9305

Diag. Cht. Nos. 685 and 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-9305

LOCALITY

State Florida

General locality St. Johns River

Locality Bayard

1949-52

CHIEF OF PARTY

H.F.Garber, Chief of Field Party

A.L.Wardwell, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE January 2, 1959

8-1870-1 (1)

9305

DATA RECORD

T-9305

Project No. (II): Ph-35A (48) Quadrangle Name (IV):

Field Office (II): Jacksonville, Florida 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): AUG 28 1951 Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 3/20/58

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): LORETTO, 1932

Lat.: 30°09' 41".474 (1277.1m) Long.: 81°33' 55".123 (1475.0m) Adjusted ~~Unadjusted~~

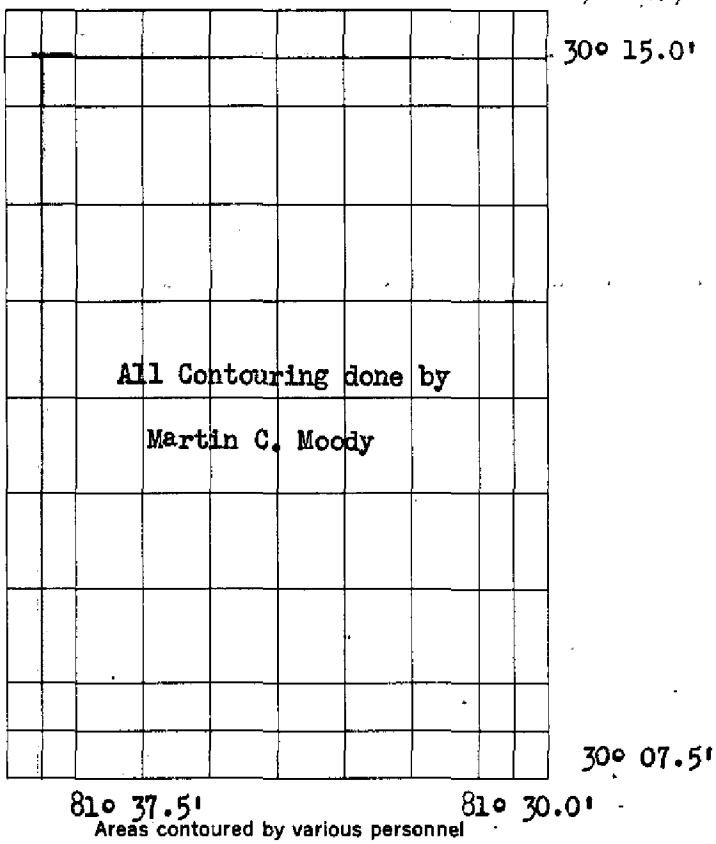
Plane Coordinates (IV): State: Zone:

Y= X=

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.

M-2618-12(4)



Areas contoured by various personnel

(Show name within area)

(II) (III)

DATA RECORD

Field Inspection by (II): Martin C. Moody, Cartographic Survey Aid Date: 15 January 1950 to 1 May 1950

Planetable contouring by (II): Martin C. Moody, Cartographic Survey Aid Date: 3 January 1950 to 25 April 1950

Completion Surveys by (II): James E. Hundley Date: 7 May, 1952 Nov 1952

Mean High Water Location (III) (State date and method of location): ~~May, 1950~~ Air Photo Compilation Photographs 1949

Projection and Grids ruled by (IV): S. R. (W.O.) Date: 5 October 1950

Projection and Grids checked by (IV): S. R. (W.O.) Date: 5 October 1950

Control plotted by (III): R. J. Pate Date: 18 October 1950

Control checked by (III): I. I. Saperstein Date: 17 November 1950

Radial Plot ~~or Stereoscopic control extension~~ by (III): M. M. Slavney Date: 12 December 1950

Stereoscopic Instrument compilation (III): Planimetry Inapplicable Date:

Contours Date:

Manuscript delineated by (III): R. Dosset Date: 26 March 1951

Photogrammetric Office Review by (III): J. A. Giles Date: 25 May 1951

Elevations on Manuscript checked by ~~(II)~~ (III): R. Dossett Date: 23 March 1951

Camera (kind or source) (III): Fairchild Cartographic - 6" Metrogon lens, Camera "O"

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
49-O-258	4-16-49	10:44	1:20,000	~~2.0~~
259	"	10:45	"	"
260	"	10:46	"	"
261	"	10:47	"	"
262	"	10:48	"	"
266	"	10:56	"	"
267	"	10:57	"	" W.G.R.
268	"	10:58	"	"
269	"	10:59	"	"
270	"	10:59	"	"
271	"	10:60	"	"
282	"	11:11	"	~~2.0~~ 0.2 E.H.R.
283	"	11:12	"	"
284	"	11:13	"	"
285	"	11:14	"	"
286	"	11:15	"	"
287	"	11:16	"	"

Tide (III)

Ratio of Ranges	Mean Range	Spring Range
---	4.5	5.3
0.2	0.7	0.8

Reference Station: MAYPORT
Subordinate Station: ORANGE PARK
Subordinate Station:

Washington Office Review by (IV): Everett H. Ramey Date: 19 Aug 1953

Final Drafting by (IV): A.P. Berry Date: 6/26-58

Drafting verified for reproduction by (IV): Wm O. Hallum Date: 9-18-58

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 64
Shoreline (More than 200 meters to opposite shore) (III): 6.0
Shoreline (Less than 200 meters to opposite shore) (III): 6.0
Control Leveling - Miles (II): 40.0
Number of Triangulation Stations searched for (II): 34 Recovered: 27 Identified: 11
Number of BMs searched for (II): 28 Recovered: 19 Identified: 6
Number of Recoverable Photo Stations established (III): 12
Number of Temporary Photo Hydro Stations established (III): None

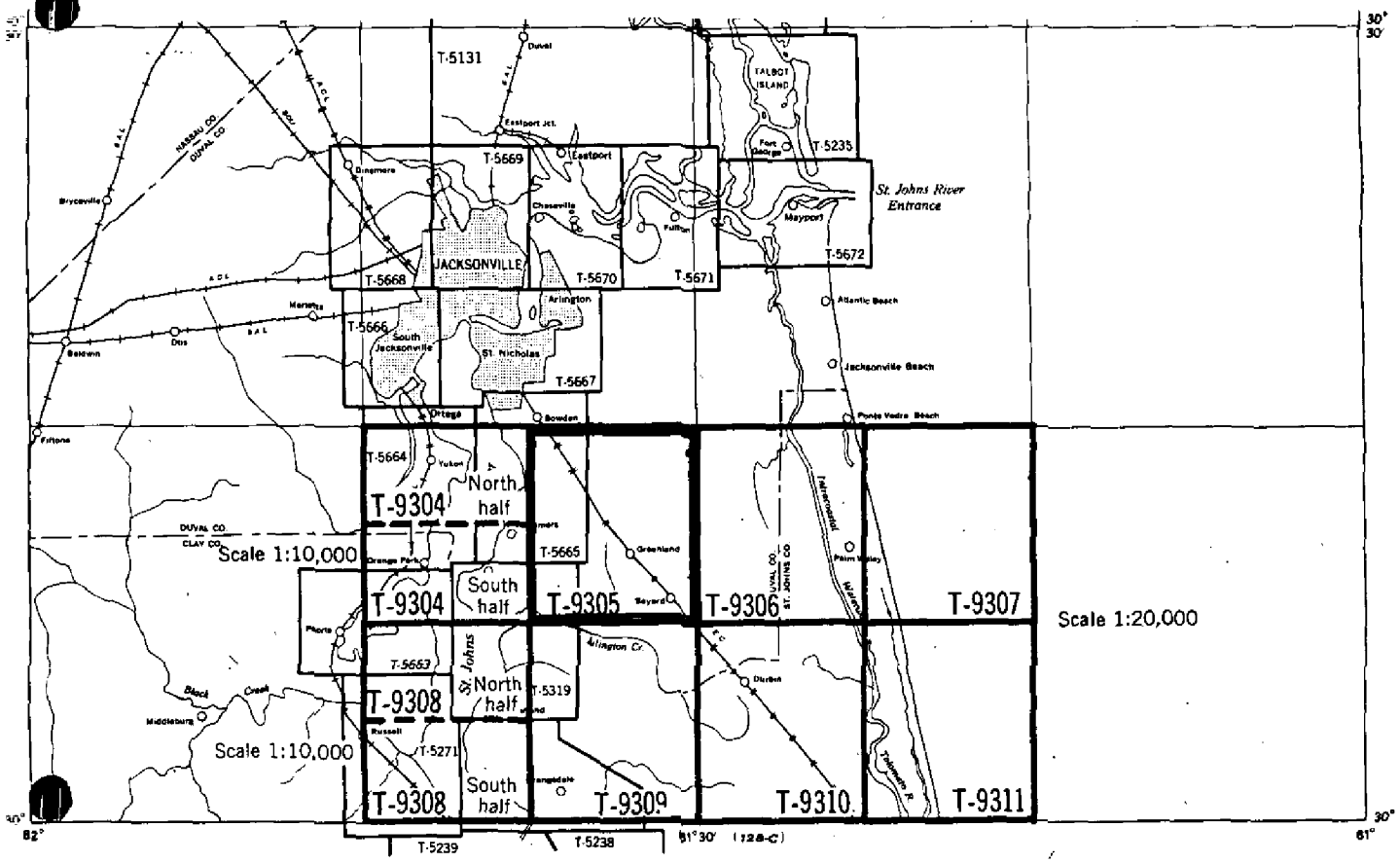
Remarks:

M-2618-12(4)

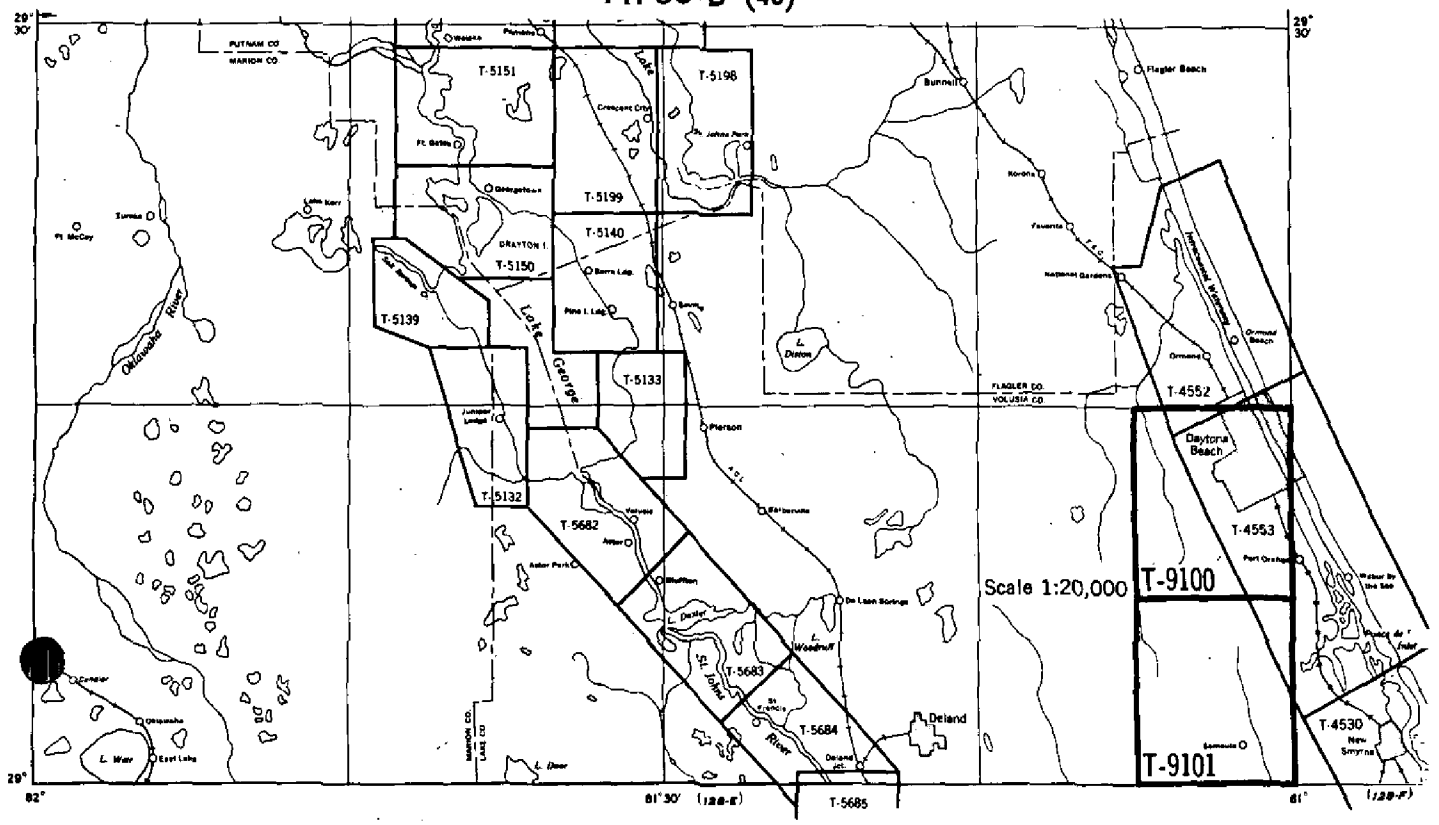
TOPOGRAPHIC MAPPING PROJECT

FLORIDA, East Coast

PH-35-A (48)



PH-35-B (48)



Summary to Accompany Topographic Map T-9305

Topographic map T-9305 is one of ten such maps in project Ph-35(48). It covers Julington Creek and a small portion of the St. Johns River and the land area to the eastward.

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

This map 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 hydrographic information from source material in the Nautical Chart Branch, the map will be forwarded to the Geological Survey for publication as a standard topographic quadrangle.

Items registered under T-9305 will include the descriptive report, a ~~cloth-mounted lithographic~~ CRONAR print of the manuscript at a scale of 1:20,000, and a cloth-mounted color print of the published map at a scale of 1:24,000.

FIELD INSPECTION REPORT
QUADRANGLE T-9305
30-07-30 / 81-30-00
Project Ph-35A (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:

Name and Title	Phase	Date
Leo F. Beugnet Cartographic Survey Aid	Horizontal Control Recovery & Shoreline	15 January 1950 15 February 1950
Henry R. Spies Cartographic Survey Aid	Horizontal Control Recovery	15 February 1950 1 March 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

There are four small villages within the quadrangle, namely, Bayard, Greenland, Loretto and Sunbeam; none of which are incorporated, Bayard being the largest.

U. S. Highway No. 1 runs in a northwest-southeast direction through the entire quadrangle, and is paralleled by the Florida East Coast Railroad. A small portion of State Highway No. 13 runs through the northwest corner of the quadrangle and the entire area is adequately served by secondary roads connecting these two. U. S. Highway No. 1 was under construction during field inspection. It is to be widened and this fact is called to the attention of the field editor.

The railroad stations at Sunbeam, Greenland, and Bayard were razed several years ago.

A very small portion of the St. Johns River lies in the northwest section of the quadrangle and a small part of Julington Creek lies in the southwestern portion.

The raising of cattle is the chief industry while lumbering and turpentining are carried on in a small scale. There is little cultivation within the quadrangle.

The vegetation consists of about 5% cultivated area, 30% cypress swamp and the remainder palmetto, pine and scrub oak.

No difficulty was encountered in the interpretation of the photographs. The light grey tones denote palmetto, the areas of dark grey tones are cypress swamp, and the spotted grey tones are mixed palmetto and pines.

The field inspection is believed to be complete except for the highway mentioned in the above paragraph.

3. HORIZONTAL CONTROL

(a) No supplemental control was established.
(b) All stations are on the NA 1927 datum.
(c) Stations not established by the USC&GS are:

Station	Agency	Order	Datum
AJ-5, 1934	Florida Geodetic Survey	Third	NA 1927
AJ-6, 1934	" " "	"	" "
AJ-7, 1934	" " "	"	" "
AJ-8, 1934	" " "	"	" "
AJ-9, 1934	" " "	"	" "
AJ-10, 1934	" " "	"	" " — Also AJ-11
AJ-100, 1934	" " "	"	" "
AJ-101, 1934	" " "	"	" "
AJ-102, 1934	" " "	"	" "
AJ-103, 1934	" " "	"	" "
AJ-104, 1934	" " "	"	" "
AJ-105, 1934	" " "	"	" "
TT73 CWH, 1947	U. S. Geological Survey	"	" "
TT74 CWH, 1947	U. S. Geological Survey	"	" "
Primary Traverse Station No. 2K, 1917	U. S. Geological Survey	"	" "

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

AJ-101 (Fla. Geod. Sur.), 1934
AJ-102 (Fla. Geod. Sur.), 1934
AJ-105 (Fla. Geod. Sur.), 1934
Primary Traverse Station No. 2K (USGS), 1917
AJ-104 (Fla. Geod. Sur.), 1934 Recovered in disturbed condition. CHK

4. VERTICAL CONTROL

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

Name	Agency	Order
J-3	U. S. Coast and Geodetic Survey	First
K-3	U. S. Coast and Geodetic Survey	First
L-3	U. S. Coast and Geodetic Survey	First
AJ-5	Florida Geodetic Survey	Third
AJ-6	" " "	"
AJ-7	" " "	"
AJ-8	" " "	"
AJ-9	" " "	"
AJ-10	" " "	" — Also AJ-11
Primary Traverse Station No. 2K	U. S. Geological Survey	" Not recovered
B.M. 38	U. S. Geological Survey	" Not recovered.

(b) Forty miles of fly levels were run beginning and closing at bench marks. The highest closure on any line was 0.37 foot. All lines were adjusted.

(c) The first and last fly level points are 05-1 and 05-34.

(d) Inapplicable.

5. CONTOURS AND DRAINAGE

The contouring was done by planetable methods directly on single-lens photographs, (1:20000 scale), at a contour interval of five (5) feet.

The natural drainage is by Pottsburg Creek in the northern section; by Pablo Creek* in the northeastern section; by Goodby's ~~Lake~~ Cr. in the northwestern section and Julington Creek in the southwestern portion; all of which drain into the St. Johns River.

* Pablo Cr drains eastward to Intracoastal Waterway

A large portion of the quadrangle is very flat and contains numerous isolated cypress swamps and intermittent ponds. The natural drainage of those areas is by seepage. The highest natural elevation within the quadrangle is 66 feet, which is located in the north central part.

6. WOODLAND COVER

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

7. SHORELINE AND ALONGSHORE FEATURES

(a) Only a very small portion of the St. Johns River and Julington Creek fall within the limits of the quadrangle. The banks of the river and creek have undergone no change since photography. The field inspector has made measurements with a steel tape (about 3/4 mile apart) from identifiable points on the photographs to denote the location of the mean high water line.

The shoreline for this quadrangle was inspected on single-lens photographs (1:10,000 scale).

(b) The mean tide range in this portion of the St. Johns River is about 0.8 foot. However the water level is affected more by prevailing winds than any other factor. No attempt was made to locate the mean low-water line because of the presence of water hyacinths during both field inspection and photography.

(c) Inapplicable.

(d) Bluffs

Along this portion of the St. Johns River, bluff heights range from 10 to 15 feet and are depicted by the contours.

(e) All docks, wharves, piers, landing, etc. have been labeled on the photographs.

(f) There is one submarine cable within the limits of this quadrangle; it was located on the photograph.

8. OFFSHORE FEATURES

Inapplicable.

9. LANDMARKS AND AIDS

(a) One landmark (San Jose Golf Club Watertank) is recommended on Form 567* for charting. * Copy attached.

(c) One aeronautical aid (Airway Beacon) is recommended on Form 567 for charting. See §57

(d) There are no fixed aids to navigation within the limits of the quadrangle.

10. BOUNDARIES, MONUMENTS AND LINES

These are covered in a "Special Boundary Report", which will be submitted at a later date by ~~Leo F. Beugnet, Cartographic Survey Aid~~ * Joseph K. Wilson. Filed under project data, Div. of Photogrammetry. Eight section corners were recovered and identified.

This entire quadrangle falls within Commissioner's District No. 5 in Duval County except for a very small portion of Commissioner's District No. 1 in St. Johns County.

11. OTHER CONTROL

Recoverable Topographic Station established are:

Airway Beacon, 1950 See §57
Easy, 1950
Fire, 1950
Section Corner 28/27 33/34 T3S-R27E, 1950

Section Corner 33/34 4/3 T3S-T4S-R27E, 1950

Section Corner 32/33 5/4 T3S-T4S-R27E, 1950

See §58

Section Corner 3/2 10/11 T4S-R27E, 1950

Section Corner 23/24 26/25 T3S-R27E, 1950

Section Corner 1/6 12/7 T4S-R27E-R28E, 1950

Section Corner 15/16 21/22 T4S-R27E, 1950

Section Corner 18/17 19/20 T4S-R28E, 1950

Pt. on Line of David Scurry Grant
Pt. on Line of Francis Richard Grant

Acre 1950 ENR

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.

All bridge information for the area covered by this report as listed in the U. S. Engineers, List of Bridges Over Navigable Waters in the United States, dated January 1, 1948 was verified in the field, all clearances were carefully measured with a steel tape and the published descriptions and clearances were found to be correct except for the following descrepancies; which were reported to the Local District Engineer and a copy of which is attached to this report. Sec §59

There is only one bridge over navigable water within the quadrangle limits.

The Florida East Coast Railroad maintains a railroad yard at Bowden. The outer limits of the tracks have been noted on the photograps and a blueprint copy of the railroad yards is submitted with the quadrangle data.

13. GEOGRAPHIC NAMES 8544

This is the subject of a "Special Report", * which will be submitted at a later date by Joseph K. Wilson, Cartographer.

* Filed in Geographic Names Section.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

A Coast Pilot Report for the area will be submitted by Leo F. Beugnet at a later date. There are no other reports or special data, except as noted in Paragraph 10, 12 and 13, for this quadrangle. Copies of the Land Line Plats will be forwarded upon completion of this project.

5 May 1950
Submitted by:

Martin C. Moody

Martin C. Moody
Cartographic Survey Aid

Approved and Forwarded
May 1950

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.

MAP T- 9305 PROJECT NO. Fh-35A(48) SCALE OF MAP 1:20,000 SCALE FACTOR 1.000

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
BOWDEN, 1934	G.Ps. 287	N.A. 1927	30 14 25.669			790.4 (1,057.1)	
			81 36 04.903			131.1 (1,473.1)	
GOODSBY 2, 1934	G.Ps. 289	"	30 12 54.789			1,687.1 (160.4)	
		-	81 37 26.000			695.3 (909.3)	
LORETTO, 1932	G.Ps. 3	"	30 09 41.474			1,277.1 (570.4)	
		-	81 33 55.123			1,475.0 (130.5)	
JAX, 1932	"	"	30 18 40.232		NORTH OF	1,238.9 (608.7)	
	-	-	81 33 18.205		PROJECT	486.4 (1,116.7)	
SAN JOSE GOLF CLUB WATER TANK FINIAL, 1932	G.Ps. 31	"	30 14 23.109			711.6 (1,135.9)	
		-	81 37 01.667			44.6 (1,559.6)	
AJ 3, 1934 (Fla. Geod. Sur.)	Duval Co. Sta.Desc.	"	2,156,664.48	6,664.48 (3,335.52)	N. of		
			304,044.27	4,044.27 (5,955.73)	Project		
AJ 4, 1934 (Fla. Geod.Sur.)	"	"	2,152,496.77	2,496.77 (7,503.23)	N. of		
	-	-	306,567.98	6,567.98 (3,432.02)	Project		
AJ 5, 1934 (Fla. Geod.Sur.)	"	"	2,147,548.49	2,548.49 (2,451.51)			
	-	-	309,563.52	4,563.52 (436.48)			
AJ 6, 1934 (Fla.Geod. Sur.)	"	"	2,139,523.24	9,523.24 (476.76)			
	-	-	314,421.61	4,421.61 (5,578.39)			
AJ 7, 1934 (Fla. Geod.Sur.)	"	"	2,134,064.90	4,064.90 (5,935.10)			
	-	-	317,727.57	7,727.57 (2,272.43)			
AJ 8, 1934 (Fla. Geod.Sur.)	"	"	2,130,898.43	898.43 (9,101.57)			
	-	-	319,798.72	9,798.72 (201.28)			
AJ 9, 1934 (Fla. Geod. Sur.)	"	"	2,119,852.83	9,852.83 (147.17)			
	-	-	329,394.61	9,394.61 (605.39)			

1 FT. = .3048006 METER

COMPUTED BY: I. I. Saperstein DATE 11 July 1950 CHECKED BY: R. A. Reece DATE 2 August 1950

M-2388-12

Photogrammetry

MAP T-9305 PROJECT NO. P$_{II}$-35A(48) SCALE OF MAP 1:20,000 SCALE FACTOR 1.000

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
AJ 10, 1934 (Fla. Geod. Sur.)	Duval Co. Sta.Desc.	N. A. 1927	2,112,322.20 335,936.93	2,322.20 (7,677.80) 5,936.93 (4,063.07)			
AJ 18, 1934 (Fla. Geod.Sur.)	"	"	2,173,868.00 312,788.21	3,868.00 (6,132.00) 2,788.21 (7,211.79)	N. of Project		
AJ 100, 1934 (Fla.Geod. Sur.)	"	"	2,118,590.05 310,394.52	8,590.05 (1,409.95) 394.52 (9,605.48)			
AJ 103, 1934 (Fla. Geod. Sur.)	"	"	2,134,019.42 304,971.88	4,019.42 (5,980.58) 4,971.88 (5,028.12)			
~~AJ 104, 1934 (Fla. Geod. Sur.)~~	"	"	~~2,112,321.54~~ ~~324,728.84~~	~~2,321.54 (7,678.46)~~ ~~4,728.84 (5,271.16)~~		Recovered in disturbed condition	
TT 73 CWH, 1947 (U.S.G.S.)	Orange Pk Quad. USGS	"	30 13 14.68 81 33 29.23			452.0 (1,395.5) 781.7 (822.9)	
TT 74 CWH, 1947 (U.S.G.S.)	"	"	30 13 20.64 81 31 50.21			635.5 (1,212.0) 1,342.7 (261.8)	
AJ 105, 1934 (Fla.Geod.Sur.)	Duval Co. Sta.Desc.	"	2,111,686.79 327,872.13	1,686.79 (8,313.21) 7,872.13 (2,127.87)		Put on back in red ink	
AJ 11, 1934 (Fla. Geo. Sur.)	"	"	2 106 654.81 340 854.07				

1 FT. = .3048006 METER

COMPUTED BY: I. I. Saperstein DATE 11 July 1950 CHECKED BY: R. A. Reece DATE 2 August 1950

M-2388-12

COMPILATION REPORT T-9305

PHOTOGRAMMETRIC PLOT REPORT.

Submitted with T-~~9103~~ 9101 EHR.

31. DELINEATION.

The graphic method was used.

The photographs were of reasonably good scale and of sufficient coverage to insure the delineation of all detail.

The field inspection was adequate.

32. CONTROL.

The identification, density and placement of horizontal control were adequate.

33. SUPPLEMENTAL DATA.

The plans of Florida East Coast R. R. Bowden freight yards were used for reference. GLO plats also used.

34. CONTOURS AND DRAINAGE.

No difficulty was encountered in the transference of the contours to the map manuscript.

All drainage was delineated as shown by the photographs and field inspection.

35. SHORELINE AND ALONGSHORE DETAILS.

The shoreline was delineated from office interpretation of the photographs combimed with chained distances indicated at intervals by the field inspector.

Alongshore details, such as piling, boat houses, bulkheads, etc., were indicated on the 1:10,000 photographs of Manuscript T-9304 and were transferred to the manuscript by use of the projector.

Shoreline inspection was adequate.

36. OFFSHORE DETAILS.

Not applicable.

37. LANDMARKS AND AIDS.

No unusual methods employed.

38. CONTROL FOR FUTURE SURVEYS.

Two (2) topographic stations are being submitted on Form 524. These topographic stations have been listed and included under Item No. 49. Forms 524 for G.L.O. corners under §11. EHR

39. JUNCTIONS.

A satisfactory junction has been secured with T-9304* on the western limits, T-9306 on the eastern limits, and T-9309 on the southern limits.

*Junction made during final review. EHR

While there is no contemporary survey on the north, junction is made with U. S. Corps of Engineers Quadrangle "JACKSONVILLE, 1:62,500, edition of 1918" on the north. See §60

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement required.

46. COMPARISON WITH EXISTING MAPS.

A comparison was made with U. S. C. & G. S. topographic maps T-5319 and T-5665, scale 1:10,000, compiled in 1939. Except for minor discrepancies due to time interval the comparison was good. See §62

Comparison was also made with U. S. Corps of Engineers Quadrangle "ORANGE PARK, 1:62,500 edition of 1918," which disclosed many discrepancies of a minor character, particularly relative to roads and trails.

47. COMPARISON WITH NAUTICAL CHARTS.

A comparison has been made with U.S.C.& G.S. Nautical Chart No. 685, scale 1:40,000, published June 1949 (2nd edition) and corrected to January 1950.

Comparison was limited to the extreme western portion of the map manuscript, including the fractional part of the shoreline of the St. Johns River. Sec 365

The maps listed under Item 46 appear to be the source of most of the topography on the Nautical Chart and the same differences are to be found between the map manuscript and the nautical chart as those mentioned under Item 46.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

Rudolph Dossett
Carto. Photo. Aid

Approved and Forwarded

Arthur L. Wardwell, Chief of Party

49. NOTES FOR THE HYDROGRAPHER.

Following is a list of topographic stations that may be useful to the hydrographer:

EASY, 1950

FIRE, 1950

ACRE, 1950 CHK

FIELD EDIT REPORT
PROJECT PH-35A(48)
QUADRANGLE T-9305

51. METHODS.

The field edit of this area was accomplished by standard surveying methods in conjunction with visual inspection. Actual field work started 20 March 1952 and was completed 16 April 1952.

All additions, corrections and deletions, with the exception of the new road (U. S. No. 1) beginning at Bayard, Florida, and running north to the quadrangle limits, are shown on the field edit sheet. (The new road is shown on an attached sketch.)

The reviewer's questions are answered on the discrepancy prints, field edit sheet and in this report.

A legend appears on the field edit sheet which is self-explanatory.

52. ADEQUACY OF COMPILATION.

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

53. MAP ACCURACY.

The horizontal accuracy of the map detail is relatively good.

The accuracy of the contouring is relatively good. See §66

Minor corrections in contours were made in small areas scattered throughout the quadrangle.

54. RECOMMENDATIONS.

None.

55. EXAMINATION OF PROOF COPY.

It is believed that Mr. Robert M. Angus, registered civil engineer and land surveyor, at 402 Hildebrandt Building, Jacksonville, Florida, is best-qualified to examine a proof copy of this work.

charted road. There are numerous paved roads connecting these two lanes which vary in width from 25 to 60 feet. The center-line of these connecting roads has been shown on the sketch. Each of the two lanes consists of asphalt pavement 24 feet wide.

Another new road, now under construction, begins at latitude 30° 10' 40", longitude 81° 33' 07" and runs thence in a northerly direction off the chart. The correct location of this road has been plotted on the field edit sheet from information obtained from the Florida State Road Department. The topography adjacent to the road is at present undergoing radical changes. However, it is believed that within the next three months it will be possible to indicate on a map the cuts and fills accurately enough to correct the contours accordingly. See Ltr 7Nov52 from Hundley (Copy attached)

The horizontal and vertical clearances of the bridge spanning Goodbys Creek are as follows: Horizontal Clearance - 33 feet; Vertical Clearance - 11 feet. This is a fixed bridge of concrete construction. The clearances were measured at the center span which is normal to channel.

60. JUNCTIONS.

A planetable traverse was run across the northern limits of this area and corrections to contours were made where necessary.

This quadrangle joins the ARLINGTON quadrangle, U.S.G.S., scale 1:24,000, on the north. A few minor discrepancies exist along this junction. It is believed that these discrepancies can best be compromised by the Washington Office. See attached Ltr 7 Nov 52 from Hundley

Satisfactory junctions have been made with all other adjacent quadrangles.

29 April 1952
Submitted by:

James E. Hundley
James E. Hundley
Cartographer

7 May 1952
Approved by:

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

Form T-2

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 9305

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 MMS 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) J.G. 7. Photoidentifiable stations _____ 8. Bench marks J.G.
9. Plotting of sextant fixes J.G. 10. Photogrammetric plot report J.G. 11. 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. 15. Bridges J.G. 16. Aids to navigation J.G. 17. Landmarks J.G. 18. Other alongshore physical features J.G. 19. Other alongshore cultural features J.G.

PHYSICAL FEATURES

20. Water features J.G. 21. Natural ground cover J.G. 22. Planetable contours J.G. 23. Stereoscopic [illegible] _____ 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. 29. Railroads J.G. 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* (Reviewer) Wm. A. Rasure *William A Rasure* (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.

Rudolph Dorsett (Compiler) *William A. Rasure* (Supervisor)

43. Remarks:

M-2623-12

Form 567
April 1945

HOTOGRAMMETRIC REVIEW SECTION

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

~~NONFLOATING AIDS OR~~ LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE DELETED~~ } STRIKE OUT ONE

Tampa Photogrammetric Office, Tampa, Fla. 26 March, 1951

I recommend that the following objects which have ~~(have not)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by Rudolph Dossett

Arthur L. Wardwell *Chief of Party.*

STATE	FLORIDA		POSITION						METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
			LATITUDE		LONGITUDE		DATUM							
CHARTING NAME	DESCRIPTION	SIGNAL NAME	° '	D.M. METERS	° '	D.P. METERS								
TANK	SAN JOSE GOLF CLUB WATER TANK FINIAL, elevated steel, ht. 125(145)	G.P. of Fla. 1931 Checked pos 11-26-51 PWR	30 14	711.~~16~~ 6 N.G.R.	81 37	44.6	N.A. 1927		Triang.	1932		x		685

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating* ... The data should be considered for the charts of the area and not by

20

PHOTOGRAMMETRIC REVIEW SECTION

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE DELETED~~ } STRIKE OUT ONE

Tampa Photogrammetric Office, Tampa, Fla. 26 March, 19 51

I recommend that the following objects which have NOT ~~(have not)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by Rudolph Dossett

Arthur L. Wardwell *Chief of Party.*

STATE: FLORIDA

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE ° ′	LATITUDE D.M. METERS	LONGITUDE ° ′	LONGITUDE D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
BEACON	*AIRWAY BN., Skeleton steel tower surmounted by revolving light, ht.75(100)		30 08	1416	81 30	1427	N.A. 1927	Radial Plot T-9305	May 1950		X		
	*This light reported "discontinued" in "Notice to Mariners, 26 August 1950". Also see §57												

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. 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

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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

POST-OFFICE ADDRESS: BOX 5361
SOUTH JACKSONVILLE, FLA.

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

19 May 1950

TO: District Engineer,
U.S. Engineer Dept.
575 Riverside Ave.
Jacksonville, Florida.

SUBJECT: Bridge clearances.

Dear Sir:

During the course of field work by this party, the following discrepancies were noted in the "List of Bridges over the Navigable Waters of the United States, dated 1941" and its supplement dated 1948:

Miles above mouth	Nearest town	Owner	Type bridge	Horiz. Cl.	Vert. Cl. H.W.
* .25	Goodbys Creek, Fla. So. Jacksonville	State Road Dept.	F	33.2 Ft.	12.5 Ft.
**				36.9 Ft.	11.5 Ft.
* .20	Governors Creek Green Cove Springs, Florida	State Road Dept.	F	13.4 Ft.	8.0 Ft.
**				14.0 Ft.	3.3 Ft.
* 90.0	Halifax River Carlton-Blank Bridge-Road Daytona Beach, Fla.	State Dept.	Bascule	90.0 Ft.	20.0 Ft.
**	New bridge not listed in bridge book.				

* Bridge clearances as measured by USC & GS PARTY.
** Clearances as shown in bridge book.

Respectfully Yours,

Harry F. Garber
Comdr. USC & GS

cc: The Director

Tampa Photogrammetric Office
P O Box 1689 Tampa Florida

31 October 1952

To: Mr. J. E. Hundley
U. S. Coast and Geodetic Survey
Box 269
St. Augustine, Florida

Subject: Field Data - T-9305

There is being sent to you subject field data. The advance print showing in red contours and other detail along the north edge of the project, it is understood, was prepared in Washington. We are also sending an ozalid print made here after we compiled the additional 1/2 inch as instructed. A copy of the ARLINGTON quadrangle is also enclosed.

Unfortunately we do not have enough information to make the required adjustments. The original work was compiled for a junction with no contemporary survey. Since that time we have received instructions to compile the additional detail. This junction, as I understand it, will eventually be made with contemporary U. S. Geological survey work. There has been indicated on the print that shows the additional compilation those places where a junction cannot be effected. You will please note them to be:

1.	Grant line junction	(Lat. 30° 15'; Long. 81° 34.7')
2.	Contour junction	(Lat. 30 15 ; Long. 81 34.4)
3.	Contour junction	(Lat. 30 15 ; Long. 81 32.7)
4.	Sec. line junction	(Lat. 30 15 ; Long. 81 31.3)
5.	Contour junction	(Lat. 30 15 ; Long. 81 30.6)

Notes in red pointing to these particular areas are on the ozalid print.

I feel sure that if we had compiled beyond the project limits to begin with the foregoing would not have happened but due to an oversight the proper information was not furnished the compilation office; the 1:24,000 scale ARLINGTON quadrangle was not included in the data. All we had knowledge of was the 1918 ORANGE PARK quadrangle, 1:62,500 scale, and in such a

situation we do not ordinarily extend the detail beyond the project limits. You are requested while in this area to please reconcile the discrepancies.

If there are any questions, I would be glad to make arrangements for a discussion of this problem with you.

J. E. Waugh
LCDR, USC&GS
Officer in Charge

JEW:mb

cc: O.I.C. Photo Party #1

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC PARTY NO. 1
P. O. Box 269
St. Augustine, Florida

POST OFFICE ADDRESS:
TELEGRAPH ADDRESS:
EXPRESS ADDRESS:

7 November 1952

To: Lt. Comdr. J. E. Waugh
Officer in Charge
Tampa Photogrammetric Office
P. O. Box 1689
Tampa, Florida

Subject: Supplemental Field Edit Data - Quad. T-9305

The following work has been accomplished in compliance with your letter dated 31 October 1952:

1. Additional contour corrections have been made at the junction of this area with the U.S.G.S. Arlington, Quadrangle, 1950 edition. These corrections have been shown on field edit sheets number one, number two and an acetate overlay sheet. This junction is not in good agreement and, in some areas, cannot be compromised.

See § 67

2. Additional contour corrections were made adjacent to Florida State Road No. 10, which has been completed since the initial field edit of this area. These corrections are shown on field edit sheet number one.

3. Information regarding section and grant line junctions is shown on field edit sheet number two.

James E. Hundley,
Cartographer

cc: Chief, Division of Photogrammetry
Lt. Comdr. Paul Taylor

Rec'd. 10 Nov. 1952 W.O.R.

48. GEOGRAPHIC NAME LIST.

ALLEN CHAPEL

BAYARD
BEAUCIERE ROAD
BIG DAVIS CREEK

COMMISSIONERS DIS. NO. 1
COMMISSIONERS DIS. NO. 5
CORKLAN BRANCH

DURBIN CREEK
DUVAL COUNTY

FLORA BRANCH
FLORIDA
FLORIDA EAST COAST R. R.

GOODBYS CREEK (B.G.N. decision)
GREENLAND
GUM SWAMP

HARTLEY ROAD
HOOD ROAD

JULINGTON CEM.
JULINGTON CHURCH
JULINGTON CREEK
JULLIETTE WING MEMORIAL CHAPEL

LORETTO
LORETTO MANDARIN ELEM. SCHOOL
LORETTO ROAD
LOSCO ROAD

MANDARIN ROAD
MANDARIN ROAD CHURCH
MT. MORIAH CHURCH

OLD KING ROAD (omit, per Names Report)

PINE ACRE ROAD

SAN JOSE BOULEVARD
SAN JOSE COUNTRY CLUB
STATE NO. 13

State No 10 See Ltr (attached) 7 Nov 52

Pablo Creek

ST AUGUSTINE ROAD
ST JAMES CHURCH
ST JOHNS COUNTY
ST JOHNS RIVER
ST JOSEPHS MILITARY ACADEMY
SUNBEAM
SUNBEAM ROAD
SWEETWATER CREEK
Sunbeam church
U. S. NO. 1

LAND GRANTS

ANTELM
ANTHELM GAY — HENRY HARTLEY
DAVID SCURRY — JUAN GARCIA
DORCAS BLACK — Jos. SUMMERLAND
FRED HARTLEY — F. HAGLEY HEIRS
FRANCIS RICHARD
F. P. SANCHES
GEO. HARTLEY
HANNAH NOBLES
JAMES JAMES
JAMES PLUMMER
JOS. HOGAN HEIRS 1 } 2 grants
JOS. HOGAN HEIRS 2 }
J. SUMMERAL
JHN. M. HANSON
MARY ANN DAVIS
R. PRICHARDS HEIRS
ROBERT WHITMORE
SAM FAIRBANKS
WM. HARTLEY
WM. HOLLINGSWORTH
E. HUDNAL
FRANCIS GOODWIN
~~FRANCIS RICHARD~~
ELEANOR PRICHARD
P PLUMMER
Z KINGSLEY

Names underlined in red are approved, on basis of project names report.
2-6-52
L. Heck

8-6-53.
See additional approved names on Page 24
(Field Edit)

Review Report
Topographic Map T-9305
19 August 1953

62. Comparison with Registered Topographic Surveys:

T-5319	1:10,000	1939
T-5665	1:10,000	1940

Survey T-5319 shows marsh islets at latitude 30° 08.0' and 30° 08.1' and longitude 81° 36.7' which do not exist according to the field edit for T-9305. There have been cultural changes since these prior surveys.

63. Comparison with Maps of Other Agencies:

Orange Park, Fla. (USGS) 1:62,500 1918, reprinted 1942.
Except for cultural changes, there is close agreement. See §67 below

64. Comparison with Contemporary Hydrographic Surveys: None.

65. Comparison with Nautical Charts:

685 1:40,000 1952, corr. to 53 2/2

Several small piers not shown on the chart. Marsh islets should be deleted as indicated under Item 62. Clearance on bridge at Goodby's Creek should be corrected to agree with this survey.

66. Adequacy of Results and Future Surveys:

This survey meets the National Standards of Map Accuracy and complies with project instructions.

67. Junctions:

Arlington, Fla. (USGS) 1:24,000 1950

Except as noted below, junction was effected with this quadrangle using a copy without woodland shown.

The following features are shown on T-9305 and do not appear on the published map:

At longitude 81° 32.5' - an unimproved dirt road
At longitude 81° 33.2' - a medium duty road
At longitude 81° 36.3' - An extra lane on U. S. Highway 1

It is assumed that these differences result from cultural change and are not discrepancies. (USGS mapping was done in 1948-49; T-9305, as late as 1952.)

The G.S. quad shows streams whereas T-9305 shows swamp without a channel. This is regarded as a difference in mapping practices and of little significance to the map user.

Reviewed by:

Everett H. Ramey

APPROVED:

L C Landy
Chief, Review Branch
Photogrammetry Division

Mal B Ricketts
Chief, Nautical Chart Branch
Charts Division

T W Swenson
Chief, Photogrammetry Division
22 Dec 1958

W S Stewell
Chief, Coastal Surveys Division

History of Hydrographic Information

for T-9305

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 datum and originate with C&GS hydrographic survey H-6296 (1935), 1:20,000. Comparison was also made with Nautical Chart 685, 1:40,000, 1952 corrected to 53 2/2.

The compilation was made by Everett H. Ramey 9 November 1953 and verified by O. Svendsen.

Everett H. Ramey

Everett H. Ramey

NAUTICAL CHARTS BRANCH

SURVEY NO. H-9305

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
11-26-51	685	[illegible]	Before ~~After~~ Verification and Review Partially applied.
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

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.