

10832

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-10832

LOCALITY

State Florida

General locality Vicinity of St. Johns
River

Locality Atlantic Beach

1958-59

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

DATE October 1961

USCOMM-DC 5087

10832

DESCRIPTIVE REPORT - DATA RECORD

T - 10832

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): **Field and Office 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): **2 to 1**

Date received in Washington Office (IV):

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): **ATLANTIC BEACH HOTEL WATER TANK 1932**

Lat.: **30°20'03.434" (105.7m)**

Long.: **81°23'50.095" (1338.1m)**

Adjusted
~~radiostated~~

Plane Coordinates (IV):

State: **Fla.**

Zone: **East**

Y= **2,181,632.74 Ft.**

X= **374,676.73 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.

DESCRIPTIVE REPORT - DATA RECORD

Field inspection by (II): **Jerome E. Tolodziecki**
Joseph K. Wilson
Oliver J. Weber Date: **Oct. 1958**
Jan. 1959
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): **Air photo compilation**
Date of photography 8 May 1958. Mean high-water line along Atlantic Ocean beach
located by reference measurements 6 Aug. 1958

Projection and Grids ruled by (IV): Date:

Projection and Grids checked by (IV): Date:

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

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

Radial Plot or Stereoscopic
Control extension by (III): **Washington Office** Date:

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

Stereoscopic Instrument compilation (III):
Contours Date:

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

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

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

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): **Single lens Wild "S" and "L"**

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PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
58-S-2990	8 May 1958	10:31	Ratio to 1:10,000	1.2
" 3066	"	11:26	" " "	4.5
" 3067	"	11:26	" " "	4.5
" 3068	"	11:27	" " "	4.6
" 3069	"	11:27	" " "	4.6

Predicted Tide (III)

Reference Station: **MAYPORT**
 Subordinate Station: **Pablo Creek, Bascule Bridge**
 Subordinate Station: **Atlantic Beach**

	Ratio of Ranges	Mean Range	Spring Range
		4.5	5.3
	0.64	2.9	3.4
H.W.	70.7	5.2	6.0
L.W.	0.0		

Washington Office Review by (IV): *S. Streifler*
 Final Drafting by (IV): *Tampa District Office*
 Drafting verified for reproduction by (IV): *S. Streifler*
 Proof Edit by (IV): *S. Streifler*

Date: *Oct. 1960*
 Date:
 Date: *Oct. 1960*
 Date: *18 Jan. 1961*

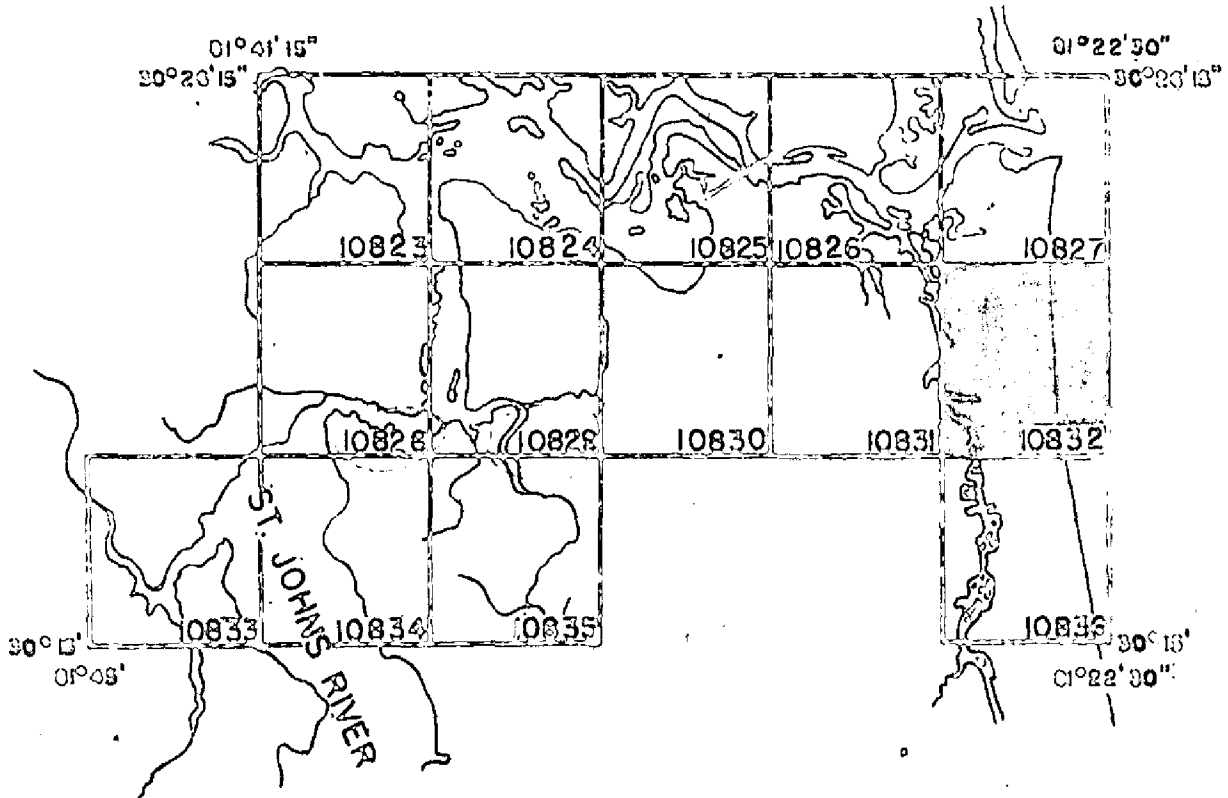
Land Area (Sq. Statute Miles) (III): **11.1**
 Shoreline (More than 200 meters to opposite shore) (III): **8.2**
~~Shoreline (Less than 200 meters to opposite shore) (III):~~
 Control Leveling - Miles (II): **Inapplicable**
 Number of Triangulation Stations searched for (II): **4** Recovered: **1** Identified: **1**
 Number of BMs searched for (II): **None** Recovered: Identified:
 Number of Recoverable Photo Stations established (III): **5 ***
 Number of Temporary Photo Hydro Stations established (III): **None**

Remarks: *** Natural objects for which no Form 524 is submitted.**

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	34.1			
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	7.3			
10835	15.6	6.3			
10836	13.7	8.2			
			Total	Area	Lin. Mi.
				164.7	205.2

SUMMARY

To Accompany Planimetric Map Manuscripts
T-10823 through T-10836

Subject surveys represent Planimetric Mapping Project PH-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 (Kelsh 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 REPORTS ARE
SUBMITTED WITH T-10827

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COMPILATION REPORT T-10832

PHOTOGRAMMETRIC PLOT REPORT

The photogrammetric plot reports are included with the descriptive report for T-10827.

31. DELINEATION

Delineation was done primarily with the Kelsh Plotter. The shoreline, some of the city boundaries and a new cut on the Intracoastal Waterway at Atlantic Boulevard (Florida 10) were taken directly from the field inspection photographs. This cut, dredged after photography, is not a "cutoff" in the Waterway, but was dredged to relieve the tidal currents where the Intracoastal Waterway is constricted by the highway bridge.

Two sets of photographs were available. They were "S" series (panchromatic) contact and ratio prints; and "L" series (infra-red) 1:30,000 contact prints only. The diapositives furnished for the Kelsh plotter were of the "S" series.

32. CONTROL

Primary and secondary control was adequate and placement was ideal.

33. SUPPLEMENTAL DATA

A street map of Atlantic Beach and a copy of the incorporation of Atlantic Beach were used to check the city limits. A zoning map of Neptune Beach was used to check the street names therein.

34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage not noted by inspection was apparent.

35. SHORELINE AND ALONGSHORE DETAILS

The field inspector located the mean high-water line, mean low-water line and mud flats on the field prints.

36. OFFSHORE DETAILS

No statement.

37. LANDMARKS AND AIDS

All landmarks and aids are listed on Form 567. The daybeacons in the Intracoastal Waterway were located direct from the field photographs.

38. CONTROL FOR FUTURE SURVEYS

Five topographic stations were established. They are listed under Item 49. All are for natural objects and no Form 524 is submitted.

No photo-hydro stations were established.

39. JUNCTIONS

Junctions were made with T-10827 to the north, T-10831 to the west, T-10836 to the south and the Atlantic Ocean is on the east.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with USGS Quadrangle Jacksonville Beach, Fla. 1949, scale 1:24,000; only minor changes were noted.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 577, scale 1:40,000 Edition 25 Feb. 1957, revised 22 June 1959. The radio tower (listed on Form 567) at $30^{\circ}19.5'$ and $81^{\circ}25.6'$ and the cut mentioned in Item 31 are the largest differences. Chart 842 scale 1:40,000 revised to 20 Oct. 1958 fails to show the above radio tower and the landmark tank in Neptune Beach.

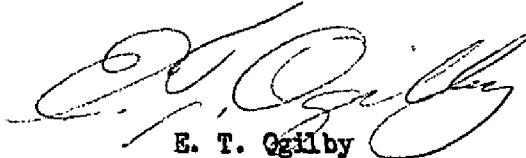
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ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.


ITEMS TO BE CARRIED FORWARD

None



E. T. Ogilby
Cartographer (Photo)

Approved and forwarded


Arthur L. Wardwell
Chief of Party

48. GEOGRAPHIC NAME LIST

Atlantic Beach
Atlantic Ocean

Boathouse Creek
Boathouse Islands
Buck Island

Cemetery Creek
Crying Child Island

De Blieu Creek
Donner
Duval County

Florida

Garden Creek

Hopkins Creek

Intracoastal Waterway

Kestner Creek

Manhattan Beach

Neptune Beach

Pablo Creek
Pine Island
Puckett Creek

Sherman Creek

U.S. Naval Station
Mayport

Wild Cow Island
Wonderwood

George M. Bass
GEOGRAPHIC NAMES SECTION
31 OCTOBER 1960

49. NOTES TO THE HYDROGRAPHER

The following recoverable topographic stations were established:

- TANK 1958 (ATLANTIC BEACH)
- TANK 1958 (NEPTUNE BEACH)
- EAST CABLE 1958 (EAST CABLE TWO STORY FRAME HOUSE)
- SOUTHERLY RED CUPOLA 1958 (RED CUPOLA ON GRAY ROOF)
- RADIO TOWER 1958 (WKTX)

Photogrammetric Review Branch

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

NONFLOATING AIDS ~~OR~~ ~~MARKERS~~ FOR CHARTS

TO BE CHARTED
~~REVISIONS~~
~~REVISIONS~~

STRIKE OUT TWO

Tampa Florida

14 Sept. 1959

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 E. F. Oxlby

A. L. Wardwell

Chief of Party.

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	CHARTS AFFECTED			
				LATITUDE *		LONGITUDE *				HARBOR CHART	INSHORE CHART	OFFSHORE CHART	
				° ' "	D.P. METERS	° ' "	D.P. METERS						
Florida													
	PABLO CREEK DAYBEACON 21			30 19	14.00 0.1	81 26	11.23 300	U.S.A. 1927	Photo- P-28632	Jan 1959	X	X	577 842
	PABLO CREEK DAYBEACON 23			30 18	59.10 1820	81 25	54.27 1850				X	X	
	PABLO CREEK DAYBEACON 25			30 18	50.99 1570	81 25	33.87 905				X	X	
	Note: Date of location taken from field inspection report. Day of month/Available.												

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

~~NON-FLOATING AIDS OR~~ LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE REVIEWED~~
~~TO BE REMOVED~~

STRIKE OUT TWO
 Tampa Florida
 14 Sept. 1959

I recommend that the following objects which have ~~been~~ 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 E. P. Ogilby

A. L. Wardwell
 Chief of Party.

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION			METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	CHARTS AFFECTED			
				LATITUDE*	LONGITUDE*	DATUM			HARBOR CHART	INSHORE CHART	OFFSHORE CHART	
Florida	TANK	(Elevated) Atlantic Beach Hotel Water Tank, 1932, Ht. 110 (119) Ft.		30 20 105.7	81 23	NA 1927	Triang. T-10832	1932	X	X	X	569, 577, 842, 1243
	TANK	(Elevated) skeleton steel, water Ht 130 (140) Ft.		30 20 7.21	81 24	Photo Plot Aug. 1958	T-10832	1958	X	X	X	
	TANK	(Elevated) skeleton steel, water Ht. 135 (146) Ft.		30 18 50.75	81 24					X	X	
	RADIO TOWER	WIX skeleton steel Ht. 312 (316) Ft.		30 19 29.26	81 25	1958		NOV. 1958	X	X	X	577, 842, 1243
		Note: Date of location taken from field inspection report. Day of month not available.										

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.

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 10832

- 1. Projection and grids WBS 2. Title WBS 3. Manuscript numbers WBS 4. Manuscript size WBS
- 4a Classification label unclassified

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

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

BOUNDARIES

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

MISCELLANEOUS

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

40. William H. Shearouse Reviewer 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-6487a&b	1:10,000	1934
T-6488a&b	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:

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

Port George Inlet, as shown on N-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 (N-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 Port 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 Maypert Basin - as shown on chart 569 - should be corrected also from available information from 1958 and as indicated on T-10827.

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

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 A. Streifler
Joseph J. Streifler

Approved:

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

J. E. Wagh 10/16/61
Chief, Nautical Charts Division

L. F. Woodcock
Asst. Chief, Photogrammetry Division

J. Bowie
Chief, Operations Division

