NOAA FORM 76-35
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

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<tbody>
<tr>
<td>TP-01010</td>
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<table>
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<table>
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<table>
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<tr>
<td>Shoreline</td>
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<table>
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<table>
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<td>Florida</td>
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<table>
<thead>
<tr>
<th>General Locality</th>
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<tbody>
<tr>
<td>Flagler Beach</td>
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<table>
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<tr>
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<tbody>
<tr>
<td>Tomoka Basin to Silver Lake</td>
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19 TO 1979

REGISTRY IN ARCHIVES

DATE

*U.S. GOVERNMENT PRINTING OFFICE: 1979-669-248*
# DESCRIPTIVE REPORT - DATA RECORD

**PHOTOGRAMMETRIC OFFICE**

Rockville, Md.

**OFFICER-IN-CHARGE**

Cdr. James Collins

## I. INSTRUCTIONS DATED

<table>
<thead>
<tr>
<th>TYPE OF SURVEY</th>
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<td>MEAN LOW-WATER</td>
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<tr>
<td>MEAN LOWER LOW-WATER</td>
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<td>MEAN SEA LEVEL</td>
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<td>Transverse Mercator</td>
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<table>
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<tr>
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## III. HISTORY OF OFFICE OPERATIONS

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<tr>
<th>OPERATIONS</th>
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<tr>
<td>AEROTRIANGULATION</td>
<td>R. Kelly</td>
<td>May 1979</td>
</tr>
<tr>
<td>METHOD: Analytic LANDMARKS AND AIDS</td>
<td>N/A</td>
<td>May 1979</td>
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<tr>
<td>2. CONTROL AND BRIDGE POINTS</td>
<td>J. Taylor</td>
<td>N/A</td>
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<td>METHOD: Coradomat PLOTTED</td>
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<td>CHECKED</td>
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<td>3. STEREOSCOPIC INSTRUMENT</td>
<td>R. Rich</td>
<td>July 1979</td>
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<td>COMPILATION PLANIMETRY</td>
<td>C. Lewis</td>
<td>Aug 1979</td>
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<td>INSTRUMENT:</td>
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<td>SCALE:</td>
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<td>4. MANUSCRIPT DELINEATION</td>
<td>R. Rich</td>
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<td>PLANIMETRY</td>
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<td>checked</td>
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<tr>
<td>5. OFFICE INSPECTION PRIOR TO FIELD EDIT</td>
<td>D. Brant</td>
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<td>METHOD: Graphic HYDRO SUPPORT DATA</td>
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## U.S. G.P.O. 1972-769382/582 REG.#6
### 1. Compilation Photography

<table>
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<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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<tr>
<td>79 CP 8546-8548</td>
<td>7 Mar 79</td>
<td>1302</td>
<td>1:60,000</td>
<td>The stage of tide is inapplicable for this photography Refer to NOAA Form 76-36 B(1) for tide data</td>
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<tr>
<td>79 CR 0310-0312</td>
<td>28 Mar 79</td>
<td>1002</td>
<td>1:60,000</td>
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<tr>
<td>79 CR 8298-8300</td>
<td>9 Mar 79</td>
<td>1250</td>
<td>1:60,000</td>
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<tr>
<td>79 CR 8731-8733</td>
<td>9 Mar 79</td>
<td>1057</td>
<td>1:60,000</td>
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### 2. Source of Mean High-Water Line:

The source of the MHW line is the tide-coordinated infrared photography listed in item 1 above. Where the shoreline is obscured by vegetation the apparent shoreline symbol was used.

### 3. Source of Mean Low-Water or Mean Lower Low-Water Line:

The source of the MLW line on the ocean side is the tide-coordinated infrared photography listed in item 1 above. There is no MLW line on the interior waters of this map because the MHWL and the MLWL coincide at map scale.

### 4. Contemporary Hydrographic Surveys

(List only those surveys that are sources for photogrammetric survey information.)

<table>
<thead>
<tr>
<th>Survey Number</th>
<th>Date(s)</th>
<th>Survey Copy Used</th>
<th>Survey Number</th>
<th>Date(s)</th>
<th>Survey Copy Used</th>
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### 5. Final Junctions

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<th>South</th>
<th>West</th>
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<tr>
<td>TP-01009</td>
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<td>TP-01011</td>
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Remarks

Final junctions are made by the Coastal Mapping Section
<table>
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<tr>
<th>LOCATION AND PHOTOGRAPHY</th>
<th>TIDE STATIONS</th>
<th>STAGE OF TIDE</th>
<th>MEAN RANGE</th>
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<tr>
<td>79CR 0310-0312</td>
<td>Flagler Beach (Inside)</td>
<td>-0.4 MHW</td>
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<tr>
<td>79CR 8298-8300</td>
<td>Daytona Beach (Outside)</td>
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<td>79CR 8731-8733</td>
<td>Smith Creek, Flagler Beach (Inside)</td>
<td>+0.5 MLW</td>
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REMARKS:
1. FIELD INSPECTION OPERATION

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<tr>
<td>1. CHIEF OF FIELD PARTY</td>
<td>R. S. Tibbets</td>
<td>12/10/79</td>
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<tr>
<td>2. HORIZONTAL CONTROL</td>
<td>RECOVERED BY</td>
<td></td>
</tr>
<tr>
<td>3. VERTICAL CONTROL</td>
<td>RECOVERED BY</td>
<td></td>
</tr>
<tr>
<td>4. LANDMARKS AND AIDS TO NAVIGATION</td>
<td>RECOVERED</td>
<td>12/10/79</td>
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<tr>
<td>5. GEOGRAPHIC NAMES INVESTIGATION</td>
<td>LOCATION</td>
<td></td>
</tr>
<tr>
<td>6. PHOTO INSPECTION</td>
<td>J. E. Dunford</td>
<td>12/10/79</td>
</tr>
<tr>
<td>7. BOUNDARIES AND LIMITS</td>
<td>J. E. Dunford</td>
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II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

<table>
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<th>STATION NAME</th>
<th>PHOTO NUMBER</th>
<th>STATION DESIGNATION</th>
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3. PHOTO NUMBERS (Clarification of details)

79 CP 8546, 8547 and 8548

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

Flagler Beach Tank

5. GEOGRAPHIC NAMES: [ ] REPORT [ ] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [ ] NONE

7. SUPPLEMENTAL MAPS AND PLANS

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)
I. MANUSCRIPT COPIES

<table>
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<tr>
<th>DATA COMPiled</th>
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<th>REMARKS</th>
<th>MARINE CHARTS</th>
<th>HYDRO SUPPORT</th>
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II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

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<th>CHART LETTER NUMBER</th>
<th>DATE FORWARDED</th>
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<td>3</td>
<td></td>
<td>22 Aug 80</td>
<td>Digitized forms (76-40) submitted</td>
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2. □ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 
3. □ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: 

III. FEDERAL RECORDS CENTER DATA

1. □ BRIDGING PHOTOGRAPHY; □ DUPLICATE BRIDGING REPORT; □ COMPUTER READOUTS.
2. □ CONTROL STATION IDENTIFICATION CARDS; □ FORM NO. 567 SUBMITTED BY FIELD PARTIES.
3. □ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
   ACCOUNT FOR EXCEPTIONS:
4. □ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: 

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

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SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT
TP-01010

Coastal Zone Map TP-01010 is one of eighteen 1:20,000 scale shoreline maps in project CM-7816. These maps are intended for planning purposes for the state of Florida and for the construction and maintenance of NOS Nautical Charts.

The layout for CM-7816 shows the location of the individual maps from St. Marys Entrance to Edgewater and from St. Johns River to Palatka. A copy of the layout is included in this Descriptive Report. Field operations consisted of premarking horizontal control and photographing the area, establishing tidal datums and performing the field edit.

Color compilation photography was taken with the Wild RC-10-Z camera at 1:20,000 scale in March, 1979 and used in clarifying detail and compiling landmarks and aids to navigation. The shoreline was compiled using 1:60,000 scale black and white, infrared MHW and MLW, ratio photography taken with the Wild RC-10-C camera in March, 1979.

The Aerotriangulation Unit in Rockville, Maryland bridged five strips of 1:60,000 scale black and white photography using analytic aerotriangulation methods.

Compilation was completed in the Coastal Mapping Unit, Rockville, Maryland, using graphic methods.

Field edit was completed in December, 1979. Recovery and location of landmarks, fixed aids to navigation, pilings, etc. were omitted from the field edit procedures as per memo, dated January 30, 1976, from Chief, Coastal Mapping Branch. These items were compiled, to the extent possible, by office photogrammetric methods. The edit was required to only visually verify their existence at the time of edit. Their locations were not field checked. Field edit requirements in the foreshore and adjacent areas remain unchanged.

Application of field edit was performed in the Coastal Mapping Unit, Rockville, Maryland.

Final Review was performed in the Quality Control Unit, Rockville, Maryland in April, 1984. This map meets the requirements for National Standards of Map Accuracy.

The context of this Descriptive Report contains all pertinent reports and listings of data used to compile the final map.
21. Area Covered

This report covers 18 1:20,000 sheets, TP-00996 thru TP-01013 of St. Marys Entrance to Edgewater and St. Johns River to Palatka, Georgia and Florida. Bridging and adjustment of strip 1 were completed and turned over to compilation June 29, 1979. Strips 2 and 3 were completed and turned over to compilation July 6, 1979.

22. Method

In trying to adjust strip 3 to strip 2 the common control and tie points indicated that there may be a problem in the photography. To obtain the best adjustment of strip 2 film distortion correction was not used. Strip 3 was also adjusted not using film distortion correction. A deviation of control and tie points of strip 3 from strip 2 was made not using film distortion correction. From this analysis it was determined that there is a good fit between the two strips.

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<th>Pt. No.</th>
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<td>5.1</td>
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2

Strip 4 was adjusted horizontally on a third degree curve using film distortion correction and was evaluated as a good adjustment.

Strip 5 was adjusted with and without the use of film distortion correction, but would not fit strip 4. To accomplish a sufficient tie of strip 5 to strip 4, a 25 photo block adjustment had to be used.

Visible landmarks and fixed aids to navigation were located during bridging of the 1:60,000 scale photography. Ratio values were determined of the 1:60,000 scale MLW and MLH infrared photography and was provided along with other data to compilation.

23. Adequacy of Control

All control was adequate and held within the accuracy required by National Standards of Maps for 1:20,000 scale manuscripts.

24. Supplemental Data

Local shoreline and U.S. Geological Survey quadrangles were used to provide elevations for vertical adjustments of bridges.

25. Photography

RC-10 black and white positives were adequate as to coverage and overlay. Definition was poor as in some areas double images of piers could be seen.

Submitted by,

Robert B. Kelly

Approved and Forwarded:

Don O. Norman
Chief, Aerotriangulation Section
CM-7816
ST MARYS ENTRANCE TO EDGEWATER
AND
ST JOHNS RIVER TO PALATKA
GEORGIA - FLORIDA
CM-7816
ST MARYS ENTRANCE TO EDGEWATER
AND
ST JOHNS RIVER TO PALATKA
GEORGIA - FLORIDA

1 CROOKED, 1905
2 KINGSLEY (USE) 1933
3 ITALIA, 1932, 1933
4 NILE POINT (USE) 1926
5 LORETO, 1932
6 JEKS 2, 1917, 1933
7 DALE REFERENCE MARK NO 1, 1935
8 SUN, 1935
9 FICKLER, 1933
10 POMONA LANDING, 1935, 1967
11 FLAGLER, 1932
12 ORMOND HOTEL SHIPPEY, 1908
13 GILLET, 1956
14 SHILOH, 1924
| Strip 1 |
|------------|------|
| 560101    | SHILOH, 1934 | 0.6, -0.2 |
| 554101    | GIMLET, 1956 | -2.3, 0.7 |
| 549101    | ORMOND HOTEL CHIMNEY, 1906 | 2.9, -1.6 |
| 545101    | FLAGLER, 1934 | -1.3, 1.4 |
| 539101    | NICKLER, 1933 | 0.0, -0.3 |

| Strip 2 |
|------------|------|
| 539101    | NICKLER, 1933 | -0.0, 0.3 |
| 483100    | JENKS 2, 1917, 1933 | 0.7, -1.6 |
| 489101    | MILE POINT (USE) 1926 | -1.3, 3.0 |
| 494100    | KINGSLEY (USE) 1933 | 0.9, -2.5 |
| 498101    | CROOKED, 1905 | -0.3, 0.9 |

| Strip 3 |
|------------|------|
| 498101    | CROOKED, 1905 | -0.0, 0.0 |
| 494100    | KINGSLEY (USE) 1933 | -0.0, 0.0 |
| 491802    | TIE FROM STRIP 2 | -1.1, -2.9 |
| 518101    | LORETTO, 1932 SUB. PT. | 0.0, -0.0 |

| Strip 4 |
|------------|------|
| 590101    | ITALIA RM 2, 1932 | -1.0, 0.4 |
| 513801    | TIE FROM STRIP 3 | 1.1, -4.1 |
| 518101    | LORETTO, 1932 SUB. PT. | 2.3, 3.7 |
| 576101    | DALE RM 1, 1935 | -2.5, -0.8 |
| 573101    | SUN, 1935 SUB. PT. | -0.9, -0.6 |
| 413101    | POMONA LANDING, 1935, 1967 SUB. PT. | 1.2, 0.6 |

| Strip 5 |
|------------|------|
| 413101    | POMONA LANDING, 1935, 1967 SUB. PT. | 0.0, 0.0 |
| 573101    | SUN, 1935 SUB. PT. | 0.0, 0.0 |
| 576101    | DALE RM 1, 1935 | 0.0, 0.0 |
| 421810    | TIE FROM STRIP 4 | 13.7, 6.9 |
| 424810    | TIE FROM STRIP 4 | 0.0, 0.0 |
| 428810    | TIE FROM STRIP 4 | 0.0, 0.0 |
| 432810    | TIE FROM STRIP 4 | 0.0, 0.0 |
| 590101    | ITALIA RM 2, 1932 | 0.0, 0.0 |
CM-7816
ST MARYS ENTRANCE TO EDGewater
AND
ST JOHNS RIVER TO PALATKA
GEORGIA - FLORIDA
<table>
<thead>
<tr>
<th>STATION NAME</th>
<th>SOURCE OF INFORMATION</th>
<th>AEROTRIANGULATION POINT NUMBER</th>
<th>COORDINATES IN FEET</th>
<th>GEOGRAPHIC POSITION</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flagler, 1934</td>
<td>P C Pg 1</td>
<td></td>
<td>x = 457,817.30</td>
<td>ϕ 29° 29' 20.877&quot;</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>y = 1,874,097.67</td>
<td>λ 81° 07' 57.312&quot;</td>
<td></td>
</tr>
</tbody>
</table>

**COMPUTED BY**

**LISTED BY**

R. Rich

**DATE**

July 1979

**HAND PLOTTING BY**

**DATE**

**COMPUTATION CHECKED BY**

**DATE**

C. Lewis

Aug 1979

**HAND PLOTTING CHECKED BY**

**DATE**
31. **Delineation**

All alongshore and offshore features and interior planimetry on this map were delineated by graphic compilation using the rectified black and white 1:60,000 scale panchromatic photography. This photography was controlled by points determined by aerotriangulation methods.

The MHW line in the Halifax River, Halifax Creek, and Smith Creek was compiled from office interpretation of the enlarged tide-coordinated, black and white, infrared photography. The oceanside MHW line was compiled from office interpretation of the MHW tide-coordinated infrared photography and measurements to the MHW line furnished by the field editor.

The MLW line on the oceanside was compiled from office interpretation of the enlarged tide-coordinated black and white infrared photography.

The MLW line was not shown in the interior waters as both the MHW line and MLW line coincided at map scale. A strip of 1:20,000 color photography was used for interpretation.

32. **Horizontal Control**

Horizontal control was adequate. (See Photogrammetric Plot Report).

33. **Supplemental Data**

One tide station was plotted from a sketch furnished by the Tides and Water Level Section.

34. **Contours and Drainage**

Contours are not applicable. Drainage was compiled from office interpretation of tide-coordinated black and white infrared photography.

35. **Shoreline and Alongshore Detail**

Office interpretation of the tide-coordinated, black and white infrared photos was adequate for delineating the shoreline and alongshore detail except as noted in Item 31.
36. **Offshore Details**

Offshore delineation consisted of channel areas only on this map.

37. **Landmarks and Aids**

Four landmarks and four aids to navigation were located during bridging and compilation of this map.

38. **Control for Future Survey - None**

39. **Junctions**

Refer to NOAA Form 76-36B for junctions.

40. **Horizontal and Vertical Accuracy**

This map complies with accuracy requirements for the Florida Coastal Zone Mapping Program as outlined by Project Instructions PH-7000.

41 thru 45. **Inapplicable**

46. **Comparison with Existing Maps**

Comparison was made with the following USGS quads:

- Flagler Beach West, Fla., 1956, Photorevised 1970, Scale 1:24,000
- Flagler Beach East, Fla., 1956, " " " "
- Ormond Beach, Fla., 1956, " " " "
- Favoretta, Fla., 1956, " " " "

47. **Comparison with Nautical Charts**

Comparison was made with the following Nautical Charts:

- 11485, 16th Edition, June 17, 1978, Scale 1:40,000

Items to be applied to Nautical Charts immediately - None
Items to be carried forward - None

Submitted by,

R. D. Rich

Approved and Forwarded:

F. Wright
Acting Chief, Coastal Mapping Section
FIELD EDIT REPORT
TP-01010 CM 7816

METHODS

The field edit was made according to the Coastal Mapping Instruction dated 1/30/78. The manuscript was inspected and all questions answered. The field edit of the outside shoreline was made by driving along the highway near the shoreline. The edit of the inside shoreline was made from a skiff run close to shore and by driving to areas that could not be reached by skiff. One discrepancy print and three photographs numbers 79CF 8546-X, 8547-X and 8548-X were used.

ACCURACY OF-compilation

Adequate after application of field edit information.

GEOGRAPHY NAMES

N/A

MANUSCRIPT ACCURACY

N/A

RECOMMENDATIONS

NONE

NAVIGATION

NONE

TRANSMITTAL OF DATA

All data sent to Coastal Mapping Section Norfolk, Va.

James E Dunford
REVIEW REPORT

TP-01010

April 1984

61. General Statement

Refer to the Summary bound with this Descriptive Report.

62. Comparison With Registered Topographic Surveys - None

63. Comparison With Maps of Other Agencies

Refer to the Compilation Report, paragraph 46, bound with this Descriptive Report.

64. Comparison With Contemporary Hydrographic Surveys - None

65. Comparison With Nautical Charts

Refer to the Compilation Report, paragraph 47, bound with this Descriptive Report.

66. Adequacy of Results and Future Surveys

This map complies with the Project Instructions and meets the requirements for National Standards of Map Accuracy.

Submitted by:

Patrick J. Dempsey
Cartographer

Approved and Forwarded:

Chief, Photogrammetric Section

Ronald K. Brewer
Chief, Photogrammetry Branch
GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7816 (St. Marys Entrance to Edgewater and St. Johns River to Palatka, Ga.-Fla.)

TP-01010

Atlantic Ocean
Bryan Island
Bulow Creek
Flagler Beach (Ppl)
Halifax Creek
Mound Grove (Ppl)

Ormond-by-the-Sea
Silver Lake
Smith Creek
Tiger Hammock
Tomoka Basin

Approved by:

Charles E. Harrington
Chief Geographer
DISSEMINATION OF PROJECT MATERIAL

CM-7816

National Archives/Federal Records Center

Red Jacket:

Field Notebooks - NOAA Forms 77-53
NOAA Form 76-77
NOAA Form 76-52

Bridging Photographs
Tidal Bench Mark Descriptions
Sketches and Computations
Field Edit Discrepancy Print
Field Photographs
CSI Cards

Bureau Archives

Registered Copy of Each Map
Descriptive Report of Each Map

Reproduction Division

8x Reduction Negative of Each Map

Office of Staff Geographer

Geographic Names Standard
KEY FOR ENTRIES UNDER METHOD AND DATE OF LOCATION

1. Office identified and located objects - The number and date (including month, day, and year) of the photograph used to identify and locate the object are shown.
   Example: 75E(C)1642
   8-12-77

2. Triangulation station recovered - When a landmark or aid which is also a triangulation station is recovered, a triang. rec. with date of recovery is shown.
   Example: TRIANG. REC.
   8-12-76

3. Position verified visually on photograph shown by V-Vis and date.
   Example: V-Vis
   8-12-75

4. Field positions show the method of location and date of field work.
   Example: F-2-6-L
   8-12-76

5. Field positions are determined by field observations based entirely upon ground survey methods.

6. Photogrammetric field positions are dependent entirely or in part upon control established by photogrammetric methods.

**Note:** Where the name of an aid includes the immediate geographic heading under which it is listed, a dash (-) is used to indicate the geographic heading which is part of the official name.
THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>POSITION</th>
<th>CMD</th>
<th>METHOD AND DATE</th>
<th>CHARTS</th>
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<tr>
<td>RECORDING REASON FOR DELETION</td>
<td>LATITUDE</td>
<td>LONGITUDE</td>
<td>DGM</td>
<td>DGTZ0</td>
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<tr>
<td>NAME</td>
<td>DM</td>
<td>DP</td>
<td>OF LOCATION</td>
<td>CHARTS</td>
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</table>

ONLY THOSE NONFLOATING AIDS AND LANDMARKS TO NAVIGATION THAT WERE VISIBLE ON THE PHOTOGRAPHY ARE SHOWN ON THIS MAP.

**MATANZAS INLET-MOSQUITO LAGOON**

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<thead>
<tr>
<th>LIGHT</th>
<th>NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
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<td>SILVER LAKE</td>
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<td>HALIFAX RIVER</td>
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<td>CMD</td>
<td>METHOD AND DATE</td>
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<td>STACK</td>
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<tr>
<td>TOWER</td>
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<td>81 04 07.33 197.7</td>
<td>03/07/79 12/03/79 11485</td>
<td>79CP8548 V-VIS</td>
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</table>
INSTRUCTIONS
A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

<table>
<thead>
<tr>
<th>CHART</th>
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