**NOAA FORM 76-35**

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

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Shoreline</th>
<th>Type of Survey</th>
<th>Job No.</th>
<th>Map No.</th>
<th>Classification No.</th>
<th>Edition No.</th>
<th>Field Edited Map</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>CM-7305</td>
<td>TP-00507</td>
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**LOCALITY**

<table>
<thead>
<tr>
<th>State</th>
<th>General Locality</th>
<th>Locality</th>
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<tbody>
<tr>
<td>North Carolina</td>
<td>Cape Hatteras - Cape Lookout</td>
<td>Cape Hatteras</td>
</tr>
</tbody>
</table>

**1974 TO 1975**

**REGISTRY IN ARCHIVES**

<table>
<thead>
<tr>
<th>DATE</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# DESCRIPTIVE REPORT - DATA RECORD

**PHOTOGRAMMETRIC OFFICE**

Coastal Mapping Division, Norfolk, VA

**OFFICER-IN-CHARGE**

Jeffrey G. Carlen, CDR

## I. INSTRUCTIONS DATED

<table>
<thead>
<tr>
<th>1. OFFICE</th>
<th>2. FIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerotriangulation Sep. 3, 1974</td>
<td>Jan. 10, 1974</td>
</tr>
<tr>
<td>Compilation Nov. 6, 1974</td>
<td>Mar. 5, 1975</td>
</tr>
</tbody>
</table>

## II. DATUMS

<table>
<thead>
<tr>
<th>1. HORIZONTAL:</th>
<th>OTHER (Specify)</th>
</tr>
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<tbody>
<tr>
<td>☑ 1927 NORTH AMERICAN</td>
<td></td>
</tr>
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<table>
<thead>
<tr>
<th>2. VERTICAL:</th>
<th>OTHER (Specify)</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ MEAN HIGH-WATER</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3. MAP PROJECTION</th>
<th>4. GRID(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lambert Conformal</td>
<td>STATE: North Carolina</td>
</tr>
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<table>
<thead>
<tr>
<th>5. SCALE:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1:20,000</td>
<td></td>
</tr>
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## III. HISTORY OF OFFICE OPERATIONS

<table>
<thead>
<tr>
<th>OPERATIONS</th>
<th>METHOD</th>
<th>NAME</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. AEROTRIANGULATION</td>
<td>Analytic</td>
<td>M. McGinley</td>
<td>Oct, 1974</td>
</tr>
<tr>
<td>2. CONTROL AND BRIDGE POINTS</td>
<td>Calcomp</td>
<td>R. Robertson</td>
<td>Oct, 1974</td>
</tr>
<tr>
<td>3. STEREOSCOPIC INSTRUMENT COMPILATION</td>
<td>PLANIMETRY BY Checked by Plotted by</td>
<td>L.O. Neterer, Jr.</td>
<td>Feb, 1975</td>
</tr>
<tr>
<td></td>
<td></td>
<td>G. Vanderhaven</td>
<td>Feb, 1975</td>
</tr>
<tr>
<td></td>
<td>INSTRUMENT: Wild B-8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SCALE: 1:7,500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. MANUSCRIPT DELINEATION</td>
<td>PLANIMETRY BY Checked by Contours by</td>
<td>J. Desch</td>
<td>Feb, 1975</td>
</tr>
<tr>
<td></td>
<td></td>
<td>F. Margiotta</td>
<td>Mar, 1975</td>
</tr>
<tr>
<td></td>
<td>METHOD: Smooth drafted</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SCALE: 1:20,000</td>
<td>HYDRO SUPPORT DATA BY Checked by</td>
<td>NA</td>
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<tr>
<td></td>
<td></td>
<td>Checked by</td>
<td>NA</td>
</tr>
<tr>
<td>5. OFFICE INSPECTION PRIOR TO FIELD EDIT</td>
<td></td>
<td>F. Margiotta</td>
<td>Mar, 1975</td>
</tr>
<tr>
<td>6. APPLICATION OF FIELD EDIT DATA</td>
<td></td>
<td>D. Butler</td>
<td>Apr, 1975</td>
</tr>
<tr>
<td></td>
<td></td>
<td>F. Margiotta</td>
<td>May, 1975</td>
</tr>
<tr>
<td>7. COMPILATION SECTION REVIEW</td>
<td></td>
<td>F. Margiotta</td>
<td>May, 1975</td>
</tr>
<tr>
<td>8. FINAL REVIEW</td>
<td></td>
<td>A.L. Shands</td>
<td>Oct, 1976</td>
</tr>
<tr>
<td>9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH</td>
<td></td>
<td>A.L. Shands</td>
<td>Jan, 1977</td>
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<tr>
<td>10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH</td>
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<td></td>
<td></td>
</tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>11. MAP REGISTERED - COASTAL SURVEY SECTION</td>
<td></td>
<td>K.T. CATOK</td>
<td>3/77</td>
</tr>
</tbody>
</table>
1. **Compilation Photography**

**Camera(s):**
- Wild RC-8'E' & RC-10'C'

**Tide Stage Reference**
- X Predicted Tides
- X Reference Station Records
- X Tide Controlled Photography

**Types of Photography Legend**
- (C) Color
- (P) Panchromatic
- (I) Infrared

**Time Reference**
- ZONE: Eastern
- STANDARD 75th

<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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</thead>
<tbody>
<tr>
<td>74E(C)(1) 4437 - 4442</td>
<td>Apr. 1, 74</td>
<td>13:29</td>
<td>1:30,000</td>
<td>3.1 ft. above MLW</td>
</tr>
<tr>
<td>74E(C)(1) 4507 - 4519</td>
<td>Apr. 1, 74</td>
<td>15:48</td>
<td>1:15,000</td>
<td>2.8 ft. above MLW</td>
</tr>
<tr>
<td>74C(C)(1) 8820 - 8823</td>
<td>Apr. 1, 74</td>
<td>14:20</td>
<td>1:60,000</td>
<td>+0.2 ft. of MHW</td>
</tr>
<tr>
<td>74C(C)(1) 8881 - 8884</td>
<td>Apr. 3, 74</td>
<td>10:15</td>
<td>1:60,000</td>
<td>+0.2 ft. of MLW</td>
</tr>
</tbody>
</table>

**Remarks**
* Tide coordinated photographs

2. **Source of Mean High-Water Line:**

The mean high water line was compiled graphically from the above listed tide coordinated photographs taken at mean high water.

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

The mean low water line was compiled graphically from the above listed tide coordinated photographs taken at mean low water.

4. **Contemporary Hydrographic Surveys** *(List only those surveys that are sources for photogrammetric survey information.)*

<table>
<thead>
<tr>
<th>Survey Number</th>
<th>Date(s)</th>
<th>Survey Copy Used</th>
<th>Survey Number</th>
<th>Date(s)</th>
<th>Survey Copy Used</th>
</tr>
</thead>
</table>

5. **Final Junctions**

- **North:** PH-6309
- **East:** T-12440
- **South:** No survey
- **West:** TP-00508

**Remarks**
### History of Field Operations

<table>
<thead>
<tr>
<th>Operation</th>
<th>Name</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>2. Horizontal Control</td>
<td>R. Tibbetts</td>
<td>Aug, 1974</td>
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#### Source Data

<table>
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<tr>
<th>Photo Number</th>
<th>Station Name</th>
<th>Station Designation</th>
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<tr>
<td>74E(C)(1)4441</td>
<td>CAPE HATTERAS LORAN MAST,1949</td>
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<tr>
<td>74E(C)(1)4511</td>
<td>KINNA, 1962</td>
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<tr>
<td>74E(C)(1)4508</td>
<td>AVON, 1962</td>
<td></td>
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<tr>
<td>74E(C)(1)4438</td>
<td>BILLY, 1962</td>
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</table>

#### Supplemental Maps and Plans

None

#### Other Field Records (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

4 Forms 152 Control Station Identification
3 Forms 526 Recovery Note
### HISTORY OF FIELD OPERATIONS

#### 1. FIELD INSPECTION OPERATION

<table>
<thead>
<tr>
<th>OPERATION</th>
<th>NAME</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. CHIEF OF FIELD PARTY</td>
<td>R.S. Tibbetts</td>
<td>April, 1975</td>
</tr>
<tr>
<td>2. HORIZONTAL CONTROL</td>
<td>R.E. Kesselring</td>
<td>April, 1975</td>
</tr>
<tr>
<td>3. VERTICAL CONTROL</td>
<td>R.S. Tibbetts</td>
<td>April, 1975</td>
</tr>
<tr>
<td>4. LANDMARKS AND AID TO NAVIGATION</td>
<td>R.E. Kesselring</td>
<td>April, 1975</td>
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#### 5. GEOGRAPHIC NAMES INVESTIGATION

<table>
<thead>
<tr>
<th>TYPE OF INVESTIGATION</th>
<th>BY</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPLETE</td>
<td>NA</td>
</tr>
<tr>
<td>SPECIFIC NAMES ONLY</td>
<td>NA</td>
</tr>
<tr>
<td>NO INVESTIGATION</td>
<td>NA</td>
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</table>

#### 6. PHOTO INSPECTION

<table>
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<tr>
<th>CLARIFICATION OF DETAILS</th>
<th>BY</th>
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<tbody>
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#### 7. BOUNDARIES AND LIMITS

<table>
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<tr>
<th>SURVEYED OR IDENTIFIED</th>
<th>BY</th>
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#### II. SOURCE DATA

<table>
<thead>
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<th>PHOTO NUMBER</th>
<th>STATION NAME</th>
<th>PHOTO NUMBER</th>
<th>STATION DESIGNATION</th>
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<tbody>
<tr>
<td>74E(c)(1)8881</td>
<td>07-01 (Used to locate Nautical Landmark)</td>
<td>NA</td>
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</table>

#### 3. PHOTO NUMBERS ( Clarification of details)

<table>
<thead>
<tr>
<th>PHOTO NUMBER</th>
<th>OBJECT NAME</th>
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</thead>
<tbody>
<tr>
<td>74E(c)(1)8881</td>
<td>TANK</td>
</tr>
<tr>
<td>74E(c)(8881</td>
<td>TOWER</td>
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<tr>
<td>74E(c)(8881</td>
<td>TOWER</td>
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<tr>
<td>74E(c)(8881</td>
<td>RADOME</td>
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</table>

#### 5. GEOGRAPHIC NAMES: REPORT

| 6. BOUNDARY AND LIMITS: REPORT
| NONE |

#### 7. SUPPLEMENTAL MAPS AND PLANS

None

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

2 Form 76-40 Landmarks and Aids
5 Form 76-53 Control Station Identification
1 Field Edit Ozalid
1 Field Edit Report
NOAA FORM 76-36D
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

TP-00507
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

<table>
<thead>
<tr>
<th>DATA COMPILED</th>
<th>DATE</th>
<th>REMARKS</th>
<th>MARINE CHARTS</th>
<th>HYDRO SUPPORT</th>
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</thead>
<tbody>
<tr>
<td>Compilation complete, pending field edit</td>
<td>Feb, 1975</td>
<td>Class III Manuscript</td>
<td>Mar 7,1975</td>
<td>Mar 5,1975</td>
</tr>
<tr>
<td>Field Edit applied. Compilation complete</td>
<td>Apr, 1975</td>
<td>Class I Manuscript</td>
<td>May 12,1975</td>
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</table>

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>CHART LETTER NUMBER</th>
<th>DATE FORWARDED</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>1</td>
<td></td>
<td>May 15,1975</td>
<td>Nonfloating Aid for Charts</td>
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<td>1</td>
<td></td>
<td>May 15,1975</td>
<td>Landmarks for Charts</td>
</tr>
</tbody>
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2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: May 15, 1975
3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED:

III. FEDERAL RECORDS CENTER DATA

1. BRIDGING PHOTOGRAPHS; DUPLICATE BRIDGING REPORT.
2. CONTROL STATION IDENTIFICATION CARDS; FORM NOSOX 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)

<table>
<thead>
<tr>
<th>SECOND EDITION</th>
<th>SURVEY NUMBER</th>
<th>JOB NUMBER</th>
<th>TYPE OF SURVEY</th>
<th>MAP CLASS</th>
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<tbody>
<tr>
<td></td>
<td>TP - (2)</td>
<td>PH -</td>
<td>REVISED</td>
<td>RESURVEY</td>
</tr>
<tr>
<td></td>
<td>DATE OF PHOTOGRAPH</td>
<td>DATE OF FIELD EDIT</td>
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</table>

<table>
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<tr>
<th>THIRD EDITION</th>
<th>SURVEY NUMBER</th>
<th>JOB NUMBER</th>
<th>TYPE OF SURVEY</th>
<th>MAP CLASS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TP - (3)</td>
<td>PH -</td>
<td>REVISED</td>
<td>RESURVEY</td>
</tr>
<tr>
<td></td>
<td>DATE OF PHOTOGRAPH</td>
<td>DATE OF FIELD EDIT</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| FOURTH EDITION | SURVEY NUMBER | JOB NUMBER | TYPE OF SURVEY | MAP CLASS |
|               | TP - (4)      | PH -       | REVISED | RESURVEY | FINAL |
|               | DATE OF PHOTOGRAPH | DATE OF FIELD EDIT |          |          |       |
SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORTS
TP-00507 thru TP-00514

Project 7305 is the most northerly of several projects which make up the Southern Coastal Plains Expedition (SCOPE). It consists of eight (8) 1:20,000 scale manuscripts covering the outer coastline from Cape Hatteras south to a position just north of Cape Lookout. The original instructions dated November 6, 1974 Item 5.01 called for the compilation of "standard shoreline maps". None of the manuscripts in this project can be considered "standard shoreline maps" because in each case only the outer shoreline which borders the Atlantic Ocean was delineated.

To facilitate bridging and the setting of stereo models on the Wild B-8 stereo-plotter it was necessary to fly photography at 1:15,000, 1:20,000 and 1:30,000 scales because most of the area consists of a very narrow coastal band. In addition, 1:60,000 scale tide coordinated photography was flown at mean high and mean low water from which the mean high and mean low water lines were graphically delineated. (See Item 31 of the Compilation Report). All photography was taken with the RC-8 and RC-10 cameras using color infrared film.

Field work prior to compilation consisted of pre-marking and recovery of horizontal control for bridging and the observation and recording of tide data.

Bridging was done in the Rockville office using the Wild STK-1 in October, 1974. Ratio prints of the 1:60,000 scale tide coordinated photography were ordered at that time.
Compilation was done at the Atlantic Marine Center in April, 1975. Models of the bridging photography were set on the Wild B-8 stereo-plotter from which details above the MHWL were compiled and points common to the tide coordinated ratios were dropped. The MHWL and MLWL were delineated graphically using the tide coordinated ratios supplied for that purpose.

Field edit was accomplished during February through April, 1975.

Final review was done in October, 1976 at the Atlantic Marine Center.

The original stabilene base manuscripts, each 10 minutes in latitude and 10 minutes in longitude, were forwarded to the Rockville office for reproduction of registration copies.
No field inspection report was submitted.
21. **Area Covered**

This project covers the shoreline from Cape Lookout to just north of Cape Hatteras. Included are eight T-sheets (TP-00507 thru TP-00514). All sheets are 1:20,000 scale.

22. **Method**

Five strips of color IR photography with varying scales were bridged on the Wild STK-1 in order to obtain pass point positions and exact scale ratios to be used during compilation.

Strip 1 (1:15,000 scale) was adjusted on four field-identified triangulation stations with one additional triangulation station and two tie points as checks. Strip 2 (1:20,000 scale) was adjusted on five field-identified triangulation stations with three additional triangulation stations and six tie points as checks. Strip 3 (1:30,000 scale) was adjusted on three field-identified triangulation stations with one additional triangulation station and four tie points as checks. Strip 4 (1:30,000) was adjusted on four field-identified triangulation stations and one tie point with five additional triangulation stations and nine tie points as checks. Strip 5 (1:15,000 scale) was adjusted on three field-identified triangulation stations and one tie point with seven additional triangulation stations and five tie points as checks. All adjustments were performed on the IBM 6600. All sheets were ruled and plotted on the Coradomat.

1:20,000 scale ratios were ordered.

23. **Adequacy of Control**

The horizontal control utilized in the adjustments held within National Map Accuracy.

24. **Supplemental Data**

Vertical control for bridging only was obtained from local USGS quads.

25. **Photography**

Photography was adequate as to overlap, definition, and coverage.
Note to Compiler

Strip 3 could not be bridged beyond model 74-E(C)-4420/4421. Image points were selected for pass points on photo 4421 to be used for scaling and orientating the photo for delineating the point of land not covered in the bridge. The image points selected are pricked on contact print 4421. A ratio photo of 4421 was ordered at 1:20,000.
Bridging Photography

Strip 1 1:50,000 Scale 74-G(6) 44772 thru 4500R
Strip 2 1:20,000 4448R 4473R
Strip 3 1:10,000 4413R 4425R
Strip 4 1:10,000 4430R 4442E
Strip 5 1:50,000 4505R 4519R

MLW 74-G(6) 9021R thru 9034R
BB81R BB30R
MLW 74-G(6) BB13R thru BB23R
BB94R BB06R

Sheet II
<table>
<thead>
<tr>
<th>STATION NAME</th>
<th>SOURCE OF INFORMATION</th>
<th>AEROTRIANGULATION POINT NUMBER</th>
<th>GEOGRAPHIC POSITION</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAPE HATTERAS Lighthouse, 1933</td>
<td>G.P. Vol III</td>
<td>P. 3087</td>
<td>x=</td>
<td>524.6 (1324.1)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>y=</td>
<td>404.0 (1112.8)</td>
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<tr>
<td>CAPE HATTERAS LORAN Mast, 1949</td>
<td>G.P. Vol III</td>
<td>P. 3094</td>
<td>x=</td>
<td>799.0 (1050.0)</td>
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<td></td>
<td></td>
<td></td>
<td>y=</td>
<td>955.8 (561.3)</td>
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<tr>
<td>KINNA, 1962</td>
<td>G.P. Vol III</td>
<td>P. 3090</td>
<td>x=</td>
<td>266.0 (1583.1)</td>
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<td></td>
<td>y=</td>
<td>1073.8 (441.7)</td>
</tr>
<tr>
<td>BUXTON NATIONAL PARK</td>
<td>G.P. Vol III</td>
<td>P. 3094</td>
<td>x=</td>
<td>152.2 (1696.8)</td>
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<tr>
<td>SERVICE WATER TANK, 1962</td>
<td></td>
<td></td>
<td>y=</td>
<td>606.7 (910.1)</td>
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<tr>
<td>JUNIPER, 1962</td>
<td>G.P. Vol III</td>
<td>P. 3086</td>
<td>x=</td>
<td>687.4 (1161.6)</td>
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<td>y=</td>
<td>979.4 (537.7)</td>
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<tr>
<td>BILLY, 1962</td>
<td>G.P. Vol III</td>
<td>P. 3085</td>
<td>x=</td>
<td>1505.2 (343.8)</td>
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<td>y=</td>
<td>312.9 (1204.1)</td>
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<tr>
<td>CREEDS HILL COAST GUARD Tower, 1938</td>
<td>G.P. Vol II</td>
<td>P. 581</td>
<td>x=</td>
<td>858.9 (990.1)</td>
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<td></td>
<td></td>
<td></td>
<td>y=</td>
<td>728.8 (788.6)</td>
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</tbody>
</table>

COMPUTED BY                        | A. C. Rauck, Jr.     | DATE: 11/7/74                    |
LISTED BY                          |                      | DATE:                            |
HAND PLOTTING BY                   |                      | DATE:                            |
COMPUTATION CHECKED BY             | F. Margiotta         | DATE: 11/8/74                    |

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.
31. **DELINEATION:**

Except for the mean high water line and mean low water line, all details were delineated with the Wild B-8 stereoplotter using 1:15,000 and 1:30,000 scale photography. The mean high water line and mean low water line were delineated graphically using 1:60,000 scale tide coordinated infrared photography ratioed to map scale.

32. **CONTROL**

See the attached Photogrammetric Plot Report, dated October, 1974.

Points were dropped in the B-8 models common to the tide coordinated ratios to control the graphic delineation of the mean high water line and mean low water line.

33. **SUPPLEMENTAL DATA**

None

34. **CONTOURS AND DRAINAGE**

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

35. **SHORELINE AND ALONGSHORE DETAILS**

The shoreline and all alongshore details were delineated by office interpretation of the photographs.

See Item 31 above.

36. **OFFSHORE DETAILS**

None.
37. LANDMARKS AND AIDS:

Copies of Form 76-40 were forwarded to the field editor for verification, deletion and confirmation.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

See the attached Form 76-36b, Item No. 5 of the Descriptive Report concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with the following U. S. Geological Survey Quadrangles: Hatteras, Cape Hatteras and Buxton, N. C., all scale 1:24,000, dated 1950, photorevised 1971.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following National Ocean Survey charts: 11555, scale 1:80,000, 21st edition, dated August 31, 1974.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.
Submitted by:

Joanne Desch
Cartographic Aid
February 24, 1975

Approved:

Albert C. Rauck, Jr.
Chief, Coastal Mapping Section
ADDENDUM TO THE COMPILATION REPORT
TP-00507

FIELD EDIT:

Field edit was adequate.
22 Oct. 1975

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7305 (Cape Hatteras to Cape Lookout, N.C.)

TP-00507

Atlantic Ocean

Cape Hatteras

Cape Point

Hatteras Bight

Hatteras Island

Raleigh Bay

Approved

Chas. E. Harrington
Staff Geographer--C51x2
PHOTOGRAMMETRIC OFFICE REVIEW

1. PROJECTION AND GRIDS
   FM

2. TITLE
   FM

3. MANUSCRIPT NUMBERS
   FM

4. MANUSCRIPT SIZE
   FM

CONTROL STATIONS

5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY
   FM

6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations)
   NA

7. PHOTO HYDRO STATIONS
   NA

8. BENCH MARKS
   NA

9. PLOTTING OF SEXTANT FIXES
   XX

10. PHOTOGRAMMETRIC PLOT REPORT
    FM

11. DETAIL POINTS
    FM

ALONGSHORE AREAS (Nautical Chart Data)

12. SHORELINE
    FM

13. LOW-WATER LINE
    FM

14. ROCKS, SHOALS, ETC.
    FM

15. BRIDGES
    FM

16. AIDS TO NAVIGATION
    FM

17. LANDMARKS
    FM

18. OTHER ALONGSHORE PHYSICAL FEATURES
    FM

19. OTHER ALONGSHORE CULTURAL FEATURES
    FM

PHYSICAL FEATURES

20. WATER FEATURES
    FM

21. NATURAL GROUND COVER
    NA

22. PLANETARY CONTOURS
    NA

23. STEREOSCOPIC INSTRUMENT CONTOURS
    NA

24. CONTOURS IN GENERAL
    NA

25. SPOT ELEVATIONS
    NA

26. OTHER PHYSICAL FEATURES
    FM

CULTURAL FEATURES

27. ROADS
    FM

28. BUILDINGS
    FM

29. RAILROADS
    FM

30. OTHER CULTURAL FEATURES
    FM

BOUNDARIES

31. BOUNDARY LINES
    NA

32. PUBLIC LAND LINES
    NA

MISCELLANEOUS

33. GEOGRAPHIC NAMES
    FM

34. JUNCTIONS
    FM

35. LEGIBILITY OF THE MANUSCRIPT
    FM

36. DISCREPANCY OVERLAY
    XX

37. DESCRIPTIVE REPORT
    FM

38. FIELD INSPECTION PHOTOGRAPHS
    XX

39. FORMS
    FM

40. REVIEWER
    F. Margiotta

   March, 1975

   A. 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: David Butler
   Apr 28, 1975

SUPERVISOR: Albert C. Rauck, Jr.

Reviewer: F. Margiotta
   May 6, 1975

A. C. Rauck, Jr.

43. REMARKS

See Form 76-36C (field edit operation) for field edit data sources.
FIELD EDIT REPORT
CAPE LOCKOUT TO CAPE HATTERAS, N.C.
JOB CM 7305
MAP TP-00507

52. Adequacy of Compilation

Compilation was adequate. The MHNW was accepted as compiled in
in accordance with instructions received from the Chief, Coastal Mapping
Division, dated May 28, 1974. No significant changes in the shoreline
were noted during field edit. A road, near Cape Hatteras Loran Mast,
1947 is actually just an abandoned road bed with chunks of asphalt lying
on it. It is not used by vehicles. A campground and a landing field
were overlooked near the western edge of the map. Attention was drawn
to them on the field edit ozalid with appropriate cross-references.

54. Recommendations

There are no recommendations.

56. Landmarks and Non-Floating Aids for Navigation

There are five landmarks on this map. One of them was compiled,
the others were photoidentified. The compiled landmark was entered as
"position verified" on the form 76-40 furnished the field editor by the
compiling activity the other four were entered on Form 76-53, and Form
76-40, indicated on the field edit ozalid and cross-referenced to the
proper photograph.

There is only one fixed aid within the compiled limits of this map,
Cape Hatteras Light. It was entered as "triangulation recovered" on
the Form 76-40 furnished by compilation.

57. Rocks, Reefs, and Shoals

There are no rocks or reefs, as defined, within the compiled limits
of this map. There is an extensive shoal extending southerly off of
Cape Point called Diamond Shoals. This area was not compiled and the
field editor decided to leave its delineation to the hydrographer.

58. Photography

Photography consisted of 1:20,000 ratio prints of color infrared
photography. The prints were of poor resolution and made field identi-
ification difficult.
39. Disposition of Data

The field edit ozalid, the film ozalid, the photographs and all pertinent data were sent to the Director, Atlantic Marine Center for proper dissemination.

Richard E. Kesselring
Surveying Technician
Photo Party 62
April 17, 1975
### Nonfloating Aids for Charts

**Opr Project No.**: L37  
**Job Number**: CM-7305  
**Survey Number**: TP-00507  
**Datum**: N.A.1927  
**Method and Date of Location**: (See Instructions on reverse side)

<table>
<thead>
<tr>
<th>Charting Name</th>
<th>Description</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Office</th>
<th>Field</th>
</tr>
</thead>
</table>
| **LIGHT**     | Cape Hatteras Light  
                | (Cape Hatteras Lighthouse, 1933) |          |          |        |       |
|               |             | 35-15    | 75-31     |        |       |
|               |             | 52t.6    | 104.0     |        |       |

**Charts Affected**: 1232
### Charting Name

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<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
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</thead>
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<tr>
<td>MICRO TOWER</td>
<td>Three legged, steel, obstruction</td>
<td>O.K.</td>
<td>00.55</td>
</tr>
<tr>
<td></td>
<td>lighted Ht. = 228 (235)</td>
<td></td>
<td>75-32</td>
</tr>
<tr>
<td>TANK</td>
<td>Double ellipsoidal, obstruction</td>
<td>O.K.</td>
<td>58.08</td>
</tr>
<tr>
<td></td>
<td>lighted Ht. = 128 (135)</td>
<td></td>
<td>75-32</td>
</tr>
<tr>
<td>RADOME</td>
<td>Steel Ht. = 72 (78)</td>
<td>O.K.</td>
<td>52.73</td>
</tr>
<tr>
<td>TOWER</td>
<td>Three legged, steel, obstruction</td>
<td>O.K.</td>
<td>43.51</td>
</tr>
<tr>
<td></td>
<td>lighted Ht. = 425 (432)</td>
<td></td>
<td>75-32</td>
</tr>
<tr>
<td>LORAN TOWER</td>
<td>(Cape Hatteras Loran Mast, 1949)</td>
<td>O.K.</td>
<td>25.926</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>75-31</td>
</tr>
<tr>
<td>TANK</td>
<td>Double ellipsoidal, steel, Ht. = 89 (98)</td>
<td>O.K.</td>
<td>59.93</td>
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<td></td>
<td></td>
<td>75-37</td>
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### Method and Date of Location

- 74E(C)(I)8881
- Apr. 3, 1974
- 74E(C)(I)8881
- Apr. 14, 1975
- 74E(C)(I)4517
- Apr. 1, 1974
- 74E(C)(I)438
- Apr. 1, 1974
- 74E(C)(I)8881
- Apr. 14, 1975
61. GENERAL STATEMENT:

See Summary which is Pages 6 and 6a of this Descriptive Report.

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

Several marsh areas, ditches and ponds at Cape Hatteras were delineated during final review to add to the completeness of the compilation. A portion of N.C. Route 12 running east-west across Cape Hatteras was deleted as it is outside the limits of compilation of this shoreline map.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with a copy of Topographic Manuscript T-8717 s/2, 1:10,000 scale, dated 1947, and Shoreline Manuscripts T-12440 and T-12442, each 1:20,000 scale dated 1965. Significant differences are noted on the comparison print in blue pencil.

In the area compared, TP-00507 supersedes the above mentioned surveys which are the latest registered surveys of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangles Buxton, Cape Hatteras and Hatteras, N.C. dated 1950. All are 1:24,000 scale and were photorevised in 1970. Significant differences are noted on the comparison print in brown pencil.
64. **COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:**

No comparison was made. The contemporary hydrographic surveys were not available at the Atlantic Marine Center at the time of final review. This reviewer was informed by the Verification Branch, Atlantic Marine Center that these surveys do not include inshore soundings above the 14 foot depth. It was concluded, therefore, that this circumstance would not permit a meaningful comparison.

65. **COMPARISON WITH NAUTICAL CHARTS:**

A comparison was made with Chart 11555, 22nd edition, dated September 6, 1975, scale 1:80,000. Significant differences are noted on the comparison print in red pencil.

66. **ADEQUACY OF RESULTS AND FUTURE SURVEYS:**

This map complies with Office Instructions CM-7305, dated November 6, 1974, except that it is not a standard shoreline map. (See first paragraph of Summary). This map meets the requirements for Bureau Standards and the National Standards of Map Accuracy.

Submitted:
A.L. Shands
Cartographer
October 20, 1976

Approved for forwarding:
Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:
Chief, Photogrammetric Branch
Chief, Coastal Mapping Div.
This leaves appears on photos to be man-made
with 10ft contour on Quad.

TP-00507
Comparison Print
1:20,000 Scale

Brown lines from Quad
Blue lines from Registered Surveys
Red lines from Charts
This feature appears on Photos 74 E(CI) 4509-4516 to be a man made dune line. It coincides with 10 ft contour on Quad.

TP-00507
Comparison Print
1:20,000 Scale

Brown lines from Quad
Blue lines from Registered Surveys
Red lines from Chart

CAPE HATTERAS LIGHT
(CAPE HATTERAS LIGHTHOUSE, 1933)
Examination of photos 74E (c1) 4438 + 4439 does not reveal the existence of marsh here
# 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>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1232</td>
<td>6/72</td>
<td>H. Perez</td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No. 39 Rev O.K.</td>
</tr>
<tr>
<td>1233</td>
<td>11/72</td>
<td>W. Charles</td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No. 37 Rev O.K.</td>
</tr>
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<td>1234</td>
<td></td>
<td></td>
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