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

CHIEF OF PARTY
J.P. Randall, Chief of Field Party
A.L. Wadsworth, Tampa District Office

DATE: October 1961
DESRIPTIVE 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): 8/19/50  Date reported to Nautical Chart Branch (IV):
Applied to Chart No.  Date:
Publication Scale (IV): Publication date (IV):
Geographic Datum (III): N. A. 1927  Vertical Datum (III): NAVD 1929

Reference Station (III): AA 18 (FGS) 1934
Lat.:  Long.:
Adjusted

Plane Coordinates (IV):

\[ y = 2,177,897.10 \text{ Ft.} \]
\[ x = 332,439.41 \text{ Ft.} \]

State: Florida  Zone: East

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

Inapplicable
DESERTIVE REPORT - DATA RECORD

Field inspection by (II): Jerome E. Tolodziewski
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): 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

Redial Plotter 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
checked by (II) (III):

Inapplicable

Date:
**DESCRIPTIVE REPORT - DATA RECORD**

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

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>58-S-2978</td>
<td>8 May 1958</td>
<td>1023</td>
<td>1:10,000 Ratio</td>
<td>+1.7</td>
</tr>
<tr>
<td>58-S-2979</td>
<td></td>
<td>1023</td>
<td></td>
<td>+1.7</td>
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<tr>
<td>58-S-2995</td>
<td></td>
<td>1034</td>
<td></td>
<td>Inapplicable</td>
</tr>
<tr>
<td>58-S-2996</td>
<td></td>
<td>1034</td>
<td></td>
<td></td>
</tr>
<tr>
<td>58-S-2997</td>
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<td>1035</td>
<td></td>
<td></td>
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</tbody>
</table>

**Predicted Tide (III)**

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
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</thead>
<tbody>
<tr>
<td>-</td>
<td>4.5</td>
<td>5.3</td>
</tr>
<tr>
<td>0.67</td>
<td>3.0</td>
<td>3.5</td>
</tr>
</tbody>
</table>

**Reference Station:** MAYPORT

**Subordinate Station:** DAME POINT

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

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): Inapplicable

Control Leveling - Miles (II): Inapplicable

Number of Triangulation Stations searched for (II): **7**

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

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*
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 (Kelsh Flotter) 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.

Cernen 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
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>LATITUDE OR Y-COORDINATE</th>
<th>LONGITUDE OR X-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA 17 1934</td>
<td>Duval Co. FG, G, P-3 NA 27</td>
<td>2177 181.70</td>
<td>324 414.06</td>
<td>664 706.3</td>
<td>663 606.3 Plotted</td>
</tr>
<tr>
<td>AA 18 1934</td>
<td>Duval Co. FG, G, P-3, NA 27</td>
<td>2177 897.10</td>
<td>332 439.41</td>
<td>105 423.7</td>
<td>101 327.7</td>
</tr>
<tr>
<td>AA 19 1934</td>
<td>Duval Co. FG, G, P-3, NA 27</td>
<td>2178 187.84</td>
<td>335 144.19</td>
<td>102 252.2</td>
<td>103 152.2</td>
</tr>
<tr>
<td>AA 20 1934</td>
<td>Duval Co. FG, G, P-3, NA 27</td>
<td>2174 142.84</td>
<td>338 423.79</td>
<td>104 257.8</td>
<td>103 157.8</td>
</tr>
<tr>
<td>AA 21 1934</td>
<td>Duval Co. FG, G, P-4, NA 27</td>
<td>2175 498.27</td>
<td>340 359.74</td>
<td>104 841.2</td>
<td>103 741.2</td>
</tr>
</tbody>
</table>

1 FT. = 0.3048006 METER

COMPUTED BY: E. Purcell  DATE: 16 February 1959
CHECKED BY: Wm. Wm. S.  DATE: 4/19/59
PHOTOMGRAMMETRIC 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 USGS 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.

ARTHUR L. WARDWELL
Arthur L. Wardwell
Tampa District Officer

E. T. Ogilby
Cartographer (Photo)
48. **GEOGRAPHIC NAME LIST**

Atlantic Boulevard Estates
Bird Island
Cedar Swamp
Cosmo
Cowhead Cemetery
Craiz 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
*

* E.G.N. Decision

[Signature]

GEOGRAPHIC NAMES SECTION
31 October 1960
I recommend that the following objects which have \textit{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 \textit{E.T. Ogilby}.

<table>
<thead>
<tr>
<th>STATE</th>
<th>FLORIDA</th>
</tr>
</thead>
<tbody>
<tr>
<td>CARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>ST. JAMES RIVER</td>
<td></td>
</tr>
<tr>
<td>LIGHT</td>
<td>QUARANTINE ISLAND UPPER RANGE</td>
</tr>
<tr>
<td>NSAR</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>POSITION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>30 22</td>
<td>10 20</td>
<td>01 33</td>
<td>87 25</td>
<td>1958</td>
</tr>
<tr>
<td></td>
<td>31 6</td>
<td>08 12</td>
<td>03 26</td>
<td>87 25</td>
<td>1958</td>
</tr>
</tbody>
</table>

\textit{Note taken from field inspection}

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and \textit{nontloating 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.
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

E. T. Ogilby

<table>
<thead>
<tr>
<th>STATE</th>
<th>Florida</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>ANBO</td>
</tr>
<tr>
<td>DESCRIPTION</td>
<td>Skeleton steel, revolving light</td>
</tr>
<tr>
<td></td>
<td>ht = 55 (98) ft.</td>
</tr>
<tr>
<td>LATITUDE</td>
<td>29 00</td>
</tr>
<tr>
<td>LONGITUDE</td>
<td>81 31</td>
</tr>
<tr>
<td>DATUM</td>
<td>1927</td>
</tr>
<tr>
<td>METHOD</td>
<td>Photo Plot</td>
</tr>
<tr>
<td>DATE OF LOCATION</td>
<td>Oct. 1959</td>
</tr>
</tbody>
</table>

Arthur L. Wardwell, Chief of Party

Jacksonville Section

*Date 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
PHOTOGRAMMETRIC OFFICE REVIEW
T-10830


CONTROL STATIONS

ALONGSHORE AREAS
(Nautical Chart Data)

PHYSICAL FEATURES

CULTURAL FEATURES

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

MISCELLANEOUS

40. Williams H. Shearouse

Reviewer

William H. Shearouse

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.

43. Remarks:
Review Report of
Planimetric Map Manuscripts T-10823 through T-10836
October 1960

62. **Comparison with Registered Topographic Surveys:**

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-411</td>
<td>1:10,000</td>
<td>1853</td>
</tr>
<tr>
<td>T-550</td>
<td>1:10,000</td>
<td>1855</td>
</tr>
<tr>
<td>T-551</td>
<td>1:10,000</td>
<td>1855</td>
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<tr>
<td>T-552</td>
<td>1:10,000</td>
<td>1855-56</td>
</tr>
<tr>
<td>T-712</td>
<td>1:10,000</td>
<td>1858</td>
</tr>
<tr>
<td>T-713</td>
<td>1:10,000</td>
<td>1858</td>
</tr>
<tr>
<td>T-963</td>
<td>1:10,000</td>
<td>1864</td>
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<tr>
<td>T-965</td>
<td>1:10,000</td>
<td>1864</td>
</tr>
<tr>
<td>T-1332b</td>
<td>1:20,000</td>
<td>1871</td>
</tr>
<tr>
<td>T-1459a</td>
<td>1:20,000</td>
<td>1876-77</td>
</tr>
<tr>
<td>T-2027</td>
<td>1:60,000</td>
<td>1875</td>
</tr>
<tr>
<td>T-4056</td>
<td>1:20,000</td>
<td>1924</td>
</tr>
<tr>
<td>T-4056b</td>
<td>1:20,000</td>
<td>1924</td>
</tr>
<tr>
<td>T-5235</td>
<td>1:10,000</td>
<td>1933</td>
</tr>
<tr>
<td>T-5666</td>
<td>1:10,000</td>
<td>1935</td>
</tr>
<tr>
<td>T-5669</td>
<td>1:10,000</td>
<td>1933-39</td>
</tr>
<tr>
<td>T-5670</td>
<td>1:10,000</td>
<td>1933-39</td>
</tr>
<tr>
<td>T-5671</td>
<td>1:10,000</td>
<td>1939</td>
</tr>
<tr>
<td>T-5672</td>
<td>1:10,000</td>
<td>1939</td>
</tr>
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<td>T-6376b</td>
<td>1:10,000</td>
<td>1934</td>
</tr>
<tr>
<td>T-6487ab</td>
<td>1:10,000</td>
<td>1934</td>
</tr>
<tr>
<td>T-6488ab</td>
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<td>1934</td>
</tr>
<tr>
<td>T-11093</td>
<td>1:20,000</td>
<td>1957-58</td>
</tr>
<tr>
<td>T-11454</td>
<td>1:10,000</td>
<td>1951-54</td>
</tr>
</tbody>
</table>

Cultural and shoreline changes have been continuous and extensive. Considerable differences exist between topographic survey of 1951-54 and the land area of affected 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, E. U. 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:

<table>
<thead>
<tr>
<th>Quadrangle</th>
<th>Scale</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>H-8107</td>
<td>1:10,000</td>
<td>1954</td>
</tr>
<tr>
<td>H-8112 (plus add. work)</td>
<td>1:20,000</td>
<td>1958-59</td>
</tr>
<tr>
<td>H-8162</td>
<td>1:20,000</td>
<td>1958-59</td>
</tr>
<tr>
<td>H-8163</td>
<td>1:10,000</td>
<td>1958-59</td>
</tr>
<tr>
<td>H-8164</td>
<td>1:10,000</td>
<td>1959</td>
</tr>
</tbody>
</table>

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-8112, 8162 through 8164) and in the comparison, no major differences were noted.

65. Comparison with Nautical Charts:

<table>
<thead>
<tr>
<th>Chart No</th>
<th>Scale</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>569</td>
<td>1:40,000</td>
<td>Revised to 12/8/1958</td>
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<tr>
<td>577</td>
<td>1:40,000</td>
<td>12/21/1959</td>
</tr>
<tr>
<td>685</td>
<td>1:40,000</td>
<td>2nd Ed. 12/7/1959</td>
</tr>
<tr>
<td>1243</td>
<td>1:80,000</td>
<td>Revised to 2/22/1960</td>
</tr>
</tbody>
</table>

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 affected 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.

Dee 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.
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:

[Signature]

Josef J. Streitler

Approved:

[Signature]

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

[Signature]

[Signature]

J. W. Waugh
Chief, Nautical Chart Division

L. J. Woodcock
Asst. Chief, Photogrammetry Division

[Signature]

J. A. Boine
Chief, Operations Division
NAUTICAL CHARTS BRANCH

SURVEY NO. T-10830

Record of Application to Charts

<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/16/63</td>
<td>636</td>
<td>John E. Jones</td>
<td>Fully Before After Verification and Review</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Before After Verification and Review</td>
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<tr>
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<td></td>
<td></td>
<td>Before After Verification and Review</td>
</tr>
</tbody>
</table>

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.