NOAA FORM 76-35

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

DESCRIPTIVE REPORT

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Shoreline (Photogrammetric)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Job No.</td>
<td>PH-6815</td>
</tr>
<tr>
<td>Map No.</td>
<td>T-13306</td>
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<tr>
<td>Classification No.</td>
<td></td>
</tr>
<tr>
<td>Edition No.</td>
<td>4</td>
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<tr>
<td>FIELD EDITED MAP</td>
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LOCALITY

<table>
<thead>
<tr>
<th>State</th>
<th>Connecticut</th>
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<tbody>
<tr>
<td>General Locality</td>
<td>Connecticut River</td>
</tr>
<tr>
<td>Locality</td>
<td>Middletown</td>
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</table>

1968 TO 1969

REGISTRY IN ARCHIVES

DATE

★ U.S. GOVERNMENT PRINTING OFFICE: 1972-760-592
**DESCRIPTIVE REPORT - DATA RECORD**

**T-13306**

**PROJECT NO. (III):**  
PH-6815

**FIELD OFFICE (III):**  
None

**PHOTOMGRAMMETRIC OFFICE (III):**  
Atlantic Marine Center, Norfolk, VA

**CHIEF OF PARTY**  
Alfred C. Holmes, Director

**INSTRUCTIONS DATED (III) (III):**  
Aerotriangulation and Compilation - Dec. 4, 1968  
Office - Amendment I - Jan. 14, 1969

**METHOD OF COMPILATION (III):**  
Wild B-8 Plotter and Graphic

**MANUSCRIPT SCALE (III):**  
1:10,000

**STEREOSCOPIC PLOTTERING INSTRUMENT SCALE (III):**  
1:20,000 Pantographed to 1:10,000

**DATE RECEIVED IN WASHINGTON OFFICE (IV):**

**DATE REPORTED TO NAUTICAL CHART BRANCH (IV):**

**APPLIED TO CHART NO.**

**DATE: **

**DATE REGISTERED (IV): **  
JUL 29 1974

**GEOGRAPHIC DATUM (III):**  
N.A. 1927

**REFERENCE STATION (III):**  
Bishel, 1935

**LAT.:**  
41°32'39.886" 1230.5m

**LONG.:**  
72°37'37.514" 869.5m

**PLANE COORDINATES (IV):**  
\[ y = 259,111.74 \text{ FT.} \]
\[ x = 633,647.68 \text{ FT.} \]

**STATE:**  
Connecticut

**ZONE**

**HEADING WATERS:**  
Mean sea level, except as follows:
Elevations shown as (2) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water = mean lower low water

**AN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (III) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE, OR (IV) WASHINGTON OFFICE.**

**WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.**
<table>
<thead>
<tr>
<th>Description</th>
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<tr>
<td>FIELD INSPECTION BY (II):</td>
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<tr>
<td>MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):</td>
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<tr>
<td>Air Photo Compilation - Oct. 1, 1968</td>
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<tr>
<td>Date of Photography</td>
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<td>REFER TO THE FIELD EDIT REPORT (PAGE 18, ITEM 62)</td>
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<td>PROJECTION AND GRIDS RULED BY (IV):</td>
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<tr>
<td>A. Bethea</td>
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<tr>
<td>PROJECTION AND GRIDS CHECKED BY (IV):</td>
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<tr>
<td>L. Van Scoy</td>
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<tr>
<td>CONTROL PLOTTED BY (III):</td>
<td>March 3, 1969</td>
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<td>Aerotriangulation - J. Steinberg</td>
<td>March 17, 1969</td>
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<tr>
<td>Triangulation - A.C. Rauck, Jr.</td>
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<tr>
<td>CONTROL CHECKED BY (III):</td>
<td>March 3, 1969</td>
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<tr>
<td>Aerotriangulation - J. Minton</td>
<td>March 17, 1969</td>
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<td>Triangulation - C. Bishop</td>
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<tr>
<td>RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):</td>
<td>Jan. 16, 1969</td>
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<tr>
<td>I.I. Saperstein</td>
<td></td>
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<tr>
<td>STEREOSCOPIC INSTRUMENT COMPILATION (III):</td>
<td>5/5/69</td>
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<tr>
<td>PLANIMETRY L.O. Neterer, Jr.</td>
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<tr>
<td>Reviewed By: C.H. Bishop</td>
<td>5/5/69</td>
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<td>CONTOURS</td>
<td></td>
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<tr>
<td>Inapplicable</td>
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<td>MANUSCRIPT DELINEATED BY (III):</td>
<td>5/22/69</td>
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<tr>
<td>C.H. Bishop</td>
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<td>Scribing BY (III):</td>
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<td>Rockville Office</td>
<td>3/10/72</td>
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<tr>
<td>PHOTOGRAHMETRIC OFFICE REVIEW BY (III):</td>
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<tr>
<td>Compilation A.C. Rauck, Jr.</td>
<td>5/28/69</td>
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<td>Field Edit - R.E. Smith</td>
<td>5/28/70</td>
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<tr>
<td>Scribing and Stick up - F. Margiotta</td>
<td>7/20/72</td>
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<td>REMARKS:</td>
<td>10/24/69</td>
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<td>Field Edit By: Richard E. Kesselring</td>
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</table>
**Type "E" Wild RC-8**

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tbody>
<tr>
<td>68E(c)-7960-7961</td>
<td>Oct. 1, 1968</td>
<td>10:49</td>
<td>1:40,000</td>
<td>1.9' Above M.L.W.</td>
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<tr>
<td>68E(c)-7963-7964</td>
<td>&quot;</td>
<td>10:59</td>
<td>&quot;</td>
<td>1.8' &quot;</td>
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<tr>
<td>68E(c)-8011-8013</td>
<td>&quot;</td>
<td>12:08</td>
<td>1:20,000</td>
<td>1.4' &quot;</td>
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<tr>
<td>68E(c)-8039-</td>
<td>&quot;</td>
<td>12:38</td>
<td>&quot;</td>
<td>1.2' &quot;</td>
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**Predicted TIDE (III)**

<table>
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<tr>
<th>REFERENCE STATION:</th>
<th>New London, Conn., State Pier</th>
<th>RATIO OF RANGES</th>
<th>MEAN RANGE</th>
<th>SPRING RANGE</th>
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<tbody>
<tr>
<td>SUBORDINATE STATION:</td>
<td>Portland, Conn.</td>
<td>2.6'</td>
<td>3.1'</td>
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**WASHINGTON OFFICE REVIEW BY (IV):**

Bernard Kurs

**DATE:**

October, 1972

**NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):**

6

**RECOVERED:**

5

**IDENTIFIED:**

5

**NUMBER OF BM(S) SEARCHED FOR (II):**

None

**RECOVERED:**

None

**IDENTIFIED:**

None

**NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):**

None

**NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):**

None

**REMARKS:**
<table>
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<th>Completion Date</th>
<th>Remarks</th>
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<tr>
<td>Compilation Complete</td>
<td>May, 1969</td>
<td>Superseded</td>
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<tr>
<td>Pending Field Edit</td>
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<tr>
<td>Field Edit Applied</td>
<td>April, 1970</td>
<td>Superseded</td>
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<tr>
<td>Compilation Complete</td>
<td></td>
<td><em>See Below</em></td>
</tr>
<tr>
<td>Final Review</td>
<td>October, 1972</td>
<td></td>
</tr>
</tbody>
</table>

*CHART MAINTENANCE PRINT (ADVANCE MANUSCRIPT COPY) FORWARDED TO MARINE CHART DIVISION ON JULY 17, 1970
SCRIBEING AND STICK-UP COMPLETED JULY 20, 1972
CHART MAINTENANCE PRINT (FINAL REVIEWED COPY) FORWARDED TO ROCKVILLE OFFICE DEC. 15, 1972 TO MARINE CHARTS JULY 1974*
SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT  T-13306

Shoreline survey T-13306 is one of 10 similar surveys in project PH-6815. The primary purpose of the project is to provide up-to-date shoreline and photo-hydro support data for the hydrographic surveys in the Connecticut River area. See page 5 for the area covered by the project and the location of this survey within the project.

There was no field work prior to compilation with the exception of premarking of horizontal control for identification prior to the flying of photography.

Compilation was at 1:10,000 scale by Wild B-6 Plotter using photography of October, 1968. Copies of the incomplete manuscript along with specially prepared photographs and ozalids were furnished for the transfer of the shoreline to the boat sheet, photo hydro support use and field edit.

The compilation manuscript is a vinylite sheet 3 minutes 45 seconds in latitude by 3 minutes 45 seconds longitude. After field edit data was applied the survey was scribed and reproduced on cronaflex. Final review was at the Atlantic Marine Center in October 1972. One cronaflex positive and negative of the final reviewed survey are forwarded for record and registry.
FIELD INSPECTION REPORT

MAP T-13306

PROJECT PH-6815

There was no field inspection prior to compilation.
21. Area Covered

This report covers the Connecticut River, Connecticut, from latitudes 41°23'30" to 41°49'45" and consists of ten (10) 1:10,000 scale T-sheets, T-13302 thru T-13311.

22. Method

Two (2) 1:40,000 scale and one (1) 1:20,000 scale strips of color photographs were bridged by analytical aerotriangulation methods.

The attached sketch of the strips bridged shows the placement of triangulation used in the final strip adjustments. Closure to horizontal control on Connecticut state plane coordinates are shown for each strip on the IBM readouts.

23. Adequacy of Control

All horizontal control was premarked and appeared on the photographs very clear. Strip 3 was controlled by ties from strip 2 and held very well.

24. Supplemental Data

Vertical control needed for the adjustment was taken from USGS quadrangles.

25. Photography

The definition and quality of the RC-8 "E" color photography were good. Coverage was adequate to compile all sheets.

Cromaque and matte ratio prints have been ordered for the 1:20,000 scale color photographs on black and white base.

Respectfully submitted,

I. I. Saperstein

Approved and forwarded,

Chief, Aerotriangulation Section
Connecticut River, Connecticut
Job 765-6915

Notes to Compiler

It will be noted that many bridge points classified 500
e.g. 19503 are shown on the IBM readouts and pricked on
the 1:20,000 scale contact photographs. These points
were to be used to orient the 1:20,000 scale ratio prints
for hydro support. This was done by Washington Compilation
Office request. Description for each 500 point is included.
AEROTRIANGULATION SKETCH
CONN. RIVER, CONN.
JOB PH-5815
Jan. 1969

0:1/4,000 scale color photography
0:1/20,000
△ Horizontal Control

1. S.P. Windsor RM 2, 1936
2. S.P. Hartford, Mrs. Sage's House Tower, 1891
3. S.P. Press, Barn Bar, Front Range Lt. 1892
4. S.P. Rocky Hill, 1935
5. S.P. Mcullah, 1934
6. S.P. Bishop, 1935
7. S.P. Smith, 1862
8. S.P. Gravel, 1934
9. S.P. Cove, 1939
10. S.P. Saybrook, 2, 1998
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR Y COORDINATE</th>
<th>LONGITUDE OR X COORDINATE</th>
<th>DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 FT. = 304.8006 meter)</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>620.5</td>
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<tr>
<td>Bodkin Rock Light, 1891</td>
<td>Geo. Pos. Vol. 1, Pg. 197</td>
<td>&quot;</td>
<td>41° 33' 39.67&quot;</td>
<td>72° 36' 11.09&quot;</td>
<td>1223.9</td>
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<td></td>
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<td></td>
<td></td>
<td>627.2</td>
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<tr>
<td>Mouse Island Light, 1931</td>
<td>Geo. Pos. Vol. 1, Pg. 191</td>
<td>&quot;</td>
<td>41° 33' 32.55&quot;</td>
<td>72° 37' 16.91&quot;</td>
<td>1004.2</td>
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<td></td>
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<td>846.9</td>
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<tr>
<td>South Congregational Church, Spire, 1875</td>
<td>Geo. Pos. Vol. 1, Pg. 154</td>
<td>&quot;</td>
<td>41° 33' 22.787&quot;</td>
<td>72° 38' 51.826&quot;</td>
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<td></td>
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<td>189.4</td>
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<tr>
<td>Middletown, Catholic Church Spire, 1875</td>
<td>Geo. Pos. Vol. 1, Pg. 191</td>
<td>&quot;</td>
<td>41° 33' 58.619&quot;</td>
<td>72° 39' 11.998&quot;</td>
<td>1808.5</td>
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<td></td>
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<td>42.6</td>
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COMPUTED BY A.C. Rauck, Jr.  
R.R. White  
DATE Jan. 30, 1969  
CHECKED BY CHB  
DATE 3/17/69  
ACR  
DATE Feb. 19, 1970  
DATE 2/19/70
31. DELINEATION

Compilation was by Wild B-8. Some additions and corrections were made graphically when the sheet was inked.

The Wild B-8 models were 1:40,000 scale and were set to compile the manuscript at 1:10,000 scale. Hydro support photography was at 1:20,000 scale, ratioed to 1:10,000. These ratio photographs were used to check the Wild B-8 compilation when the sheet was inked.

32. CONTROL

Control was adequate. Refer to PHOTOGAMMETRIC PLOT REPORT, Job PH-6815, Conn. River, CT, dated January 16, 1969, specifically, "Notes to Compiler".

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage was compiled from office interpretation and stereoscopic examination of the 1:10,000 ratio photographs.

35. SHORELINE AND ALONGSHORE DETAILS

The mean high waterline was compiled on the Wild B-8 from office interpretation, and refined graphically with 1:10,000 ratio prints of 1:20,000 photography. Tree overhang and shadows made identification difficult in places, but compilation is believed to be within accuracy requirements.

The low water line and grass in water was delineated from office interpretation of the 1:10,000 scale ratio prints of 1:20,000 scale photography taken near low water.

36. OFFSHORE DETAILS

None
37. LANDMARKS AND AIDS

Form 567 for seven landmarks and four fixed aids to navigation were submitted under date:

June 11, 1970

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Satisfactory junctions have been made with T-13307 to the east and T-12305 to the north. There are no contemporary surveys to the west or south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41 through 45.

Inapplicable

46. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S.G.S. Quadrangles MIDDLE HADDAM, CT and MIDDLETOWN, CT, both scale 1:24,000 and dated 1961 and 1965 respectively.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 267, scale 1:20,000, 4th Edition, dated Jan. 1, 1968.
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None

ITEMS TO BE CARRIED FORWARD:

None

Submitted by:
Charles H. Bishop
Charles H. Bishop
Cartographer
June 11, 1970

Approved for forwarding:

Melvin J. Umbrich, CDR
Chief, Coastal Mapping Division
Atlantic Marine Center

Approved:

Alfred C. Holmes
RADM, NOAA
Director, AMC
GEOGRAPHIC NAMES

FINAL NAME SHEETS
Ph-6815(Conn.)

T-13306

Arrigoni Bridge
Bodkin Creek
Boggy Meadow
Coginchaug River
Connecticut River
Eastern Drive
  Grove Street
  Main Street
Mattabesett River
Middletown
New York New Haven & Hartford (R.R.)
Pecausset Meadows
Pecausset Pond
Portland
Reservoir River
River Road
Silver Street
Silvermine Road
South Farms
  Sumner
  Summer Creek
The Straits
Washington Street
Wilcox Island Park

Approved:

G. P. Meredith
Chief, Scientific Data
and Services Division

Prepared by:

A. J. Wraight
Chief Geographer
49. NOTES FOR THE HYDROGRAPHER

Shoals and bars named on Chart 267 were not compiled on this manuscript; they are not visible on the photographs.
# PHOTOGRAMMETRIC OFFICE REVIEW

<table>
<thead>
<tr>
<th>1. PROJECTION AND GRIDS</th>
<th>2. TITLE</th>
<th>3. MANUSCRIPT NUMBERS</th>
<th>4. MANUSCRIPT SIZE</th>
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## CONTROL STATIONS

<table>
<thead>
<tr>
<th>5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY</th>
<th>6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topo/State stations)</th>
<th>7. PHOTO HYDRO STATIONS</th>
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## ALONGSHORE AREAS (Nautical Chart Data)

<table>
<thead>
<tr>
<th>12. SHORELINE</th>
<th>13. LOW-WATER LINE</th>
<th>14. ROCKS, SHOALS, ETC.</th>
<th>15. BRIDGES</th>
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## PHYSICAL FEATURES

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<tr>
<th>20. WATER FEATURES</th>
<th>21. NATURAL GROUND COVER</th>
<th>22. PLANETABLE CONTOURS</th>
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<tr>
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## CULTURAL FEATURES

<table>
<thead>
<tr>
<th>27. ROADS</th>
<th>28. BUILDINGS</th>
<th>29. RAILROADS</th>
<th>30. OTHER CULTURAL FEATURES</th>
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## BOUNDARIES

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<th>32. PUBLIC LAND LINES</th>
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## MISCELLANEOUS

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<tr>
<th>33. GEOGRAPHIC NAMES</th>
<th>34. JUNCTIONS</th>
<th>35. LEGIBILITY OF THE MANUSCRIPT</th>
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</tbody>
</table>

## REVIEWER

Albert C. Rauck, Jr.  
\(5/28/69\)

## REMARKS

Field Edit Applied From: Field Edit Ozalid, Field Edit Report and Field Edit Photos. Nos. 68E(c)-8010 thru 8013, 68E(c)-8039
52. ADEQUACY OF COMPILATION

Compilation was adequate. A few minor shoreline changes were indicated, mostly changing smoothly drafted shoreline to more irregular shoreline. A small, bulkheaded, boat basin was overlooked at Lat. 41° 33.6', Long. 72° 38.8' and the entrance to Nimmer Creek was too narrow. It, too, is bulkheaded. The majority of the remaining corrections concern bulkheads and dolphins.

There are two piling, marking the submerged end of a sewer outlet, or water intake, that were not visible on the photographs. These were d.p.'ed during the 1969 hydrography - position number 128 on boat sheet 745-10-7-69. Another piling, bare 1.0 foot at MLW, was also d.p.'ed by the hydrographer - position number 311. Attention was called to these items on the field edit ozalid.

Two boat lifts and two marine railways were overlooked in the marina complexes near the center of the map. They were located on the photographs and appropriate notes were made on the field edit ozalid.

There is a public boat launching ramp just east of the County and Municipal Buildings in Middletown.

The "road under construction" near the northerly limit of the map is now complete. It is a four lane, divided, limited access highway, similar in design to Interstate Routes. It is designated Connecticut Highway 9. The section of the New York, New Haven and Hartford Railroad on this map is in use.

A rock dike, that bares about 1.0 foot at MLW, was overlooked at the north end of Wilcox Island. This dike actually falls on this sheet and on T-13305, but it was dealt with entirely on this map. It was indicated by a dashed line on color photograph 6803013(c) and outlined, approximately, on the field edit ozalid.

54. RECOMMENDATIONS

There are no recommendations.

55. EXAMINATION OF PROOF COPY

Mr. Earl E. Maxfield, a senior river pilot of the Connecticut River, will be happy to examine a proof copy of the map. Mr. Maxfield's address is: 1 Roberts Street, Saybrook, Connecticut.

56. LANDMARKS AND NON-FLOATING AIDS FOR NAVIGATION

There are six nautical landmarks, recommended for charting, on this map. Four of them were office identified and compiled. The remaining two are triangulation. All landmarks were indexed on form 152, noted on the field edit ozalid and submitted on form 587. One additional landmark building was recommended.

Four fixed aids to navigation are contained on this sheet. Two of them have triangulation positions and the other two were office identified and compiled.

Special attention was called to Bodkin Rock Light 68 (BODKIN ROCK LIGHT 1891). The field editor was unable to discern any discrepancy between the compiled position of the light and its physical location. During photo-hydro support in this area, difficulty was encountered, by the support unit, in getting the photo cuts to hold and a traverse was run between Bodkin Rock Light, 1891 and Paper Rock Light 1891 with excellent results. From this, it does not appear that there is anything wrong with the triangulation position of Bodkin Rock Light 68.

A All the fixed aids were entered on form 567 and are inclosed with this report.

* Refer to notes on page 19.
57. GEOGRAPHIC NAMES

A specific request regarding the proper spelling of Sumner Creek was made. The spelling on the map manuscript is incorrect. The correct spelling is Sumner, not Summer, Creek. Local residents verify this.

No evidence could be found of a U.S. Highway 6A. The road mapped as U.S. 6A is Connecticut 66 and Connecticut 17. Recommended that U.S. 6A be deleted as superfluous.

No other discrepancies were noted in the names on this map.

58. ROCKS AND SHEALS

There are two important rocks on this map at Lat. 41° 33.7', Long. 72° 37.1'. They were not visible on the photographs, but were located by the hydrographer during the 1969 hydrography – position numbers 173 and 174 on boat sheet 745-10-7-69. The westerly rock is awash at MLW and the other bares 1.0 foot at MLW. There is a small shoal in this area, also. It, too, was developed during the 1969 hydrography. Attention was called to these items on the field edit ozalid.

There are no shoals, other than the one mentioned above, on this sheet. There are no "shallow" areas worthy of note, either.

59. PHOTOGRAPHY

Photography consisted of black and white copies of color photography and color photographs. The latter were used for the field edit. Photography was good except for the heavily shadowed areas along the southerly bank of the river.

60. DISPOSITION OF DATA

The field edit ozalid, field prints containing field edit information and the processed cronapaque office prints, along with all pertinent data were forwarded to the Atlantic Marine Center. The film ozalids, copies of form 567's and copies of form 526's were transmitted to the hydrographic field party. The original form 526's were transmitted to Geodesy.

Richard E. Kesselring
Surveying Technician

October 24, 1969

* Field edit verification of the office identification of bookin rock light 6B was requested by the compiler as the result of "photo cuts (which) do not hold well". The office identification was found to be correct.

The poor photo cuts resulted from the weak intersection of the radials - the light is located near the flight line - the area is adequately covered by the bridge and the station was held within the accuracy requirements (verified by the Norfolk office final review activity upon request by the quality control activity, 1/15/73).
# Nonfloating Aids or Landmarks for Charts

**Atlantic Marine Center**
March 20, 1970

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by

R. E. Smith

Allen L. Powell, Director, AMC
Chief of Party

<table>
<thead>
<tr>
<th>State</th>
<th>Connecticut</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charting Name</td>
<td>Description</td>
</tr>
<tr>
<td>----------</td>
<td>-------------</td>
</tr>
<tr>
<td>LONG ISLAND SOUND</td>
<td>CONNECTICUT RIVER</td>
</tr>
<tr>
<td>LIGHT 68</td>
<td>Bodkin Rock Light 68 (Bodkin Rock Light 1891)</td>
</tr>
<tr>
<td></td>
<td>41 33 39.67° 11.09° NA Triang.</td>
</tr>
<tr>
<td>LIGHT 68A</td>
<td>Straits Hill Light 68A</td>
</tr>
<tr>
<td></td>
<td>41 33 48.65° 16.40° NA Photo.</td>
</tr>
<tr>
<td>LIGHT 73</td>
<td>Mouse Island Light 73 (Mouse Island Light 1931)</td>
</tr>
<tr>
<td></td>
<td>41 33 32.55° 16.91° NA Triang.</td>
</tr>
<tr>
<td>LIGHT 78</td>
<td>Portland Light 78</td>
</tr>
<tr>
<td></td>
<td>41 34 42.82° 42.39° NA Photo.</td>
</tr>
</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Secs. 1-55, 2-39, 6-36, 7-13 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* Tabulate seconds and meters.
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by

R. E. Smith

Allen L. Powell, Director, AMC
Chief of Party

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<tr>
<th>STATE</th>
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</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>MIDDLETON - PORTLAND</td>
<td>4 legged silver, steel water tank ht. = 100(170)</td>
</tr>
<tr>
<td>STANK</td>
<td>Round red brick stack ht. = 188(288)</td>
</tr>
<tr>
<td>SPIRE</td>
<td>A spire with a red brick base &amp; a black top with cross on top(South Congregational Church Spire 1875) ht. = 181(271)</td>
</tr>
<tr>
<td>SPIRE</td>
<td>A light green spire with a cross on top, spire has a brown block base (Middletown Catholic Church Spire 1875) ht = 156(246)</td>
</tr>
<tr>
<td>TANK</td>
<td>4 legged, steel, aluminum, water tank ht = 124(144)</td>
</tr>
</tbody>
</table>

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* TABULATE SECONDS AND METERS
*NOTE: This tank was submitted by the Field Edit party as Triangulation station CHATHAM'S ELEVATED TANK 1935. The tank identified on the photograph, and located by photo methods, falls approximately 67 meters south of the position of the Triangulation station. There is no tank visible on the photographs at the Triangulation station position.
NONFLOATING AIDS OF LANDMARKS FOR CHARTS

Atlantic Marine Center March 20, 1970

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated. The positions given have been checked after listing by R. E. Smith,

Allen L. Powell, Director, AMC

Chief of Party.

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<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>---------</td>
<td>-------------</td>
</tr>
<tr>
<td>MIDDLETOWN - PORTLAND</td>
<td></td>
</tr>
<tr>
<td>ELEVATOR</td>
<td>4 cylindrical concrete structures with elevator on top ht=130(150)</td>
</tr>
</tbody>
</table>

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* Tabulate Seconds and Meters
**Non Floating Aids or Landmarks for Charts**

Atlantic Marine Center March 20, 1970

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be included on the charts indicated.

The positions given have been checked after listing by R. E. Smith

Allen L. Powell, Director, AMC Chief of Party

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<td>-------</td>
<td>-------------</td>
</tr>
<tr>
<td></td>
<td>MIDDLETON - PORTLAND</td>
</tr>
<tr>
<td>STACK</td>
<td>Not of landmark value</td>
</tr>
<tr>
<td>STACK</td>
<td>Not of landmark value</td>
</tr>
<tr>
<td>STACK</td>
<td>Not visible from waterway</td>
</tr>
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This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-13 to 22 inclusive, and Fig. 79. Positions of charted landmarks and non floating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

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NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Atlantic Marine Center
March 20, 1970

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<td>STACK</td>
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*TABULATE SECONDS AND METERS*
REVIEW REPORT T-13306

SHORELINE

OCTOBER, 1972

61. GENERAL STATEMENT

See summary which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A visual comparison was made with T-9089 and 9090, July, 1952, 1:10,000 scale. Discrepancies are noted on the comparison print in blue.

The shoreline of these surveys is superseded by T-13306 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A visual comparison was made with U.S.G.S. Middletown, CT, 1965, 1:24,000 scale and Middle Haddam, CT, 1961, 1:24,000 scale. Discrepancies are noted on the comparison print in brown.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with boat sheet H-9077, 10/7/69, 1:10,000 scale. The source of the shoreline appears to be the incomplete manuscript of T-13306. No significant differences were noted.

All differences between the boat sheet and survey T-13306 are noted on the comparison sheet in purple.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 267 Conn. River, Rodkin Rock to Hartford, 6th Edition dated March 25, 1972, 1:20,000 scale.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with project instructions and appears to meet the National Standards of Map Accuracy.
Submitted by:

Bernard Kurs
Cartographer

Approved for forwarding:

Melvin J. Goss, CDR
Chief, Coastal Mapping Div., AMC

Approved:

Alfred C. Holmes
RADM, NOAA
Director, AMC

Approved:

Charles Nenne
Chief, Photogrammetric Branch

Wesley V. Buhl
Chief, Coastal Mapping Division
NOTE:
"The photogrammetric location and delineation of features offshore from the mean high-water line on this survey may not be complete or final. The contemporary reviewed hydrographic survey of the area where available, should be consulted for the final delineation."
**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>267</td>
<td>2-27-75</td>
<td>G. Hickey</td>
<td>Drawing No. 23 CONSIDER ADEQUATELY APPLIED Final</td>
</tr>
<tr>
<td>(12377)</td>
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</tr>
<tr>
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