A.L. Wardwell, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE January 2, 1959

9307

DATA RECORD

T - 9307

Project No. (II): **Ph-35A(48)**

Quadrangle Name (IV):

Field Office (II): **Edenton, North Carolina**Chief of Party: **Harry F. Garber**Photogrammetric Office (III): **Tampa, Florida**Officer-in-Charge: **Arthur L. Wardwell**Instructions dated (II) (III): **30 December 1949**Copy filed in Division of
Photogrammetry (IV)*Office Files*Method of Compilation (III): **Graphic**Manuscript Scale (III): **1:20,000**Stereoscopic Plotting Instrument Scale (III): **Inapplicable**Scale Factor (III): **None**Date received in Washington Office (IV): **9-27-51** Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

3/26/58

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III):

N. A. 1927

Vertical Datum (III):

MSL

Mean sea level except as follows:

Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum

i.e., mean low water or mean lower low water

Reference Station (III):

E 15 1934

Lat.:

Long.:

Adjusted
Unadjusted

Plane Coordinates (IV):

State: **Fla.**Zone: **E. Mercator**Y= **2,115,717.41 ft**X= **387,764.98 ft**

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

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

All contouring done
by Martin C. Moody,
Cartographic Survey Aid

30-15-00

30-07-30

81-22-30

Areas contoured by various personnel

(Show name within area)

(11) ~~(12)~~

81-15-00

DATA RECORD

Field Inspection by (II): **Martin C. Moody, Cart. Sur. Aid** Date: 15 December 1950 to 5 January 1951

Planetable contouring by (II): **Martin C. Moody, Cart. Sur. Aid** Date: 15 December 1950 to 5 January 1951

Completion Surveys by (II): *James E. Hundley* Date: *Feb. 1952*

Mean High Water Location (III) (State date and method of location): ~~15 March 1950~~
Identified on photographs taken 1949 ~~Air Photo Compilation~~

Projection and Grids ruled by (IV): **T. L. J. (W.O.)** Date: 10 October 1950

Projection and Grids checked by (IV): **H. D. W. (W.O.)** Date: 10 October 1950

Control plotted by (III): **I. I. Saperstein** Date: 19 October 1950

Control checked by (III): **R. J. PATE** Date: 14 November 1950

Radial Plot ~~on Stereoscopic~~
~~Stereoscopic Instrument~~ by (III): **M. M. SLAVNEY** Date: 19 December 1950

Planimetry
 Stereoscopic Instrument compilation (III): **Inapplicable** Date:
 Contours Date:

Manuscript delineated by (III): **R. A. REECE** Date: 24 April 1951

Photogrammetric Office Review by (III): **J. A. GILES** Date: 14 June 1951

Elevations on Manuscript
 checked by (III): **R. A. REECE** Date: 20 April 1951

Camera (kind or source) (III): **Fairchild Cartographic**
6" Metrogon lens, Camera "Q"

Number	Date	Time	Scale	Stage of Tide
49-0-218	16 April 1949	0958	1:20,000	4.2
49-0-219	"	0959	"	"
49-0-220	"	0959	"	"
49-0-233	"	1013	"	"
49-0-234	"	1014	"	"
49-0-235	"	1014	"	"
49-0-236	"	1015	"	"

Tide (III)

Reference Station: **MAYPORT, FLORIDA**
 Subordinate Station: **ST AUGUSTINE INLET, FLORIDA**
 Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
1.0	4.5	5.3
1.0	4.5	5.3

Washington Office Review by (IV): *Everett H. Ramsey*

Date: *1 Oct 1953*

Final Drafting by (IV): *A. P. Berry*

Date: *9/11/58*

Drafting verified for reproduction by (IV): *Wm O. Halluin*

Date: *9-18-58*

Proof Edit by (IV):

Date:

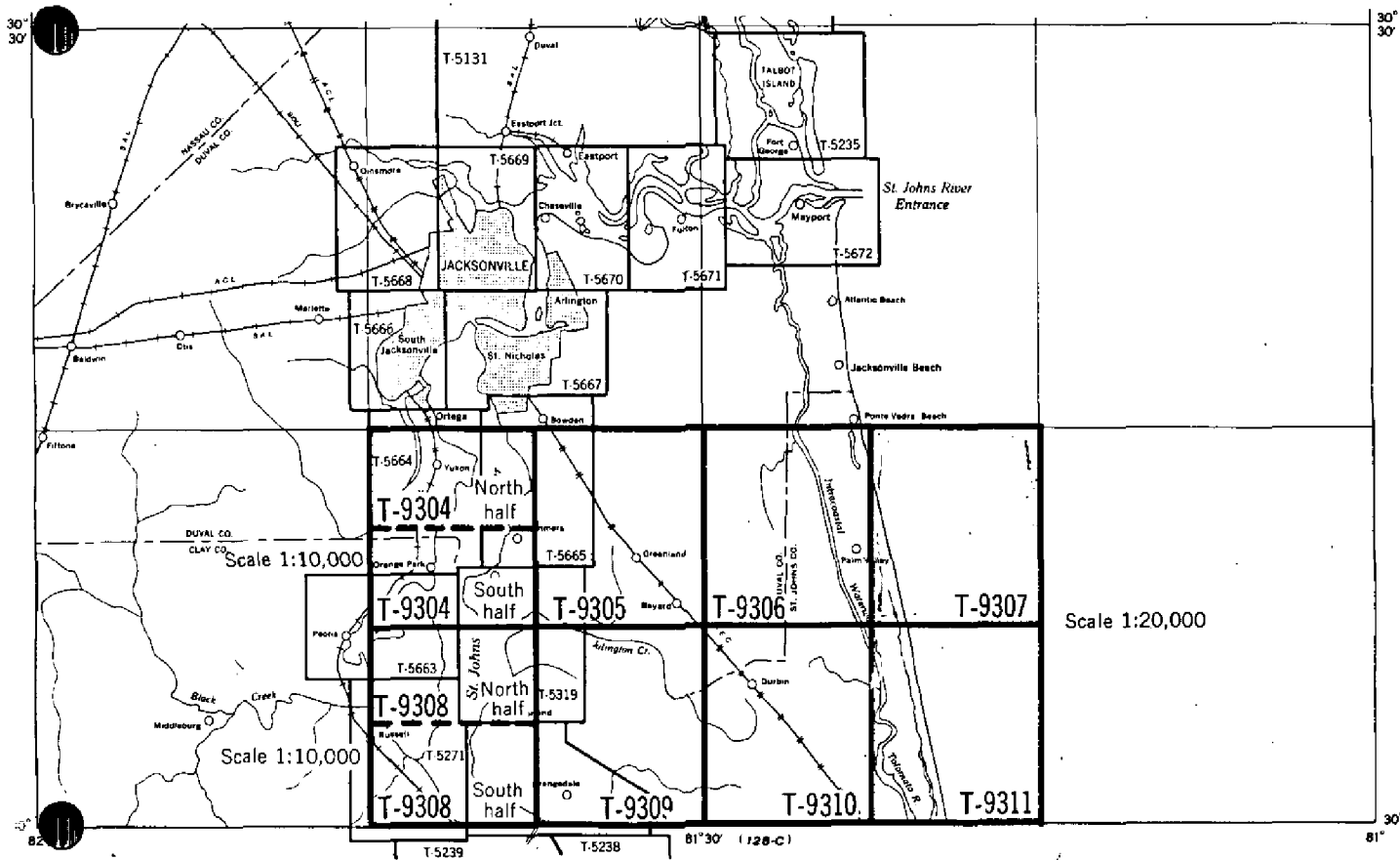
Land Area (Sq. Statute Miles) (III): **7**
 Shoreline (More than 200 meters to opposite shore) (III): **8 Statute Miles**
 Shoreline (Less than 200 meters to opposite shore) (III): **0**
 Control Leveling - Miles (II): **7.5**
 Number of Triangulation Stations searched for (II): **5** Recovered: **2** Identified: **1**
 Number of BMs searched for (II): **5** Recovered: **2** Identified: **2**
 Number of Recoverable Photo Stations established (III): **2**
 Number of Temporary Photo Hydro Stations established (III): **0**

Remarks:

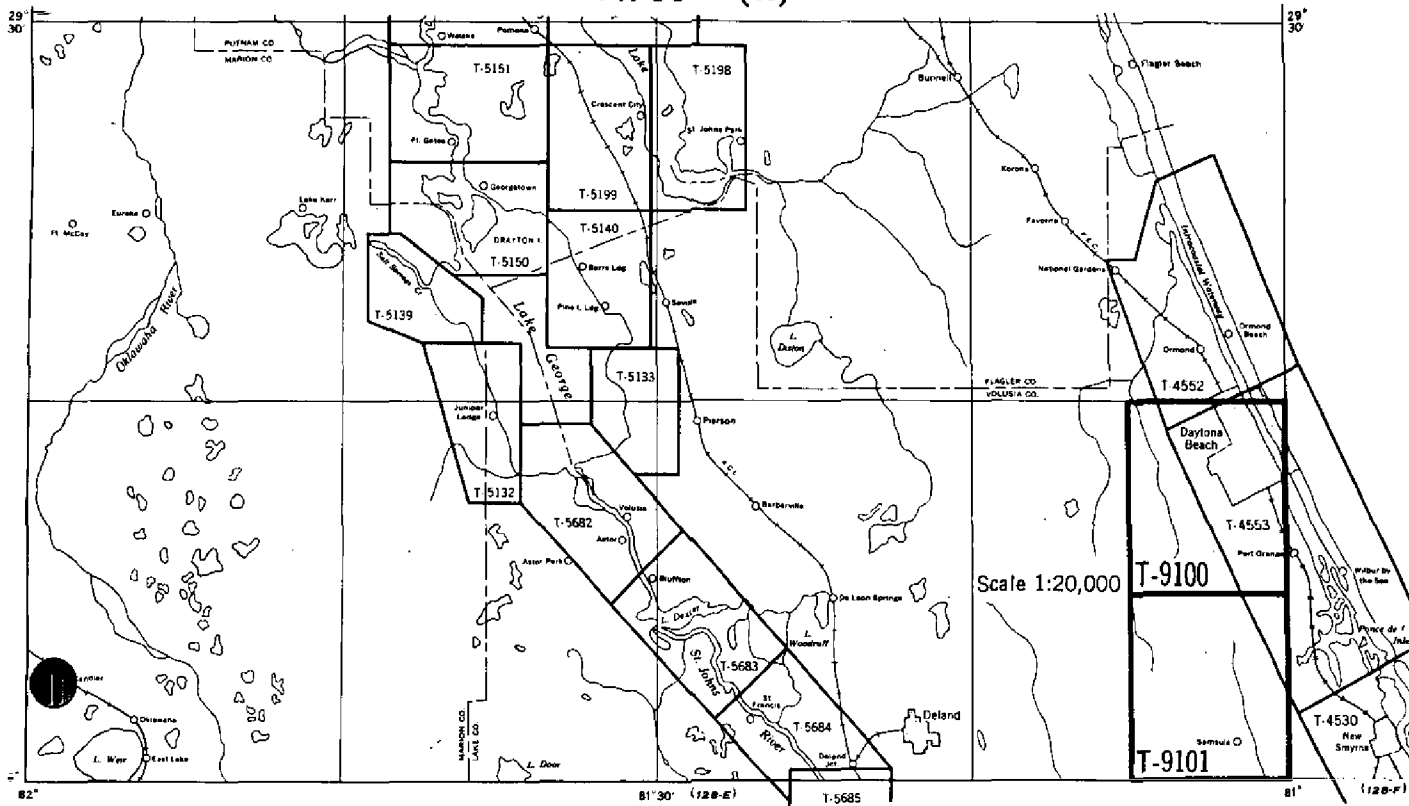
TOPOGRAPHIC MAPPING PROJECT

FLORIDA, East Coast

PH-35-A (48)



PH-35-B (48)



Summary to Accompany Topographic Map T-9307

Topographic map T-9307 is one of ten topographic maps in project Ph-35(48) and is the northeasternmost map of the project. It covers land area south of Ponte Vedra Beach and a portion of the Atlantic Ocean.

Project Ph-35(48) is a graphic compilation project. Field work in advance of compilation included the recovery of control, complete field inspection, contouring directly on the photographs by planetable methods, the investigation of boundaries and geographic names.

Map T-9307 was compiled at a scale of 1:20,000, using single-lens photographs taken in 1949. It covers $7\frac{1}{2}'$ in latitude by $7\frac{1}{2}'$ in longitude. The entire map was field edited. After the addition of hydrography, the map will be forwarded to the Geological Survey for publication as a standard topographic quadrangle.

Items registered under T-9307 will include a descriptive report, a ~~cloth-mounted lithographic~~ print of the manuscript and a cloth-mounted color print of the published map.

FIELD INSPECTION REPORT
 QUADRANGLE T-9307
 30-07-30/81-15-00
 PROJECT PH-35-A(48)

Harry F. Garber, Chief of Party

The field work for this quadrangle was done in accordance with Instructions, dated 30 December 1949, Project Ph-35(48), under the direction of Joseph K. Wilson, Supervisor. Field work, in addition to those phases listed on Pages 2 and 3, was done by the following personnel:

<u>Name and Title</u>	<u>Phase</u>	<u>Date</u>
Henry R. Spies	Horizontal Control	1 Feb. 1950 to
Cartographic Survey Aid	Recovery	15 Feb. 1950
Leo F. Beugnet	Horizontal Control	15 March 1950 to
Cartographic Survey Aid	Recovery and Shoreline	15 April 1950

This report is written in accordance with Paragraph 724 of the Preliminary Edition of the Topographic Manual, dated June, 1949.

2. AREAL FIELD INSPECTION

This quadrangle lies in the extreme northeast portion of St. Johns County.

The quadrangle comprises a small portion of land along a barrier beach, which is adjacent to the Atlantic Ocean. The shoreline of the ocean bisects the sheet from North to South.

Florida State Highway 1A is the only highway within the quadrangle.* It runs in a North-South direction through the entire sheet.

**A small portion of Fla. 210 falls on quad. 5th R*
 The southern portion of the unincorporated village of Ponte Vedra Beach is the only settlement within the area.

The raising of cattle is the chief industry, while the area adjacent to the beach is used both as a winter and summer resort.

The sheet is composed of about 90% water and the remainder pine, palmetto, marsh and scrub oak.

No difficulty was encountered in the interpretation of the photographs. Sufficient classifications were made so that the compiler should have no great difficulty with the tones.

The field inspection is believed to be complete.

3. HORIZONTAL CONTROL

- (a) No supplemental control was established.
- (b) All stations are on the N.A. 1927 datum.
- (c) Stations not established by the US C & GS are:

<u>Station</u>	<u>Agency</u>	<u>Order</u>	<u>Datum</u>
E-14, 1934	Florida Geodetic Survey	Third	N.A. 1927
E-15, 1934	"	"	"
E-16, 1934	"	"	"
E-17, 1934	"	"	"
E-18, 1934	"	"	"

- (d) A search was made for all known control. Stations reported as "lost" or "not recovered" are:

E-14 (Fla. Geod. Sur.), 1934
 E-16 (Fla. Geod. Sur.), 1934
 E-17 (Fla. Geod. Sur.), 1934

4. VERTICAL CONTROL

- (a) A search was made for all known vertical control. Bench marks in the quadrangle are:

<u>Name</u>	<u>Agency</u>	<u>Order</u>
E-14	Florida Geodetic Survey	Third
E-15	"	"
E-16	"	"
E-17	"	"
E-18	"	"

See § 3(d)
 above

- (b) Seven and five-tenths miles of supplemental levels were run with a Wye level, beginning and closing on bench marks of third order accuracy or better. The greatest error of closure on any line was 0.38 feet. No adjustment was made.

(c) The first and last fly level points are 07-1 and 07-6.

(d) Inapplicable.

5. CONTOURS AND DRAINAGE

The contouring was done by planetable methods directly on single-lens photographs (1:20,000 scale), at a contour interval of five (5) feet.

The natural drainage in the quadrangle is by the Guano River.

Along the barrier beach adjacent to the Atlantic Ocean, there is an area of many irregular sand dunes, which rise to a height of forty-eight (48) feet. These sand dunes, for the most part, are not subject to rapid changes as in so many areas along the Atlantic Coast, because of the heavy growth of palmetto growing on them.

An extra set of single-lens photographs, which were cut into strips and folded especially to facilitate the use of pocket stereoscopes, were furnished this party. These photographs were used daily in the field by the topographer, and it is believed that the quality of the field work will show considerable improvement over past methods.

6. WOODLAND COVER

The cover was classified in accordance with Paragraph 5433 of the Preliminary Edition of the Topographic Manual, dated June, 1949.

See § 58

7. SHORELINE AND ALONGSHORE FEATURES

(a) The only shoreline on this sheet is the area along the Atlantic Ocean. Measurements from identifiable points on the photographs were made to the high-water line along the beach, at approximately three-quarter mile intervals.

See § 59

The shoreline for this quadrangle was inspected on single-lens photographs (1:20,000 scale).

(b) The low-water line was located by the same methods used on the high-water line.

(d) Bluffs - Along this portion of the Atlantic Ocean, sand dune heights range from 20 to 40 feet and are depicted by the contours.

(e) There are no docks, wharves, piers, landings, etc. within the quadrangle.

(f) There are no submarine cables within the quadrangle.

8. OFFSHORE FEATURES

There were no offshore features noted during the field inspection.

9. LANDMARKS AND AIDS

- (a) No landmarks for nautical charts are recommended.
- (b) No interior landmarks are recommended.
- (c) There are no aeronautical aids within the quadrangle.
- (d) There are no fixed aids to navigation within the quadrangle.

10. BOUNDARIES, MONUMENTS AND LINES

A Special Report On Boundaries* will be submitted at a later date by Joseph K. Wilson, Cartographer.

** Filed under project number in Div. of Photogrammetry*
There were no section corners or land grant corners recovered in this quadrangle. *Ser 560*

This entire sheet falls within Commissioner's District No. 1 in St. Johns County.

11. OTHER CONTROL

Two topographic stations were established and are reported on Form 524, namely:

Able, 1950

Bake, 1950

12. OTHER INTERIOR FEATURES

All roads and buildings have been classified in accordance with Paragraph 5441 and 5446 of the Preliminary Edition of the Topographic Manual, dated June, 1949.

There are no bridges over navigable waters within the quadrangle.

13. GEOGRAPHIC NAMES

This is the subject of a "Special Report" which was submitted by Joseph K. Wilson, Cartographer on 21 July 1950. *Filed in Geo. Names Section, Div. of Charts.*

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

A Coast Pilot Report for the project was submitted by the Chief of Party in July, 1950. There are no other reports or special data, except as noted in Paragraphs 10 and 13.

25 January 1951

Submitted by:

Martin C. Moody
Martin C. Moody
Cart. Sur. Aid

1 February 1951

Approved by:

Harry F. Garber
Harry F. Garber
Chief of Party

Photogrammetric Plot Report

This report which covers all surveys
of Project Ph-35(48), Parts A & B, is filed
as part of Descriptive Report T-9101.

COMPILATION REPORT T-9307PHOTOGRAMMETRIC PLOT REPORT.

Submitted with T-9101.

31. DELINEATION.

The manuscript was delineated by the graphic method.

Discrepancies are noted on the discrepancy overlay.

32. CONTROL.

Adequate control was provided. Identification was positive; density and placement were good.

33. SUPPLEMENTAL DATA.

None used or available.

GLO plats were used. ENR

34. CONTOURS AND DRAINAGE.

The five-foot contour drawn by the field inspector along the coast was moved inland several meters. See Item 31 and the discrepancy overlay. No difficulty was encountered in delineating the drainage. *See §56*

35. SHORELINE AND ALONGSHORE DETAILS.

Shoreline inspection was good and no difficulty was encountered in the delineation of shoreline and alongshore details. Mean high water and mean low water lines have been shown according to distances measured by the field inspector. *See §59*

36. OFFSHORE DETAILS.

None.

37. LANDMARKS AND AIDS.

None.

38. CONTROL FOR FUTURE SURVEYS.

Two (2) cards, Form 524, are being submitted herewith.

These stations have been listed under Item 49.

39. JUNCTIONS.

This quadrangle joins Survey T-9306 to the west and T-9311 to the south. Junctions are in agreement.

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement necessary.

See § 53

41. PUBLIC LAND LINES.

No section corners, grant corners or points on line were recovered. Those shown have been extended from corners and lines established within Quadrangles T-9306 to the west and T-9311 to the south. All corners are theoretical and lines are unreliable.

See § 60

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with U. S. Geological Survey Palm Valley quadrangle, scale 1:62,500, dated 1918, reprinted 1943. These two quadrangles appear to be in good agreement. Only minor changes have taken place.

See § 62 & § 63

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with U. S. C. & G. S. Nautical Chart No. 842; scale 1:40,000, edition of July 1944, bearing a correction dated 3 December 1950. No major differences were noted.

See § 65

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

Richard A. Reece
Richard A. Reece
Cartographic Survey Aid

Approved and Forwarded:

Arthur L. Wardwell
Arthur L. Wardwell
Chief of Party

49. NOTES FOR THE HYDROGRAPHER.

The following are recoverable topographic stations which may be useful to the hydrographer.

ABLE, 1950

BAKE, 1950

FIELD EDIT REPORT
Project Ph-35A(48)
Quadrangle T-9307

Paul Taylor, Chief of Party

51. METHODS

The field edit of this area was accomplished by standard surveying methods in conjunction with visual inspection during the month of January, 1952.

All additions and deletions have been noted on the field edit sheet. Corrections were made on the Field Edit Sheet and field photographs numbers 218 and 219. All work shown on the photographs is properly referenced on the Discrepancy Print.

The reviewer's questions are answered on the Discrepancy Prints, Field Edit Sheet, photographs, and this report.

A legend appears on the Field Edit Sheet which is self-explanatory.

52. ADEQUACY OF COMPILATION

The map compilation, in general, is adequate and will be complete after field edit data has been applied.

See §66

53. MAP ACCURACY

The horizontal accuracy of the map detail is relatively good. *See §66*

The vertical accuracy of the contouring is good. Two very small areas were contoured during the field edit of the manuscript. They are located at latitudes $30^{\circ}09'$ and $30^{\circ}10'$.

54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

It is believed that Mr. Sam W. Faver, registered land surveyor, of Palm Valley, Florida, is best qualified to examine a proof copy of this work.

56. CONTOURS AND DRAINAGE

Refer to item 34 - Compilation Report.

A plane table check of the 5-foot contour along the Ocean beach is indicated on the Field Edit Sheet.

The topographic expression of the contours on the sand dunes of the Atlantic Ocean barrier beach is good. The scale on which these contours were drawn necessitates the inclusion of more than one dune within the confines of a particular contour. See paragraph 5432 (h) of the Topographic Manual.

57. AREAL FIELD INSPECTION

Refer to item 2 - Field Inspection Report.

The majority of the areas classified as "Ma." on the Field Edit Sheet, are intermittent ponds, with the exception of the Guano River area. Corrections have been made on the Field Edit Sheet and photographs numbers 218 and 219.

58. WOODLAND COVER

Refer to item 6 - Field Inspection Report.

The different tones on the photographs do not indicate too clearly the various types of vegetation in this area. For example, some of the areas under stereoscope appear as "scrub", but actually are trees of the scrub oak type, 8 to 12 feet high. Corrections have been made on the Field Edit Sheet and the photographs.

59. SHORELINE AND ALONGSHORE FEATURES

Refer to item 7 - Field Inspection Report.

Mean high water and mean low water lines were located by plane table methods in five different areas along the ocean beach and have been noted on the Field Edit Sheet.

One wreck was located near latitude 30°09'30".

60. BOUNDARIES, MONUMENTS AND LINES

Refer to item 10 - Field Inspection Report.

Eleven boundary monuments were recovered and located on the Field Edit Sheet.

JUNCTIONS

Satisfactory junctions were made with T-9306 to the west and T-9311 to the south. There is no contemporary survey to the north.

19 February 1952
Submitted by:

James E. Hundley
James E. Hundley,
Cartographer

17 March 1952
Approved by:

Paul Taylor
Paul Taylor
Lt. Comdr., USC&GS
Chief of Party

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T-

1. Projection and grids J.G. 2. Title J.G. 3. Manuscript numbers J.G. 4. Manuscript size J.G.

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy M.M.S. 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) J.G. ~~X~~ 7. Bench marks J.G. ~~X~~ 8. Photogrammetric plot report J.G. 9. Detail points J.G.

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline J.G. 13. Low-water line J.G. 14. Rocks, shoals, etc. J.G. ~~X~~ 15. ~~X~~ 16. ~~X~~ 17. ~~X~~ 18. Other alongshore physical features J.G. 19. Other along-shore cultural features J.G.

PHYSICAL FEATURES

20. Water features J.G. 21. Natural ground cover J.G. 22. Planetable contours J.G. ~~X~~ 23. ~~X~~ 24. Contours in general J.G. 25. Spot elevations J.G. 26. Other physical features J.G.

CULTURAL FEATURES

27. Roads J.G. 28. Buildings J.G. ~~X~~ 29. ~~X~~ 30. Other cultural features J.G.

BOUNDARIES

31. Boundary lines J.G. 32. Public land lines J.G.

MISCELLANEOUS

33. Geographic names J.G. 34. Junctions J.G. 35. Legibility of the manuscript J.G. 36. Discrepancy overlay J.G. 37. Descriptive Report J.G. 38. Field inspection photographs J.G. 39. Forms J.G. 40. JESSE A. GILES *Jesse A. Giles* WILLIAM A. RASURE *William A. Rasure*
Reviewer Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Richard A. Reese
Compiler

William A. Rasure
Supervisor

43. Remarks:

48. GEOGRAPHIC NAME LIST.ATLANTIC OCEAN ✓COMMISSIONERS DISTRICT NO. 1 ✓DIEGO PLAINS ✓FLORIDAGuanco River ✓MICKLER LANDING ✓PONTE VEDRA BEACH ✓SAINT JOHNS COUNTY ✓STATE ALA ✓STATE 210 ✓GEOGRAPHIC NAME LIST - (GRANTS)DEWEES, PHIL AND MARY ✓FLOYD, DAVID ✓GIBBS, Z. P. ✓LEVY, MOSES E. ✓MESTRE, PEDRO ✓ *?SALANA, P. ✓ 3SANCHEZ, F.P. ✓ (2 grants)SANCHEZ, F.X. ✓SANCHEZ, NICHOLAS (2 grants)

Names approved
9-30-53
A.J.W.

Review Report
Topographic Map T-9307
1 October 1953

62. Comparison with Registered Topographic Surveys.-

T-784	1:20,000	1860-61
T-4084	"	1924

Survey T-9307 supersedes these prior surveys for nautical charting purposes.

63. Comparison with Maps of Other Agencies.-

Palm Valley, Florida, quadangle (USGS) 1:62,500 1918
Cultural changes since this date.

64. Comparison with Contemporary Hydrographic Surveys.- None

65. Comparison with Nautical Charts.-

842 1:40,000 1952 corr. to 53 7/20

A wreck at latitude 30° 09.5' should be added to the chart.

66. Adequacy of Results and Future Surveys.- This map meets the National Standards of map accuracy and complies with project instructions.

Reviewed by:

Everett H. Ramey
Everett H. Ramey

APPROVED

L. C. Lande
Chief, Review Branch
Div. of Photogrammetry

L. W. Swanson
Chief, Div. of Photogrammetry

23 Oct 1953

Max B. Ellis
Chief, Nautical Chart Branch
Division of Charts

J. B. Swell
Chief, Div. of Coastal Surveys

History of Hydrographic Data For T-9307

Hydrography was added to the map manuscript in accordance with the general specifications of 18 May 1949.

Depth curves and soundings are in feet at mean low water and originate with the following C&GS hydrographic surveys:

H-3964	1:60,000	1917
H-4373	1:20,000	1924

Comparison was made with the following nautical charts:

1243	1:80,000	1940 corrected to 52-1/7
842	1:40,000	1952 corrected to 53 7/20

Hydrography was compiled by Everett H. Ramey
23 October 1953 and verified by O. Svendsen.


Everett H. Ramey

NAUTICAL CHARTS BRANCH

SURVEY NO. *T-930.7*

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.