

TP-00202

TP-00202

|   |                  |
|---|------------------|
| NOAA FORM 76-35<br>(3-78)   |                  |
| U.S. DEPARTMENT OF COMMERCE<br>NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION<br>NATIONAL OCEAN SURVEY |                  |
| DESCRIPTIVE REPORT  |                  |
| THIS MAP EDITION WILL NOT BE FIELD EDITED   |                  |
| Map No.<br>TP-00202   | Edition No.<br>1 |
| Job No.<br>CM-7804  |                  |
| Map Classification<br>CLASS III (FINAL)   |                  |
| Type of Survey<br>SHORELINE   |                  |
| LOCALITY  |                  |
| State<br>FLORIDA-GEORGIA  |                  |
| General Locality<br>KINGS BAY TO ST. MARYS ENTRANCE   |                  |
| Locality<br>AMELIA RIVER  |                  |
| 19 78 TO 19   |                  |
| REGISTRY IN ARCHIVES  |                  |
| DATE  |                  |

|  |  |   |           |
|--|--|---|-----------|
| NOAA FORM 76-36A<br>(3-72)   |  | U. S. DEPARTMENT OF COMMERCE<br>NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.   |           |
| <b>DESCRIPTIVE REPORT - DATA RECORD</b>  |  | TYPE OF SURVEY<br><input checked="" type="checkbox"/> ORIGINAL<br><input type="checkbox"/> RESURVEY<br><input type="checkbox"/> REVISED   |           |
| PHOTOGRAMMETRIC OFFICE<br><br>Coastal Mapping Division, Norfolk, VA  |  | SURVEY TP00202<br><br>MAP EDITION NO. (1)<br>MAP CLASS Final Class III<br>JOB CM-Rtt-7804   |           |
| OFFICER-IN-CHARGE<br><br>Roy K. Matsushige   |  | LAST PRECEDING MAP EDITION<br>TYPE OF SURVEY<br><input type="checkbox"/> ORIGINAL<br><input type="checkbox"/> RESURVEY<br><input type="checkbox"/> REVISED<br>JOB PH-<br>MAP CLASS<br>SURVEY DATES:<br>19__ TO 19__ |           |
| <b>I. INSTRUCTIONS DATED</b>   |  |   |           |
| 1. OFFICE  |  | 2. FIELD  |           |
| Aerotriangulation May 5, 1978<br>Compilation June 22, 1978<br>Amendment #1 Aug. 17, 1978<br>Amendment #2 Dec. 4, 1978<br>Registration (Memo) July 14, 1983   |  | Control Identification April 28, 1978   |           |
| <b>II. DATUMS</b>  |  |   |           |
| 1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH-AMERICAN   |  | OTHER (Specify)   |           |
| 2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER<br><input checked="" type="checkbox"/> MEAN LOW-WATER<br><input type="checkbox"/> MEAN LOWER LOW-WATER<br><input type="checkbox"/> MEAN SEA LEVEL |  | OTHER (Specify)   |           |
| 3. MAP PROJECTION<br><br>Transverse Mercator   |  | 4. GRID(S)<br>STATE Georgia ZONE East   |           |
| 5. SCALE<br>1:5,000  |  | STATE ZONE  |           |
| <b>III. HISTORY OF OFFICE OPERATIONS</b>   |  |   |           |
| OPERATIONS   |  | NAME  | DATE      |
| 1. AEROTRIANGULATION BY<br>METHOD: Analytic LANDMARKS AND AIDS BY  |  | S. Solbeck  | July 1978 |
| 2. CONTROL AND BRIDGE POINTS PLOTTED BY<br>METHOD: Coradomat CHECKED BY  |  | S. Solbeck  | July 1978 |
| 3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY<br>COMPILATION CHECKED BY   |  | J. Roderick   | Aug. 1978 |
| INSTRUMENT: Wild B-8<br>SCALE: 1:5,000<br>CONTOURS BY<br>CHECKED BY  |  | L. Neterer  | Aug. 1978 |
| 4. MANUSCRIPT DELINEATION PLANIMETRY BY<br>CHECKED BY  |  | J. Roderick   | Sept 1978 |
| METHOD: Smooth draft and graphic<br>SCALE: 1:5,000<br>CONTOURS BY<br>CHECKED BY  |  | L. Neterer  | Sept 1978 |
| HYDRO SUPPORT DATA BY<br>CHECKED BY  |  | N.A.  |           |
| 5. OFFICE INSPECTION BY  |  | L. Neterer  | Sept 1978 |
| 6. APPLICATION OF FIELD DATA BY  |  | F. Margotta   | Mar. 1979 |
| CHECKED BY   |  | A. Rauck  | Mar. 1979 |
| 7. COMPILATION SECTION REVIEW BY   |  | A. Rauck  | Mar. 1979 |
| 8. FINAL REVIEW Class III BY   |  | J. Hancock  | Aug. 1983 |
| 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY   |  | J. Hancock  | Oct. 1983 |
| 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY   |  | P. Hawkins  | June 1984 |
| 11. MAP REGISTERED - COASTAL SURVEY SECTION BY   |  | E. DAUGHERTY  | Nov. 1984 |

NOAA FORM 76-36B  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEYTP-00202  
COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

|  |              |   |          |                      |  |
|--|--------------|---|----------|----------------------|--|
| CAMERA(S) Wild R. C. 8, "E" and "K"<br>"E"=152.71mm, "K"=151.77mm  |              | TYPES OF PHOTOGRAPHY<br>LEGEND<br>(C) COLOR<br>(P) PANCHROMATIC<br>(I) INFRARED |          | TIME REFERENCE       |  |
| TIDE STAGE REFERENCE<br><input checked="" type="checkbox"/> PREDICTED TIDES<br><input type="checkbox"/> REFERENCE STATION RECORDS<br><input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY |              |   |          | ZONE<br>Eastern      | <input checked="" type="checkbox"/> STANDARD |
|  |              |   |          | MERIDIAN<br>75th     | <input type="checkbox"/> DAYLIGHT            |
| NUMBER AND TYPE  | DATE         | TIME  | SCALE    | STAGE OF TIDE        |  |
| 78E(P) 8497-8501   | Mar 24, 1978 | 13:25   | 1:15,000 | 0.2 ft. below M.L.W. |  |
| 78K(I) 3458-3462   | "            | "   | "        | "                    |  |
| 78E(P) 8318-8320   | Mar 23, 1978 | 15:12   | 1:15,000 | 0.8 ft. above M.L.W. |  |
| 78K(I) 3307-3308   | "            | "   | "        | "                    |  |
| 78E(P) 8750-8752   | Apr 2, 1978  | 11:18   | 1:15,000 | 0.6 ft. above M.L.W. |  |
| 78K(I) 3588-3590   | "            | "   | "        | "                    |  |
| Mean range = 6.1 ft.   |              |   |          |                      |  |

## REMARKS

Panchromatic and infrared photographs taken in tandem.

## 2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled from office interpretation of the compilation photographs taken with the "E" camera.

## 3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

The mean low water line was compiled graphically from the tide coordinated infrared photographs. These were coordinated to predicted tides, and taken with the "K" camera.

## 4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

| SURVEY NUMBER | DATE(S) | SURVEY COPY USED | SURVEY NUMBER | DATE(S) | SURVEY COPY USED |
|---------------|---------|------------------|---------------|---------|------------------|
|               |         |                  |               |         |                  |

## 5. FINAL JUNCTIONS

| NORTH    | EAST     | SOUTH | WEST     |
|----------|----------|-------|----------|
| TP-00200 | TP-00203 | None  | TP-00199 |

## REMARKS

TP-00202

## HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION (Hor. cont) ☐ FIELD EDIT OPERATION

| OPERATION                           | NAME   | DATE      |
|-------------------------------------|--|-----------|
| 1. CHIEF OF FIELD PARTY             | R. Tibbetts  | May 1978  |
| 2. HORIZONTAL CONTROL               | RECOVERED BY R. Tibbetts                             | May 1978  |
|                                     | ESTABLISHED BY R. Tibbetts                           | May 1978  |
|                                     | PRE-MARKED OR IDENTIFIED BY R. Tibbetts              | May 1978  |
| 3. VERTICAL CONTROL                 | RECOVERED BY N.A.                                    |           |
|                                     | ESTABLISHED BY N.A.                                  |           |
|                                     | PRE-MARKED OR IDENTIFIED BY N.A.                     |           |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (Triangulation Stations) BY None           |           |
|                                     | LOCATED (Field Methods) BY R. Tibbetts               | July 1978 |
|                                     | IDENTIFIED BY None                                   |           |
| 5. GEOGRAPHIC NAMES INVESTIGATION   | TYPE OF INVESTIGATION                                |           |
|                                     | <input type="checkbox"/> COMPLETE BY                 |           |
|                                     | <input type="checkbox"/> SPECIFIC NAMES ONLY         |           |
|                                     | <input checked="" type="checkbox"/> NO INVESTIGATION |           |
| 6. PHOTO INSPECTION                 | CLARIFICATION OF DETAILS BY None                     |           |
| 7. BOUNDARIES AND LIMITS            | SURVEYED OR IDENTIFIED BY N.A.                       |           |

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

N.A.

| PHOTO NUMBER                | STATION NAME                                 | PHOTO NUMBER | STATION DESIGNATION |
|-----------------------------|--|--------------|---------------------|
| 78E(P)8792<br>contact photo | GUN (U.S.E.), 1954<br>(Sub Stations A and B) |              |                     |

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

| PHOTO NUMBER | OBJECT NAME | PHOTO NUMBER | OBJECT NAME |
|--------------|-------------|--------------|-------------|
|              |             |              |             |

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

1 form 76-53, 1 form 76-184, 2 pages penciled computations and sketch, list of geographic positions for hydrographic signal sites and fixed navigational aids within the project area, 1 Project Field Report.

TP-00202

## HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD ~~INSPECTION~~ OPERATION (See NOTE, Item #8)

| OPERATION                           | NAME   | DATE      |
|-------------------------------------|--|-----------|
| 1. CHIEF OF FIELD PARTY             | A. Bryson  | Nov. 1978 |
| 2. HORIZONTAL CONTROL               | RECOVERED BY None  |           |
|                                     | ESTABLISHED BY None  |           |
|                                     | PRE-MARKED OR IDENTIFIED BY None   |           |
| 3. VERTICAL CONTROL                 | RECOVERED BY N.A.  |           |
|                                     | ESTABLISHED BY N.A.  |           |
|                                     | PRE-MARKED OR IDENTIFIED BY N.A.   |           |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (Triangulation Stations) BY A. Bryson  | Nov. 1978 |
|                                     | LOCATED (Field Methods) BY None  |           |
|                                     | IDENTIFIED BY None   |           |
| 5. GEOGRAPHIC NAMES INVESTIGATION   | TYPE OF INVESTIGATION<br><input type="checkbox"/> COMPLETE<br><input type="checkbox"/> SPECIFIC NAMES ONLY<br><input checked="" type="checkbox"/> NO INVESTIGATION |           |
| 6. PHOTO INSPECTION                 | CLARIFICATION OF DETAILS BY A. Bryson  | Nov. 1978 |
| 7. BOUNDARIES AND LIMITS            | SURVEYED OR IDENTIFIED BY N.A.   |           |

## II. SOURCE DATA

| 1. HORIZONTAL CONTROL IDENTIFIED |              | 2. VERTICAL CONTROL IDENTIFIED |                     |
|----------------------------------|--------------|--------------------------------|---------------------|
| None                             |              | N.A.                           |                     |
| PHOTO NUMBER                     | STATION NAME | PHOTO NUMBER                   | STATION DESIGNATION |
|                                  |              |                                |                     |

## 3. PHOTO NUMBERS (Clarification of details)

Matte Ratio 78K(I) 3461

## 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

| PHOTO NUMBER | OBJECT NAME | PHOTO NUMBER | OBJECT NAME |
|--------------|-------------|--------------|-------------|
|              |             |              |             |

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

## 7. SUPPLEMENTAL MAPS AND PLANS

None

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

1 Paper Field Discrepancy Print

NOTE: Segmented field activity performed to identify questionable features for post photogrammetric processing.

NOAA FORM 76-36D  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONTP-00202  
RECORD OF SURVEY USE

## I. MANUSCRIPT COPIES

| COMPILATION STAGES                |           |                      | DATE MANUSCRIPT FORWARDED |               |
|-----------------------------------|-----------|----------------------|---------------------------|---------------|
| DATA COMPILED                     | DATE      | REMARKS              | MARINE CHARTS             | HYDRO SUPPORT |
| Compilation complete              | Sept 1978 | Class III manuscript | Oct 1978                  | Oct 1978      |
| Various field information applied | Mar. 1979 | Class III manuscript | None                      | None          |
| Final Review, Class III           | Aug. 1983 | Final Class III Map  | APR 1984                  |               |
|                                   |           |                      |                           |               |

## II. LANDMARKS AND AIDS TO NAVIGATION

## 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

| NUMBER<br>(Pages) | CHART LETTER<br>NUMBER ASSIGNED | DATE<br>FORWARDED | REMARKS                         |
|-------------------|---------------------------------|-------------------|---------------------------------|
| 1                 |                                 | APR 1984          | Landmarks for deletion          |
| 2                 |                                 | APR 1984          | Landmarks and aids for charting |
|                   |                                 |                   |                                 |
|                   |                                 |                   |                                 |
|                   |                                 |                   |                                 |
|                   |                                 |                   |                                 |

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: \_\_\_\_\_3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_

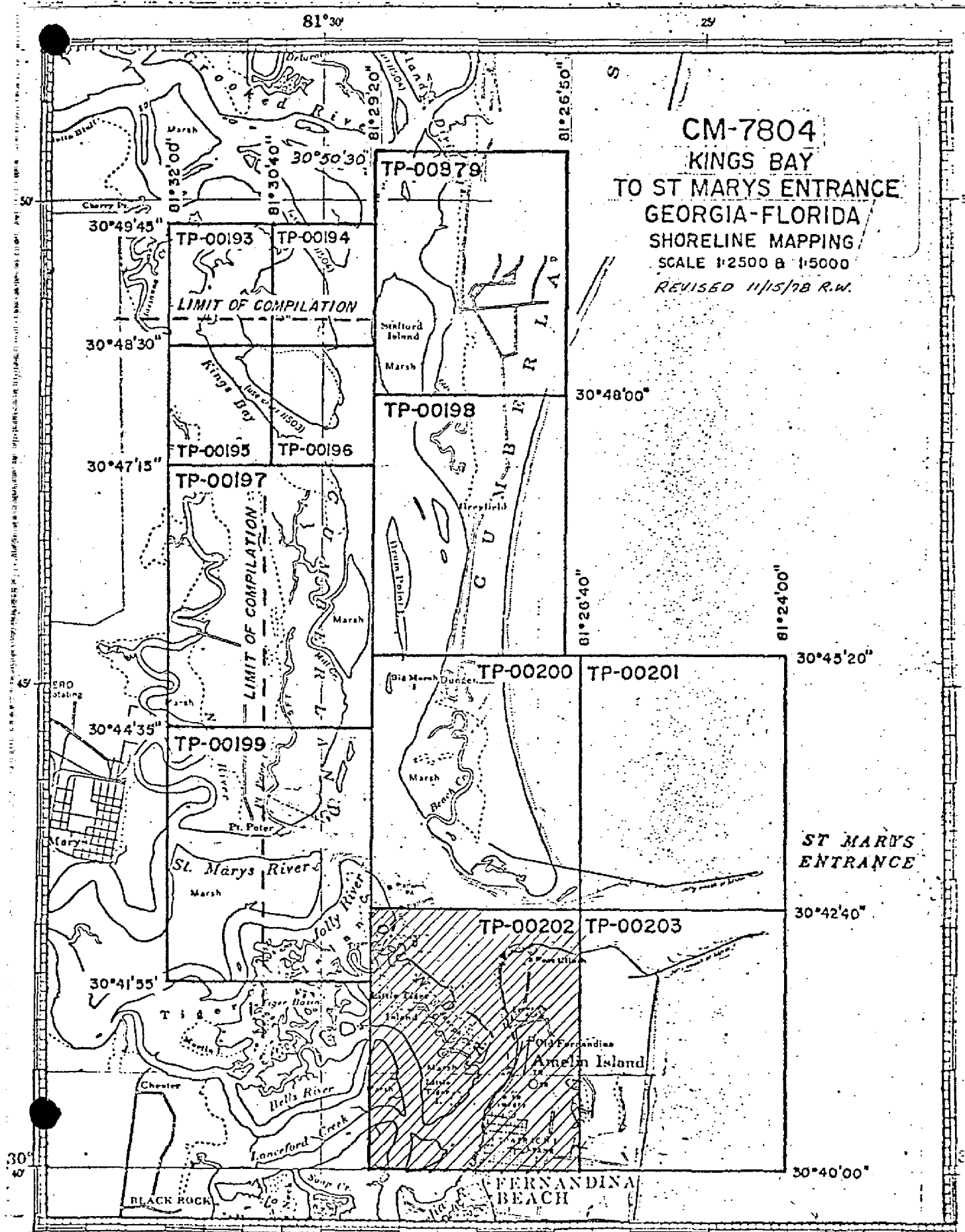
## III. FEDERAL RECORDS CENTER DATA

1. ☐ BRIDGING PHOTOGRAPHS; ☐ DUPLICATE BRIDGING REPORT; ☐ COMPUTER READOUTS.  
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 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)

|                |                                 |                          |   |
|----------------|---------------------------------|--------------------------|---|
| SECOND EDITION | SURVEY NUMBER<br>TP - _____ (2) | JOB NUMBER<br>PH - _____ | TYPE OF SURVEY<br><input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY  |
|                | DATE OF PHOTOGRAPHY             | DATE OF FIELD EDIT       | MAP CLASS<br><input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
| THIRD EDITION  | SURVEY NUMBER<br>TP - _____ (3) | JOB NUMBER<br>PH - _____ | TYPE OF SURVEY<br><input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY  |
|                | DATE OF PHOTOGRAPHY             | DATE OF FIELD EDIT       | MAP CLASS<br><input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
| FOURTH EDITION | SURVEY NUMBER<br>TP - _____ (4) | JOB NUMBER<br>PH - _____ | TYPE OF SURVEY<br><input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY  |
|                | DATE OF PHOTOGRAPHY             | DATE OF FIELD EDIT       | MAP CLASS<br><input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT

TP-00202

This 1:5,000 scale final Class III shoreline map is one of twelve maps that comprise project CM-7804, Kings Bay to St. Marys Entrance, Florida-Georgia. The project consists of four 1:2,500 scale maps, TP-00193 through TP-00196 and eight 1:5,000 scale maps, TP-00197 through TP-00203 and TP-00879.

The purpose of this project is to provide current charting information for nautical chart maintenance and to furnish support data for hydrographic operations.

This Class III map portrays the shoreline at the entrance to Cumberland Sound including Amelia River.

Photo coverage was adequately provided by panchromatic photography taken with the "E" camera in March/April 1978 at scales 1:30,000, 1:15,000 and 1:7,500. This photography was used for aerotriangulation and compilation. Supplemental infrared photography, taken with the "K" camera at scales 1:15,000 and 1:7,500 were exposed at mean low water in tandem with the compilation photographs. All tide-coordinated photographs were based on predicted tide data.

Field work prior to compilation was accomplished in May 1978; this involved the establishment of horizontal control by field photoidentification methods to meet aerotriangulation requirements. Additional field activity in June/July 1978 involved determining geographic positions for hydrographic signal sites and for fixed navigational aids.

Analytic aerotriangulation was adequately provided by the Washington Science Center in July 1978. This included the extension of photo control, ruling the base manuscripts and determining ratio values for the photographs.

Compilation of the original Class III manuscript was accomplished in September 1978 by the Coastal Mapping Unit at the Atlantic Marine Center. Problems concerning delineation of the apparent shoreline are addressed in Item #35 of the Compilation Report. Copies of the unreviewed Class III map were forwarded to Marine Charts and to the hydrographer which had commenced hydrographic activity in the mapping area.

No standard field edit operation was accomplished for this map. However, a field investigation was performed in November 1978 to define questionable features not identifiable from the photographs. This data was utilized only to complement the original office interpretation and was applied in March 1979 as a post photogrammetric function.



TP-00202

Final review was performed at the Atlantic Marine Center in August 1983. A final Chart Maintenance Print was prepared and forwarded to the Marine Chart Branch. Also, a hydrographic print was forwarded to the Hydrographic Surveys Branch.

This Descriptive Report contains all pertinent information used to compile this Final Class III map. The original base manuscript and all related data were forwarded to the Washington Science Center for final registration.

## FIELD INSPECTION

TP-00202

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and photo identification of the horizontal control necessary for the aerotriangulation of the project. Control was determined by the substitute station method.

Additional field activity included determining signal sites for the hydrographer and locating various nonfloating aids.

JOB CM-7804

KINGS BAY TO ST. MARY'S ENTRANCE

GEORGIA - FLORIDA

SHORELINE MAPPING

GENERAL

In accordance with a letter from Richard H. Houlder, Associate Director, Marine Surveys and Maps, dated April 28, 1978, photo identification of Horizontal Control Stations for Aerotriangulation was performed by Photo Party 62.

Recovery of Horizontal Stations were limited to those needed, as indicated on the control requirement diagram. Existing stations were used in each circled area except for area # 1. The stations in the circle could not be recovered, or were destroyed. Station Causeway, U.S.E., 1933 was substituted.

HORIZONTAL CONTROL PHOTO-IDENTIFICATION

The 1978 photographs of Kings Bay to St. Mary's Entrance <sup>were</sup> ~~was~~ excellent and no difficulty was encountered in selection of, and picking of photo-stations in that area.

CIRCLE NO. 1

Three substitute stations were photo-identified on photograph No. 78 E 8773. Station Causeway, U.S.E., 1933 was occupied to locate sub-stations.

CIRCLE NO. 2

Two substitute stations were photo-identified on photograph No. 78 E 8794. Station Amelia Lighthouse, 1905 was occupied to locate sub-stations.

CIRCLE NO. 3

Two substitute stations were photo-identified on photograph No. 78 E 8792. Station Gun, U.S.E., 1954 was occupied to locate sub-stations.

CIRCLE NO. 4

Two substitute stations were photo-identified on photograph No. 78 E 8777. Station Hammock 2, 1954 was occupied to locate sub-stations.

CIRCLE NO. 5

Three substitute stations were photo-identified on photograph No. 78 E 8780. Station Forsaken 2, 1933 was occupied to locate sub-stations.

CIRCLE NO. 6

Three substitute stations were photo-identified on photograph No. 78 E 8786. Station Crooked, 1905 - 1933 was occupied to locate sub-stations.

All Control Station Identification cards, photographs, Recovery Notes, computations, and field data are enclosed.

Respectfully submitted:

*Ronald E. Ledbetter*

Ronald E. Ledbetter

Approved and Forwarded:

*Robert S. Tibbetts*  
Robert S. Tibbetts  
Chief, Photo Party 62

## Photogrammetric Plot Report

CM-7804

Kings Bay to St. Mary Entrance  
Florida-Georgia  
July 1978

21. Area Covered

The area surrounding the entrance to St. Marys River, inland to the community of St. Marys, north Kings Bay and south to Fernandina Beach. The area is covered by eleven manuscripts; Four (4) 1:2,500 (TP-00193 through TP-00196) and seven (7) 1:5,000 (TP-00197 through TP-00203).

22. Method

Two strips of 1:30,000 scale black and white photography were bridged by analytic aerotriangulation methods. Control was field identified. Office control was used as a check.

Tie points were used to ensure adequate junctioning between all bridging strips.

Common points were located on the 1:30,000 scale photography and the 1:7,500 scale photography. Their purpose was to provide control for the latter photography. A block adjustment was used on the 1:7,500 scale photography to ensure that the transferred points provided adequate control for the 1:2,500 scale manuscripts.

Common points were located on the 1:15,000 scale black and white photography for compilation purposed. These points were also used to provide ratio values for the 1:15,000 scale infrared photography which was flown in tandem with the compilation photography.

Ratio values for the 1:7,500 scale infrared photography were derived from pass points on the 1:7,500 scale bridging photography, as the two were flown in tandem.

All strip adjustments were based on Georgia East Zone coordinates.

Ratio prints on the infrared photography have been ordered.

Manuscripts were ruled on the Coradomat.

23. Adequacy of Control

The control provided was adequate and meets the requirements for National Standards of Map Accuracy.

Station Forsaken 2 contained three sub-stations, of which only one was able to be measured accurately. The other two were apparently not located correctly by the field party and were dropped from the adjustment.

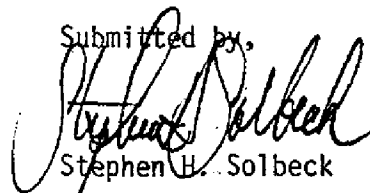
24. Supplemental Data

USGS quads were used to provide vertical control for the strip adjustments. Nautical charts 11502 and 11503 were used to locate Aids and Landmarks.

25. Photography

The coverage, overlap, and quality of the photography were adequate for the job.

Submitted by,



Stephen H. Solbeck

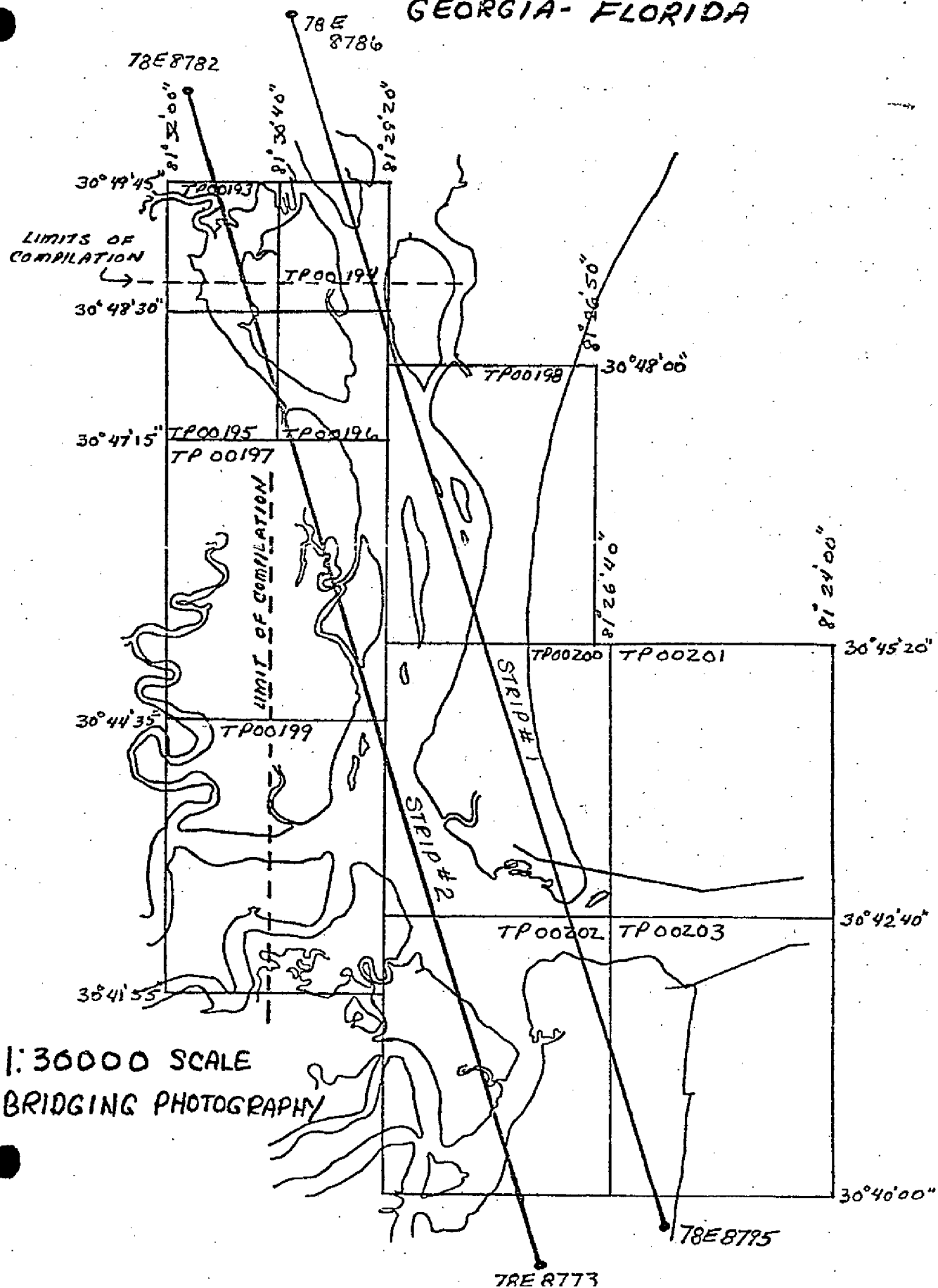
Approved and Forwarded:



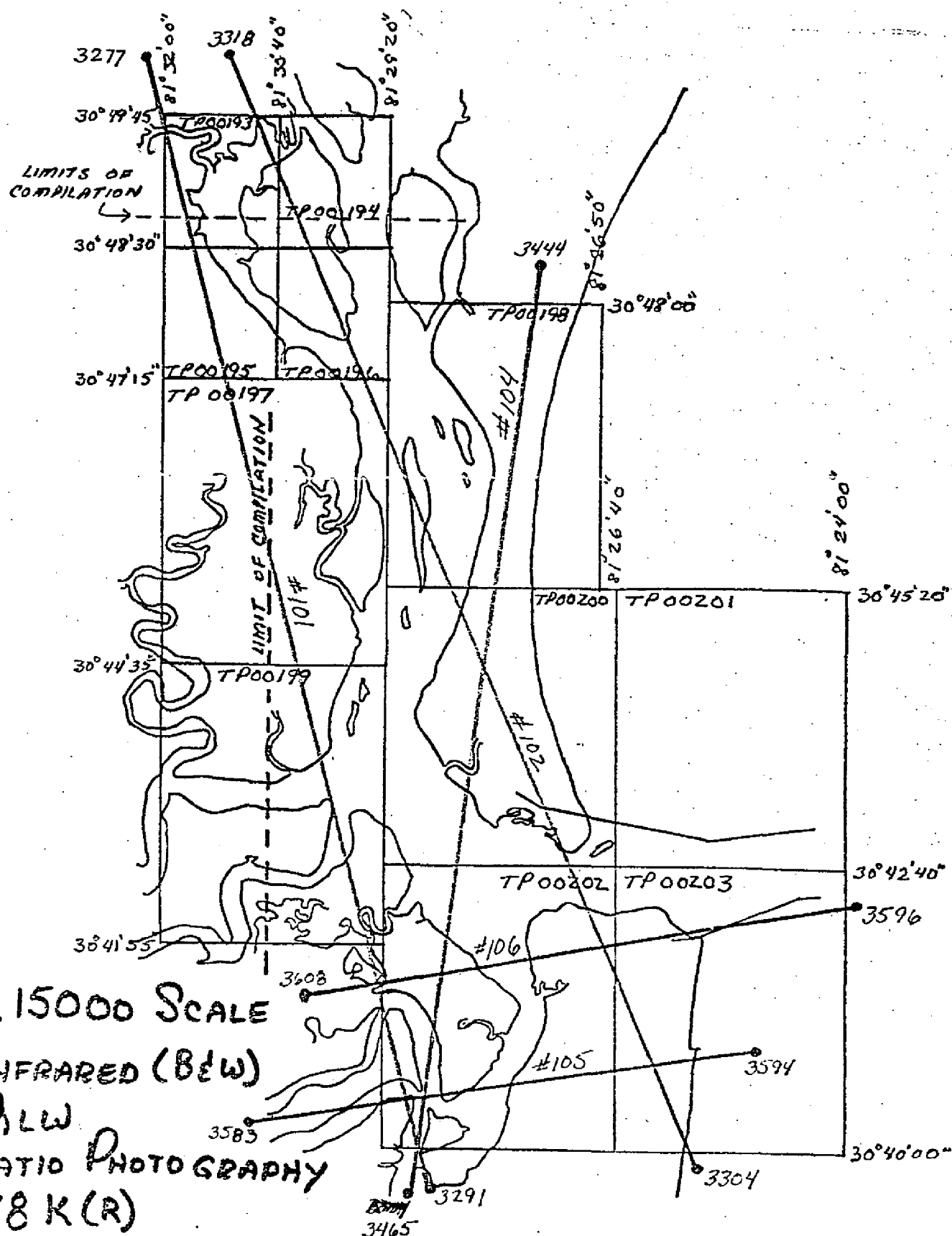
Don O. Norman  
Acting Chief, Aerotriangulation Section



CM 7804 14  
KINGS BAY TO ST MARYS ENTRANCE  
GEORGIA-FLORIDA

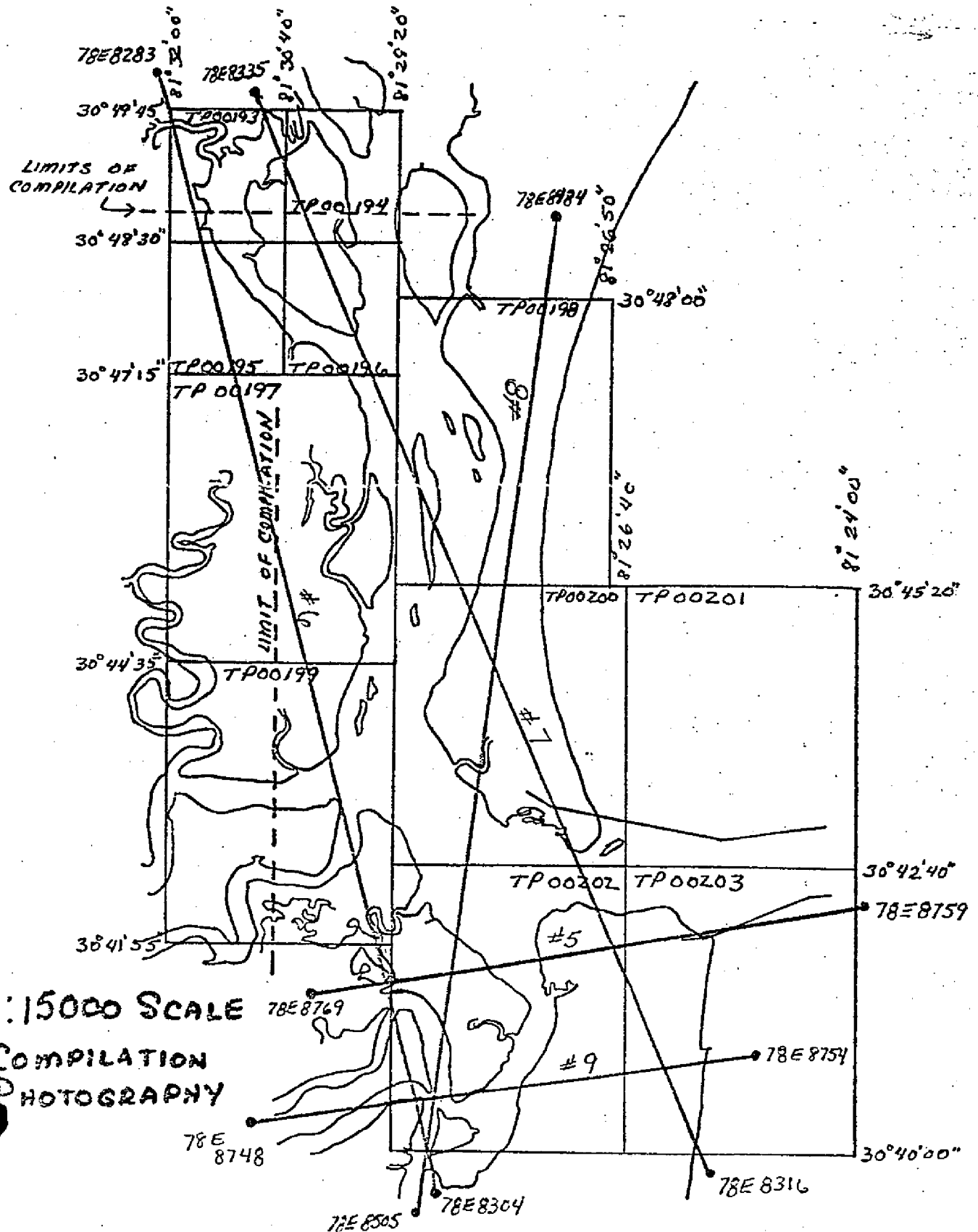


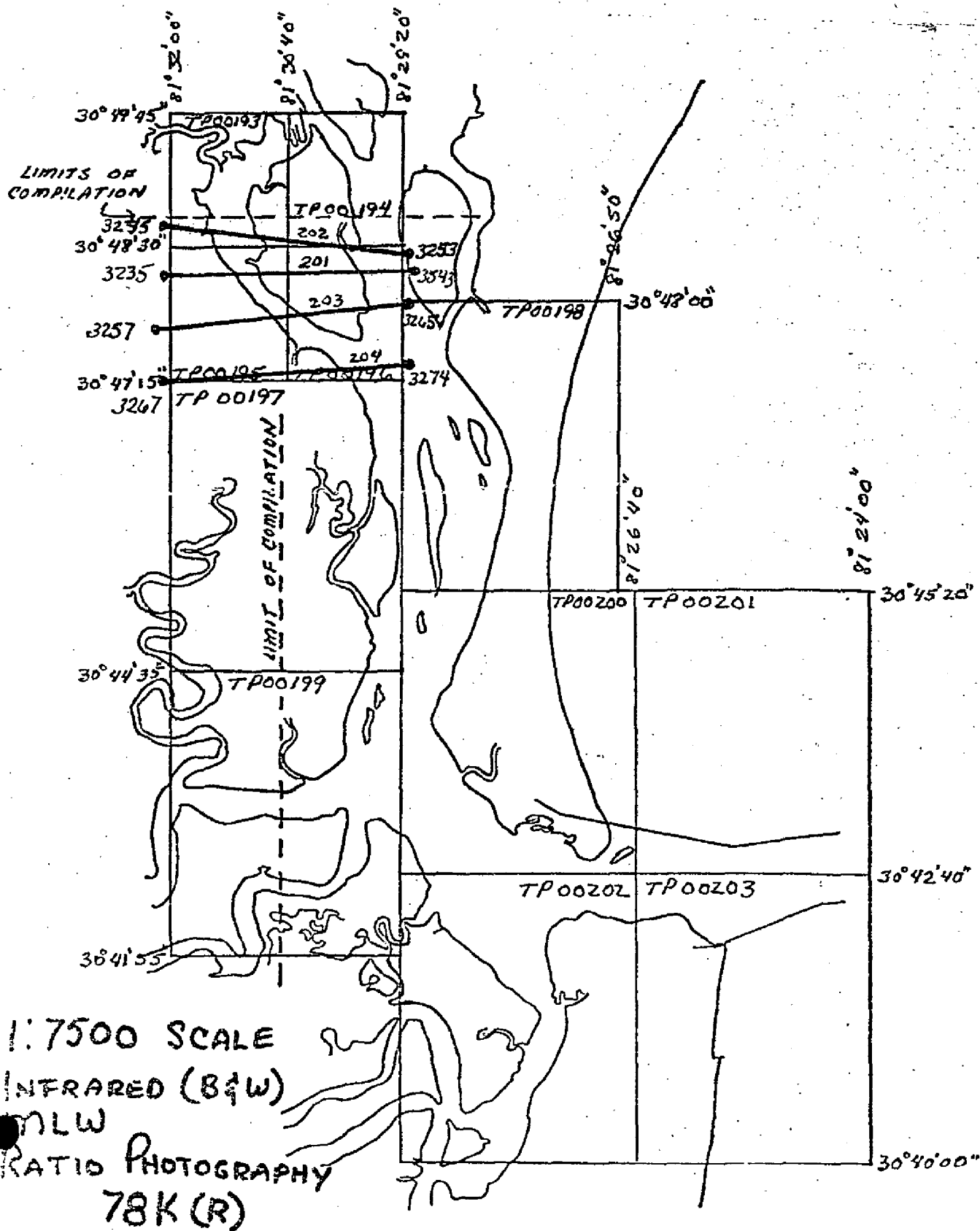
GEORGIA-FLORIDA



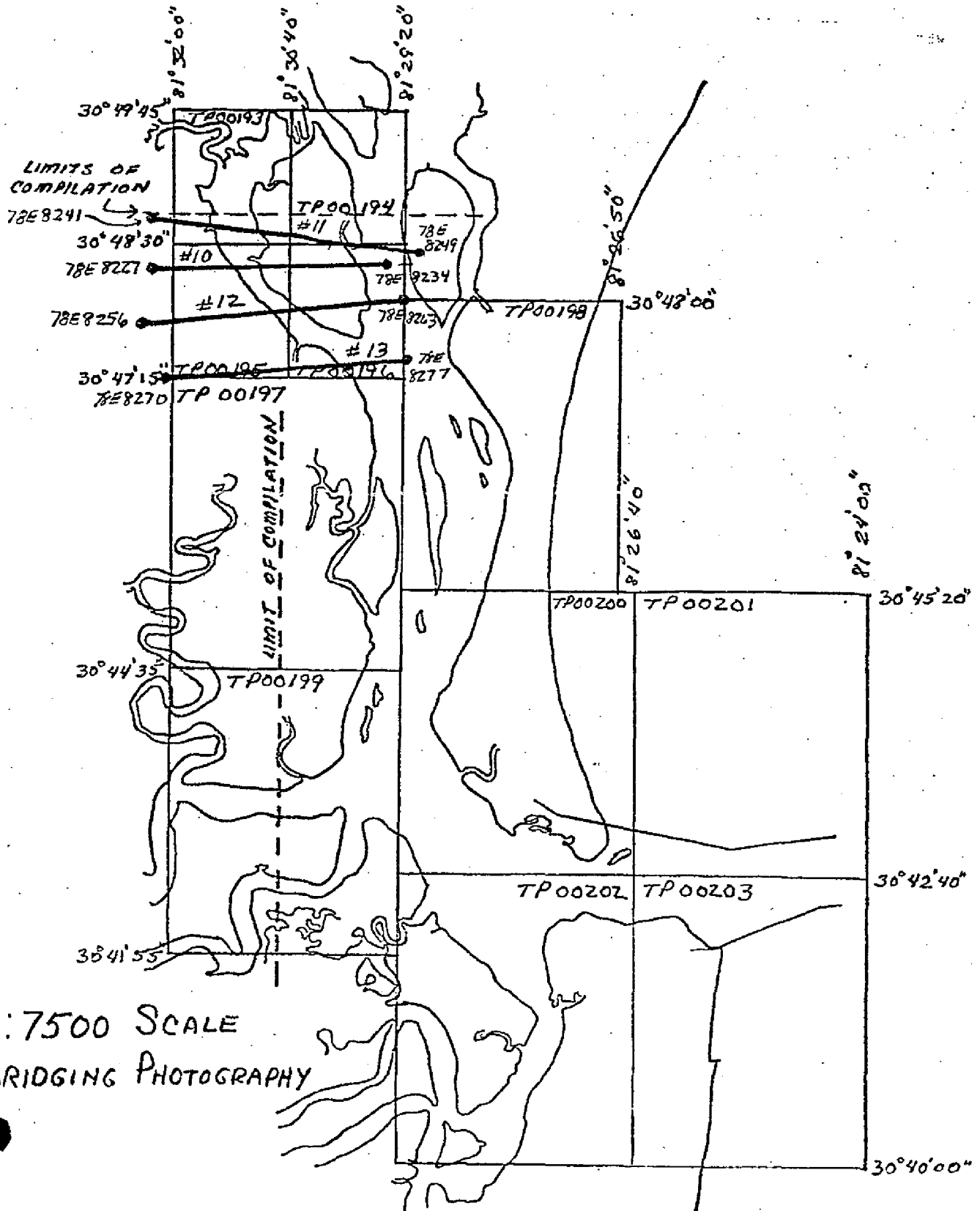


CM 7804 16  
KINGS BAY TO ST MARYS ENTRANCE  
GEORGIA-FLORIDA





CM 7804 18  
KINGS BAY TO ST MARYS ENTRANCE  
GEORGIA-FLORIDA





## DESCRIPTIVE REPORT CONTROL RECORD

| MAP NO.   | JOB NO.                | STATION NAME       | SOURCE OF INFORMATION<br>(Index) | AEROTRI-<br>ANGULATION<br>POINT<br>NUMBER | GEODETIC DATUM |           | COORDINATES IN FEET<br>STATE <u>Georgia</u><br>ZONE <u>East</u> | GEOGRAPHIC POSITION |                         | ORIGINATING ACTIVITY | REMARKS       |
|---|------------------------|--------------------|----------------------------------|---|----------------|-----------|---|---------------------|-------------------------|----------------------|---------------|
|   |                        |                    |                                  |   | CM-7804        | N.A. 1927 |   | $\phi$ LATITUDE     | $\lambda$ LONGITUDE     |                      |               |
| TP-00202  | G.P. VOL I<br>Page 955 | GUN (U.S.E.), 1954 | " "                              | 793100                                    | X=             | Y=        | X=  | Y=                  | $\phi$ 30°42' 19.040" ✓ |                      |               |
|   |                        |                    |                                  |   |                |           |   |                     |                         |                      |               |
| TIG(U.S.E.), 1954   | Pg. 955                | " "                | " "                              | 64  | X=             | Y=        | X=  | Y=                  | $\phi$ 30°41' 56.801" ✓ |                      |               |
|   |                        |                    |                                  |   |                |           |   |                     |                         |                      |               |
| FERNANDINA, AMERICAN<br>CONTAINER CORPORATION,<br>NORTH STACK, 1954 | " "                    | " "                | " "                              | 794141                                    | X=             | Y=        | X=  | Y=                  | $\phi$ 30°40' 55.478" ✓ |                      |               |
|   |                        |                    |                                  |   |                |           |   |                     |                         |                      |               |
| FERNANDINA, NASSAU COUNTY,<br>COURTHOUSE, CUPOLA, 1932              | " "                    | " "                | " "                              | 794140                                    | X=             | Y=        | X=  | Y=                  | $\phi$ 30°40' 14.319" ✓ |                      |               |
|   |                        |                    |                                  |   |                |           |   |                     |                         |                      |               |
| FERNANDINA, MUNICIPAL<br>TANK, 1954                                 | " "                    | " "                | " "                              | 794142                                    | X=             | Y=        | X=  | Y=                  | $\phi$ 30°40' 14.456" ✓ |                      |               |
|   |                        |                    |                                  |   |                |           |   |                     |                         |                      |               |
|   |                        |                    |                                  |   | X=             | Y=        | X=  | Y=                  | $\phi$                  |                      |               |
|   |                        |                    |                                  |   |                |           |   |                     |                         |                      |               |
|   |                        |                    |                                  |   | X=             | Y=        | X=  | Y=                  | $\phi$                  |                      |               |
|   |                        |                    |                                  |   |                |           |   |                     |                         |                      |               |
|   |                        |                    |                                  |   | X=             | Y=        | X=  | Y=                  | $\phi$                  |                      |               |
|   |                        |                    |                                  |   |                |           |   |                     |                         |                      |               |
|   |                        |                    |                                  |   | X=             | Y=        | X=  | Y=                  | $\phi$                  |                      |               |
|   |                        |                    |                                  |   |                |           |   |                     |                         |                      |               |
|   |                        |                    |                                  |   | X=             | Y=        | X=  | Y=                  | $\phi$                  |                      |               |
|   |                        |                    |                                  |   |                |           |   |                     |                         |                      |               |
|   |                        |                    |                                  |   | X=             | Y=        | X=  | Y=                  | $\phi$                  |                      |               |
|   |                        |                    |                                  |   |                |           |   |                     |                         |                      |               |
|   |                        |                    |                                  |   | X=             | Y=        | X=  | Y=                  | $\phi$                  |                      |               |
|   |                        |                    |                                  |   |                |           |   |                     |                         |                      |               |
| COMPUTED BY   | A. C. Rauck, Jr.       |                    |                                  |   | X=             | Y=        | X=  | Y=                  | $\phi$                  |                      |               |
|   |                        |                    |                                  |   |                |           |   |                     |                         |                      |               |
| LISTED BY   | A. C. Rauck, Jr.       |                    |                                  | DATE                                      | 7/5/78         |           | COMPUTATION CHECKED BY  | J. Moler            |                         | DATE                 | July 11, 1978 |
|   |                        |                    |                                  |   |                |           |   |                     |                         |                      |               |
| HAND PLOTTING BY  | A. C. Rauck, Jr.       |                    |                                  | DATE                                      | 7/3/78         |           | LISTING CHECKED BY  | J. Moler            |                         | DATE                 | July 11, 1978 |
|   |                        |                    |                                  |   |                |           |   |                     |                         |                      |               |
| HAND PLOTTING BY  |                        |                    |                                  | DATE                                      |                |           | HAND PLOTTING CHECKED BY  |                     |                         | DATE                 |               |
|   |                        |                    |                                  |   |                |           |   |                     |                         |                      |               |

## COMPILATION REPORT

TP-00202

31. DELINEATION:

Delineation was accomplished using stereo instrument and graphic compilation methods. Instrument compilation was used to delineate shoreline, alongshore and interior detail based upon office interpretation of the 1:15,000 scale panchromatic compilation photographs. Tide coordinated MLW infrared photographs, taken in tandem with the compilation photography, were used to graphically compile the approximate mean low-water line. Control for graphic delineation was provided by the instrument compilation of coastal detail and common image points.

All photographs used to compile this map are listed on NOAA form 76-36B. Photo coverage and quality was adequate.

32. CONTROL:

The horizontal control was adequate. Refer to the Photogrammetric Plot Report dated July 1978.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours are not applicable to the project. Drainage was compiled by office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

Shoreline and alongshore details were primarily compiled as described in Item #31. However, difficulty was encountered in delineating the apparent mean high water line as portions of the shoreline and foreshore appears as a continuous marsh grass that is partially covered at mean high water. In most cases a distinct line of demarcation could not be determined through this vegetation, making photo interpretation questionable. Subsequently, vertical instrument measurements were used to assist in interpreting the apparent shoreline. Infrared tide coordinated mean high water photography was not provided.

Graphic delineation of the mean low water line was compiled as described in Item #31 by the ratio infrared MLW photographs provided by aerotriangulation.

TP-00202

36. OFFSHORE DETAILS:

No unusual problems.

37. LANDMARKS AND AIDS:

There are six charted landmarks, five charted aids, and two charted markers within the limits of this manuscript.

Five of the landmarks are plotted, while one could not be seen. Two of the aids were plotted from geographic positions by intersection triangulation provided by Photo Party No. 62. Three aids could be seen on the photography and were plotted. Only one of the markers could be seen and was plotted.

38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS:

See form 76-36B, item 5 of the Descriptive Report.

40. HORIZONTAL AND VERTICAL ACCURACY:

See item #32.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with the following U.S.G.S. quadrangle: Fernandina Beach. FL-GA, 1:24,000 scale, 1958, photorevised 1970.

47. COMPARISON WITH NAUTICAL CHARTS:

11503, scale 1:20,000, 29th edition, July 9, 1977.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None

ITEMS TO BE CARRIED FORWARD:

None

Submitted by:  
*Joanne Roderick*  
Joanne Roderick  
Cartographer  
Sept. 1, 1978

Approved:  
*Albert C. Rauck, Jr.*  
Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

ADDENDUM TO THE COMPILATION REPORT

TP-00202

Field information provided in November 1978 was applied according to the field discrepancy print submitted. This data primarily included identification of features that were questionable through photo interpretation. This data is not sufficient to reclassify the map as the shoreline was not field verified.



## REVIEW REPORT TP-00202

## SHORELINE

61. GENERAL STATEMENT:

Refer to the Summary included in this Descriptive Report for a general analysis of all activities.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. quadrangle Fernandina Beach, FL-GA, 1:24,000 scale, dated 1958, photorevised 1970.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with a copy of smoothsheets H-9800, 1:5,000 scale, verified February 1980 and H-9806, 1:5,000 scale, verified January 1980. Shoreline and alongshore detail was transferred from the original Class III compilation to both hydrographic surveys. No major discrepancies were observed during this comparison.

No contemporary hydrographic survey was accomplished south of Lat. 30° 42.0'.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following NOS charts:  
11503, 1:20,000 scale, 31st. edition, April 30, 1983  
11489, 1:40,000 scale, 20th. edition, Oct. 16, 1982

A comparison indicates that this final Class III map has been applied to chart 11503. The landmarks and navigational aids have been significantly revised since the original compilation and corresponding 1978 charts.

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:

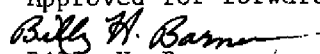
*Jerry L. Hancock*  
Jerry L. Hancock  
Final Reviewer



## REVIEW REPORT TP-00202

## SHORELINE

Approved for forwarding:



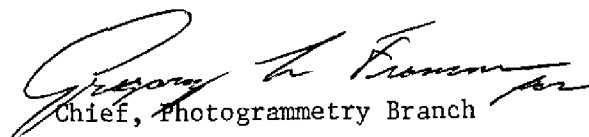
Billy H. Barnes

Chief, Photogrammetric Section, AMC

Approved:



Chief, Photogrammetric Section, Rockville,



Chief, Photogrammetry Branch

GEOGRAPHIC NAMES

FINAL NAME SHEET

,CM-7804 (Kings Bay to St. Marys Entrance, FL.-GA.)

TP-00202

Amelia Island

Amelia River

Bells River

Cumberland Sound

Egans Creek

Fernandina Beach (Ppl)

Fort Clinch

Fort Clinch State Park

Lanceford Creek

Little Tiger Island

Old Fernandina

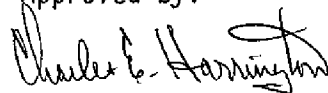
St. Joseph Creek

St. Marys Entrance

Tiger Creek

Tiger Island

Approved by:



Charles E. Harrington  
Chief Geographer, N/CG2x

[illegible]

| RESPONSIBLE PERSONNEL  |  |
|--|--|
| TYPE OF ACTION   | NAME   |
| OBJECTS INSPECTED FROM SEAWARD   |  |
| POSITIONS DETERMINED AND/OR VERIFIED   | <input type="checkbox"/> PHOTO FIELD PARTY<br><input type="checkbox"/> HYDROGRAPHIC PARTY<br><input type="checkbox"/> GEODETIC PARTY<br><input type="checkbox"/> OTHER (Specify)   |
| FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW  | FIELD ACTIVITY REPRESENTATIVE<br>OFFICE ACTIVITY REPRESENTATIVE  |
| ACTIVITIES   | <input type="checkbox"/> REVIEWER<br><input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE  |
| INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'   |  |
| (Consult Photogrammetric Instructions No. 64.)   |  |
| <b>OFFICE</b><br><b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b><br>Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object.<br>EXAMPLE: 75E(C)6042<br>8-12-75   | <b>FIELD (Cont'd)</b><br><b>B. Photogrammetric field positions*</b> require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object.<br>EXAMPLE: P-8-V<br>8-12-75<br>74L(C)2982                   |
| <b>FIELD</b><br><b>I. NEW POSITION DETERMINED OR VERIFIED</b><br>Enter the applicable data by symbols as follows:<br>F - Field<br>L - Located<br>V - Verified<br>1 - Triangulation<br>2 - Traverse<br>3 - Intersection<br>4 - Resection<br>5 - Field identified<br>6 - Theodolite<br>7 - Planetable<br>8 - Sextant<br>A. Field positions* require entry of method of location and date of field work.<br>EXAMPLE: F-2-6-L<br>8-12-75 | <b>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b><br>When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery.<br>EXAMPLE: Triang. Rec.<br>8-12-75<br>Enter 'V-Vis.' and date.<br>EXAMPLE: V-Vis.<br>8-12-75 |
| *FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.<br>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.   |  |

[illegible]

| RESPONSIBLE PERSONNEL   |   |
|---|---|
| TYPE OF ACTION  | NAME  |
| OBJECTS INSPECTED FROM SEAWARD  | <input type="checkbox"/> PHOTO FIELD PARTY<br><input type="checkbox"/> HYDROGRAPHIC PARTY<br><input type="checkbox"/> GEODETIC PARTY<br><input type="checkbox"/> OTHER (Specify)  |
| POSITIONS DETERMINED AND/OR VERIFIED  | FIELD ACTIVITY REPRESENTATIVE   |
| FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW   | OFFICE ACTIVITY REPRESENTATIVE  |
| ACTIVITIES  | <input type="checkbox"/> REVIEWER<br><input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE   |
| INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'  |   |
| (Consult Photogrammetric Instructions No. 64,   |   |
| <b>OFFICE</b><br><b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b><br>Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object.<br>EXAMPLE: 75E(C)6042<br>8-12-75  | <b>FIELD (Cont'd).</b><br><b>B. Photogrammetric field positions*</b> require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object.<br>EXAMPLE: P-8-V<br>8-12-75<br>74L(C)2982 |
| <b>FIELD</b><br><b>I. NEW POSITION DETERMINED OR VERIFIED</b><br>Enter the applicable data by symbols as follows:<br>F - Field<br>L - Located<br>V - Verified<br>1 - Triangulation<br>2 - Traverse<br>3 - Intersection<br>4 - Resection<br>P - Photogrammetric<br>Vis - Visually<br>5 - Field Identified<br>6 - Theodolite<br>7 - Planetable<br>8 - Sextant<br>A. Field positions* require entry of method of location and date of field work.<br>EXAMPLE: F-2-6-L<br>8-12-75 | <b>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b><br>Enter 'V-Vis.' and date.<br>EXAMPLE: V-Vis.<br>8-12-75<br><b>**PHOTOGRAMMETRIC FIELD POSITIONS</b> are dependent entirely, or in part, upon control established by photogrammetric methods.         |
| *FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.  |   |

| NOAA FORM 76-40<br>(8-74)   |  |   |                      | U.S. DEPARTMENT OF COMMERCE<br>NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION |                   |                              |                      | ORIGINATING ACTIVITY  |   |  |  |
|---|--|---|----------------------|--|-------------------|------------------------------|----------------------|---|---|--|--|
| Replaces C&GS Form 567.   |  |   |                      | NONFLOATING AIDS OR LANDMARKS FOR CHARTS                                       |                   |                              |                      | <input type="checkbox"/> HYDROGRAPHIC PARTY<br><input type="checkbox"/> GEODETIC PARTY<br><input type="checkbox"/> PHOTO FIELD PARTY<br><input checked="" type="checkbox"/> COMPILATION ACTIVITY<br><input type="checkbox"/> FINAL REVIEWER<br><input type="checkbox"/> QUALITY CONTROL & REVIEW GRP.<br><input type="checkbox"/> COAST PILOT BRANCH<br>(See reverse for responsible personnel) |   |  |  |
| <input checked="" type="checkbox"/> TO BE CHARTED<br><input type="checkbox"/> TO BE REVISED<br><input type="checkbox"/> TO BE DELETED |  | REPORTING UNIT<br>(Field Party, Ship or Office)<br>Coastal Mapping Div.<br>AMC, Norfolk, Va | STATE<br>FL          | LOCALITY<br>Kings Bay to St. Marys<br>Entrance                                 | DATE<br>Sept 1978 |                              |                      |   |   |  |  |
| The following objects HAVE <input checked="" type="checkbox"/> BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.     |  | JOB NUMBER<br>CM-7804   |                      | SURVEY NUMBER<br>TP-002020   |                   | DATUM<br>NA 1927             |                      |   | METHOD AND DATE OF LOCATION<br>(See instructions on reverse side) |  |  |
| CHARTING<br>NAME  | DESCRIPTION<br>(Record reason for deletion of landmark or aid to navigation.<br>Show triangulation station names, where applicable, in parentheses.) | POSITION  |                      |  |                   | OFFICE                       | FIELD                | CHARTS<br>AFFECTED  |   |  |  |
|   |  | LATITUDE<br>° / ' "   | LONGITUDE<br>° / ' " | D.M. Meters  | D.P. Meters       |                              |                      |   |   |  |  |
| Marker  | Currently (31 st. edition) charted as an obstr.  | 30 42.5   | 81 27.9              |  |                   | Not Vis                      | Not vis<br>Nov. 1978 | 11503<br>(29th Ed.)   |   |  |  |
| Light   | *St. Marys Entrance Range<br>Front Light   | 30 42   | 81 27                | 27.017   | 54.269            | 78K(I) 3459<br>Mar. 24, 1978 | F-3-6-L<br>July 1978 | "   |   |  |  |
| Light   | *St. Marys Entrance Range<br>Rear Light  | 30 42   | 81 29                | 24.557   | 06.920            | "                            | "                    | "   |   |  |  |
| Light   | Amelia River Light 19  | 30 41   | 81 27                | 17.83<br>549   | 31.82<br>847      | 78K(I) 3589<br>Apr. 2, 1978  | V-Vis<br>Nov. 1978   | "   |   |  |  |
| Light   | *Amelia River Light 20   | 30 41   | 81 27                | 16.50<br>508   | 40.61<br>1081     | "                            | "                    | "   |   |  |  |
| Light   | Amelia River Light 24  | 30 40   | 81 28                | 11.79<br>363   | 06.95<br>185      | "                            | "                    | "   |   |  |  |
| Marker  |  | 30 42   | 81 28                | 27.08<br>834   | 39.08<br>1040     | 78K(I) 3459<br>Mar. 24, 1978 | Not verified         | "   |   |  |  |
|   | *These positions are no longer current<br>have been physically relocated and<br>recharted since 1978 photography.                                    |   |                      |  |                   |                              |                      |   |   |  |  |
|   |  |   |                      |  |                   |                              |                      |   |   |  |  |
|   |  |   |                      |  |                   |                              |                      |   |   |  |  |

| RESPONSIBLE PERSONNEL  |  |
|--|--|
| TYPE OF ACTION   | NAME   |
| OBJECTS INSPECTED FROM SEAWARD   | <input type="checkbox"/> PHOTO FIELD PARTY<br><input type="checkbox"/> HYDROGRAPHIC PARTY<br><input type="checkbox"/> GEODETIC PARTY<br><input type="checkbox"/> OTHER (Specify)   |
| POSITIONS DETERMINED AND/OR VERIFIED   | FIELD ACTIVITY REPRESENTATIVE  |
| FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES   | OFFICE ACTIVITY REPRESENTATIVE<br><br><input type="checkbox"/> REVIEWER<br><input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE  |
| INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE OF LOCATION*<br>(Consult Photogrammetric Instructions No. 64.)  |  |
| <b>OFFICE</b><br><b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b><br>Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object.<br>EXAMPLE: 75E(C)6042<br>8-12-75   | <b>FIELD (Cont'd)</b><br><b>B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object.</b><br>EXAMPLE: P-8-V<br>8-12-75<br>74L(C)2982  |
| <b>FIELD</b><br><b>I. NEW POSITION DETERMINED OR VERIFIED</b><br>Enter the applicable data by symbols as follows:<br>F - Field<br>L - Located<br>V - Verified<br>1 - Triangulation<br>2 - Traverse<br>3 - Intersection<br>4 - Resection<br>5 - Field identified<br>6 - Theodolite<br>7 - Planetable<br>8 - Sextant<br>A. Field positions* require entry of method of location and date of field work.<br>EXAMPLE: F-2-6-L<br>8-12-75 | <b>II. TRIANGULATION STATION RECOVERED</b><br>When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery.<br>EXAMPLE: Triang. Rec.<br>8-12-75<br><br><b>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b><br>Enter 'V-Vis.' and date.<br>EXAMPLE: V-Vis.<br>8-12-75 |
| <b>**FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.</b><br><b>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</b>  |  |



