### DESCRIPTIVE REPORT

**Type of Survey:** Shoreline  
**Job No.:** CM-7219  
**Map No.:** TP-00699  
**Classification No.:**  
**Edition No.:** 1  
**Field Edited Map**

### LOCALITY

**State:** North Carolina  
**General Locality:** Cape Fear to Cape Lookout  
**Locality:** Page Creek  

**1972 TO 1974**

### REGISTRY IN ARCHIVES

**DATE**
**DESCRIPTIVE REPORT - DATA RECORD**

### PHOTOGRAMMETRIC OFFICE

Coastal Mapping Division, Norfolk, VA

**OFFICER-IN-CHARGE**

Jeffrey G. Carlen, CDR.

<table>
<thead>
<tr>
<th>I. INSTRUCTIONS DATED</th>
<th>1. OFFICE</th>
<th>2. FIELD</th>
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<tr>
<td>Dec. 4, 1972</td>
<td>Aerotriangulation</td>
<td>Sept. 15, 1972</td>
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<td>Apr. 4, 1973</td>
<td>Compilation</td>
<td>Sept. 28, 1972</td>
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<tr>
<td>Apr. 4, 1973</td>
<td>Amend. I</td>
<td>Sept. 21, 1973</td>
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</table>

### II. DATUMS

1. **HORIZONTAL:**
   - 1927 NORTH AMERICAN

2. **VERTICAL:**
   - MEAN HIGH-WATER

3. **MAP PROJECTION**
   - Polyconic

4. **GRID(S):**
   - STATE: North Carolina
   - ZONE: [Blank]

5. **SCALE:**
   - 1:20,000

### III. HISTORY OF OFFICE OPERATIONS

<table>
<thead>
<tr>
<th>OPERATIONS</th>
<th>NAME</th>
<th>DATE</th>
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<tr>
<td>1. AEROTRIANGULATION</td>
<td>J.E. Schad</td>
<td>Mar. 21/73</td>
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<tr>
<td>METHOD: Stereoplanigraph</td>
<td>LANDMARKS AND AIDS BY</td>
<td></td>
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<tr>
<td>2. CONTROL AND BRIDGE POINTS</td>
<td>D. Phillips</td>
<td>Mar. 21/73</td>
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<tr>
<td>METHOD: Calcomp.</td>
<td>PLOTTED BY</td>
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<tr>
<td>3. STEREOSCOPIC INSTRUMENT COMPILATION</td>
<td>Frank Margiotta</td>
<td>Apr., 1973</td>
</tr>
<tr>
<td>INSTRUMENT: Wild B-8</td>
<td>CHECKED BY</td>
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<td>PLANIMETRY BY</td>
<td>L.O. Neterer</td>
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<td>4. MANUSCRIPT DELINEATION</td>
<td>L.B. Foltz</td>
<td>Apr., 1973</td>
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<tr>
<td>METHOD: Wild B-8 and graphic</td>
<td>CONTOURS BY</td>
<td>A.C. Rauck, Jr.</td>
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<td>SCALE: 1:20,000</td>
<td>PLAIMETRY BY</td>
<td>NA</td>
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<tr>
<td>5. OFFICE INSPECTION PRIOR TO FIELD EDIT</td>
<td>A.C. Rauck, Jr.</td>
<td>Apr., 1973</td>
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<tr>
<td>6. APPLICATION OF FIELD EDIT DATA</td>
<td>R.B. White</td>
<td>Jan., 1975</td>
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<td>CHECKED BY</td>
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<td></td>
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<tr>
<td>7. COMPILATION SECTION REVIEW</td>
<td>A.L. Shands</td>
<td>Jan., 1975</td>
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<td>8. FINAL REVIEW</td>
<td>C.H. Bishop</td>
<td>May, 1975</td>
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<td>9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH</td>
<td>R.T. Cator</td>
<td>Aug. 1976</td>
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<td>10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH</td>
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<td>11. MAP REGISTERED - COASTAL SURVEY SECTION</td>
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1. COMPILATION PHOTOGRAPHY

CAMERAS
- Wild RC-8 "E", RC-10 "C"
- Predicted Tides
- Reference Station Records
- Tide Controlled Photography

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<tr>
<th>NUMBER AND TYPE</th>
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<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<td>728(C)6723 - 6725</td>
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<td>13:45</td>
<td>1:40,000</td>
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<td>13:47</td>
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<tr>
<td>730(C)(I)6135 - 6136</td>
<td>11 NOV 73</td>
<td>14:00</td>
<td>1:60,000</td>
<td>+0.2 ft. of MLW</td>
</tr>
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REMARKS
* Bridge and compilation photos.
** Tide coordinated photos at MHW and MLW.

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled from office interpretation of the 1972 color photography listed under 1. above and updated graphically by use of the 1973 tide coordinated infrared photographs taken at MHW when they became available.

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

The mean low water line was compiled graphically from office interpretation of the tide coordinated infrared photographs listed in 1. above.

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

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<td>TP-00701</td>
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REMARKS
HISTORY OF FIELD OPERATIONS

1. **FIELD INSPECTION OPERATION**
   - **OPERATION**: CHIEF OF FIELD PARTY
     - **RECOVERED BY**: R.S. Tibbetts
     - **DATE**: Oct., 1972
   - **OPERATION**: HORIZONTAL CONTROL
     - **established by**: R.E. Kesselring
     - **PRE-MARKED OR IDENTIFIED BY**: None
     - **DATE**: Oct., 1972
   - **OPERATION**: VERTICAL CONTROL
     - **RECOVERED BY**: R.E. Kesselring
     - **DATE**: Oct., 1972
   - **OPERATION**: LANDMARKS AND AIDS TO NAVIGATION
     - **RECOVERED (Triangulation Stations) by**: None
     - **LOCATED (Field Methods) by**: None
     - **IDENTIFIED BY**: None
   - **OPERATION**: GEOGRAPHIC NAMES INVESTIGATION
     - **TYPE OF INVESTIGATION**: No Investigation
   - **OPERATION**: PHOTO INSPECTION
     - **CLARIFICATION OF DETAILS BY**: None
   - **OPERATION**: BOUNDARIES AND LIMITS
     - **SURVEYED OR IDENTIFIED BY**: NA

2. **SOURCE DATA**
   - **OPERATION**: HORIZONTAL CONTROL IDENTIFIED
     - **PHOTO NUMBER**: 72E(C)6723
     - **STATION NAME**: KIRKLAND, 1932
   - **OPERATION**: VERTICAL CONTROL IDENTIFIED
     - **NA**

3. **PHOTO NUMBERS**
   - **CLASSIFICATION OF DETAILS**
     - None

4. **LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED**
   - **None**

5. **GEOGRAPHIC NAMES**
   - **REPORT**: None
   - **NONE**: None

6. **BOUNDARY AND LIMITS**
   - **REPORT**: None
   - **NONE**: 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 152 Control Station Identification Card
     - 2 Pages MA-100 Tellurometer Observations
HISTORY OF FIELD OPERATIONS

1. **Field Inspection Operation**
   - **Operation**: Chief of Field Party
   - **Name**: Philip B. Walbolt
   - **Date**: July, 1974

2. **Field Edit Operation**
   - **Operation**: Horizontal Control
   - **Name**: Philip B. Walbolt
   - **Date**: July, 1974

   - **Pre-Marked or Identified by**: NA
   - **Established by**: NA
   - **Recovered by**: NA

3. **Operation**: Vertical Control
   - **Pre-Marked or Identified by**: NA
   - **Established by**: NA
   - **Recovered by**: NA

4. **Operation**: Landmarks and Aids to Navigation
   - **Located (Field Methods) by**: None
   - **Identified by**: None
   - **Recovered (Triangulation Station) by**: None

5. **Geographic Names Investigation**
   - **Type of Investigation**: No Investigation
   - **Complete**: No
   - **Specific Names Only**: No

6. **Photo Inspection**
   - **Clarification of Details by**: None

7. **Boundaries and Limits**
   - **Surveyed or Identified by**: NA

### II. Source Data

1. **Horizontal Control Identified**: None
2. **Vertical Control Identified**: NA

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3. **Photo Numbers (Clarification of Details)**
   - None

4. **Landmarks and Aids to Navigation Identified**
   - None

#### B. Geographic Names

5. **Geographic Names**: None

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6. **Boundary and Limits**: None

7. **Supplemental Maps and Plans**
   - None

8. **Other Field Records (Sketch books, etc.)**
   - Field Edit Report
   - Field Edit Ozalid
### I. MANUSCRIPT COPIES

<table>
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<th>DATA COMPILED</th>
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<th>REMARKS</th>
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<th>HYDRO SUPPORT</th>
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<td>Final Review</td>
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### II. LANDMARKS AND AIDS TO NAVIGATION

None

### III. FEDERAL RECORDS CENTER DATA

1. BRIDGING PHOTOGRAPHS;
2. DUPLICATE BRIDGING REPORT;
3. COMPUTER READOUTS.
4. CONTROL STATION IDENTIFICATION CARDS;
5. FORM NOS 567 SUBMITTED BY FIELD PARTIES.
6. SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.

ACCOUNT FOR EXCEPTIONS:

### IV. SURVEY EDITIONS

(This section shall be completed each time a new map edition is registered)

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<tr>
<td>□ Resurvey</td>
<td>□ II, III, IV, V, FINAL</td>
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NOAA FORM 76-36D
SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORTS TP-00692 and TP-00697 through TP-00705

Project CM-7219 is one of several projects that comprise the Southern Coastal Plains Expedition (SCOPE). It is a 1:20,000 scale shoreline mapping project which contains eighteen maps. Except for Map TP-00705, the maps referred to in this summary are not standard shoreline surveys because compilation was limited to the ocean shoreline only, per Instructions - OFFICE - Job CM-7219, Part II, Cape Fear to Cape Lookout, North Carolina, Shoreline Mapping, dated 4/4/73, Items 4.03 and 4.04. The entire area of TP-00705 was mapped; it was copied from a reduction of 1:10,000 scale Map TP-00683 (Job CM-7219) which covers the same area.

This summary is for Part II of the project. It covers the area between New River Inlet and Cape Fear.

Field work prior to compilation consisted of recovery and remarking horizontal control required for bridging and the obtaining of beach profiles. These profiles were not made within the time limit specified in instructions dated September 28, 1972 and were too widely spaced. Therefore, they were considered of no value and were not used as a source for mean high or mean low water lines.

Bridging was done in the Rockville Office in March 1973 using the Zeiss C-8 stereoplanigraph with 1:40,000 scale photography dated October 20, 1972. See Photogrammetric Plot Report following this summary.

Compilation was done at the Atlantic Marine Center in April and May 1973, using the 1972 bridging photography for compilation of interior details and initial compilation of the mean high water line. Later, at the time field edit was applied and the tide coordinated infrared photography (based on predicted tides) was available, the mean high water line was corrected where necessary, to agree with the photographs taken at MHW and the mean low water line was delineated graphically from the MLW photographs.

Field edit was done in May and July 1974, except for the area covered by TP-00705, which was edited in August 1973.

Final review was done at the Atlantic Marine Center in March through June 1976.

The original manuscripts were stabilene sheets 7½ minutes in latitude by 7½ minutes in longitude.

A cronaflex positive copy and a negative of each final reviewed map were forwarded for record and registry.
Photogrammetric Plot Report
Job CM-7219
Cape Fear - Cape Lookout, North Carolina
Part II
March 21, 1973

21. Area Covered
The area covered in this report extends along the North Carolina shoreline from Cape Fear to the vicinity of New River Inlet. Included in this area are 11 T-sheets: TP-00692; TP-00696 thru TP-00705; all are at 1:20,000 scale.

22. Method
Two strips of 1:40,000 color photography were bridged on the Zeiss C-8 stereoplanigraph and adjusted by the IBM computer. The two strips were used to obtain pass point positions for the models and to determine the scale ratio for strips #4, #5, and #6.

Compilation points were positioned on strip #5 to set photos 72E(c) 6755 thru 6760.

Strip #1 (72E(c) 6722 thru 6739) was adjusted on four field identified triangulation stations with five office identified stations as checks.

Strip #2 (72E(c) 6706 thru 6720) was adjusted on five triangulation stations, three tie points and three triangulation stations were used as checks. All horizontal tie points were averaged. T-sheets were ruled on North Carolina plane coordinates and plotted on the Coradomat.

23. Adequacy of Control
Horizontal control complied with project instruction and held within the National Map Accuracy Standard.

24. Supplemental Data
All vertical control needed for adjustment was taken from USGS quadrangles and are approximate mean sea level. The vertical points obtained by bridging are not necessarily true values.

25. Photography
Photography was adequate as to overlap, definition, and coverage.

Respectfully submitted
James E. Schad

Approved by
John D. Perrow, Jr.
Chief, Aerotriangulation Section
The shoreline area from the vicinity of Mason Inlet to New Topsoil Inlet (TP-00700) must be compiled from strip #5 (72E(c)6756 thru 6760) either by setting the models or by graphic methods. In order to control this area, "900" series points were determined from bridging strip #2.

Beach cross section points, which were field identified on black/white contact print, have been horizontally positioned from bridging strips #1 and #2 and are identified with "400" series numbers.

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<td>01-02</td>
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<td>25400</td>
<td>03-03</td>
<td>(68E 3232)</td>
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<td>26400</td>
<td>01-01</td>
<td>(68E 3419)</td>
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<td>31400</td>
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<td>(68E 3270)</td>
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<td>19400</td>
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<td>(68E 3272)</td>
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△ HORIZONTAL CONTROL
○ 1:40,000 SCALE COLORED
PHOTOGRAPHY
BRIDGING PHOTOGRAPHY

PART 2

JOB CM-7213
CAPE FEAR – CAPE LOOKOUT
NORTH CAROLINA
SHORELINE MAPPING
SCALE 1/2,000

Page 1
JOB CM - 7219

KEY TO HORIZONTAL CONTROL
USE FOR BRIDGING.

1. BALD HEAD LIGHTHOUSE, 1851
2. FEDERAL POINT, 1913
3. KURE BEACH W.T., 1913
4. CAROLINA BEACH MUN. W.T., 1968
5. RUINS, 1917
6. MASON, 1918
7. WRIGHTSVILLE BEACH SOUTH MUN. W.T., 1962
8. WRIGHTSVILLE BEACH NORTH MUN. W.T., 1962
9. KIRKLAND, 1932
10. HAMPSTEAD 2, 1947
11. ATKINSON, 1914
12. SEARS LANDING, TANK 1943
13. BETHEA, 1932
14. GRANT, 1932
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<th>GEOGRAPHIC POSITION</th>
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<td>x=</td>
<td>φ 34 15 45.11659</td>
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<td>y=</td>
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COMPUTED BY A.C. Rauck, Jr. DATE 3/29/73
COMPUTATION CHECKED BY L.B. Foltz DATE 4/26/73

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.
COMPILATION REPORT
TP-00699

31. Delineation

This map was not delineated a standard shoreline survey. See Summary, page 6 of this Descriptive Report.

Delineation was by the Wild B-8 stereoplottor, using the 1:40,000 scale color photography taken on October 20, 1972 (Bridging photography). Only the outer coast was mapped, per Instructions - OFFICE - dated April 4, 1973, Par. 4.03.

32. Control


33. Supplemental Data

None

34. Contours and Drainage

Contours are inapplicable. No drainage was delineated.

35. Shoreline and Alongshore Details

The mean high water line and alongshore details were delineated from office interpretation of the photographs.

36. Offshore Details

None

37. Landmarks and Aids

Preliminary Forms 76-40, Nonfloating Aids or Landmarks for Charts were prepared by the Compilation Office and forwarded to the Field Editor and/or the Hydrographer for verification, location, or deletion.
38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS

See Form 76-36b, Items #5, of the Descriptive Report.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement

46. COMPARISON WITH EXISTING MAPS

A comparison was made with the following Army Map Service quadrangle: ROCKY POINT, NORTH CAROLINA, scale 1:62,500, 1st. edition, AMS 2, dated 1946.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following National Ocean Survey chart: C&GS 1235, scale 1:80,000, 9th edition, dated May 1, 1971; 833-8C, scale 1:40,000 scale, 10th edition, dated February 24, 1973.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

Albert C. Rauck, Jr.
L.B. Foltz
Cartographic Aid, April, 1973

Approved:

Albert C. Rauck, Jr.
Chief, Coastal Mapping Section, AMC
ADDENDUM TO THE COMPILATION REPORT
TP-00699

FIELD EDIT

Field edit of this map is complete.

After original compilation, tide coordinated photography was flown at mean high and mean low water. When field edit was applied, the mean high water line was verified by comparison with the high water photographs and the mean low water line was added from office interpretation of that line on the low water photographs.

Charles H. Bishop
Final Reviewer
May 24, 1976
GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7219 (Cape Fear to Cape Lookout, N.C.)

TP-00699

Atlantic Ocean

Figure Eight Island

Onslow Bay

Approved by
Chas. E. Harrington
Staff Geographer--C5lx2
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<td>Remarks (See attached sheet)</td>
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FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.


43. REMARKS

Field edits were applied from the field edit ozalid.
FIELD EDIT FOR SHEET TP-00699
Page creek; Job CM-7219, part 2

51. METHODS
This manuscript was inspected by truck, by walking the beach, and by boat.

52. ACCURACY OF COMPILATION
The accuracy is good.

54. RECOMMENDATIONS
None.

Philip B. Walbolt
Chief, Photo Party 63
REVIEW REPORT TP-00699
SHORELINE
May 24, 1976

61. **GENERAL STATEMENT:**

See Summary, which is page 6 of this Descriptive Report.

A comparison print showing differences noted in Par. 63 and 65 is bound with the original of this report.

62. **COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:**

No registered topographic surveys later than 1933 were available. No comparison was made.

In the area mapped, TP-00699 supersedes prior registered surveys for nautical chart construction purposes.

63. **COMPARISON WITH MAPS OF OTHER AGENCIES:**

A comparison was made with Army Map Service quadrangle ROCKY POINT, NORTH CAROLINA, 1:62,500 scale, First Edition AMS 2, 1946. Significant differences are shown on the comparison print in brown.

64. **COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:**

No contemporary hydrographic surveys were available for comparison.

65. **COMPARISON WITH NAUTICAL CHARTS:**

A comparison was made with Chart 11541, 1:40,000 scale, 12th edition, dated March 1975. Significant differences are shown in red on the comparison print.
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with Instructions - OFFICE - Job CM-7219, Part II, Cape Fear to Cape Lookout, North Carolina, Shoreline Mapping, and meets requirements for Bureau Standards and the National Standards of Map Accuracy.

Submitted:

Charles H. Bishop
Charles H. Bishop
Cartographer
May 24, 1976

Approved for forwarding:

Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

A.C. Blumenthal
Art A.K. Heywood
Chief, Photogrammetric Branch

Chief, Coastal Mapping Division
**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.

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