FORM 604
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey: Shoreline (Photogrammetric)

Field No.: Office No.: T-12974

LOCALITY

State: Massachusetts

General locality: Boston to Plum Island

Locality: Great Misery Island

1966

CHIEF OF PARTY

J. Bull, RADM, Director, Atlantic Marine Center

LIBRARY & ARCHIVES

DATE

USCG-DC 5087
### Descriptive Report - Data Record

**Descriptive Report - Data Record**

**T = 12974**

**Project No. (III):**

Job PH-6601

**Field Office (III):**

Chief of Party

**Photogrammetric Office (III):**

Officer-in-Charge

Atlantic Marine Center

J. Bull, RADM, USNSA, Director, AMC

**Instructions Dated (III):**

- Field - Aug. 4, 1965
- Field - Aug. 19, 1965 Provisional instructions, Aerial photography
- Office - Oct. 8, 1965 Instructions, Aerotriangulation
- Office - Jan. 27, 1966
- Office - Feb. 2, 1966 Instructions, Aerotriangulation
- Office - Apr. 28, 1966
- Field - May 20, 1966 Supplement 1
- Office - July 11, 1966 Supplement 1

**Method of Compilation (III):**

Wild B-8 and graphic

**Manuscript Scale (III):**

1:5,000

**Stereoscopic Plotting Instrument Scale (III):**

1:2,500 pantographed to 1:5,000

**Date Received in Washington Office (IV):**

**Date Reported to Nautical Chart Branch (IV):**

**Applied to Chart No.:**

**Date: SEPTEMBER 1975**

**Date Registered (IV):**

**Geographic Datum (III):**

N.A. 1927

**Vertical Datum (III):**

MLW

**EXCEPT AS FOLLOWS:**

Elevations shown as (7) refer to mean high water

Elevations shown as (5) refer to sounding datum

i.e., mean low water or mean lower low water

**Reference Station (III):**

GREAT MISERY 2 RM NO 1 1916

**Lat.:** 42° 32' 49.56" (1529.1m)

**Long.:** 70° 47' 48.99" (1117.7m)

**State:** Mass.

**Zone:** Mainland

**Roman 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.**
### DESCRIPTIVE REPORT - DATA RECORD

**FIELD INSPECTION BY (II):**

None

**DATE:**

**MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):**

August 1965; Air photo compilation, graphic.

**DATE:**

**PROJECTION AND GRIDS RULED BY (IV):**

**A. E. Roundtree**

5-31-66

**PROJECTION AND GRIDS CHECKED BY (IV):**

**R. Glaser**

6-3-66

**CONTROL PLOTTED BY (III):**

**L. Neterer**

9-26-66

**CONTROL CHECKED BY (III):**

**C. Blood**

9-26-66

**RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):**

**H. P. Richert**

11-1-66

**STEREOSCOPIC INSTRUMENT COMPILATION (III):**

**J. Place**

12-22-66

**CONTOURS**

**Inapplicable**

1-17-67

**MANUSCRIPT DELINEATED BY (III):**

**DATE:**

**SCRIBING BY (III):**

**DATE:**

**PHOTOGRAHAMETRIC OFFICE REVIEW BY (III):**

**C. H. Bishop**

1-20-67

**REMARKS:**
### Descriptive Report - Data Record

**Camera (Kind or Source) (III):**

"S" Camera

<table>
<thead>
<tr>
<th>Photographs (III)</th>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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<tbody>
<tr>
<td></td>
<td>65 S 7172</td>
<td>Aug. 25, 1965</td>
<td>1005 EST</td>
<td>1:15,000</td>
<td>* 8.6 ft. above MLW</td>
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<tr>
<td></td>
<td>65 S 7178 and 7179</td>
<td>&quot;</td>
<td>1011 &quot;</td>
<td>&quot;</td>
<td>* 8.5 &quot;</td>
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<tr>
<td></td>
<td>65 S 7201 thru 7203</td>
<td>&quot;</td>
<td>1019 &quot;</td>
<td>&quot;</td>
<td>* 8.4 &quot;</td>
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<tr>
<td></td>
<td>65 S 7307 thru 7309</td>
<td>Aug. 31, 1965</td>
<td>0838 &quot;</td>
<td>&quot;</td>
<td>*-0.5 ft. below MLW</td>
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<tr>
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<td>65 S 7334</td>
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<td>0857 &quot;</td>
<td>&quot;</td>
<td>*-0.2 &quot;</td>
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<tr>
<td></td>
<td>65 S 7356 thru 7358</td>
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<td>0905 &quot;</td>
<td>&quot;</td>
<td>*-0.1 &quot;</td>
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**Tide (III):**

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<tr>
<th>Reference Station:</th>
<th>Boston (Predicted)</th>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
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<tbody>
<tr>
<td></td>
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<td>9.5</td>
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**Subordinate Station:**

Manchester (Predicted)

<table>
<thead>
<tr>
<th>Washington Office Review by (IV):</th>
<th>Bernard Kurs AMC</th>
<th>Date: Jan., 1974</th>
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</table>

**Proof Edit by (IV):**

Date: 

**Number of Triangulation Stations Searched for (II):**

Recovered: Identified:

**Number of BM(3) Searched for (II):**

Recovered: Identified:

**Number of recoverable Photo Stations Established (III):**

**Number of Temporary Photo Hydro Stations Established (III):**

**Remarks:**

* The stage of tide at time of photography was determined by readings on a staff at Gloucester Harbor (Ten Pound Island) at that time. See Instructions - OFFICE - dated April 28, 1966.
<table>
<thead>
<tr>
<th>Compilation record</th>
<th>Completion date</th>
<th>Remarks</th>
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<tr>
<td>Field Edit Applied</td>
<td>October 1967</td>
<td>Superseded</td>
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<tr>
<td>Final Review</td>
<td>January, 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 aero triangulation.

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-12974
Project PH-6601

There was no field inspection prior to compilation.
PHOTOGRAFMETRIC 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 1:5,000 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 for 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 P. Eichert
AEROTRIANGULATION SKETCH
BOSTON TO PLUM ISLAND
PH-6601
May, 1966

△ control used in adjustment
△ control used as check
1. **STRIP #1**

1. **MEAD 2 (MGS), 1934**
   - Target: (+0.1, +0.1)
   - Sub. pt: (-0.9, +1.2)

2. **CHOATE, 1849**
   - Target: (-0.4, -0.2)

3. **PLUM ISLAND COAST GUARD CUTOFF, 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)

5. **STRIP #2**

5. **STONEHAVEN (ROCKPORT TOWN (MGS)), 1937**
   - Target: (+1.2, -2.6)
   - Sub. pt. A: (-0.7, -1.6)
   - Sub. pt. B: (+1.3, -3.0)

6. **MEAD 2 (MGS), 1934**
   - Target: (0.0, +2.3)
   - Sub. pt: (+0.7, +3.6)
7. MANCHESTER CHURCH DAKR SEIRE, 1840
   target (-6.0, +0.8)
   sub pt. A (-7.1, +3.1)

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

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

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

15. HIGH ROCK 3, 1943
    office identified (+1.8, -3.7)

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

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

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

20. MEDFORD RADIO STATION WEAI-FM TOWER, 1952
    office identified (+2.1, -1.0)

21. MEDFORD TV STATION WNAG TOWER, 1953
    office identified (+5.3, -1.0)
22. Medford Radio Station, WEEI, NE Tower, 1955
   Office identified (+1.4, +3.0)

23. Medford Radio Station, WEEI, SW Tower, 1955
   Office identified (+1.7, +3.1)

Strip #3

23. 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, +9.1)

   Office identified (+1.6, +5.5)

27. Chelsea Quigley Mem. Hospital W.T., 1952
   Office identified (+2.3, -2.0)

27. Revere Catholic Church Tower, 1934
   Office identified (-4.0, -5.0)

28. Revere Beach Stack, 1919
   Office identified (-41, -22)

14. High Rock #2

   Sub. Pt. B (+2.9, +3.2)

16. 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, 1954
   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, 1848
   Target: (-3.5, -5.8)
   Sub pt. A: (-4.1, -5.2)

  Head 2 (MGS), 1954
   Target: (+3.8, -0.7)
   Sub pt. (A): (+6.2, -1.2)

5. Stonehaven (Rockport Town MGS), 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)
39. Danvers, Cooke & Cooke Co. Chimney, 1919
    House STA (-0.78 +0.79)
    SS "A" (-0.01 -0.01)
    SS "B" (-1.83 +1.74)

30. Beverly, United Shoe Mfg. Co. Stk, 1931
    (-0.01 -0.01)

31. Beverly, Odd Fellows Cupola, 1931
    (-1.29 +1.65)

32. Beverly, St. Mary's Church Spire, 1931
    (-1.32 -1.09)

33. Beverly, 1st Baptist Church, 1914
    (+1.35 +1.10)

TIE Points

12601 (-0.78 -6.78)
12602 (-3.79 -3.20)
13601 (-2.56 -2.47)
14601 (-3.15 -1.53)
### DESCRIPTIVE REPORT CONTROL RECORD

<table>
<thead>
<tr>
<th>MAP T-</th>
<th>PROJECT NO.</th>
<th>SCALE OF MAP</th>
<th>SCALE FACTOR</th>
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<td>1297t</td>
<td>PR-6601</td>
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<table>
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<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>N.A. 1927 - DATUM</th>
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<table>
<thead>
<tr>
<th>DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 FT. = 0.3048006 meter)</th>
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<table>
<thead>
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<th>FORWARD</th>
<th>(BACK)</th>
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</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

**COMPUTED BY**

**DATE**

**CHECKED BY**

**DATE**
31. **DELINEATION:**

The mean high water line and some roads were compiled graphically from infrared photographs taken at mean high water. All other features were compiled with the Wild B-8 from color photographs taken at mean low water.

32. **CONTROL:**

See Photogrammetric Plot Report. BOWDITCH LEDGE BEACON 1848 did not hold during compilation. The hydrographer has been asked to verify this position.

33. **SUPPLEMENTAL DATA:**

None

34. **CONTOURS AND DRAINAGE:**

Contours are inapplicable.

Drainage was delineated from office interpretation of the photographs.

35. **SHORELINE AND ALONGSHORE DETAILS:**

See Paragraph 31. The mean low water line, shallow and shoal limits were delineated from office interpretation of the photographs. Rock elevations were determined with the Wild B-8 and are to be verified by the hydrographer.

36. **OFFSHORE DETAILS:**

No statement.

37. **LANDMARKS AND AIDS:**

There are no Landmarks. Form 567 for Aids have been submitted to the Washington Office under date October 27, 1967.
38. **CONTROL FOR FUTURE SURVEYS:**

None

39. **JUNCTIONS:**

Satisfactory junctions have been made with T-12973 (1:5,000 scale) to the West, T-12977 (1:5,000 scale) to the south, T-12980 (1:5,000 scale) to the East, and T-12965 (1:10,000 scale) to the North.

40. **HORIZONTAL AND VERTICAL ACCURACY:**

No statement.

46. **COMPARISON WITH EXISTING MAPS:**

Comparison has been made with USGS Quadrangle MARBLEHEAD NORTH, MASS., Scale 1:24,000, dated 1956.

47. **COMPARISON WITH NAUTICAL CHARTS:**

Comparison has been made with CHART 240, scale 1:25,000, 8th edition, revised February 8, 1965 and CHART 241, scale 1:10,000, 3rd edition, dated September 30, 1963, also CHART 1207, scale 1:80,000, 5th edition, dated May 14, 1962, revised May 18, 1964.

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

None

**ITEMS TO BE CARRIED FORWARD:**

None

Submitted by:

Johnnie S. Place
Cartographer

Approved:

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

FINAL NAME SHEETS

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

T-12974

Allen Head
Beverly Farms
Boston and Maine (RR)
Bowditch Ledge
Chubb Creek
Chubb Island
Coney Ledge
Eagle Island
Great Misery Island
Hardy Rocks
Little Misery Island
North Gooseberry Island
Plum Cove
Pope Head
Salem Channel
Salem Sound
Sauli Rock
Smith Point
West Beach

Prepared by:

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

Separate edit ozalids 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".
**PHOTOGRAMMETRIC OFFICE REVIEW**

**TABLE 12974**

<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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<tr>
<td>CHB</td>
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**CONTROL STATIONS**

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<tr>
<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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**BENCH MARKS**

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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>X</td>
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<td>Bridge - W.O.</td>
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**ALONGSHORE AREAS (Nautical Chart Data)**

<table>
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<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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**AIDS TO NAVIGATION**

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<tr>
<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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<tr>
<th>20. WATER FEATURES</th>
<th>21. NATURAL GROUND COVER</th>
<th>22. PLANETABLE CONTOURS</th>
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**STEREOoscopic INSTRUMENT CONTOURS**

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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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<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>31. BOUNDARY LINES</th>
<th>32. PUBLIC LAND LINES</th>
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**MISCELLANEOUS**

<table>
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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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**DISCREPANCY OVERLAY**

<table>
<thead>
<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**

<table>
<thead>
<tr>
<th>REVIEWER</th>
<th>SUPERVISOR, REVIEW SECTION OR UNIT</th>
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</thead>
<tbody>
<tr>
<td>Charles K. Bishop</td>
<td>A.C. Rauck, Jr.</td>
</tr>
</tbody>
</table>

**REMARKS**

General Notes

The area was field-edited during the period of 16 May through 9 of June 1967. Corrections and additions have been inked on the photographs in black except, Phot pts., nautical aids and MEWL measurements and notes, which are in red and referenced on the discrepancy print in blue.

Rock and ledge areas were investigated at or near low water. The compilation of ledges, rock hts and location of these two features was found to be very good. Rocks verified and new ones are inked on the Photos.

All landmarks and fixed aids were inspected and are submitted on form 567 in accordance with recent field instructions. There are no Naut landmarks recommended for Sheets T-12973 and T-12974. One Beacon is recommended for charts, this beacon is just northwest of Chubb Island. It was identified on Photograph 65-s-7358.

All bluffs were investigated offshore and bluffs recommended for charts are noted on the discrepancy print and referenced to photographs.

Landmark buildings were inspected from offshore and ones recommended for charting are circled on the discrepancy print and referenced to photographs.

Compilation of roads was found to be very good. Two roads recommended for charting are noted on the discrepancy print and referenced to photographs.

All piers in question were investigated and noted on the discrepancy print.

Public buildings are shown on Photos 65-s-7334, 7335, and 7337.

One submerged wreck was located near Little Misery Island and shown on photograph 65-S-7356. The submerged wreck in question near the eastern end of West Beach was not found. This area was thoroughly searched at mean low water.

All marine railways in question are noted on the discrepancy print and referenced to the photograph. There were no boat ramps found in the area of these two T-sheets.
One pipeline in question was investigated and noted on the discrepancy print and referenced to photograph.

A diagram of Salem Harbor was obtained showing the location of this pipeline. Your attention is brought to the outlet area of this pipe, this is not a shoal but the sewerage from this pipeline.

The mean high water line was investigated at several areas other than ones in question, and found to be compiled quite adequate.

Field Edit notations are inked on the following photographs: 65 7334, 7335, 7337, 7338, 7354, 7356, 7357, and 7358

Submitted by,
C.W. Hartford

19 June 1967

cc: CofP 62, CFE/ Rasure
Field Edit Report
Job- PH- 660I
Boston to Plum Island
T- 12973  T- 12974

General Notes

The area was field-edited during the period of 16 May through 9 of June 1967. Corrections and additions have been inked on the photographs in black except Phot pts, nautical aids, and MEWL measurements and notes which are in red and referenced on the discrepancy print in blue.

Rock and ledge areas were investigated at or near low water. The compilation of ledges, rock hts and location of these two features was found to be very good. Rocks verified and new ones are inked on the Photos.

All landmarks and fixed aids were inspected and are submitted on form 567 in accordance with recent field instructions. There are no Naut landmarks recommended for Sheets T-12973 and T-12974. One Beacon is recommended for charts, this beacon is just northwest of Chubb Island. It was identified on Photograph 65-s-7358.

All bluffs were investigated offshore and bluffs recommended for charts are noted on the discrepancy print and referenced to photographs.

Landmark buildings were inspected from offshore and ones recommended for charting are circled on the discrepancy print and referenced to photographs.

Compilation of roads was found to be very good. Two roads recommended for charting are noted on the discrepancy print and referenced to photographs.

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Field Edit notations are inked on the following photographs: 65-7334, 7335, 7337, 7338, 7354, 7356, 7357, and 7358

Submitted by
E. W. Hartford

19 June 1967

cc: CofP 62, CPE/ Rasure
## NONFLOATING AIDS OR LANDMARKS FOR CHARTS

**Atlantic Marine Center**

October 27, 1967

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, J. Bull, RADM, USESSA.

<table>
<thead>
<tr>
<th><strong>STATE</strong></th>
<th><strong>MASSACHUSETTS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CHARTING NAME</strong></td>
<td><strong>DESCRIPTION</strong></td>
</tr>
<tr>
<td><strong>SALEM HARBOR APPROACHES</strong></td>
<td><strong>MAIN CHANNEL</strong></td>
</tr>
<tr>
<td><strong>DAYBEACON</strong></td>
<td>Bowditch Ledge Daybeacon</td>
</tr>
<tr>
<td><strong>MANCHESTER HARBOR</strong></td>
<td><strong>DAYBEACON</strong></td>
</tr>
</tbody>
</table>

* Field Editor submitted Form 567 stating method of location as Triangulation; but verified on Field photo that it did not hold Triang. position. It is now submitted as Photo. located.

** Field editor did not submit Form 567 but verified on Field photo & recommended that it be charted as a daybeacon.

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This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-53, 2-39, 6-36, 7-18 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.
REVIEW REPORT T-12974

SHORELINE

January, 1974

61. GENERAL STATEMENT:

See summary which is age 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A visual comparison was made with Registered Survey number 3765, dated 1919, at 1:10,000 scale. There was only fair general agreement. The date difference preclude any other type of comparison or agreement.

This survey supersedes the prior listed survey for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with USGS Quadrangle Marblehead North, MASS., 1956 at 1:24,000 scale. There is good general agreement between the two surveys.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Direct comparison was made with Boat Sheets H-9046 and H-9095, both dated 1968 and at 1:5,000 scale. There is very good agreement between both surveys.

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with chart 240, May 19, 1973 at 1:25,000 scale. There is good general agreement.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Reviewed by:

[Signature]

Bernard Kurs
Cartographer
Approved for forwarding:

Victor E. Serena  
Chief, Photogrammetric Branch, AMC

Approved:

Randel C. Youngblood  
Chief, Photogrammetric Branch for Chief, Coastal Mapping Division