<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Shoreline (Photogrammetric)</th>
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<tbody>
<tr>
<td>Job No.</td>
<td>PH-6601</td>
</tr>
<tr>
<td>Map No.</td>
<td>T-12959</td>
</tr>
<tr>
<td>Classification No.</td>
<td></td>
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<tr>
<td>Edition No.</td>
<td></td>
</tr>
<tr>
<td>Field Edited</td>
<td></td>
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</table>

**LOCALITY**

- **State**: Massachusetts
- **General Locality**: Boston to Plum Island
- **Locality**: Plum Island Sound

1965 TO 1968

Alfred C. Holmes, Director, AMC

**REGISTRY IN ARCHIVES**

**DATE**
DESCRIPTIVE REPORT - DATA RECORD
T-12959

PROJECT NO. (III):
Job PH-6601

FIELD OFFICE (III):

PHOTOGRAMMETRIC OFFICE (III):
Atlantic Marine Center, Norfolk, VA

CHIEF OF PARTY

OFFICER-IN-CHARGE
Alfred C. Holmes, Director, AMC

INSTRUCTIONS DATED (III) (IV):
Field - August 4, 1965
Field - August 19, 1965 Provisional Instructions, Aerial Photography
Office - October 8, 1965 Instructions, Aerotriangulation
Office - January 27, 1966
Office - February 2, 1966 Instructions, Aerotriangulation
Office - April 28, 1966
Field - May 20, 1966 Supplement I
Office - July 11, 1966 Supplement I

METHOD OF-compilation (III):
Kelsh and graphic

MANUSCRIPT SCALE (III):
1:10,000

STEREOSCOPIC PLOTting INSTRUMENT SCALE (III):
1:6,000 Pantographed to 1:10,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):
SEPT 1975

APPLIED TO CHART NO.:

DATE:

DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):
NA 1927

VER tICAL DATUM (III):

EXCEPT AS FOLLOWS:
Elevations shown as (25) refer to mean high water
Elevations shown as (3) refer to sounding datum
i.e., mean low water

REFERENCE STATION (III):
Plum Island Coast Guard Cupola 1943

LAT.:
42°44' 16.010" (494.0m)

LONG.:
70°47' 20.717" (471.2m)

[X] ADJUSTED
☐ UNADJUSTED

PLANE COORDINATES (IV):

Y 634, 054.42 Ft.  x = 790, 996.31 Ft.

STATE:
MASS

ZONE:
Mainland

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

WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.
# Descriptive Report - Data Record

## Field Inspection by (III):
None

## Mean High Water Location (III) (State Date and Method of Location):
Air Photo. Compilation  
Date of Photography: August 1965

## Projection and Grids Rule by (IV):
- **A. E. Roundtree**  
  Date: 4-20-66

## Projection and Grids Checked by (IV):
- **R. Glaser**  
  Date: 4-27-66

## Control Plotted by (III):
- **L. Neterer**  
  Date: 9-13-66

## Control Checked by (III):
- **H. Blood**  
  Date: 9-13-66

## Radial Plot or Stereoscopic Control Extension by (III):
- **H. P. Eichert**  
  Date: 11-1-66

## Stereoscopic Instrument Compilation (III):
- **Kelsh**  
  Planimetry:  
  Date: 1-25-67  
  Rev. by: L. Neterer  
  Date: 1-25-67

## Inapplicable

## Manuscript Delineated by (III):
- **J. Place**  
  Date: 1-31-67

## Scribing by (III):
- **J. Hinton**  
  Date: 7-21-69

## Photogrammetric Office Review by (III):
- **Completion:** C. H. Bishop  
  Date: 2-23-67  
- **Field Edit:** C. H. Bishop  
  Date: 9-27-68  
- **Scribing & Stick-Up:** E. H. Hartford  
  Date: 8-5-69

## Remarks:
Field Edit By: E. H. Hartford  
Date: May 1967 & June 1968
**PHOTOGRAPHS (III)**

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<thead>
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<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tr>
<td>65-S-(c)-7262 thru 7264</td>
<td>Aug. 31, 65</td>
<td>8:05</td>
<td>1:30,000</td>
<td>- 0.5 ft. below MLW³</td>
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<tr>
<td>65-S-6960 thru 6962</td>
<td>Aug. 24, 1965</td>
<td>9:04</td>
<td>1:30,000</td>
<td>+ 7.8 ft. above MLW³</td>
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<tr>
<td>65-S-6992 thru 6993</td>
<td>Aug. 24, 65</td>
<td>9:49</td>
<td>1:40,000</td>
<td>+ 7.2 ft. above MLW³</td>
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</tbody>
</table>

**TIDE (III)**

| REFERENCE STATION: | Portland (Predicted) | RATIO OF MEAN SPRING RANGES: | 9.0 | 10.4 |
| SUBORDINATE STATION: | Plum Island Sound (Predicted) | | 8.6 | 9.9 |

**WASHINGTON OFFICE REVIEW BY (IV):** Bernard Kurs, AMC

**PROOF EDIT BY (IV):**

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

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

**NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):** None

**NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):** None

**REMARKS:**

*The stage of tide at time of photography was determined by readings on at Merrimack River Entrance at that time. See Instructions, OFFICE, dated April 28, 1966.*
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<th>Remarks</th>
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<td>January 1967</td>
<td>Superseded</td>
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<tr>
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<td>October 1967</td>
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<tr>
<td>Additional Field Edit Applied</td>
<td>Sept. 1968</td>
<td>Superseded</td>
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<tr>
<td>Final Review</td>
<td>Jan. 1974</td>
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</table>
JOB PH-6601

BOSTON TO PLUM ISLAND
SHORELINE MAPPING AT 1:5,000 & 1:10,000 SCALE

CHART 613-SC

CHART TOPOGRAPHY AT 1:40,000 SCALE

TOTAL 79
SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORTS PH-6601

This shoreline manuscript is one of thirty-one, maps that make up this project. The primary purpose of the project is to provide contemporary shoreline for nautical chart construction. Maps were also used to provide photogrammetric hydro support data for the hydrographic surveys to be conducted in the same area.

The only field work prior to compilation was recovery and identification of horizontal control required for aerotriangulation.

Field edit was accomplished by a photogrammetric field party during the years 1967, 1968, 1969 and 1970. The field edit was adequate.

Cronaflex positives and ozalids of the manuscripts were furnished for the use of the field editor and the preparation of the hydrographers boat sheets. Accompanying these were specially prepared ratio photographs to aid in the location of hydrographic signals.

Final review was accomplished at the Atlantic Marine Center from September, 1973 to April, 1974.

A cronaflex positive and negative of each reviewed manuscript are being forwarded for record and registry.
FIELD INSPECTION REPORT
T-12959
Job PH-6601

There was no Field Inspection prior to Compilation.
PHOTOGRAMMETRIC PLOT REPORT
Job PH-6601
Boston to Plum Island, Massachusetts

November 1, 1966

21. Area Covered

This report covers aerotriangulation for 1:5,000 and 1:10,000 scale surveys in an area north of Boston, Massachusetts. The 1:5,000 scale surveys are T-12968 thru T-12977; the 1:10,000 scale surveys are T-12959 thru T-12967 and T-12978 thru T-12985.

22. Method

Four strips were bridged by the analytic method. Strip 1 was at a scale of 1:30,000 using infrared photography; Strips 2 and 3 at a scale of 1:30,000 using color film; and Strip 4 using color film at a scale of 1:15,000.

The 1:30,000 scale bridges were to be used for the 1:10,000 scale compilation. The four-model 1:15,000 scale bridge was necessary to complete coverage on surveys T-12972 and T-12978.

Common points between the 1:30,000 and 1:15,000 scale photography were selected. Plane coordinate positions from our bridges were determined so that 1:15,000 scale models could be controlled to compile the 1:15,000 scale surveys. Plane coordinates are on the Massachusetts State Grid (Mainland). The attached aerotriangulation sketch shows location of strips bridged. Closures to control have been tabulated.

23. Adequacy of Control

Field identified control was supplemented by office identified horizontal control points and was adequate.

24. Supplemental Data

Vertical control points needed and control for strip adjustments were taken from USGS quads.

25. Photography

The color photography was excellent. The infrared photography, which is not particularly suited for bridging, was adequate.

Respectfully submitted,

Henry F. Eichert
AEROTRIANGULATION SKETCH
BOSTON TO PLUM ISLAND
PH-6601
May, 1966

Δ control used in adjustment
Δ control used as check
STRIP #1

1. MEAD 2 (MGS), 1934
   target (0.1, 0.1)
   sub. pt. (-0.9, 1.2)

2. CHOA TE, 1849
   target (-0.4, -0.2)

3. PLUM ISLAND COAST GUARD CUPOLA, 1943
   target (0.5, 0.3)
   sub. pt. (-2.8, 4.5)

4. OLD TOWN, 1850
   target (-0.2, -0.2)
   RM #1 (-0.2, 0.3)

STRIP #2

5. STONEHAVEN (ROCKPORT TOWN (MGS)), 1939
   target (+1.2, -2.6)
   sub. pl. A (-0.7, -1.6)
   sub. pl. B (+1.3, -3.0)

- 1. MEAD 2 (MGS), 1934
   target (0.0, 3.3)
   sub. pl. (+0.7, 3.6)
6. MANCHESTER CHURCH DARK SPIRE, 1840
   target (-5.0, +0.8)
   sub. pt. A (-7.1, +3.1)

7. SALEM, NEW ENGLAND POWER CO., SOUTH STACK, 1954
   office identified (+4.8, +1.9)

8. FORT PICKERING LIGHTHOUSE, 1877
   office identified (+6.0, +1.0)

9. HIGH ROCK 2 (MGS)
   sub. pt. A (+3.2, -4.4)
   sub. pt. B (+2.0, -2.8)

10. HIGH ROCK 3, 1943
    office identified (+1.8, -3.2)

11. REVERE CATHOLIC CHURCH TOWER, 1934
    office identified (-4.0, -4.0)

12. BOOTH (MGS), 1934
    sub. pt. A (+3.4, -1.4)

13. CHELSEA QUIGLEY MEM. HOSPITAL W.T., 1955
    office identified (-1.5, +2.2)

14. MEDFORD, RADIO STATION WELI-FM TOWER, 1953
    office identified (+2.1, -1.0)

15. MEDFORD, TV STATION WNAC TOWER, 1953
    office identified (+5.3, -1.0)
22. MEDFORD RADIO STATION WEEF, NE TOWER, 1953
   office identified (+1.4, +3.0)

23. MEDFORD RADIO STATION WEEF, SW TOWER, 1953
   office identified (+1.7, +3.1)

STRI P # 3

24. BOSTON STATE HOUSE, 1934
   office identified (+2.6, +5.5)

27. BOSTON CUSTOM HOUSE TOWER, 1916
   office identified (+3.2, +4.7)

25. CHARLESTOWN BUNKER HILL MON., 1846
   office identified (+2.2, +0.1)

26. EAST BOSTON, BOSTON AND ALBANY R.R. TANK, 1916
   office identified (+1.6, +5.5)

27. CHELSEA QUEEN MEM. HOSPITAL W.T., 1933
   office identified (+2.3, -2.0)

17. REVERE CATHOLIC CHURCH TOWER, 1934
   office identified (-4.0, -5.0)

13. REVERE BEACH STACK, 1919
   office identified (-41, -2.2)

14. HIGH ROCK # 2
   sub. pt. B (+2.9, +3.9)

14. NAHANT COAST GUARD CUPOLA, 1919
   office identified (+3.6, +6.4)
13. Swampscott High School Finial, 1940
   office identified (+0.7, +3.4)

12. Swampscott Larger Standpipe, 1934
   office identified (+0.7, +1.8)

11. Marblehead, Abbot Tower, 1917
   office identified (-0.6, +1.4)

10. Marblehead Lighthouse, 1914
    office identified (+2.0, +5.1)

  Manchester Church Park Spire, 1878
  target (-3.5, -5.8)
  sub pt A (-4.1, -5.2)

  Head 2 (MG5), 1934
  target (+3.8, -0.7)
  sub pt (+6.2, -1.2)

5. Stonehaven (Rockport Town (MG5)), 1939
   target (-2.1, +0.3)
   sub pt A (-1.3, +1.6)
   sub pt B (-2.0, +1.2)

6. Straitsmouth Lighthouse, 1902
   office identified (-3.1, -5.2)
29  DANYERS, COOKE & CO.  CO. CHIMNEY, 1919

HCUE STA (-0.78 +0.79)

SS "A" (-0.01 -0.01)

SS "B" (-1.83 +1.74)

30  BEVERLY, UNITED SHOE MFG. CO. STK., 1954

(-0.01 -0.01)

31  BEVERLY, COO. FELLOWS COROCA, 1937

(-1.29 +1.35)

32  BEVERLY, ST. MARY'S CHURCH, SPIRE, 1937

(-1.32 -1.09)

33  BEVERLY, 1ST BAPTIST CHURCH, 1914

(+1.35 +1.10)

TIE POINTS

12601 (-0.28 -6.78)

12602 (-3.79 -2.20)

13601 (-2.56 -3.77)

14601 (-3.15 -1.53)
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<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR y-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS</th>
<th>N.A. 1927 DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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</thead>
<tbody>
<tr>
<td>PLUM ISLAND</td>
<td>Vol. 1</td>
<td>Na</td>
<td>42° 44’ 16.010</td>
<td>494.0</td>
<td>(1357.4)</td>
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<td>COAST GUARD</td>
<td>P-386</td>
<td>1927</td>
<td>70° 47’ 20.717</td>
<td>471.2</td>
<td>(893.6)</td>
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<td>CUPOLA 1943</td>
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<td></td>
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<tr>
<td>SOUTH PLUM 1943</td>
<td>Vol. 1</td>
<td></td>
<td>42° 42’ 14.833</td>
<td>443.8</td>
<td>(1407.6)</td>
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<tr>
<td></td>
<td>P-385</td>
<td></td>
<td>70° 46’ 20.503</td>
<td>466.6</td>
<td>(898.9)</td>
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</table>

1 FT = 0.3048006 METER

COMPUTED BY LLG DATE 10-12-66 CHECKED BY RES DATE 10-21-66
31. **DELINEATION:**

Both graphic and instrument methods of compilation were used. The roads were compiled by Kelsh instrument from infrared photographs. The mean high water line was compiled graphically from infrared photographs. The mean low water line, rocks, piling, piers, shallow areas, and shoals were compiled graphically using ratio prints of color photographs taken at mean low water.

32. **CONTROL:**

Adequate. See Photogrammetric Plot Report.

33. **SUPPLEMENTAL DATA:**

None.

34. **CONTOURS AND DRAINAGE:**

Contours are not applicable.

Drainage was compiled graphically from infrared photos.

35. **SHORELINE AND ALONGSHORE DETAILS:**

See Paragraph 31. The approximate mean low water line, shallow, and shoal limits and rocks were delineated from office interpretation of the photographs. Rock elevations and additional rocks are to be located by the hydrographer.

36. **OFFSHORE DETAILS:**

No statement.

37. **LANDMARKS AND AIDS:**

Form 567's for Landmarks and Aids have been submitted to the Washington Office under Date November 3, 1967.
38. **CONTROL FOR FUTURE SURVEYS:**

None

39. **JUNCTIONS:**

Satisfactory junction was made with T-12961 (1:10,000 scale) to the south. There are no contemporary surveys on the west, east, and north.

40. **HORIZONTAL AND VERTICAL ACCURACY:**

No statement.

46. **COMPARISON WITH EXISTING MAPS:**

Comparison has been made with USGS Quadrangle IPSWICH, MASSACHUSETTS, scale 1:24,000, revised in 1950.

47. **COMPARISON WITH NAUTICAL CHARTS:**

Comparison has been made with Chart 213, scale 1:20,000, 2nd edition, revised January 11, 1965.

**ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:**

None

**ITEMS TO BE CARRIED FORWARD:**

None

Submitted:

[Signature]

Johnnie S. Place
Cartographer
Approved for Forwarding:

[Signature]

Jeffrey C. Carlen, CDR, NOAA
Chief, Coastal Mapping Division, AMC

Approved:

[Signature]

Alfred C. Holmes, RADM, NOAA
Director, Atlantic Marine Center

Approved:

Chief, Photogrammetric Branch    Chief, Coastal Mapping Division
GEOGRAPHIC NAMES

FINAL NAME SHEETS

Ph-6601 (Boston to Plum Island, Mass.)

T-12959

Bass Rock
Castle Neck
Fox Creek
Grape Island
Grape Island Creek
Great Neck
Gulf of Maine
Ipswich River
Ipswich Bay
Little Neck
Middle Ground
Neck Creek
North Ridge
Pine Creek
Plover Hill
Plum Island
Plum Island Sound
Steep Hill
Treadwell Island
Treadwell Island Creek

Prepared by:

C. E. Harrington
Staff Geographer
49. NOTES FOR THE HYDROGRAPHER AND FIELD EDITOR

Separate editozalids have been prepared for your respective uses. These are intended to simplify your efforts and eliminate the possibility of any duplication of edit procedures.

On each are noted pertinent remarks concerning doubtful interpretations or items of compilation requiring additional clarification and/or verification.

For the field editor, notes include all items inshore from the approximate M.L.W.L. All offshore items are noted for the Hydrographer's attention.

Among these items requiring edit by both parties, are "Landmarks and Aids". These are indicated by a numeral. The following key is an explanation of the attention they may require:

1. Object not visible on photos. Verify by edit.
2. Object visible, position verified (by compiler)
3. Object visible, position re-determined. Verify by edit.
4. Object which may be a landmark or new aid. Verify by edit.

Forms 567 should be submitted for all "Landmarks and Aids".
# PHOTOMETRIC OFFICE REVIEW

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<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

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<th>5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY</th>
<th>6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations)</th>
<th>7. PHOTO HYDRO STATIONS</th>
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<th>8. BENCH MARKS</th>
<th>9. PLOTTING OF SEXTANT FIXES</th>
<th>10. PHOTOGRAMMETRIC PLOT REPORT</th>
<th>11. DETAIL POINTS</th>
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<td>XX</td>
<td>BRIDGE (W.O.)</td>
<td>KEISH</td>
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## ALONGSHORE AREAS (Nautical Chart Data)

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<th>12. SHORELINE</th>
<th>13. LOW-WATER LINE</th>
<th>14. ROCKS, SHOALS, ETC.</th>
<th>15. BRIDGES</th>
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<table>
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<th>16. AIDS TO NAVIGATION</th>
<th>17. LANDMARKS</th>
<th>18. OTHER ALONGSHORE PHYSICAL FEATURES</th>
<th>19. OTHER ALONGSHORE CULTURAL FEATURES</th>
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## PHYSICAL FEATURES

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<th>21. NATURAL GROUND COVER</th>
<th>22. PLANETARY CONTOURS</th>
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<tr>
<th>23. STEREOSCOPIC INSTRUMENT CONTOURS</th>
<th>24. CONTOURS IN GENERAL</th>
<th>25. SPOT ELEVATIONS</th>
<th>26. OTHER PHYSICAL FEATURES</th>
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## CULTURAL FEATURES

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<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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<tr>
<th>36. DISCREPANCY OVERLAY</th>
<th>37. DESCRIPTIVE REPORT</th>
<th>38. FIELD INSPECTION PHOTOGRAPHS</th>
<th>39. FORMS</th>
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## REVIEWER

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<tr>
<th>40. REVIEWER</th>
<th>SUPERVISOR/REVIEW SECTION OR UNIT</th>
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<tbody>
<tr>
<td>C.H. Bishop</td>
<td>Albert C. Rauck, Jr.</td>
</tr>
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<table>
<thead>
<tr>
<th>41. REMARKS (See attached sheet)</th>
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</table>

## 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

<table>
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<th>43. REMARKS</th>
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<table>
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<th>41. REMARKS</th>
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Field edit applied from: Two field edit ozalids
Field photo. No. 65-s-7263(2 prints)
Form 274
FIELD EDIT REPORT
Project PH-6601
Cape Ann to Boston
T-12959, T-12960, T-12961

GENERAL NOTES
These three sheets were field edited during the period 17 April through 10 May 1967. Corrections and additions have been inkered on the photographs in black, except (photo. pts., LDMKS, and fixed aids which are in red) and referenced on the discrepancy print in blue.

NAUTICAL LANDMARKS & FIXED AIDS

Three nautical landmarks and one aid are noted on the discrepancy print and referenced to photographs.

LANDMARK BUILDINGS

Five buildings on MHWL and one landmark building are recommended and referenced to photographs.
All public buildings are inkered on photos. number 65-S-6994 and 6995.

BLUFFS

Bluffs of LDMK value are noted on the discrepancy print and referenced to photographs.

ROADS

Corrections and additions are noted on the discrepancy print and referenced to photographs.

PIERS

All piers in question and additions to same are noted on the discrepancy print and referenced to photographs.

MARINE RAILWAYS & BOAT RAMPS

All marine railways and boat ramps are inkered on photographs and referenced on discrepancy print.
ROCKS

All rocks questioned on the discrepancy print were verified. Corrections and additions are noted on the discrepancy print and referenced to photographs.
Locations of rocks in three areas were determined by sextant fix.

Field Edit notations are inked on the following photographs: 65-S-6994, 6995, 7262 and 7263

Submitted by:
E.W. Hartford

24 May 1967
FIELD EDIT REPORT
Project PH-5601
Cape Ann to Boston
T-12959, T-12960, T-12961

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Field Edit notations are inked on the following photographs: 65-S-6994, 6995, 7262 and 7263

Submitted by:
E.W. Hartford

24 May 1967
FIELD EDIT REPORT

PH-6601
Boston to Plum Island
T-12959 T-12975 T-12976 T-12978 T-12980

GENERAL NOTES

This report is submitted for four T-sheets, field edited May and June 1966. One sheet T-12980 was field edited June 1967 and is being returned.

Most discrepancies on sheet T-12975 are referenced to sheet T-12976 because of duplication. A few in the northwest corner of sheet T-12978 are noted directly on the sheet or referenced to photo 65-S-7315.

All notations on T-sheet and Photographs are made in violet ink. The notations were made either directly on the discrepancy sheet or referenced to photos.

51 METHODS

Field edit was accomplished by the following methods, by skiff and truck travel and by walking sections of the shoreline.

All rock and ledge areas were inspected at or near low-water. The rock and ledge heights were obtained by hand leveling from mean high-water or mean low-water lines, or by using hourly tide heights obtained from the ship Pierce.

All discrepancies on the field edit sheets have been verified directly on the sheets or referenced to a photograph.

Notations on photographs by sheet numbers are as follows:

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<thead>
<tr>
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<tbody>
<tr>
<td>7349</td>
<td>7325</td>
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<td>7351</td>
<td>7352</td>
<td>7353</td>
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</table>

52 ADEQUACY OF COMPILATION

The compilation of MHWL and MLWL around ledge areas as a whole appeared to be good. Several ledge areas were inspected at low water, these are noted on the discrepancy print and referenced to a photograph. Compilation of piers, streets, and buildings was found to be good.

54 RECOMMENDATIONS:

None

55 ROCKS

Very few rocks were verified directly on the field edit sheets. However, areas of rocks in question and rocks recommended for charting are noted on the field edit sheet and referenced to
photos.

These are inked on the following photos.

<table>
<thead>
<tr>
<th>T-12976</th>
<th>T-12975</th>
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<tbody>
<tr>
<td>65-S-7324</td>
<td>65-S-7340</td>
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<td>7351</td>
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<td>7351</td>
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<tr>
<td>7352</td>
<td>7353</td>
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</tbody>
</table>

NAUTICAL LANDMARKS AND FIXED AIDS

All nautical landmarks and fixed aids were inspected and submitted on Form 567.

58 LANDMARK BUILDINGS AND BLUFFS

Three landmark buildings are recommended for deletion, one each on the following T-sheets, T-12975, T-12976, and T-12978. All landmark buildings recommended for charting are circled and labeled as such on the following photos.

| 65-S-7324 | 7350 | 7352 |

All bluffs were investigated off shore and bluffs recommended for charting are inked on the following photos.

| 65-S-7340 | 7349 | 7352 |

59 STREETS

All street additions and classifications for T-sheets T-12975 and T-12976 are noted on the field edit sheet and referenced to the photos.

Submitted by

E. W. Hartford

2 June 1968
TO BE CHARTED
TO BE REVISED
TO BE DELETED

STRIKE OUT TWO

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Atlantic Marine Center November 3, 1967

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on (deleted from) the charts indicated.

The positions given have been checked after listing by

F.P. Margiotta

Alfred C. Holmes, Director, AMC

Chief of Party.

<table>
<thead>
<tr>
<th>STATE</th>
<th>MASSACHUSETTS</th>
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<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
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<tr>
<td></td>
<td>PLUM ISLAND</td>
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<tr>
<td></td>
<td>(Plum Island Coast Guard)</td>
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<td></td>
<td>GREAT NECK</td>
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<td>Plover Hill Water Tank</td>
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<td>TANK</td>
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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 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
U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Atlantic Marine Center  
Nov. 3, 1957

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on (deleted from) the charts indicated.

The positions given have been checked after listing by

F. P. Margiotta

Alfred C. Holmes, Director, AMC

Chief of Party

<table>
<thead>
<tr>
<th>STATE</th>
<th>DESCRIPTION</th>
<th>CHARTING NAME</th>
<th>SIGNAL NAME</th>
<th>1° S.P. METERS</th>
<th>2° S.P. METERS</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
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<tbody>
<tr>
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<td>IPSWICH BAY</td>
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<td>PLUM ISLAND SOUND</td>
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* Tabulate Seconds and Meters
REVIEW REPORT T-12959

SHORELINE

January, 1974

61. GENERAL STATEMENT:

See summary which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

None available in this office at this time.

This survey supersedes any possible prior registered survey for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A general comparison was made with U.S.G.S. Quadrangle Ipswich, Mass., 1950 at 1:24,000 scale. The two surveys are only in general agreement. Although this Quad. was revised in 1950 the basic survey dates back to 1941-42. Many storms have altered the shorelines. Showing the differences on a discrepancy overlay will not serve any useful purpose, in the opinion of the reviewer.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

There are none in this area.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 213, August 21, 1971 at 1:24,000 scale. It is obvious from the comparison, that the shoreline of this survey has been incorporated on the nautical chart from the "Advance Manuscript."

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Reviewed by:

Bernard Kurs
Cartographer
Approved for Forwarding:

Jeffrey G. Carlen, CDR, NOAA
Chief, Coastal Mapping Division, AMC

Approved:

Alfred C. Holmes, RADM, NOAA
Director, Atlantic Marine Center

Approved:

Pandel C. Youngblood
Chief, Photogrammetric Branch . Chief, Coastal Mapping Division