

TP-00705

ORIGINAL

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline

Job No. CM-72.19 Map No. TP-00705

Classification No. Edition No. 1

Field Edited Map

LOCALITY

State North Carolina

General Locality Cape Fear to Cape Lookout

Locality Cape Fear

1972 TO 1973

REGISTRY IN ARCHIVES

DATE

TP-00705

| | | | |
|--|--|--|--------------------------------|
| NOAA FORM 76-36A (3-72) <div style="text-align: right; font-size: small;">U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.</div> <div style="text-align: center; font-weight: bold; margin-top: 10px;">DESCRIPTIVE REPORT - DATA RECORD</div> | | TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED SURVEY <u>TP-00705</u> MAP EDITION NO. (1) MAP CLASS JOB <u>MMCM-7219</u> | |
| PHOTOGRAMMETRIC OFFICE Coastal Mapping Division, Norfolk, VA OFFICER-IN-CHARGE Jeffrey G. Carlen, CDR, NOAA | | LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB <u>PH-</u> MAP CLASS <u> </u> SURVEY DATES: 19 <u> </u> TO 19 <u> </u> | |
| I. INSTRUCTIONS DATED | | | |
| 1. OFFICE | | 2. FIELD | |
| Dec 4, 1972 Aerotriangulation Apr 4, 1973 Compilation Apr 6, 1973 Amend. I | | Sep 15, 1972 Sep 28, 1973 Amend. I Sep 21, 1973 | |
| II. DATUMS | | | |
| 1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH-AMERICAN | | OTHER (Specify) | |
| 2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input checked="" type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL | | OTHER (Specify) | |
| 3. MAP PROJECTION Polyconic | | 4. GRID(S) STATE <u>North Carolina</u> ZONE <u> </u> STATE <u> </u> ZONE <u> </u> | |
| 5. SCALE 1:20,000 | | STATE <u> </u> ZONE <u> </u> | |
| III. HISTORY OF OFFICE OPERATIONS | | | |
| OPERATIONS | | NAME | DATE |
| 1. AEROTRIANGULATION BY METHOD: Stereoplanigraph LANDMARKS AND AIDS BY | | J.E. Schad | Mar 21, 73 |
| 2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Calcomp. CHECKED BY | | | Mar, 73 |
| 3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 SCALE: 1:20,000 (See item 31) CONTOURS BY CHECKED BY | | F. Margiotta L.O. Neterer NA NA | Mar, 73 Mar, 73 |
| 4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY METHOD: (See item 31) SCALE: 1:20,000 HYDRO SUPPORT DATA BY CHECKED BY | | L.B. Foltz A.L. Shands NA NA NA NA | Apr, 73 Apr, 73 |
| 5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY | | A.L. Shands | Apr, 73 |
| 6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY | | Charles Parker Frank Margiotta | Apr, 75 Apr, 75 |
| 7. COMPILATION SECTION REVIEW BY | | Frank Margiotta | Apr, 75 |
| 8. FINAL REVIEW BY | | C.H. Bishop | Jun, 76 |
| 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY | | | |
| 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY | | | |
| 11. MAP REGISTERED - COASTAL SURVEY SECTION BY | | R.T. CATOR | APR 1976 |

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYCOMPILATION SOURCES
TP-00705

1. COMPILATION PHOTOGRAPHY

| | | | | | |
|---|------------|---|----------|--|--|
| CAMERA(S) Wild RC-8 "E", RC-10 "C" | | TYPES OF PHOTOGRAPHY LEGEND | | TIME REFERENCE | |
| TIDE STAGE REFERENCE Charleston <input checked="" type="checkbox"/> PREDICTED TIDES Cape Fear <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY | | (C) COLOR X (P) PANCHROMATIC (I) INFRARED X | | ZONE Eastern MERIDIAN 75th <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT | |
| NUMBER AND TYPE | DATE | TIME | SCALE | STAGE OF TIDE | |
| * 72E(C) 6738 thru 6739 | Oct 20, 72 | 13:50 | 1:40,000 | 2.0 ft. above MLW | |
| ** 73C(C)(I)-4955 | Oct 18, 73 | 13:40 | 1:60,000 | ±0.2 ft. of MHW | |
| *** 73C(C)(I) 6126-6127 | Nov 11, 73 | 13:51 | 1:60,000 | ±0.2 ft. of MLW | |
| NOTE: Also see photographs listed on Form 76-36b.1. for TP-00683 (Job CM-7218). | | | | | |

REMARKS* Bridge and compilation photos
** Tide coordinated photos at MHW and MLW, based on predicted tides.

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.

* See 1 above

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.

* See 1 above

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-00704 | No Survey | No Survey | CM-7218 TP-00682 |
| REMARKS TP-00705 is a copy of 1:10,000 scale map TP-00683 (Job CM-7218) | | | |

TP-00705

HISTORY OF FIELD OPERATIONS

1. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

| OPERATION | NAME | DATE |
|-------------------------------------|--|-----------|
| 1. CHIEF OF FIELD PARTY | R. S. Tibbetts | Oct. 1972 |
| 2. HORIZONTAL CONTROL | RECOVERED BY R. E. Kesselring | Oct. 1972 |
| | ESTABLISHED BY NA | |
| | PRE-MARKED OR IDENTIFIED BY R. E. Kesselring | Oct. 1972 |
| 3. VERTICAL CONTROL | RECOVERED BY NA | |
| | ESTABLISHED BY NA | |
| | PRE-MARKED OR IDENTIFIED BY NA | |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (Triangulation Stations) BY None | |
| | LOCATED (Field Methods) BY None | |
| | IDENTIFIED BY None | |
| 5. GEOGRAPHIC NAMES INVESTIGATION | TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY BY <input type="checkbox"/> NO INVESTIGATION | NA |
| 6. PHOTO INSPECTION | CLARIFICATION OF DETAILS BY | NA |
| 7. BOUNDARIES AND LIMITS | SURVEYED OR IDENTIFIED BY | NA |

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

Premark

2. VERTICAL CONTROL IDENTIFIED

| PHOTO NUMBER | STATION NAME | PHOTO NUMBER | STATION DESIGNATION |
|--------------|--|--------------|---------------------|
| | Baldhead Lighthouse 1851 (West of TP-00705) | | |

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 Control Station Identification
- 1 Form MA-100 Tellurometer Observations
- 1 Form 266 Observation of Sun for Azimuth and Time
- 1 Form 269c Computation of Altitude and Time Azimuth

TP-00705

HISTORY OF FIELD OPERATIONS

36

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

| OPERATION | NAME | DATE |
|-------------------------------------|---|-----------|
| 1. CHIEF OF FIELD PARTY | R. S. Tibbetts | 1973 |
| 2. HORIZONTAL CONTROL | RECOVERED BY NA ESTABLISHED BY NA PRE-MARKED OR IDENTIFIED BY NA | |
| 3. VERTICAL CONTROL | RECOVERED BY NA ESTABLISHED BY NA PRE-MARKED OR IDENTIFIED BY NA | |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (Triangulation Stations) BY NA LOCATED (Field Methods) BY NA IDENTIFIED BY NA | |
| 5. GEOGRAPHIC NAMES INVESTIGATION | TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input checked="" type="checkbox"/> SPECIFIC NAMES ONLY BY R. D. Black <input type="checkbox"/> NO INVESTIGATION | Oct. 1973 |
| 6. PHOTO INSPECTION | CLARIFICATION OF DETAILS BY R. D. Black | Oct. 1973 |
| 7. BOUNDARIES AND LIMITS | SURVEYED OR IDENTIFIED BY NA | |

II. SOURCE DATA

| | | | |
|--|--------------|--|---------------------|
| 1. HORIZONTAL CONTROL IDENTIFIED None | | 2. VERTICAL CONTROL IDENTIFIED None | |
| PHOTO NUMBER | STATION NAME | PHOTO NUMBER | STATION DESIGNATION |
| | | | |
| 3. PHOTO NUMBERS (Clarification of details) 72 E(0) 6838 | | | |
| 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED None | | | |
| PHOTO NUMBER | OBJECT NAME | PHOTO NUMBER | OBJECT NAME |
| | | | |
| 5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE | | 6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE | |
| 7. SUPPLEMENTAL MAPS AND PLANS None | | | |
| 8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division) 1 Field Edit Report 1 Field Edit Ozalid | | | |

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONTP-00705
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

| COMPILATION STAGES | | | DATE MANUSCRIPT FORWARDED | |
|--|-----------|------------------------------------|---------------------------|---------------|
| DATA COMPILED | DATE | REMARKS | MARINE CHARTS | HYDRO SUPPORT |
| Compilation complete pending field edit | Apr, 1973 | Class III manuscript Superseded | None | Apr 30, 73 |
| Compilation complete field edit applied | Apr. 1975 | Class I manuscript | 6/3/75 | |
| Final Review | Jun, 1976 | | | |
| | | | | |

II. LANDMARKS AND AIDS TO NAVIGATION None

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

| NUMBER | CHART LETTER NUMBER ASSIGNED | DATE FORWARDED | REMARKS |
|--------|---------------------------------|-------------------|---------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

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

JOINS JOB CM-7305

WA
W

ASTAL

Official Mileage for Cost Account:

Sheet No. Sq. Miles

| | |
|----------|---|
| TP-00684 | 2 |
| TP-00685 | 4 |
| TP-00686 | 4 |
| TP-00687 | 4 |
| TP-00688 | 4 |
| TP-00689 | 4 |
| TP-00690 | 1 |
| TP-00691 | 4 |
| TP-00692 | 3 |
| TP-00693 | 1 |
| TP-00694 | 4 |
| TP-00697 | 3 |
| TP-00698 | 1 |
| TP-00699 | 4 |
| TP-00700 | 4 |
| TP-00701 | 4 |
| TP-00702 | 4 |
| TP-00703 | 4 |
| TP-00704 | 4 |
| TP-00705 | 2 |

PART 1 & PART 2
JOB CM-7219

CAPE FEAR TO CAPE LOOKOUT

NORTH CAROLINA

SHORELINE MAPPING

SCALE 1:20,000

REVISED 8-29-72 KWW
REVISED 11-1-73 L.F.V.

JOINS JOB CM-7218

TP-00705

TP-00704

TP-00703

TP-00702

TP-00701

TP-00700

TP-00699

TP-00698

TP-00697

TP-00694

TP-00692

TP-00684

TP-00686

TP-00687

TP-00688

TP-00689

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-7218) 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 premarking 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 $7\frac{1}{2}$ minutes in latitude by $7\frac{1}{2}$ 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) 6756 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
James E. Schad

Approved by:

John D. Perrow, Jr.
John D. Perrow, Jr.

Chief, Aerotriangulation Section

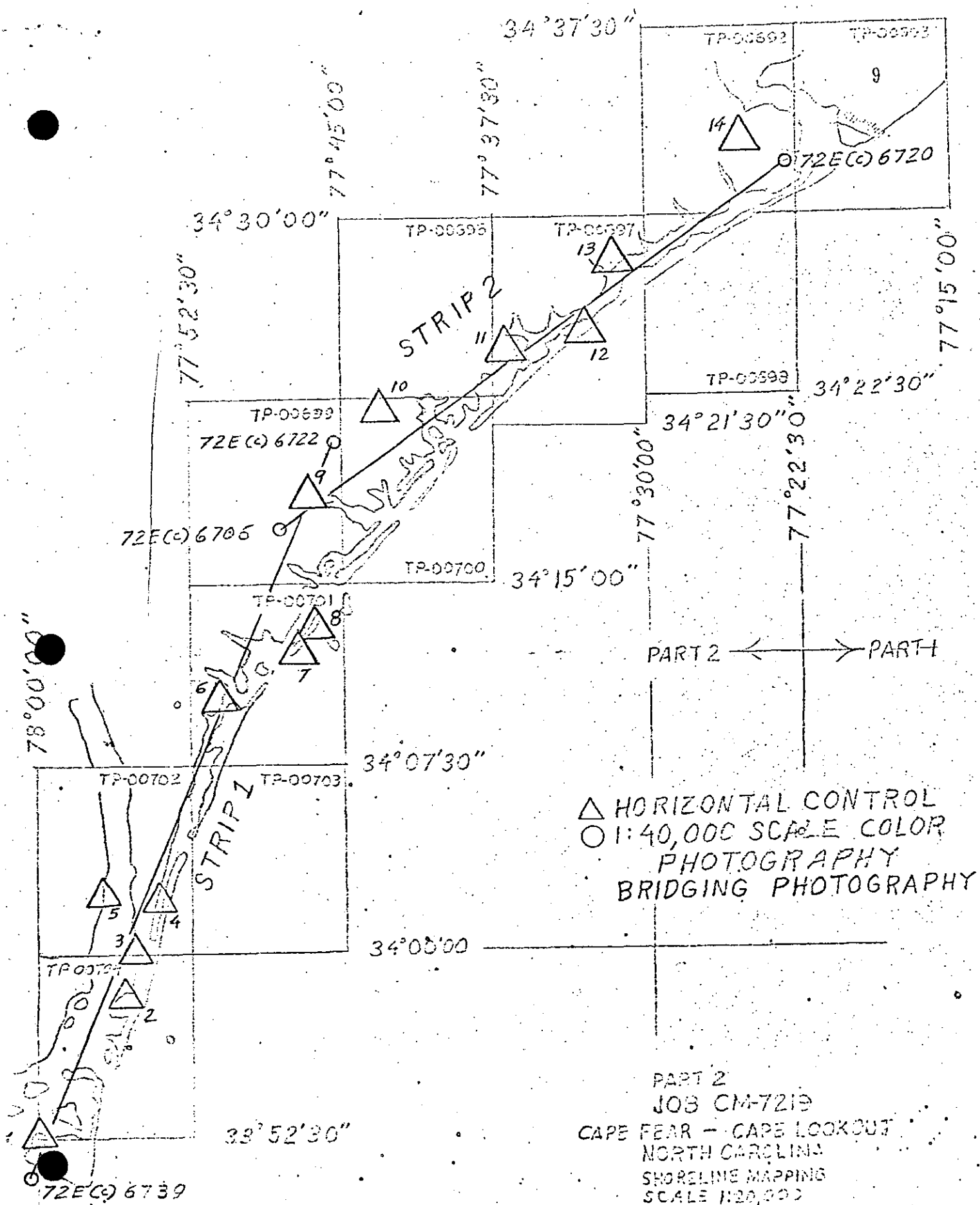
Notes to Compiler
 Job. CM-7219
 Cape Fear - Cape Lookout, North Carolina

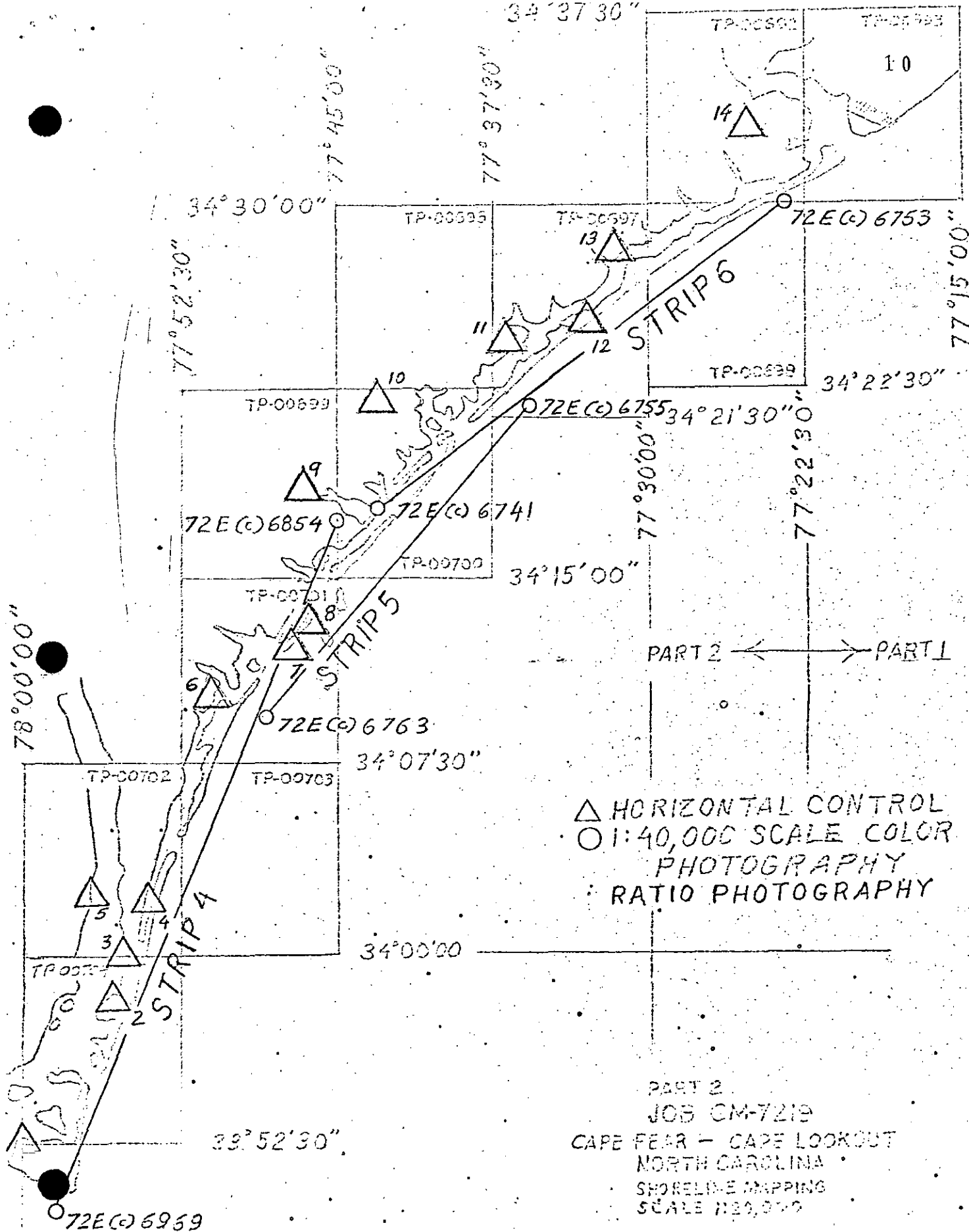
The shoreline area from the vicinity of Mason Inlet to New Topsoil Inlet (TP-00700) must be compiled from strip #5 (72E(c)6756 thru 6760) either by setting the models or by graphic methods. In order to control this area, "900" series points were determined from bridging strip #2.

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.

| Strip # 1 | Photo number | Field number |
|-----------|--------------|------------------|
| | 25401 | 01-02 (68E 3232) |
| | 25400 | 03-03 (68E 3232) |
| | 26400 | 01-01 (68E 3419) |
| | 31400 | 02-01 (68E 3428) |
| Strip #2 | 10400 | 00-01 (68E 3244) |
| | 14400 | 97-01 (68E 3249) |
| | 16400 | 97-02 (68E 3252) |
| | 18400 | 98-02 (68E 3270) |
| | 19400 | 98-01 (68E 3272) |

Rather of strips 4, 5, and 6 were ordered
JSP





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

DESCRIPTIVE REPORT CONTROL RECORD

| MAP NO. | STATION NAME | JOB NO. | GEODEIC DATUM | | AEROTRI- ANGULATION POINT NUMBER | SOURCE OF INFORMATION (Index) | COORDINATES IN FEET | | GEOGRAPHIC POSITION | | REMARKS |
|------------------|----------------------------|---------------------|---------------|---------|---|-------------------------------------|--------------------------|---------------------|---------------------|-------|----------------|
| | | | STATE | ZONE | | | ϕ LATITUDE | λ LONGITUDE | | | |
| TP-00705 | | CM-7219 | N.A. 1927 | | | | | | | | |
| | BALD HEAD LIGHTHOUSE, 1851 | Vol. III P. 2835 | X= | | | | X= | ϕ 33° 52' | 24.06300" | 741.4 | (1107.2) |
| | | | Y= | | | | Y= | λ 78° 00' | 02.34499" | 60.3 | (1481.8) |
| | | | X= | | | | X= | ϕ | | | |
| | | | Y= | | | | Y= | λ | | | |
| | | | X= | | | | X= | ϕ | | | |
| | | | Y= | | | | Y= | λ | | | |
| | | | X= | | | | X= | ϕ | | | |
| | | | Y= | | | | Y= | λ | | | |
| | | | X= | | | | X= | ϕ | | | |
| | | | Y= | | | | Y= | λ | | | |
| | | | X= | | | | X= | ϕ | | | |
| | | | Y= | | | | Y= | λ | | | |
| | | | X= | | | | X= | ϕ | | | |
| | | | Y= | | | | Y= | λ | | | |
| | | | X= | | | | X= | ϕ | | | |
| | | | Y= | | | | Y= | λ | | | |
| | | | X= | | | | X= | ϕ | | | |
| | | | Y= | | | | Y= | λ | | | |
| | | | X= | | | | X= | ϕ | | | |
| | | | Y= | | | | Y= | λ | | | |
| | | | X= | | | | X= | ϕ | | | |
| | | | Y= | | | | Y= | λ | | | |
| | | | X= | | | | X= | ϕ | | | |
| | | | Y= | | | | Y= | λ | | | |
| | | | X= | | | | X= | ϕ | | | |
| | | | Y= | | | | Y= | λ | | | |
| COMPUTED BY | Albert C. Rauck, Jr. | | DATE | 3/29/73 | | | COMPUTATION CHECKED BY | Charles Parker | | DATE | April 15, 1975 |
| LISTED BY | | | DATE | | | | LISTING CHECKED BY | | | DATE | |
| HAND PLOTTING BY | | | DATE | | | | HAND PLOTTING CHECKED BY | | | DATE | |

COMPILATION REPORT

TP-00705

31. DELINEATION

This map was compiled at a 1:10,000 scale as TP-00683 (Job CM-7218). It was delineated by tracing a 1:20,000 scale reduction of TP-00683 onto the projection for TP-00705. No compilation of this area was done at 1:20,000 scale. See the Descriptive Report for TP-00683 (Job CM-7218).

32. CONTROL

See Photogrammetric Plot Report, dated March 21, 1973.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage was delineated from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

All details were traced from a 1:20,000 scale reduction of TP-00683 (Job CM-7218).

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

See Form 76-36b, item No. 5, of the descriptive report.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with the following U.S. Geological Survey quadrangle: Cape Fear, N.C., scale 1:24,000, dated 1942.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following National Ocean Survey charts: 1235, scale 1:80,000, 9th edition, dated May 11, 1971, and 426, scale 1:40,000, 11th edition, dated June 3, 1972.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by:

Albert C. Rauck, Jr. For

L.B. Foltz
Cartographic Aid
April 19, 1972

Approved:

Albert C. Rauck, Jr.

Albert C. Rauck, Jr.
Chief, Coastal Mapping Section, AMC

ADDENDUM TO COMPILATION REPORT

TP-00705

FIELD EDIT

Field edit was applied to the 1:10,000 scale manuscript of TP-00683 (Job CM-7218), photographically reduced to 1:10,000 scale, and traced to the manuscript of TP-00705. The mean high water line compiled from the 1972 color photographs was verified by comparison with the 1973 tide coordinated* color infrared photographs taken at mean high water, and corrected where necessary. The mean low water line was added at this time. See Form 76-36b.

Charles Parker
Cartographic Aid
April, 1975

*Based on predicted tides

16 Oct. 1975

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP-00705

Atlantic Ocean

Bald Head Creek

Bald Head Island

Bluff Island

Cape Creek

Cape Fear

Deep Creek

East Beach

Fishing Creek

Frying Pan Shoals

Long Bay

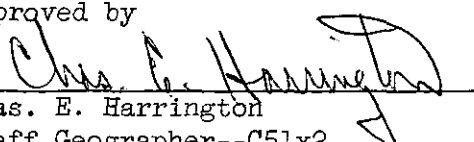
Middle Island

Onslow Bay

Smith Island

Yellow Bluff

Approved by


Chas. E. Harrington
Staff Geographer--C51x2

NOAA FORM 75-74
(2-74)U.S. DEPARTMENT OF COMMERCE
NOAA
NATIONAL OCEAN SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

XX0368 TP-00705

| | | | |
|--|--|---|--|
| 1. PROJECTION AND GRIDS ALS | 2. TITLE ALS | 3. MANUSCRIPT NUMBERS ALS | 4. MANUSCRIPT SIZE ALS |
| CONTROL STATIONS | | | |
| 5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY ALS | 6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) XX | | 7. PHOTO HYDRO STATIONS XX |
| 8. BENCH MARKS XX | 9. PLOTTING OF SEXTANT FIXES XX | 10. PHOTOGRAMMETRIC PLOT REPORT ALS | 11. DETAIL POINTS ALS |
| ALONGSHORE AREAS (Nautical Chart Data) | | | |
| 12. SHORELINE ALS | 13. LOW-WATER LINE XX | 14. ROCKS, SHOALS, ETC. ALS | 15. BRIDGES XX |
| 16. AIDS TO NAVIGATION XX | 17. LANDMARKS XX | 18. OTHER ALONGSHORE PHYSICAL FEATURES ALS | 19. OTHER ALONGSHORE CULTURAL FEATURES XX |
| PHYSICAL FEATURES | | | |
| 20. WATER FEATURES XX | | 21. NATURAL GROUND COVER NA | 22. PLANETABLE CONTOURS NA |
| 23. STEREOSCOPIC INSTRUMENT CONTOURS NA | 24. CONTOURS IN GENERAL NA | 25. SPOT ELEVATIONS NA | 26. OTHER PHYSICAL FEATURES XX |
| CULTURAL FEATURES | | | |
| 27. ROADS ALS | 28. BUILDINGS ALS | 29. RAILROADS XX | 30. OTHER CULTURAL FEATURES XX |
| BOUNDARIES | | | |
| 31. BOUNDARY LINES NA | | 32. PUBLIC LAND LINES NA | |
| MISCELLANEOUS | | | |
| 33. GEOGRAPHIC NAMES ACR | | 34. JUNCTIONS ALS | 35. LEGIBILITY OF THE MANUSCRIPT |
| 36. DISCREPANCY OVERLAY ALS | 37. DESCRIPTIVE REPORT ACR | 38. FIELD INSPECTION PHOTOGRAPHS XX | 39. FORMS ACR |
| 40. REVIEWER <i>A.L. Shands</i> A.L. Shands | | SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr. | |
| 41. REMARKS (See attached sheet) | | | |
| FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT | | | |
| 42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43. | | | |
| COMPILER <i>Charles Parker</i> Charles Parker <i>Frank Margiotta</i> Frank Margiotta | | SUPERVISOR <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr. | |
| 43. REMARKS Field edit applied graphically by use of manuscript (TP-00683) reduction made from 1:10,000 to 1:20,000 scale and applied to this manuscript (TP-00705) | | | |



**U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration**

Photo Party 62
P.O. Box 3044
Wilmington, N.C. 28401

Date: 12 Dec. 1973

Reply to
Attn of: Chief, Photo Party 62

Subject: Field Edit Report
TP-00705

Cape Fear

To: Coastal Mapping Compilation Section CAM 521

51. Methods

All deletions, additions, corrections and answers to office questions are referred to on the "FIELD EDIT OZALID - Field Copy". All field edit writing is in purple ink, except that deletions are in green ink.

Roads of photo E-6868 were inadvertently classified as per page 424 of Topographic Manual Part II.

* MHWL measurements were made with a tape from hydrographic control stations, see attachments to Field Edit Report for TP-00683.

52. Accuracy of compilation

The compilation will be complete and adequate when field edit information is included.

53. Map accuracy

No accuracy tests were made.

54. Recommendations

None.

55. Examination of proof copy

Mr. Jerry R. Mitchell of Wm. F. Freeman Associates has done a great deal of land surveying in this area. He recommends that what is now named Smith Island on the charts be named ~~Smith~~ Bald Head Island. His mailing address and phone number are:

Mr. Jerry R. Mitchell
Wm. F. Freeman Associates
P.O. Box 2103
High Point, N.C. 27261

Phone: 885-4031

* These measurements, made in the summer of 1973, are superseded by tide coordinated infrared photography taken at MHW, based on predicted tides, in October 1973.

Charles H. Bishop
Final Review
6-14-76

Also intimately acquainted with the island is Mr. David Wakefield
Carolina Cape Fear Corporation
P.O. Box 6
Southport, North Carolina 28461
phone: 919-457-6763

56. Field editors

Field edit of this manuscript was done by Lt.(jg) R. David Black and Mr. Joel J. Marin. Work was supervised by Mr. Robert S. Tibbetts, Chief Photo Party 62. If there are any questions concerning this field edit, please contact Chief, Photo Party 62 at the address above, or phone FTS 919-763-9544 or commercial 919-763-9971 Ext. 544.

R. David Black

R. David Black
Lt.(jg) NOAA

| STATION NAME | X coordinate | Y coordinate | Distance to MHWL |
|--------------|------------------------------|-------------------------|---------------------|
| B1 | 2,301,211.23 | 41,451.06 | 23 ft. |
| B2 | 2,302,103.14 | 40,811.87 | 29 ft. |
| B3 | 2,303,474.70 | 40,167.99 | 93 ft. |
| B4 | 2,304,568.30 | 39,653.96 | 22 ft. |
| B5 | 2,305,959.25 | 39,221.89 | 80 ft. |
| B6 | 2,307,244.91 | 38,706.45 | 19 ft. |
| B7 | 2,308,617.68 | 38,252.26 | 91 ft. |
| B8 | 2,309,988.38 | 37,650.15 | 137 ft. |
| B9 | 2,311,291.43 | 36,901.99 | 69 ft. |
| B10 | 2,312,273.19 | 36,431.30 | 149 ft. |
| B11 | 2,313,682.47 | 35,420.53 | 27 ft. |
| B12 | 2,315,322.68 | 35,831.75 | 272 ft. |
| BUZZARD 1962 | 2,316,552.50 ^{1.90} | 48,813.37 ³⁷ | 225 ft. |
| VUB | 2,317,465.48 | 53,275.13 | 239 ft. |
| MARK | 2,315,542.29 | 40,396.33 | 145 ft. |
| BAT | 2,320,178.43 | 64,752.77 | |
| COW | 2,320,579.69 | 66,154.67 | |
| ACE | 2,319,759.41 | 63,347.88 | |
| DUN | 2,319,146.63 | 58,932.30 | 47 ft. |
| RED | 2,319,925.21 | 61,855.34 | |
| OL1 | 2,319,596.47 | 60,621.14 | 10 ft. |
| POL | 2,317,961.30 | 55,879.23 | 290 ft. |
| OL2 | 2,318,549.95 | 57,395.42 | 264 ft. |

STATION NAME

x coordinate

y coordinate

Distance
to MHWL

| | | | |
|------|--------------|-----------|---------|
| 312 | 2,316,183.06 | 34,852.77 | 12 ft. |
| OL 3 | 2,317,294.00 | 52,162.36 | 163 ft. |
| OL 4 | 2,316,826.94 | 49,853.38 | 183 ft. |
| RAT | 2,317,092.71 | 50,858.36 | 138 ft. |
| SIG | 2,315,893.75 | 42,992.72 | 115 ft. |
| 321 | 2,316,396.68 | 47,487.87 | 142 ft. |
| 320 | 2,316,180.03 | 45,637.72 | 91 ft. |
| 319 | 2,316,013.12 | 44,212.33 | 158 ft. |
| PR1 | 2,317,576.03 | 54,360.36 | 346 ft. |
| 317 | 2,316,744.54 | 41,694.72 | 91 ft. |
| 315 | 2,315,470.21 | 39,049.89 | 210 ft. |
| 314 | 2,315,422.39 | 37,306.50 | 227 ft. |

REVIEW REPORT TP-00705

SHORELINE

June 21, 1976

61. GENERAL STATEMENT:

Since this map is a copy of 1:10,000 scale Map TP-00683 (Job CM-7218), that map was reviewed first. Then TP-00705 was reviewed to verify that it is in complete agreement with TP-00683. See Summary, which is page 6 of this Descriptive Report.

A comparison print, showing differences noted in Paragraph 62, 63, 64, and 65, is bound with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison of the ocean shoreline was made with a copy of Survey T-8203, 1:20,000 scale, dated 1942. Significant differences are shown on the comparison print in blue.

In the area compared, TP-00705 and TP-00683 (from which TP-00705 was copied) supersede T-8203 for nautical chart construction purposes. T-8203 is the latest registered prior survey of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison of the ocean shoreline was made with U.S.G.S. Quadrangle CAPE FEAR, N.C., 1:24,000 scale, dated 1946. The mean high water line on the U.S.G.S. quadrangle coincides with the mean high water line on T-8203 and is shown on the comparison print with the same blue line.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with a copy of the verified smooth sheet for Survey H-9398 (PE-20-3-73). Significant differences are shown on the comparison print in purple.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 11537, 1:40,000 scale, 14th edition, dated March 8, 1975. Significant shoreline 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, Cape Fear to Cape Lookout, North Carolina, Shoreline Mapping, except that more interior detail was mapped than required. The map meets requirements for Bureau Standards and National Standards of Map Accuracy.

Submitted:

Charles H. Bishop

Charles H. Bishop
Cartographer
June 21, 1976

Approved for forwarding:

Joseph W. Vonasek

Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

J. H. Blankenhorn
for A. K. Heywood

Chief, Photogrammetric Branch, 8B

Walter D. Shimm

Chief, Coastal Mapping Division