

10831

Diag. Cht. No. 1243-2.

10831

Form 504 U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY DESCRIPTIVE REPORT	
Type of Survey	Planimetric
Field No.	Ph-5802
Office No.	T-10831
LOCALITY	
State	Florida
General locality	Duval County
Locality	St. Johns River - Greenfield
Creek	
<u>1958-59</u>	
CHIEF OF PARTY J.P.Randall, Chief of Field Party A.L.Wardwell, Tampa District Office	
LIBRARY & ARCHIVES	
DATE	October 1961

DESCRIPTIVE REPORT - DATA RECORD

T - 10831

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

Field Office (II): **Jacksonville, Florida**

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

Photogrammetric Office (III): **Tampa, Florida**

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): **1/19/60**

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): **1/18/60**

Publication Scale (IV):

Publication date (IV):

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

Vertical Datum (III): **MLW**

~~Mean sea level~~ except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (S) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): **PABLO 2 (USE) 1908**

Lat.: **30° 22' 23.956" (737.7 m.)** Long.: **81° 26' 43.586" (1163.8 m.)**

Adjusted
~~Unadjusted~~

Plane Coordinates (IV):

State:

Zone:

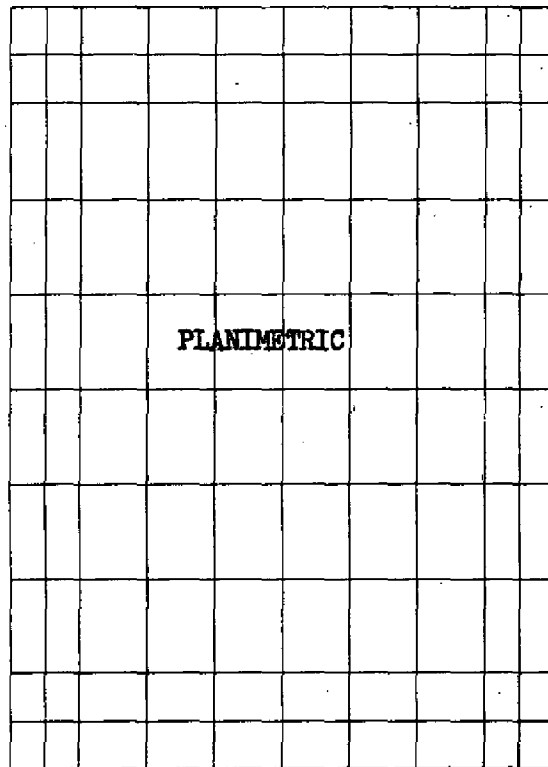
Y=

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.

DESCRIPTIVE REPORT - DATA RECORD



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

Inapplicable

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): **Jerome E. Tolodziewicki** Date: **Oct. 1958**
Joseph E. 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 or~~ 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: **May 1959**

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

DESCRIPTIVE REPORT - DATA RECORD

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

4.

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
58-S-2980	8 May 1958	1024	1:10,000 ratio	Inapplicable
58-S-2981	"	1024	"	+1.2
58-S-2982	"	1024	"	"
58-S-2991	"	1032	"	"
58-S-2992	"	1032	"	"
58-S-2993	"	1033	"	Inapplicable
58-S-2994	"	1033	"	"

Predicted

Tide (III)

Reference Station: **MAYPORT**
 Subordinate Station: **PABLO CREEK BASCULE BRIDGE**
 Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
-	4.5	5.3
0.64	2.9	3.4

Washington Office Review by (IV):

W. Straifler

Date: *Oct. 1960*

Final Drafting by (IV):

Tampa District Office

Date:

Drafting verified for reproduction by (IV):

W. Straifler

Date: *Oct. 1960*

Proof Edit by (IV):

W. Straifler

Date: *18 Jan. 1961*

Land Area (Sq. Statute Miles) (III): **15.6**

Shoreline (More than 200 meters to opposite shore) (III): **10.1**

Shoreline (less than 200 meters to opposite shore) (III):

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

Number of Triangulation Stations searched for (II): **9**

Recovered: **5**

Identified: **3**

Number of BMs searched for (II): **3**

Recovered: **3**

Identified: **1**

Number of Recoverable Photo Stations established (III): **none**

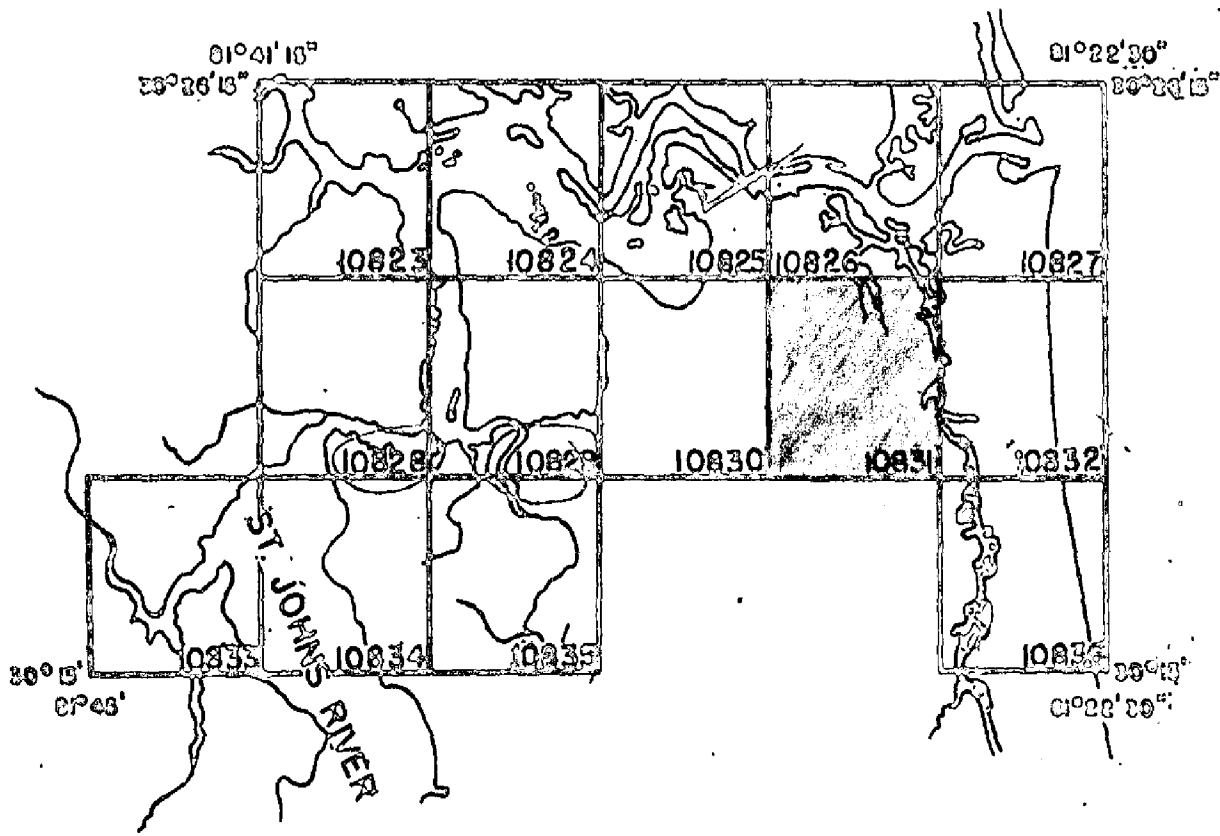
Number of Temporary Photo Hydro Stations established (III): **none**

Remarks:

PROJECT PH-5802

Planimetric Mapping

Florida, St. Johns River



Official Mileage for Cost Account

Sheet No.	Area Sq. Mi.	Lin. Mi. Sherline			
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	6.2			
10833	10.3	21.5			
10834	8.0	7.6			
10835	15.6	6.3			
10836	12.7	8.8	Total	Area	Lin. Mi.
				166.7	205.2

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

Subject surveys represent Planimetric Mapping Project **PH-5402**. 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 (Kelsch 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.

Crenar 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

MAP T-10831 PROJECT NO. 5702 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		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
				FORWARD	(BACK)		FORWARD	(BACK)	
Haynes 1858	Pc 196 NA 27		2191 630.13 359 061.13	668 010.2 110 542.0			665 010.2 109 442.0	Plotted Pursel 27 Feb 59	
Pablo 2 (USE) 1907	Pc 34 NA 27		2195 885.03 359 528.85	669 307.1 140 684.6			669 307.1 109 584.6		
Four Pines 1905	Pc 30 NA 27		2194 855.21 353 854.88	669 993.2 188 955.2			668 993.2 107 855.2		
AA 22 (FAS)	Dural Co.		2176 128.44 343 925.60	664 285.3 105 928.7			663 285.3 104 828.7		
AA 23 (FAS)	Dural Co.		2176 178.39 346 445.33	664 300.5 106 696.7			663 300.5 105 596.7		
AA 24 (FAS)	Dural Co.		2176 311.04 351 744.01	664 440.9 188 311.8			663 340.9 107 211.8		
AA 25 (FAS)	"	"	2176 882.44 358 763.70	664 615.1 110 457.4			663 515.1 109 357.4		
AA 26 (FAS) 1934	"	"	2177 778.87 361 681.94	664 888.3 111 340.9			663 788.3 110 240.9		
AA 27 (FAS) 1934	"	"							

DESTROYED

COMPILATION REPORT T-10831

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-10827

31. DELINEATION

The Kelsh Plotter was used for delineation. Field inspection was adequate and complete. The photographs were very good. The field inspector indicated a new growth of trees in some areas that appeared open on the photographs.

Excepting along the Intracoastal Waterway, the U. S. Naval Station Mayport Boundary was plotted from coordinates taken from data listed in Item 33. The boundary along the Intracoastal Waterway was taken directly from the plan and labelled "approximate".

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

32. CONTROL

The primary and secondary control was adequate and placement was very good.

33. SUPPLEMENTAL DATA

Three blue-prints were furnished for the limits and details in the U. S. Naval Station Mayport:

- (1) Flight Obstruction Removal Plan (2 of)
- (2) Land Acquisition Map for Shore Station Development

34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage was usually easily discerned on the models. Drainage that was not apparent was indicated on the field photographs

35. SHORELINE AND ALONGSHORE DETAILS

The mean high-water line was verified by infra-red photography. The field inspector indicated questionable areas and piers, bulkheads, etc. The low-water line and shoals were indicated by the field inspector.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

All lights were located by the Kelsh Plotter. DAYBEACON 19 was located by fixes from photo-points dropped by the Kelsh Plotter. The other daybeacons and piles were taken directly from the field photographs. Form 567 is submitted with this report.

There are no landmarks.

38. CONTROL FOR FUTURE SURVEYS

None was established.

39. JUNCTIONS

Junctions were made with T-10826 to the north, T-10830 to the west, T-10832 to the east and USGS Quadrangle JACKSONVILLE BEACH, FLA. to the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

11.

46. COMPARISON WITH EXISTING MAPS

Comparison with USGS Quadrangle JACKSONVILLE BEACH, FLA., 1948, scale 1:24,000, was made and only minor discrepancies were noted. Comparison was also made with USC&GS Planimetric Sheets T-5671 and T-5672, dated 1934, scale 1:10,000. The discrepancies noted were to be expected.

47. COMPARISON WITH NAUTICAL CHARTS


Comparison was made with C&GS Chart No. 842, dated April 14, 1952, revised to Oct. 20, 1958, scale 1:40,000, and No. 577 dated Feb. 25, 1957, revised to June 22, 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 FORWARDED


Arthur L. Wardwell
Tampa District Officer

48. GEOGRAPHIC NAME LIST

Boathouse Creek
Buckhorn Creek

Cedar Swamp
Chicopit Bay

Dawson Island
Duval County

Florida
Four Pines Island

Greenfield Creek
Greenfield Islands
Greenfield Plantation

Intracoastal Waterway

Mathews Island
Mt. Pleasant Creek
Mud Flats Creek

Neptune Beach

Pablo Creek
Possum Head Swamp

Salamander Landing
Spanish Point

Tiger Pond
Tiger Pond Creek

U.S. Naval Station Mayport

* B.G.N. Decision

George M. Ball
GEOGRAPHIC NAMES SECTION
31 OCTOBER 1960

NONFLOATING AIDS ~~OR~~ ~~LANDMARKS~~ FOR CHARTS

TO BE CHARTED
~~TO BE REVISED~~
~~OR DELETED~~ } STRIKE OUT TWO

19 November 19 59

Tampa, Florida

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

The positions given have been checked after listing by

S. T. Ogilby

Arthur L. Wardwell

Chief of Party.

CHARTING NAME	STATE	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	CHARTS AFFECTED			
				LATITUDE*		LONGITUDE*				DATUM	HARBOR CHART	INSHORE CHART	OFFSHORE CHART
				° ' "	D. P. METERS	° ' "	D. P. METERS						
	FLORIDA												
INTRACOASTAL WATERWAY													
ST JOHN'S RIVER - MATANZAS INLET													
DAYBEACON 8		PABLO CREEK		30 22	19.42 598	81 27	06.22 155	M.A. 1927	Photo Plot T-10831	Nov. 1958	X X	X X	577 842
LIGHT 9				30 22	20.04 627	81 27	02.47 66				X X		
LIGHT 11				30 21	24.78 763	81 26	26.32 703				X X		
DAYBEACON 12				30 21	06.27 193	81 26	24.23 647				X X		
DAYBEACON 13				30 20	18.09 1173	81 26	17.56 159				X X		
DAYBEACON 14				30 20	25.33 780	81 26	19.77 528				X X		
DAYBEACON 15				30 20	16.56 510	81 26	16.06 439				X X		
LIGHT 17				30 20	00.36 11	81 26	15.46 413				X X		
DAYBEACON 19				30 19	49.49 1524	81 26	17.59 470				X X		
DAYBEACON 20				30 19	14.91 459	81 26	16.73 447				X X		

*Data taken from date of field inspection

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charred 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. 10831

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

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) XX
- 7. Photo hydro stations XX
- 8. Bench marks WHS
- 9. Plotting of sextant fixes ETO
- 10. Photogrammetric plot report W.O.
- 11. Detail points XX

ALONGSHORE AREAS

(Nautical Chart Data)

- 12. Shoreline WHS
- 13. Low-water line WHS
- 14. Rocks, shoals, etc. WHS
- 15. Bridges WHS
- 16. Aids to navigation WHS
- 17. Landmarks XX
- 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
Milton M. Slavney Supervisor, Review Section or Unit
 William H. Shearouse 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:

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

65. 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.

Dome Point - Fulton 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:

Josef J. Streifler
Josef J. Streifler

Approved:

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

J. E. Waugh 10/16/67
Chief, Nautical Charts Division

L. J. Woodward
Asst. Chief, Photogrammetry Division

J. Bowie
Chief, Operations Division

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10831

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
7/16/63	636	J. W. Eaton	Before Fully After Verification and Review
3/1/68	569	L. McMillan	Before After Verification and Review
3/14/84	11491A	Hull Kull	Consider fully appl. until Records. Then 636 SC. Before After Verification and Review Restore R topog in 'holiday' area 30°22' / 81°28'
			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

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.