

10830

Diag. Cht. No. 1243-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Planimetric

Field No. Ph-5802 Office No. T-10830

LOCALITY

State Florida

General locality Duval County

Locality St. Johns River - Mill Cove

1958-59

CHIEF OF PARTY

J.P.Randall, Chief of Field Party
A.L.Wadrwell, Tampa District Office

LIBRARY & ARCHIVES

DATE October 1961

USCOMM-DC 5087

10830

DESCRIPTIVE REPORT - DATA RECORD

T -10830

Project No. (II): **Ph-5802** Quadrangle Name (IV):

Field Office (II): **Jacksonville, Fla.**

Chief of Party: **James P. Randall**

Photogrammetric Office (III): **Tampa, Fla.**

Officer-in-Charge: **Arthur L. Wardwell**

Instructions dated (II) (III): **3 July 1958**

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): **Kelsh Plotter**

Manuscript Scale (III): **1:10,000**

Stereoscopic Plotting Instrument Scale (III): **1:5,000**

Scale Factor (III): **Pantographed to 1:10,000**

Date received in Washington Office (IV): **8/19/60** Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

1/18/61

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): **N. A. 1927**

Vertical Datum (III): **MHW**

~~Mean low water~~ 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): **AA 18 (FGS) 1934**

Lat.:

Long.:

Adjusted
~~Unadjusted~~

Plane Coordinates (IV):

State: **Florida**

Zone: **East**

Y= **2,177,897.10 Ft.**

X= **332,439.41 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.

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DESCRIPTIVE REPORT - DATA RECORD

PLANIMETRIC

Areas contoured by various personnel
(Show name within area)
(II) (III)

Inapplicable

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): **Jerome E. Tolodzwiecki** Date: **Oct. 1958**
Joseph K. Wilson Date: **Jan. 1959**
Oliver J. Weber Date: **Jan. 1959**

Planetable contouring by (II): **Inapplicable** Date:

Completion Surveys by (II): **Inapplicable** Date:

Mean High Water Location (III) (State date and method of location): **Jan. 1959 - Air Photo Compilation**

Projection and Grids ruled by (IV): **P. J. Dempsey (W.O.)** Date: **Aug. 1958**

Projection and Grids checked by (IV): **R. D. Shoup (W.O.)** Date: **Aug. 1958**

Control plotted by (III): **E. Pursel** Date: **Feb. 1959**

Control checked by (III): **E. Pursel** Date: **Feb. 1959**

~~Radial Plot~~ Stereoscopic **Washington Office** Date: **Jan. 1959**
Control extension by (III):

Planimetry **E. T. Ogilby** Date: **May 1959**

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

Manuscript delineated by (III): **E. T. Ogilby** Date: **May 1959**

Photogrammetric Office Review by (III): **W. H. Shearouse** Date: **July 1959**

Elevations on Manuscript **Inapplicable** Date:
checked by (II) (III):

DESCRIPTIVE REPORT - DATA RECORD

4.2

Camera (kind or source) (III): **C&GS WILD "S" AVIAGON and "L" INFRAGON Single-lens**

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
58-S-2978	8 May 1958	1023	1:10,000 Ratio	+1.7
58-S-2979	"	1023	"	+1.7
58-S-2995	"	1034	"	Inapplicable
58-S-2996	"	1034	"	"
58-S-2997	"	1035	"	"

Predicted

Tide (III)

Reference Station: **MAYPORT**
Subordinate Station: **DAME POINT**
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
-	4.5	5.3
0.67	3.0	3.5

Washington Office Review by (IV):

J. Streifer

Date: *Sept. 1960*

Final Drafting by (IV):

Tampa District Office

Date:

Drafting verified for reproduction by (IV):

J. Streifer

Date: *Sept. 1960*

Proof Edit by (IV):

J. Streifer

Date: *18 Jan. 1961*

Land Area (Sq. Statute Miles) (III): **12.7**

Shoreline (More than 200 meters to opposite shore) (III): **3.8 Lin. Mi.**

~~Shoreline (Less than 200 meters to opposite shore) (III):~~

Control Leveling - Miles (II): **Inapplicable**

Number of Triangulation Stations searched for (II): **7*** Recovered: **3*** Identified: **2***

Number of BMs searched for (II): **3** Recovered: **3** Identified: **1**

Number of Recoverable Photo Stations established (III): **1**

Number of Temporary Photo Hydro Stations established (III): **none**

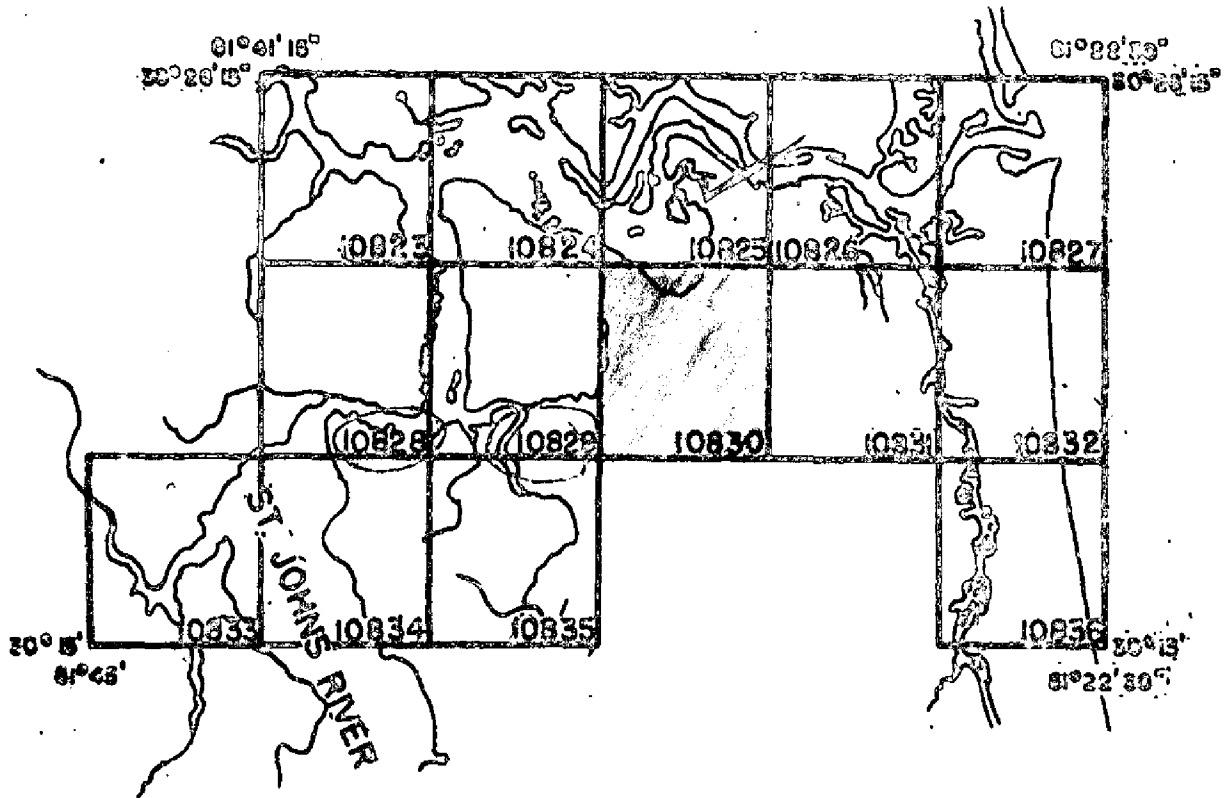
Remarks:

***One station is south of map and project limits**

PROJECT PH-5802

Planimetric Mapping

Florida, St. Johns River



Official Mileage for Cost Accounts

Sheet No.	Area Sq. Mi.	Lin. Mi. Shoreline			
10823	11.9	16.7			
10824	8.0	23.4			
10825	11.9	24.1			
10826	14.3	27.1			
10827	6.4	15.8			
10828	13.5	9.2			
10829	12.7	12.6			
10830	12.7	3.8			
10831	15.6	10.1			
10832	11.1	8.2			
10833	10.3	21.5			
10834	8.0	7.6			
10835	15.6	6.3			
10835	12.7	9.8			
Total	144.7	205.2			

SUMMARY
To accompany Planimetric Map Manuscripts
T-10823 through T-10836

Subject surveys represent Planimetric Mapping Project PM-5802. It consists of fourteen (14) T-sheets, which cover the northern portion of the St. Johns River - from the entrance on the Atlantic Coast to the city of Jacksonville - in the State of Florida.

T-10823 through T-10836 were compiled by stereoscopic instrument methods (Kalah Plotter) in 1958-59 at the Tampa District Office. The compilations are based on single-lens photography of May 1958 and field inspection of 1958-59. Advanced shoreline information and control (compiled at the Washington Office by stereoplanigraph) was made available to support hydrographic surveys of 1958-59.

The submitted map manuscripts are the result of adequately scribed sheet and after minor corrections and improvements during Washington Office Review, suitable for direct reproduction of permanent file copy.

Cronar film positives at the compilation scale of 1:10,000 and the Descriptive Reports will be registered and filed in the Bureau Archives.

October 1960

THE FIELD INSPECTION REPORT

IS SUBMITTED WITH T-10827

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

1081

MAP T. 108.30 PROJECT NO. 5802 SCALE OF MAP 1:10000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
(FAS) AA 17 1934	Duval Co. F.G.S. P-3 NA 27	NA 27	2 177 181.70 326 414.06	664 706.3 180 591.2			663 606.3 99 491.2	Plotted Rund 27 Feb 59	
(FAS) AA 18 1934	Duval Co. F.G.S. P-3 NA 27	NA 27	2 177 897.10 332 439.41	664 924.4 102 427.2			663 824.4 101 327.7		
(FAS) AA 18 A 1934	Duval Co. F.G.S. P-3 NA 27	NA 27	NO COORDINATES	DETERMINED					
(FAS) AA 19 1934	Duval Co. F.G.S. P-3 NA 27	NA 27	2 178 187.84 335 144.18	665 013.0 103 252.2			663 913.0 102 152.2		
(FAS) AA 20 1934	Duval Co. F.G.S. P-3 NA 27	NA 27	2 178 142.84 338 423.79	666 071.6 104 257.8			663 899.3 103 151.8		
(FAS) AA 21 1934	Duval Co. F.G.S. P-4 NA 27	NA 27	2 175 498.24 340 357.74	665 193.2 104 841.2			663 093.2 103 741.2		

COMPILATION REPORT T-10830

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-10827

31. DELINEATION

The Kelsh Plotter was used for delineation. The field inspection was adequate and complete. The photographs were very good.

Two sets of photographs were furnished. They were "S" series (panchromatic) contact and ratio prints; and "L" series (infra-red) 1:25,000 contact prints only. The diapositives for the Kelsh Plotter were of the "S" series.

32. CONTROL

The primary and secondary control was adequate and placement was good, however it may have been advantageous if additional control had been dropped specifically for the sandwich flight during bridging.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage that was not easily discerned on the photographs had been indicated by the field inspector.

35. SHORELINE AND ALONGSHORE DETAILS

The field inspector indicated the shoreline, piers and other features along the shore on the photographs. A new pier and ruins of piers were also inked on photographs, completing adequate shoreline inspection.

No low-water or shoal lines were shown.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

There are no landmarks.

One aeronautical aid (AERO BEACON, 1958) was located by the Kelsh Plotter. One nautical aid (QUARANTINE ISLAND UPPER RANGE REAR LIGHT, 1958) was located by theodolite cuts from photo points dropped by the Kelsh Plotter. Forms 567 are submitted with this report.

38. CONTROL FOR FUTURE SURVEYS

None was established.

39. JUNCTIONS

Junctions were made with T-10825 to the north, T-10829 to the west, T-10831 to the east and USGS Quadrangle ARLINGTON, FLA. to the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison with USGS Quadrangle ARLINGTON, FLA., edition of 1950, scale 1:24,000, was made.

Comparison was also made with USC&GS planimetric maps T-5670 and T-5671, dated 1934, scale 1:10,000.

Only small differences were noted with the quadrangle. The major differences with the planimetric maps are: - (1) Holly Oaks Lake as a result of a dam on GINHOUSE CREEK, and (2) Craig Airport.

47. COMPARISON WITH NAUTICAL CHARTS

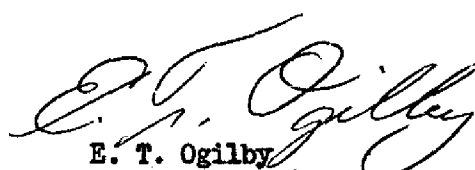
Comparison was made with C&GS Chart No. 577, dated 25 February 1957, revised to 22 June 1959, scale 1:40,000. Only minor differences were noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None.


E. T. Ogilby
Cartographer (Photo)

APPROVED AND FORWARD


Arthur L. Wardwell
Tampa District Officer

48. GEOGRAPHIC NAME LIST

Atlantic Boulevard Estates

Bird Island

Cedar Swamp

Cosmo

Cowhead Cemetery

Craig Airport

Duval County

East Arlington

Florida

Gilmore

Ginhouse Creek

Holly Oaks

Holly Oaks Lake

Jones Creek

Lake Narcissus

Lake Tresca

Marian Island

Mill Cove

Mitchell Bluff

Rush Island

*Strawberry Creek

* B.G.N. Decision

George J. Bree
GEOGRAPHIC NAMES SECTION
31 OCTOBER 1960

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

ASTRONOMICAL
~~NONVIZING~~ AIDING AIDS ~~OR~~ MARKERS FOR CHARTS

TO BE CHARTED
~~MARKERS~~ } STRIKE OUT TWO
~~MARKERS~~ }
Tampa, Florida **19 November 1952**

I recommend that the following objects which have ~~(insert name)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(insert name)~~ the charts indicated.

The positions given have been checked after listing by

B. T. Ogilby

Arthur J. Eardwell Chief of Party

CHARTING NAME	STATE	DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	CHARTS AFFECTED		
				LATITUDE*			LONGITUDE*					HARBOR CHART	INSHORE CHART	OFFSHORE CHART
				D. M.	SEC.	"	D. M.	SEC.	"					
AEB0	FLORIDA	Skeleton steel, revolving light ht 55 (98) U.S.L.		09.77	30 20		03.72	61 31		N.A. 1927	Oct. 1952	Jacksonville	Optional	
		Light taken from field inspection												

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. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

50

PHOTOGRAMMETRIC OFFICE REVIEW

T- 10830

- 1. Projection and grids WHS
- 2. Title WHS
- 3. Manuscript numbers WHS
- 4. Manuscript size WHS

CONTROL STATIONS

Classification label Unclassified

- 5. Horizontal control stations of third-order or higher accuracy WHS
- 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) XX
- 7. Photo hydro stations XX
- 8. Bench marks WHS
- 9. Plotting of sextant fixes XX
- 10. Photogrammetric plot report W.O.
- 11. Detail points W.O.

ALONGSHORE AREAS

(Nautical Chart Data)

- 12. Shoreline WHS
- 13. Low-water line XX
- 14. Rocks, shoals, etc. XX
- 15. Bridges XX
- 16. Aids to navigation XX
- 17. Landmarks WHS
- 18. Other alongshore physical features WHS
- 19. Other along-shore cultural features WHS

PHYSICAL FEATURES

- 20. Water features WHS
- 21. Natural ground cover WHS
- 22. Planetable contours XX
- 23. Stereoscopic instrument contours XX
- 24. Contours in general XX
- 25. Spot elevations XX
- 26. Other physical features WHS

CULTURAL FEATURES

- 27. Roads WHS
- 28. Buildings WHS
- 29. Railroads XX
- 30. Other cultural features WHS

BOUNDARIES

- 31. Boundary lines WHS
- 32. Public land lines XX

MISCELLANEOUS

- 33. Geographic names WHS
- 34. Junctions WHS
- 35. Legibility of the manuscript WHS
- 36. Discrepancy overlay XX
- 37. Descriptive Report WHS
- 38. Field inspection photographs WHS
- 39. Forms WHS

40. William H. Shearouse
 Reviewer
 William H. Shearouse

Milton M. Slavney
 Supervisor, Review Section of Unit
 Milton M. Slavney

- 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.

Compiler

Supervisor

- 43. Remarks:

Review Report of
Planimetric Map Manuscripts T-10823 through T-10836
October 1960

62. Comparison with Registered Topographic Surveys:

T-411	1:10,000	1853
T-550	1:10,000	1855
T-551	1:10,000	1855
T-552	1:10,000	1855-56
T-712	1:10,000	1858
T-713	1:10,000	1858
T-963	1:10,000	1864
T-965	1:10,000	1864
T-1232b	1:20,000	1871
T-1459a	1:20,000	1876-77
T-2027	1:80,000	1875
T-4068	1:20,000	1924
T-4084	1:20,000	1924
T-5235	1:10,000	1933
T-5664	1:10,000	1935
T-5665	1:10,000	1933-39
T-5666	1:10,000	1933-39
T-5667	1:10,000	1933-39
T-5669	1:10,000	1933-39
T-5670	1:10,000	1939
T-5671	1:10,000	1933
T-5672	1:10,000	1933
T-6376b	1:10,000	1934
T-6487aAb	1:10,000	1934
T-6488aAb	1:10,000	1934
T-11093	1:20,000	1957-58
T-11454	1:10,000	1951-54

Cultural and shoreline changes have been continuous and extensive. Considerable differences exist between topographic survey of 1951-54 and the land area of effected sheet of subject surveys. T-10823 through T-10836 are to supersede above-listed surveys of identical areas and detailing for nautical charting purposes.

63. Comparison with Maps of Other Agencies:

Trout River, Fla.,	1:24,000,	1948,	U. S. Geological Survey
Eastport, Fla.,	1:24,000,	1948,	" " "
Mayport, Fla.,	1:24,000,	1948,	" " "
Jacksonville, Fla.,	1:24,000,	1948,	" " "
Arlington, Fla.,	1:24,000,	1948,	" " "
Jacksonville Beach, Fla.,	1:24,000,	1948,	" " "

These topographic quadrangles seem inadequate in consideration of all the changes caused by growth and development of subject area.

64. Comparison with Contemporary Hydrographic Surveys:

H-8107	1:10,000	1954
H-8412 (plus add. work)	1:20,000	1958-59
H-8462	1:20,000	1958-59
H-8463	1:10,000	1958-59
H-8464	1:10,000	1959

Fort George Inlet as shown on H-8107 has been subjected to considerable changes - see T-10827 for shoreline of 1958-59. Advanced shoreline and control of subject surveys was furnished to aid in the construction of remaining hydrographic surveys (H-8412, 8462 through 8464) and in the comparison, no major differences were noted.

65. Comparison with Nautical Charts:

569	1:40,000	Revised to 12/8 1958
577	1:40,000	" " 12/21 1959
685	1:40,000	2nd Ed. 12/7 1959
1243	1:80,000	Revised to 2/22 1960

There are minor shoreline differences throughout. Considerable differences exist at Fort George Inlet and at the entrance of St. Johns River as depicted on Chart 569 (with inset of these features at scale 1:10,000). Charts 577 and 1243 are effected accordingly. The position of "RIBAULT CHANNEL DIRECTIONAL LIGHT" at the southwest corner of Mayport Basin - as shown on Chart 569 - should be corrected also from available information from 1958 and as indicated on T-10827.

OK on charts 569, 577, 1243 Oct. 1961 JJS.

³ Dune Point - Fulton Cutoff Light 40, 1958 at the mouth of Alligator Creek should be added to Chart 577 (see T-10825).

Lt. "40" removed in 1959 JJS.

66. Adequacy of Results and Future Surveys:

Subject T-sheets (14) have been compiled according to instructions and meet the requirements of adequacy and accuracy. Future frequent surveys of subject area are recommended because of continuous growth and development.

Reviewed by:

Joseph J. Streifler
Joseph J. Streifler

Approved:

L. C. Lande
L. C. Lande
Chief, Review & Drafting Sec.
Photogrammetry Division

J. Waugh 10/16/61
J. Waugh
Chief, Nautical Charts Division

L. F. Woodcock
L. F. Woodcock
Asst. Chief, Photogrammetry Division

J. Bowen
J. Bowen
Chief, Operations Division

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10830

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
7/16/63	636	J. H. Eaton	Fully 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
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			Before After Verification and Review
			Before After Verification and Review

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.