This map will not be field checked

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>TP-00855</td>
<td>1</td>
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</tbody>
</table>

Job No. CM-7405
Map Classification III
Type of Survey Shoreline

LOCALITY

State New York
General Locality Hudson River
Locality Castleton-on-Hudson

1975 TO 19

REGISTRY IN ARCHIVES
DATE
MAP NOT INSPECTED BY
QUALITY CONTROL OF PHOTOGRAMMETRY BRANCH
PRIOR TO REGISTRATION
### DESCRIPTIVE REPORT - DATA RECORD

**PHOTOMMETRIC OFFICE**

Rockville, Md.

**OFFICER-IN-CHARGE**

Lawrence W. Fritz

#### I. INSTRUCTIONS DATED

1. **OFFICE**
   - Aerotriangulation Sept. 4, 1975
   - Compilation May 19, 1982

2. **FIELD**
   - Field April 2, 1975
   - Supplemental 1 April 15, 1975

#### II. DATUMS

1. **HORIZONTAL:**
   - 1927 North American

2. **VERTICAL:**
   - Mean High Water

   Hudson River Datum

#### III. HISTORY OF OFFICE OPERATIONS

<table>
<thead>
<tr>
<th>OPERATIONS</th>
<th>LANDMARKS AND AIDS</th>
<th>METHOD:</th>
<th>CHECKED BY</th>
<th>DATE</th>
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<tbody>
<tr>
<td>1. AEROTRIANGULATION</td>
<td></td>
<td>Analytic</td>
<td>D. Norman</td>
<td>12/4/75</td>
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<tr>
<td>2. CONTROL AND BRIDGE POINTS</td>
<td></td>
<td>Corodomat</td>
<td>J. Ferrow</td>
<td>12/4/75</td>
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<tr>
<td>3. STEREOSCOPIC INSTRUMENT COMPOSITION</td>
<td></td>
<td>E-8</td>
<td>J. Schad</td>
<td>9/82</td>
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<td>4. MANUSCRIPT DELINEATION</td>
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<td>Smooth Drafted</td>
<td>E. Dempsey</td>
<td>9/82</td>
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<td>5. OFFICE INSPECTION PRIOR TO FIELD EDIT</td>
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<td>2/83</td>
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<td>6. APPLICATION OF FIELD EDIT DATA</td>
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<td></td>
<td>N/A</td>
<td>7/84</td>
</tr>
<tr>
<td>7. COMPILATION SECTION REVIEW</td>
<td></td>
<td></td>
<td>E. D. Allen</td>
<td></td>
</tr>
<tr>
<td>8. FINAL REVIEW</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. DATA forwarded TO PHOTOGRAMMETRIC BRANCH</td>
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</tr>
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<td>10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH</td>
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<tr>
<td>11. MAP REGISTERED - COASTAL SURVEY SECTION</td>
<td></td>
<td></td>
<td>E. Daugherty</td>
<td>JUNO 1784</td>
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*U.S. G.P.O. 1972-769382/582 REG.#6*
1. Compilation Photography

<table>
<thead>
<tr>
<th>Number and Type</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
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<tr>
<td>750(C)5797 thru 5800</td>
<td>5/7/75</td>
<td>1001</td>
<td>1:60,000</td>
<td>-1.9 MHW (Castleton-on-Hudson)</td>
</tr>
<tr>
<td>75E(C)9011 Thru 9014</td>
<td>4/23/75</td>
<td>0805</td>
<td>1:20,000</td>
<td>-1.5 MHW (Castleton-on-Hudson)</td>
</tr>
<tr>
<td>75E(C)9018 thru 9020</td>
<td>4/23/75</td>
<td>0820</td>
<td>1:20,000</td>
<td>-0.8 MHW (New Baltimore)</td>
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<tr>
<td>75E(C)9021 thru 9025</td>
<td>4/23/75</td>
<td>0820</td>
<td>1:20,000</td>
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</table>

Remarks: Stage of tide computed at station listed above based on Albany reference station records.

2. Source of Mean High-Water Line:

The MHW line was interpreted from the 1:20,000 photographs listed in item 1 above.

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

N/A

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

5. Final Junctions

<table>
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<th>North</th>
<th>East</th>
<th>South</th>
<th>West</th>
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<td>TP-00854</td>
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<td>TP-00856</td>
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Remarks
## HISTORY OF FIELD OPERATIONS

### 1. FIELD:  
- **OPERATION**:  
- **NAME**:  
- **DATE**:  

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<th>Name</th>
<th>Date</th>
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<tbody>
<tr>
<td>1.</td>
<td>CHIEF OF FIELD PARTY</td>
<td>Robert S Tibbetts</td>
<td>4/75</td>
</tr>
<tr>
<td>2.</td>
<td>HORIZONTAL CONTROL</td>
<td>Lawrence H Davis</td>
<td>4/75</td>
</tr>
<tr>
<td>3.</td>
<td>VERTICAL CONTROL</td>
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<tr>
<td>4.</td>
<td>LANDMARKS AND AIDS TO NAVIGATION</td>
<td>N.A.</td>
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</tr>
<tr>
<td>5.</td>
<td>GEOGRAPHIC NAMES INVESTIGATION</td>
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<tr>
<td>6.</td>
<td>PHOTO INSPECTION</td>
<td>N.A.</td>
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<tr>
<td>7.</td>
<td>BOUNDARIES AND LIMITS</td>
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### 11. SOURCE DATA

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<th>2. VERTICAL CONTROL IDENTIFIED</th>
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<thead>
<tr>
<th>PHOTO NUMBER</th>
<th>STATION NAME</th>
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<tbody>
<tr>
<td>N/A</td>
<td>Star 1934 Sub Ptl</td>
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</tbody>
</table>

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

- **NONE**

### 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

- **NONE**

### 5. GEOGRAPHIC NAMES

- **REPORT** | **NONE**

### 6. BOUNDARY AND LIMITS

- **REPORT** | **NONE**

### 7. SUPPLEMENTAL MAPS AND PLANS

- **NONE**

### 8. OTHER FIELD RECORDS

- *Form 266, Form 76-53, with qual. cut-out attached.*
# RECORD OF SURVEY USE

## I. MANUSCRIPT COPIES

<table>
<thead>
<tr>
<th>DATA COMPILED</th>
<th>COMPILATION STAGES</th>
<th>DATE MANUSCRIPT FORWARDED</th>
<th>MARINE CHARTS</th>
<th>HYDRO SUPPORT</th>
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<tr>
<td>Shoreline and alongshore detail</td>
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<td>Final Reviewed Map</td>
<td>Class III manuscript</td>
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## II. LANDMARKS AND AIDS TO NAVIGATION

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

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<th>NUMBER</th>
<th>CHART LETTER NUMBER</th>
<th>DATE FORWARDED</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>3</td>
<td>185</td>
<td>OCT 15 1984</td>
<td>LDAMS &amp; AIDS TO NAVIGATION 76-40</td>
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</table>

## 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.

## 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>
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<td>II. III. IV. V. FINAL</td>
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<td>DATE OF FIELD EDIT</td>
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<td>RESURVEY</td>
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<th>JOB NUMBER</th>
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<th>MAP CLASS</th>
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<tr>
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<td>REVISED</td>
<td>II. III. IV. V. FINAL</td>
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<tr>
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<tr>
<td>DATE OF PHOTOGRAPH</td>
<td>DATE OF FIELD EDIT</td>
<td></td>
<td>RESURVEY</td>
<td></td>
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SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT
TP-00855

This 1:20,000-scale shoreline map is one of seven maps in project CM-7405 which covers the shoreline of the Hudson River from Poughkeepsie to Troy, New York.

Field operations consisted of aerial photography and recovery, establishment, and premarking of horizontal control necessary for aerotriangulation.

Natural color photography was taken in 1975 at scales of 1:60,000 and 1:20,000. Basic aerotriangulation and compilation photographs (1:60,000 scale) were taken with the Wild RC-10(C) camera. Supplemental color photographs (1:20,000 scale) were taken with the Wild RC-8(E) camera for use in shoreline delineation.

Two strips of 1:60,000-scale photographs were bridged using analytic aerotriangulation methods. Sufficient tie points were selected between the bridged and 1:20,000-scale photographs for compilation by either instrument or graphic methods. The aerotriangulation control proved adequate and met the National Standards of Map Accuracy.

Tidal stages concurrent with photographs (1:20,000 scale) were furnished by the Corps of Engineers. This data is based on the Hudson River Datum and was used in determining the tidal stage at the Albany gage site.

Compilation was performed by Coastal Mapping Unit, Rockville, Maryland. The map delineation was based on office interpretation of 1:60,000-scale natural color photographs. Graphic compilation methods using the supplemental photographs (1:20,000 scale) was employed to compile the high water line and to complement the interpretation of other detail. When features were too small or too numerous to show at scale, no attempt was made to show all. Instead, a representative pattern of the symbol or area outline was shown, augmented by an explanatory note.

Final review was performed by Coastal Mapping Unit (Rockville, Maryland). This map was found to be satisfactory and meets requirements of the National Standards of Map Accuracy.
FIELD INSPECTION

TP-00855

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aeroetriangulation of the project.
Photogrammetric Plot Report
Hudson River
Poughkeepsie to Troy
New York
CM-7405
December 4, 1975

21. Area Covered: This report pertains to the Hudson River between Poughkeepsie and Troy, New York. The sheets are TP-00853 through TP-00859. All are 1:20,000 scale.

22. Method: Two strips of color photography at 1:60,000 scale were bridged by analytic aerotriangulation methods and adjusted to ground in the New York East zone state plane coordinated system. Points were established for determining ratios of 1:20,000 scale support photography. Points for setting models were plotted on the Coradomat.

23. Adequacy of Control: The control was adequate.

24. Supplemental Data: U.S.G.S. topographic quadrangles were used to determine elevation for strip adjustment.

25. Photography: The photography was adequate.

Submitted by
Don O. Norman

Approved by,
John D. Perrow, Jr.
Chief, Aerotriangulation Section
AEROTRIANGULATION SKETCH
HUDSON RIVER
POUGHKEEPSIE TO TROY
NEW YORK
JOB CM-7405
DECEMBER, 1975

Obridging photography
1:60000 scale 75C(c)
oratio photography
1:20000 scale 75E(c)
<table>
<thead>
<tr>
<th>STATION NAME</th>
<th>SOURCE OF INFORMATION</th>
<th>AEROTRIANGULATION POINT NUMBER</th>
<th>COORDINATES IN FEET</th>
<th>GEOGRAPHIC POSITION</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>Van Wies Point Dike Light, 1934</td>
<td>G.F. Vol 1 Pg 402</td>
<td>30</td>
<td>x=</td>
<td>φ 42° 34' 38.857&quot;</td>
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<tr>
<td>Staats Point Light, 1934</td>
<td>G.F. Vol 1 Pg 401</td>
<td>797110</td>
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<td>λ 73° 45' 05.250&quot;</td>
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<tr>
<td>Bear Island Light, 1934</td>
<td>G.F. Vol 1 Pg 399</td>
<td>31</td>
<td>x=</td>
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<tr>
<td>Cow Island Light, 1934</td>
<td>G.F. Vol 1 Pg 397</td>
<td>32</td>
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<td>λ 73° 45' 04.536&quot;</td>
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<td>Castleton, Sacred Heart Church, Spire, Cross, 1934</td>
<td>G.F. Vol 1 Pg 396</td>
<td>33</td>
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<td>φ 42° 32' 26.447&quot;</td>
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<td>Nine Mile Tree Light, 1934</td>
<td>G.F. Vol 1 Pg 395</td>
<td>34</td>
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<td>Coeymans Dike North Light, 1934</td>
<td>G.F. Vol 1 Pg 393</td>
<td>36</td>
<td>x=</td>
<td>φ 42° 32' 26.808&quot;</td>
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<td>Mulldike Lower End Light, 1934</td>
<td>G.F. Vol 1 Pg 394</td>
<td>35</td>
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<td>λ 73° 45' 20.933&quot;</td>
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<td>Stonehouse Bar Dike Light, 1934</td>
<td>G.F. Vol 1 Pg 389</td>
<td>42</td>
<td>x=</td>
<td>φ 42° 32' 26.808&quot;</td>
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<td>Star, 1934</td>
<td>G.F. Vol 1 Pg. 246</td>
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<td>y=</td>
<td>λ 73° 45' 20.933&quot;</td>
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COMPUTED BY: ___________________________ DATE: ____________

COMPUTATION CHECKED BY: ___________________________ DATE: ____________

LISTED BY: ___________________________ DATE: ____________

LISTING CHECKED BY: ___________________________ DATE: ____________

HAND PLOTTING BY: ___________________________ DATE: ____________

HAND PLOTTING CHECKED BY: ___________________________ DATE: ____________
<table>
<thead>
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<th>STATION NAME</th>
<th>SOURCE OF INFORMATION</th>
<th>AEROTRIANGULATION POINT NUMBER</th>
<th>COORDINATES IN FEET</th>
<th>GEODETIC DATUM</th>
<th>ORIGINATING ACTIVITY</th>
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<tbody>
<tr>
<td>Five Hook Island Light, 1934</td>
<td>G.P. Vol 1 Pg 392</td>
<td>37</td>
<td>x=</td>
<td>N.A. 1927</td>
<td>Compilation</td>
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<td></td>
<td></td>
<td></td>
<td>y=</td>
<td></td>
<td></td>
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<tr>
<td>New Baltimore Reformed Church, Spire, 1934</td>
<td>G.P. Vol 1 Pg 390</td>
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<td>x=</td>
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<td></td>
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**COORDINATES IN FEET**

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<tr>
<td>New York</td>
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**GEODETIC POSITION**

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<tr>
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<th>Longitude</th>
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</thead>
<tbody>
<tr>
<td>42° 27' 48.310&quot;</td>
<td>73° 46' 55.510&quot;</td>
</tr>
</tbody>
</table>

**REMARKS**

- \( x = \) 
- \( y = \) 
- \( \phi = \) 
- \( \lambda = \)

**COMPUTED BY**

- A.C. Bauck, Jr.

**LISTED BY**

- A.C. Bauck, Jr.

**HAND PLOTTING BY**

- A.C. Bauck, Jr.

**COMPUTATION CHECKED BY**

- F. Mauldin

**LISTING CHECKED BY**

- F. Mauldin

**HAND PLOTTING CHECKED BY**

- F. Mauldin

**DATE**

- 7/15/71
- 7/21/77

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

Planimetry was compiled from the natural color photographs using the Wild B-8 stereoplotter. There was no mean high water or mean low water tide-coordinated infrared photographs. All detail was compiled from 1:60,000-scale bridging photographs and verified with black and white 1:20,000-scale photographs.

32. Control

See attached Photogrammetric Plot Report dated December 4, 1975. Vertical control was taken from USGS quadrangles.

33. Supplemental Data - None

34. Contours and Drainage

Contours not applicable. Drainage was delineated using the Wild B-8 stereoplotter.

35. Shoreline and Alongshore Detail

The shoreline was delineated and alongshore detail identified by office interpretation of the bridging photographs. These photographs were adequate in the photointerpretation of this map. No field inspection was made prior to map compilation.

36. Offshore Detail

Several lights, breakwater features, and trees offshore of Shad Island were identified from the 1975 photographs. Except for the lights and breakwaters the trees do not appear on Chart 12348.

37. Landmarks and Aids

Only one landmark (Spire) falls on this map. The Spire was verified using the Wild B-8 stereoplotter. A tower, approximate position, could not be located at charted position. A standpipe, tank, and spire were identified for possible landmark value. All aids shown on the chart were identified, but the positions shown are taken from the 1975 photographs.

38. Control for Future Surveys - None
39. **Junctions**
Refer to NOAA Form 76-36B, Item 5.

40. thru 45. **Not Applicable**

46. **Comparison with Existing Maps**

USGS quadrangles:
- Delma, N.Y., 1953, Scale 1:24,000
- East Greenbush, N.Y., 1953, Scale 1:24,000
- Ravena, N.Y., 1953, Scale 1:24,000

47. **Comparison with Nautical Charts**

12348, Scale 1:40,000, 28th Edition, dated March 13, 1982

Submitted by,

James Schad

Approved and Forwarded:

Frank Wright
Chief, Coastal Mapping Section
61. GENERAL STATEMENT

The shoreline and alongshore were compiled from office interpretation of the natural color photographs (1:60,000 scale) using the Wild B-8 stereoplotter. To complement and aid these photographs in the interpretation of the high water line, the 1:20,000-scale photographs were used graphically. Tidal data concurrent with the 1:20,000-scale photographs, based on the Hudson River Datum, was furnished by the Corps of Engineers. Refer to Summary bound with this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

None

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Refer to Compilation Report, paragraph 46, bound with this Descriptive Report.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

None

65. COMPARISON WITH NAUTICAL CHARTS

Refer to compilation Report, paragraph 47, bound with this Descriptive Report.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map complies with the project instructions and meets National Map Accuracy Standards.

67. PHOTOGRAPHS

Natural color photographs were taken in 1975 at scales of 1:60,000 and 1:20,000. Basic aerotriangulation and compilation photographs (1:60,000 scale) were taken with the Wild RC-10(C) camera, supplemental photographs (1:20,000 scale) with the Wild RC-8(E) camera.

Submitted by:

Edward D. Allen
Cartographer

Approved and Forwarded:

Chief, Photogrammetric Section

Chief, Photogrammetry Branch
GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7405 (Hudson River, New York)

TP-00855

Barren Island
Bear Island
Binnen Kill
Campbell Island
Castleton-on-Hudson
Cedar Hill (locality)
Coeymans
Coeymans Creek
Conrail (RR)
Cow Island
Frothingham Lake
Hannacrois Creek
Houghtaling Island
Hudson River
Lower Schodack Island
Matthew Point
Moordener Kill
Muiztes Kill
Mull Island

New Baltimore
Paarda Hook
Papscanee Creek
Papscanee Island
Pixtaway
Poolsburg
Schermernhorn Island
Schodack Creek
Schodack Landing
Shad Island
Staats Point
Stony Point (locality)
Upper Schodack Island
Van Wies Point
Vierda Kill
Vlokie Kill
Vloman Kill
Wemple

Approved by:

Charles E. Harrington
Chief Geographer
Nautical Charting Division
DISSEMINATION OF PROJECT MATERIAL
CM-7405

NATIONAL ARCHIVES/FEDERAL RECORDS CENTER

Job Completion Report

Brown Jacket:
Aerotriangulation Photographs
Photogrammetric Plot Report Copy
Computer Listings
Tide Data
Field Control Report
NOAA Form 76-53 (Control Identification Cards)
NOAA Form 76-40

BUREAU ARCHIVES

Registered Map
Descriptive Report

REPRODUCTION DIVISION

8x Reduction Negative of the Map

OFFICE OF STAFF GEOGRAPHER

Geographic Names Standards
<table>
<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>OFFICE</th>
<th>FIELD</th>
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<tbody>
<tr>
<td>Dybn D</td>
<td>Upper Hudson River Coeymans Dike Daybeacon D</td>
<td>33.6</td>
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<td>Light 47</td>
<td>Coeymans Dike North Light, 1934</td>
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<td>Light 51</td>
<td>Mull Dike Lower End Light, 1934</td>
<td>04.02</td>
<td>50.94</td>
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<td>Light 52</td>
<td>Nine Mile Tree Light, 1934</td>
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<td>54.04</td>
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<td>Light 56</td>
<td>Cow Island Light, 1934</td>
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<td>Light 59</td>
<td>Bear Island Light, 1934</td>
<td>26.45</td>
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<td>Light 62</td>
<td>Staats Point Light, 1934</td>
<td>17.42</td>
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<td>Light 64</td>
<td>Van Wies Point Dike Light, 1934</td>
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</table>
By photogrammetric methods, verticals based entirely upon ground survey methods.

**PHOTOGRAHMERIC FIELD POSITIONS ARE DEPENDENT**

1. **FIELD POSITIONS ARE DETERMINED BY FIELD OBSERVER**

   **EXAMPLE:** F-72-12-25

2. **LOCATION AND DATE OF FIELD WORK**

   * 3- Field Identification
   * 4- Field Location
   * 5- Trangulation
   * 6- Traverse
   * 7- Intersection
   * 8- Sector
3. **POSITION VERIFIED VISUALLY ON PHOTOGRAPH**

   **EXAMPLE:** 8-12-75

4. **RECORD DATE OF RECOVERY**

   **EXAMPLE:** 10-01-75

5. **LOCATION STATION IS RECOVERED ENTER TRANGLE**

   **EXAMPLE:** L-12-23-25

6. **A FIELD POSITIONAL REQUIREMENT OF METHOD OF**

   * 1- Field Verified
   * 2- Field Identified
   * 3- Field Located
   * 4- Information
   * 5- Photogrammetric
   * 6- Field Located
   * 7- Field Identified
   * 8- Field Verified

7. **NEW POSITION DETEERTMINED OR VERIFIED**

   **EXAMPLE:** 76-01-20

8. **LOCATION DATE OF RECOVERY**

   **EXAMPLE:** 8-12-75

**FIELD ACTIVITY REPRESENTATIVE**

**FORM ORIGINATED BY QUALITY CONTROL OFFICE**

**INSTRUCTIONS FOR ENTERING METHOD AND DATE OF LOCATION**

<table>
<thead>
<tr>
<th>Field Activity Representative</th>
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<tr>
<td>Spire</td>
<td>Castleton Sacred Heart Church Spire Cross, L934</td>
<td>35.64° N</td>
<td>21.79° W</td>
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</table>

**DATE:** 9/82

The following objects **HAVE** been inspected from seaward to determine their value as landmarks.

**DATUM:** N. A. 1927

**METHOD AND DATE OF LOCATION**

**OFFICE:** Triang.

**FIELD:** 12348
### 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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</table>

**REMARKS**
- Full Part Before After Verification Review Inspection Signed Via Drawing No.
- Full Part Before After Verification Review Inspection Signed Via Drawing No.
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**Form CGS-2322 Supersedes All Editions of Form CGS-978.**