NOAA FORM 76–35  
(6–80)  
U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY  

DESCRIPTIVE REPORT  

THIS MAP EDITION WILL NOT BE FIELD EDITED  

**Map No.**  
TP-01236  
**Edition No.**  
1  

**Job No.**  
CM-8303  

**Map Classification**  
III (FINAL)  

**Type of Survey**  
SHORELINE MANUSCRIPT  

**LOCALITY**  

**State**  
SOUTH CAROLINA  

**General Locality**  
LITTLE RIVER INLET TO BULLS BAY  

**Locality**  
MURRELLS INLET  

19 84 TO 19  

REGISTERED IN ARCHIVES  

DATE  

## Descriptive Report - Data Record

**Photogrammetric Office**
Coastal Mapping Unit, Norfolk, VA

**Officer-in-Charge**
C. Dale North, Jr., CDR

### 1. Instructions Dated

<table>
<thead>
<tr>
<th>Office</th>
<th>Field</th>
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<tbody>
<tr>
<td>Aerotriangulation - None</td>
<td>Control - November 22, 1988</td>
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<td>Compilation - November 8, 1988</td>
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### 2. Datums

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<td>1927 North American</td>
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<td>Mean High-Water</td>
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<tr>
<td>Mean Low-Water</td>
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<tr>
<td>Mean Lower Low-Water</td>
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<tr>
<td>Mean Sea Level</td>
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### 3. Map Projection

Lambert Conformal Conic Projection

### 4. Grid(s)

- State: South Carolina
- Zone: South

### 5. Scale

1:20,000

## III. History of Office Operations

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<tr>
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<td>1. Aerotriangulation</td>
<td>B. Thornton</td>
<td>Oct 1987</td>
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<tr>
<td>Method: Analytic</td>
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<td>Landmarks and Aids by:</td>
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<td>2. Control and Bridge Points</td>
<td>B. Thornton</td>
<td>Oct 1987</td>
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<tr>
<td>Method: Kongsberg Plotter</td>
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<td>C. Blood</td>
<td>Jan 1989</td>
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<td>Application of Field Edit Data by:</td>
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<td>Checked by:</td>
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<td>8. Data Forwarded to Photogrammetric Branch by:</td>
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<td>Checked by:</td>
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<td>9. Data Examined in Photogrammetric Branch by:</td>
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<td>10. Map Registered - Coastal Survey Section by:</td>
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<td>11. U.S. G.P.O. 1972-769382/582 REG. #6</td>
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NOAA FORM 76-36A
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

SUPERSEDES FORM 48S 101 SERIES

*NOAA FORM 76-36A : U.S. G.P.O. 1972-769382/582 REG. #6*
1. COMPILATION PHOTOGRAPHY

CAMERA(S)
RC10(Z) 2 = 153.15

TIDE STAGE REFERENCE
☑ PREDICTED TIDES
☑ REFERENCE STATION RECORDS
☑ TIDE CONTROLLED PHOTOGRAPHY

TYPES OF PHOTOGRAPHY
(C) COLOR
(P) PANCHROMATIC
(R) IR INFRARED

TIME REFERENCE
☑ Eastern
☑ Standard
☑ Meridian
75°

<table>
<thead>
<tr>
<th>NUMBER AND TYPE</th>
<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tr>
<td>*842(P)1442-1447</td>
<td>2-24-84</td>
<td>10:48</td>
<td>1:40,000</td>
<td>2.1 above MLLW</td>
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<td>*842(P)1387-1393</td>
<td>2-24-84</td>
<td>10:10</td>
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<td>*842(P)0906-0908</td>
<td>2-15-84</td>
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<td>*848(R)9041-9042</td>
<td>3-21-84</td>
<td>11:18</td>
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<td>11:49</td>
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<td>0.56 below MHW</td>
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<td>**848(R)1654,56,58</td>
<td>3-02-84</td>
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<td>**842(R)1290-1292</td>
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Mean Tide Range - 5.1 ft.

REMARKS
* Compilation/bridging photographs based on predicted tide data.
* Tide coordinated MHW and MLLW photographs based on actual tide data and are referenced to the tide station at Springmaid Pier, Myrtle Beach, South Carolina.

2. SOURCE OF MEAN HIGH-WATER LINE:

The Mean High Water line was compiled from office interpretation of the above listed compilation/bridging photographs using stereo instrument methods. The black and white infrared contact photographs were used to assist in the interpretation of the mean high water line.

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

The Mean Lower Low Water line was compiled graphically from the above listed black and white infrared ratio photographs.

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>
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5. FINAL JUNCTIONS

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<tr>
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<th>EAST</th>
<th>SOUTH</th>
<th>WEST</th>
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<td>TP-01235 &amp; TP-01238</td>
<td>TP-01240</td>
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REMARKS
HISTORY OF FIELD OPERATIONS

I. ☑ FIELD INSPECTION OPERATION  ☐ FIELD EDIT OPERATION

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<th>OPERATION</th>
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<td>1. CHIEF OF FIELD PARTY</td>
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<td>2. HORIZONTAL CONTROL</td>
<td>P. Walbolt</td>
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<td>3. VERTICAL CONTROL</td>
<td>P. Walbolt</td>
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<td>4. LANDMARKS AND AIDS TO NAVIGATION</td>
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<td>5. GEOGRAPHIC NAMES</td>
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<td>NO INVESTIGATION</td>
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<td>6. PHOTO INSPECTION</td>
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<td>CLARIFICATION OF DETAILS</td>
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<td>7. BOUNDARIES AND LIMITS</td>
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II. SOURCE DATA

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

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

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5. GEOGRAPHIC NAMES:

6. BOUNDARY AND LIMITS:

7. SUPPLEMENTAL MAPS AND PLANS

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list date submitted to the Geodesy Division)
## RECORD OF SURVEY USE

### I. MANUSCRIPT COPIES

<table>
<thead>
<tr>
<th>COMPILATION STAGES</th>
<th>DATE</th>
<th>REMARKS</th>
<th>MARINE CHARTS</th>
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### II. LANDMARKS AND AIDS TO NAVIGATION

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

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<tr>
<td>2</td>
<td></td>
<td>Dec 1987</td>
<td>Cartographic Features of Charting Interest.</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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<tbody>
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<td>RESURVEY</td>
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SUMMARY TO ACCOMPANY
DESCRIPTION REPORT

TP-01236

This 1:20,000 scale map is one of fifteen maps in project CM-8303, which extends from Little River Inlet to Bulls Bay, South Carolina. The project extends from latitude 32° 59' 00" north to latitude 33° 56' 00" and longitude 78° 30' 00" west to longitude 79° 40' 00".

Field work prior to compilation was accomplished during January and February 1984. It consisted of premarking horizontal control stations to satisfy aerotriangulation requirements.

Photographic coverage was provided in February 1984 using panchromatic film with the "Z" camera (focal length 153.15 millimeters). Black and white infrared photography was acquired in February and March 1984 using the "Z" camera and "B" camera (focal length 152.74 millimeters).

Analytic aerotriangulation was performed at the Washington Science Center in October 1987.

Compilation was performed at the Atlantic Marine Center in January 1989 by office interpretation of the panchromatic and the black and white infrared mean high water and mean lower low water photography.

Final Review was accomplished at the Atlantic Marine Center in August 1989. A Chart Maintenance Print for the Marine Chart Branch and Notes to the Hydrographer Print for the Hydrographic Branch were prepared and forwarded to the Washington Science Center for registration.

This map is to be registered as a Class III, Final Map. The original base manuscript and all pertinent data were forwarded to the Washington Science Center for final registration.
21. AREA COVERED

This shoreline mapping project covers the area from Little River Inlet down to Bulls Bay, South Carolina. There are ten sheets at 1:20,000 scale and five sheets at 1:10,000 scale. The sheets are numbered consecutively TP-01231 to TP-01245.

22. METHOD

This project, which consists of five strips of 1:40,000-scale panchromatic photographs: 84Z(P) 889 to 908, 84Z(P) 1421 to 1451, 84Z(P) 1387 to 1405, 84Z(P) 1051 to 1067, 84Z(P) 1192 to 1201, was bridged by analytical aerotriangulation methods and adjusted to ground as a block with the General Intergrated Analytical Triangulation Program (GIANT), using premarked paneled control. Office identified intersection stations were used as checks.

Two strips of 1:30,000-scale photographs: 84Z(P) 1216 to 1224, 84Z(P) 1229 to 1240, were pugged with compilation points for use in compiling the 1:10,000-scale sheets in the project.

Tie points were used to ensure adequate junctions of all strips and were used as supplemental control.

Ratio values were determined for the bridging photographs and the tide-coordinated black-and-white infrared photographs. A copy of the ratio values is included in this report.

Base manuscripts were plotted on the Kongsberg plotter in the South Carolina State Plane Coordinate System (South Zone). This is based on the Lambert conformal conic projection. The datum is NAD 27. Two each of the fifteen base manuscripts have been ruled as per Aerotriangulation Instructions.

23. ADEQUACY OF CONTROL

The control for this project is adequate. A listing of closures to control is attached. The project meets NOS requirements for horizontal accuracy.

24. SUPPLEMENTAL DATA

USGS topographic quadrangles were used to obtain vertical control for bridging.
25. PHOTOGRAPHY

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

Submitted by,

Brian Thornton

Approved and Forwarded:

Don O. Norman
Chief, Aerotriangulation Unit
**FIT TO CONTROL**

**ALL POINTS HELD IN ADJUSTMENT**

<table>
<thead>
<tr>
<th>Station Name</th>
<th>Point No.</th>
<th>Values in Feet</th>
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<tr>
<td>Sauce Rm4, 1934 Sub Pt.A</td>
<td>889101</td>
<td>+0.1</td>
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<td>Fire, 1934 Sub Pt.A</td>
<td>897101</td>
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<tr>
<td>Myrtle Beach Radio</td>
<td>903100</td>
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<td>Sta. WYMB Mast, 1962</td>
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<td>+0.7</td>
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<tr>
<td>Enterprise, 1934 Sub Pt.A</td>
<td>908101</td>
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<td>H3-SC-79 Sub Pt.</td>
<td>440101</td>
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<td>Inlet, 1934 Sub Pt.A</td>
<td>63101</td>
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<td>Wood, (USE) 1934 Sub Pt.A</td>
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<td>Wedge, 1934 Sub Pt.A</td>
<td>430101</td>
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<td>McClellan Rm. 5, 1965 Sub Pt.A</td>
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<td>Mitchell 2, 1976 Sub Pt.A</td>
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<td>Reive, 1934 Sub Pt.A</td>
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<td>Campfield 2, 1965 Sub Pt.A</td>
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<td>Dyke, 1934 Sub Pt.A</td>
<td>192101</td>
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<td>Devil, 1934</td>
<td>201100</td>
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<tr>
<td>Little River, 1932 Sub Pt.B</td>
<td>895102</td>
<td>-0.2</td>
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RATIO VALUES

1:40,000-scale bridging photographs:

84Z(P) 889 to 908  Ratio 2.047
1387 to 1405  Ratio 2.027
1421 to 1451  Ratio 2.019
1051 to 1067  Ratio 2.048
1192 to 1201  Ratio 2.049

1:40,000-scale non bridging photographs:

84Z(P) 1175 to 1185  Ratio 2.046

1:30,000-scale MHW infrared photographs:

84B(R) 9166 to 9183  Ratio 3.000

1:40,000-scale MHW infrared photographs:

84B(R) 9145 to 9164  Ratio 1.976
84B(R) 9145 to 9155 (1:10,000)  Ratio 3.952
84B(R) 9048 to 9084  Ratio 1.990
84Z(R) 1651 to 1666  Ratio 2.024
84Z(R) 1668 to 1674  Ratio 2.022
84B(R) 9096 to 9106  Ratio 1.972
84B(R) 9199 to 9210  Ratio 2.005
84B(R) 9185 to 9197  Ratio 2.004
FRAME 84B(R) 9195  Ratio 2.580

1:30,000-scale MLLW infrared photographs:

84Z(R) 1587 to 1603  Ratio 2.966

1:40,000-scale MLLW infrared photographs:

84Z(R) 1262 to 1282  Ratio 2.031
1262 to 1273 (1:10,000)  4.062
84Z(R) 1284 to 1302  Ratio 2.038
84B(R) 9086 to 9094  Ratio 2.049
84Z(R) 1638 to 1649  Ratio 2.009
84Z(R) 1304 to 1322  Ratio 2.040
84Z(R) 1605 to 1617  Ratio 2.010
84Z(R) 1324 to 1341  Ratio 2.042
JOB CM-8303
LITTLE RIVER INLET TO BULLS BAY
SOUTH CAROLINA
SHORELINE MAPPING
PROJECT AREA
1) SENSE 1934 RM 4
2) FIRE 1934
3) MYRTLE BEACH RAD STA WYMB MAST 1962
4) ENTERPRISE 1934
5) PAYTON 1932
6) NS SC 79
7) INLET 1934
8) Wood (USE) 1934
9) Wedge 1934
10) McClellanville RM 5 1965
11) Mitchell 2 1976
12) Little River 1932
13) REIVE 1934
14) Campfield 2 1965
15) Georgetown 1932, RM 71
16) DYKE 1931
17) Crow 1933
18) Devil 1934

JOB CM-8303
LITTLE RIVER INLET TO BULLS BAY
SOUTH CAROLINA
SHORELINE MAPPING
CONTROL
JOB CM-8303
LITTLE RIVER INLET TO BULLS BAY
SOUTH CAROLINA
SHORELINE MAPPING

COMPILATION PHOTOGRAPHS
JOB CM-8303
LITTLE RIVER INLET TO BULLS BAY
SOUTH CAROLINA
SHORELINE MAPPING
MHW
INFRARED PHOTOGRAPHS
JOB CM-6303
LITTLE RIVER INLET TO BULLS BAY
SOUTH CAROLINA
SHORELINE MAPPING
MLLW
INFRARED PHOTOGRAPHS
# Descriptive Report Control Record

**Map No.** TP-01236  
**Job No.** CM-8303  
**Geodetic Datum** 1927 North American  
**Originating Activity** Coastal Mapping Unit, Norfolk, VA  

<table>
<thead>
<tr>
<th>Station Name</th>
<th>Source of Information (Index)</th>
<th>Aerotriangulation Point Number</th>
<th>Coordinates in Feet</th>
<th>Geographic Position</th>
<th>Remarks</th>
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<td>ENTERPRISE 1934</td>
<td>Quad 330791</td>
<td>STA 1014</td>
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<td>φ 33° 40' 03.091&quot;</td>
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<td></td>
<td>y=</td>
<td>λ 79° 03' 37.506&quot;</td>
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**Computed by**  
D. Miller  
**Date** 12/88  
**Listed by**  
**Date**  
**Hand Plotting by**  
**Date**  

**Computation checked by**  
J. O. Neterer, Jr.  
**Date** 8/89  
**Listing checked by**  
**Date**  
**Hand Plotting checked by**  
**Date**
31. **DELINEATION:**

Delineation was accomplished using Wild B-8 stereo instrument and graphic compilation methods. Instrument and graphic compilation were used to delineate shoreline, alongshore, and interior detail based upon office interpretation of the 1:40,000 scale bridging/compilation color photographs and the tide coordinated mean high water infrared contact photographs.

Tide coordinated mean lower low water infrared ratio photographs were used to graphically compile the approximate mean lower low water line. The mean lower low water line was compiled to the limit of available photography. Control for all graphic delineation was provided by instrument compilation of coastal detail and common image points.

All photographs used to compile this map are listed on NOAA form 76-368. The photography was adequate.

32. **CONTROL:**

The horizontal control was adequate. Refer to the Aerotriangulation Report, dated October 1987.

33. **SUPPLEMENTAL DATA:**

None.

34. **CONTOURS AND DRAINAGE:**

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

35. **SHORELINE AND ALONGSHORE DETAILS:**

The mean high water line was compiled from office interpretation of the 1:40,000 scale bridging/compilation color photographs and the tide coordinated mean high water infrared contact photographs.

There were no mean high water infrared ratio photographs available for this map.

36. **OFFSHORE DETAILS:**

Offshore detail was compiled by instrument methods using the 1:40,000 scale bridging/compilation color photographs.

The tide coordinated mean lower low water infrared ratio photographs were used to compile the approximate mean lower low water line as described in item #31.
37. **LANDMARKS AND AIDS:**

Within the limits of this map, no charted landmarks and twenty-five charted aids to navigation were located/verified photogrammetrically.

38. **CONTROL FOR FUTURE SURVEYS:**

None.

39. **JUNCTIONS:**

Refer to the Data Record 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. Geological Survey Quadrangles:

- Plantersville, South Carolina; dated 1943, photorevised 1973, scale 1:24,000
- Brookgreen, South Carolina; dated 1943, photorevised 1973, scale 1:24,000
- Bucksville, South Carolina; dated 1943, photorevised 1973, scale 1:24,000

47. **COMPARISON WITH NAUTICAL CHARTS:**

A comparison was made with the following National Ocean Service charts:

- 11009; 31st edition; dated August 9, 1986; scale 1:1,200,000
- 11520; 29th edition; dated February 8, 1986; scale 1:432,720
- 11534; 23rd edition; dated January 9, 1988; scale 1:40,000
- 11535; 10th edition; dated April 9, 1988; scale 1:80,000
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:
None.

ITEMS TO BE CARRIED FORWARD:
None.

Submitted by:

[Signature]
David R. Miller
Cartographer
January 5, 1989

Approved:

[Signature]
James L. Byrd, Jr.
Chief, Coastal Mapping Unit
GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8303 (Little River Inlet to Bulls Bay, SC)

TP-01236

Allston Creek
Atlantic Ocean
Bellin
Big Buckskin Creek
Black Creek
Brookgreen Creek
Brookgreen Gardens (park)
Brookgreen Island
Bucksport
Bull Creek
Bull Island
Bull Tongue Island
Bullins Creek
Clark Creek
Collins Creek
Cooter Creek
Cow House Creek
Crane Creek
Drunken Jack Island
Enterprise Creek
Fisherman Creek
Flagg Island
Goat Island
Great Pee Dee River
Guandalose Creek
Horseshoe Lake
Intracoastal Waterway
Laurel Hill Island
Little Bull Creek
Long Bay
Longwood Island
Longwood Landing
Lower Topsaw Landing
Magnolia Beach
Main Creek
Mount Reno
Mulberry Landing
Murrells Inlet (locale)
Murrells Inlet
Nimrod Creek
Oaks Creek
Oaks Island
Oatbed Creek
Oatbed Island
Old Dock Creek
Old River
Parsonage Creek
Pawleys Creek
Peach Creek
Peachtree Lake
Peachtree Landing
Point, The
Prince Creek
Richmond Island
Righthand Creek
Ruinsville
Ruinsville Creek
Sandhole Creek
Sandy Island
Seven Prongs
Silver Creek
Silver Island
Silvers Creek
Socastee
Socastee Creek
Springfield Island
Still Creek
Thoroughfare Creek
Vaux Creek
Vaux Island
Waccamaw River
Wachesaw Landing
Weston Flat
White Creek
Woodland Creek

Approved:

Charles E. Harrington
Chief Geographer
Nautical Charting Division
Charting and Geodetic Services
61. GENERAL STATEMENT:

See Summary included with this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with the following USGS quadrangles:

BROOKGREEN, SOUTH CAROLINA, dated 1943, photorevised 1973;
BUCKSVILLE, SOUTH CAROLINA, dated 1943, photorevised 1973;

All three are 1:24,000 scale.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

There are no contemporary hydrographic surveys within the limits of this map.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following National Ocean Service charts:

11009, 31st edition, dated August 9, 1986, scale 1:1,200,000
11520, 30th edition, dated November 19, 1988, scale 1:432,720
11534, 23rd edition dated January 9, 1988, scale 1:40,000
11535, 10th edition, dated April 9, 1988, scale 1:80,000
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:

Lowell O. Neterer, Jr.
Final Reviewer
August 1989

Approved for Forwarding:

Billy H. Barnes
Chief, Quality Assurance Group

Approved:

Chief, Photogrammetric Sect.  
Chief, Photogrammetry Br.
CARTOGRAPHIC FEATURES OF CHARTING INTEREST

PROJECT: CM-8303

MAP NUMBER (Scale); Locality: TP-01236 (1:20,000) LITTLE RIVER INLET TO BULLS BAY, SC

GEODETiC DATUM: NA 1927

CHARTS AFFECTED: 1009, 11520, 11534, 11535

The following charted landmarks and nonfloating aids to navigation have been measured and/or confirmed during photogrammetric operations. Refer to Nautical Charting Division Standard Digital Data Exchange Format documentation for quality code (QC) criteria and clarification of cartographic codes (CC).

<table>
<thead>
<tr>
<th>FEATURE DESCRIPTION</th>
<th>NCD</th>
<th>GEOGRAPHIC POSITION (°')</th>
<th>DATE OF LOCATION</th>
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<td>33 39 21.683 79 05 25.863</td>
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Listing approved by: __________ FINAL REVIEWER __________ DATE __________
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Listing approved by: Lowell H. Hurley
FINAL REVIEWER: September 27, 1985
### Nautical Chart Division

**Record of Application to Charts**

**File with Descriptive Report of Survey No.**

**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>
<th>Date</th>
<th>Cartographer</th>
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