T-12969

DESCRIPTIVE REPORT

Type of Survey: Shoreline

Job No.: Map No. T-12969

Classification No.: Edition No.: 1

Field Edited

LOCALITY

Massachusetts

State: Boston to Plum Island

General Locality: Hodgkins Cove

Locality

1965 TO 1969

REGISTRY IN ARCHIVES

DATE
DESCRIPTIVE REPORT - DATA RECORD
T-12969

PROJECT NO. (III):
PH-6601

FIELD OFFICE (III):
None

CHIEF OF PARTY

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

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

INSTRUCTIONS DATED (III) (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 I
Office - July 11, 1966 Supplement I

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

MANUSCRIPT SCALE (III):
1:5,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
1:7,500 pantographed to 1:5,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.:

DATE:

DATE REGISTERED (IV):
SEPT. 1975

GEOREGIC DATUM (III):
N.A. 1927

REFERENCE STATION (III):
Gloucester Tank 1935

LAT.:
42° 37' 36.175"

LONG.:
70° 40' 08.439"

ADJUSTED

X UNADJUSTED

PLANE COORDINATES (IV):

F = 593,869.97 Ft.
x = 823, 650.12 Ft.

STATE:
Massachusetts

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当初ALS, NOT INITIALS ONLY.

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

FORM C&GS-181a
(12-61)
### DESCRIPTIVE REPORT - DATA RECORD

**T-12969**

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<th>FIELD INSPECTION BY (II):</th>
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**MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):**

- Air photo compilation
- Date of photography: August 25, 1965

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<td>H.P. Eichert</td>
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<tr>
<td>C.H. Bishop</td>
<td>1/31/68</td>
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**REMARKS:**

...
### PHOTOGRAPHS (III)

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<th>NUMBER</th>
<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tr>
<td>65S(C)7296 thru 7300</td>
<td>Aug. 31, 1965</td>
<td>08:27</td>
<td>1:15,000</td>
<td>0.6 ft. below MLW</td>
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<td>65S-7112R thru 716R</td>
<td>Aug. 25, 1965</td>
<td>09:39</td>
<td>1:15,000</td>
<td>8.7 ft. above MLW</td>
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### TIDE (III)

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<th>RATIO OF RANGES</th>
<th>MEAN RANGE</th>
<th>SPRING RANGE</th>
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<td>SUBORDINATE STATION:</td>
<td>Annisquam, MA</td>
<td>9.0</td>
<td>10.4</td>
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### REMARKS:

*The stage of tide at time of photography was determined from readings on a staff at Plum Island (Merrimack River Entrance). See Instructions, OFFICE, dated April 28, 1966.*
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<td>Alongshore area for hydro</td>
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<td>Field Edit applied:</td>
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<td>Compilation Complete</td>
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<td>Final Review</td>
<td>March, 1974</td>
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JOB PH-6601
BOSTON TO PLUM ISLAND
SHORELINE MAPPING AT 1:5,000 & 1:10,000 SCALE
CHART 613-SC
CHART TOPOGRAPHY AT 1:400,000 SCALE
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-12969

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 1:5,000 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 strip adjustment 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
STRIP #1

1. MEAD 2 (MGS), 1924
   target: (0.1, +0.1)
   sub. pt: (-0.9, +1.7)

2. CHOATE, 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. pt. A: (-0.7, -1.6)
   sub. pt. B: (+1.3, -3.0)

   1. MEAD 2 (MGS), 1924
      target: (0.0, +3.3)
      sub. pt: (+0.7, +3.6)
7. MANCHESTER CHURCH DARK SPIRE, 1842
   tower (-6.0, +0.8)
   sub. pl. 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)

10. 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. pl. A (+3.4, -1.4)

24. CHELSEA QUIGLEY MEM. HOSPITAL W.T., 1958
    office identified (-1.5, +2.2)

20. MEDFORD RADIO STATION WERI-FM TOWER, 1958
    office identified (+2.1, -1.0)

21. MEDFORD TV STATION WNAC TOWER, 1958
    office identified (+5.3, -1.0)
22. Medford Radio Station, West ME Tower, 1953
   Office identified (41.4, 3.0)

23. Medford Radio Station, West SW Tower, 1953
   Office identified (41.7, 3.1)

Strip #3

24. Boston State House, 1934
   Office identified (42.6, 5.5)

25. Boston Custom House Tower, 1916
   Office identified (43.2, 4.0)

26. Charlestown Bunker Hill Mon., 1846
   Office identified (42.2, -0.1)

27. East Boston, Boston and Albany R.R. Tank, 1916
   Office identified (41.6, 5.5)

   Office identified (42.3, -2.0)

29. Revere Catholic Church Tower, 1934
   Office identified (41.0, -5.0)

30. Revere Beach Stack, 1919
   Office identified (41.1, -2.2)

31. High Rock #2
   Sub pt. B (42.9, 3.8)

32. Nahant Coast Guard Cupola, 1919
   Office identified (42.6, 3.4)
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, 1717
   office identified (-0.6, +9.4)

10. Marblehead Lighthouse, 1714
    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 (M65), 1934
    target (+3.8, -0.7)
    sub pt (+6.2, -1.2)

  Stonehaven (Rockport Town M65), 1939
    target (-2.1, +0.3)
    sub pt A (-1.3, +1.6)
    sub pt B (-2.0, +1.2)

  Straitsmouth Lighthouse, 1902
    office identified (-3.1, -5.2)
89  DANNERS, COOKE & COOKE  CO. CHIMNEY, 1819
  HOUSE STA  (-0.78  +0.79)
  SS "A"  (-0.01  -0.01)
  SS "B"  (-1.83  +1.74)

50  BEVERLY  UNITED SHOE MFG. CO. STK., 1934
  (-0.01  -0.01)

51  BEVERLY  J.J. FELLOWS CUPOLA, 1935
  (-1.29  +1.55)

52  BEVERLY  ST. MARY'S CHURCH SPIRE, 1935
  (-1.32  -1.09)

53  BEVERLY  1ST BAPTIST CHURCH, 1915
  (+1.35  +1.10)

TIE POINTS

12601  (-0.28  -6.78)
12602  (-3.79  -3.20)
13601  (-2.54  -3.47)
14601  (-3.15  -1.53)
### DESCRIPTIVE REPORT CONTROL RECORD

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<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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**COMPUTED BY**

**DATE**

**CHECKED BY**

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

The mean high water line was compiled graphically from infrared photographs taken at mean high water. All other detail was compiled using the Wild B-8 plotter.

32. **CONTROL**

See Photogrammetric Plot Report, dated November 1, 1968.

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**

The mean high water line was delineated from office interpretation of infrared photographs taken at mean high water. The mean low water line, rocks, ledges and foul areas were delineated from office interpretation of the color photographs taken at mean low water.

36. **OFFSHORE DETAILS**

All offshore details were delineated by office interpretation of the photographs.

37. **LANDMARKS AND AIDS**

Appropriate copies of Forms 567 have been submitted to the Washington office Dec. 9, 1968.
38. **CONTROL FOR FUTURE SURVEYS**

   None.

39. **JUNCTIONS**

   Junctions have been made with T-12967 (1:10,000) to the south and east; T-12963 (1:10,000) and T-12969 (1:5,000) to the north; and T-12966 (1:5,000) to the west.

40. **HORIZONTAL AND VERTICAL ACCURACY**

   No statement.

46. **COMPARISON WITH EXISTING MAPS**

   Comparison has been made with USGS Quadrangle Gloucester, MA, scale 1:24,000, dated 1960.

47. **COMPARISON WITH NAUTICAL CHARTS**


**ITEMS TO BE APPLIED TO NAUTICAL CHARTS**

   None.

**ITEMS TO BE CARRIED FORWARD**

   None.
Submitted:

A.L. Shands
Cartographic Technician
12/9/68

Approved:

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

FINAL NAME SHEETS

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

T-12969

Annisquam
Annisquam River
Bay View
Davis Neck
Goose Cove
Hodgkins Cove
Ipswich Bay
Lansford Pond
Lobster Cove
Mill Pond
Mill River
Plum Cove
Riverdale
Riverdale Station
Strangman Pond

Prepared by:

C. E. Harrington
Staff Geographer
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".
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**Control Stations**

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<td>5. Horizontal Control Stations of Third-Order or Higher Accuracy</td>
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**Bench Marks**

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**Alongshore Areas (Nautical Chart Data)**

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**Aids to Navigation**

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**Physical Features**

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**Cultural Features**

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**Cultural Features**

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**Boundaries**

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**Miscellaneous**

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<td>34. Juncions</td>
<td>35. Legibility of the Manuscript</td>
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**Discrepancy Overlay**

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**Reviewers**

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<tbody>
<tr>
<td>C.H. Bishop</td>
<td>1/31/68</td>
<td>A.C. Rauck</td>
</tr>
</tbody>
</table>

**Remainder Text**

Field Edit applied from: Field Edit Ozalid (T-12969)  
Field photos (Matte Ratio Prints)  
65S-7297, 7299 (1:5,000)  
65S-7210 (1:10,000)
FIELD EDIT REPORT
JOB PH-6601
Map T-12963
Massachusetts

This map was field-edited during June and July 1969. The map was compiled without field inspection prior to compilation, therefore, a complete and thorough field edit was done. All field notes were made in violet ink on the ratio prints and referenced from the field edit sheet.

52. ADEQUACY OF COMPILATION

The adequacy of the compilation was good; especially the compilation of ledges and foreshore.

54. RECOMMENDATIONS

None

56. LANDMARKS AND AIDS

Form 567 is submitted for all nautical landmarks and fixed aids within the limits of this map. Charting names for several nautical landmarks have been recommended for change. Many landmark buildings (not nautical landmarks) were deleted on the field edit ozalid. They were not prominent nor were they considered of any value as a landmark building. See Field Edit Report for Map T-12962 concerning submission of Form 567 in this area.

57. ROCKS AND ROCK LEDGES

The Hydrographic Party in 1967 edited a portion of this map for rocks. This field editor only edited the portions not resolved previously. All rock inspection was done at or near low-water. Elevations of rocks at low-water have generally been found to be shown too low by compiler; maybe caused by sea-growth on rocks. Individual rock symbols have been shown in many places where the field editor believes the areas would be better represented by a ledge symbol.

58. MISCELLANEOUS

Several streets, roads, highway numbers etc. have been shown by notation on the field edit ozalid. All of Map T-12969 and a part of Map T-12968 fall within the limits of this map. Separate field edit ozalids for these two maps have been submitted. Field edit corrections have been shown on the following photographs: 65-3-7210, 65-3-7297 and 65-3-7299.

Submitted By:
Ernest W. Hartford
Surveying Technician
July 10, 1969
U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Atlantic Marine Center July 22 1969

Charles H. Bishop Allen L. Powell, Director

<table>
<thead>
<tr>
<th>STATE</th>
<th>MASSACHUSETTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td><strong>SPIRE</strong></td>
<td>IPSWICH BAY</td>
</tr>
<tr>
<td><strong>CHURCH SPIRE</strong></td>
<td></td>
</tr>
</tbody>
</table>

NOTE: These are name changes for presently charted landmarks

* See CUPOLA, White, cupola on church ht = 60 (116) on Form 567, to be charted.
** See CHURCH TOWER, square white tower, ht = 75 (125) on Form 567, to be charted.

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if re-determined, 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
# Nonfloating Aids or Landmarks for Charts

**Atlantic Marine Center**

**July 22, 1969**

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 Charles H. Bishop and Allen L. Powell, Director, AEO of Party.

<table>
<thead>
<tr>
<th>State</th>
<th>Massachusetts</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Charting Name</th>
<th>Description</th>
<th>Signal Name</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Datum</th>
<th>Method of Location and Survey No.</th>
<th>Date of Observation and Survey No.</th>
<th>Charts Affected</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPSWICH BAY</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIGHT</td>
<td>Annisquam River</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Channel Light 15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>42 38</td>
<td>1708</td>
<td>70 40</td>
<td>954</td>
<td>1927 T-12969 6-23-69x</td>
<td>243</td>
</tr>
</tbody>
</table>

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*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 Charles H. Bishop

Charles H. Bishop

Allen L. Powell, Director

<table>
<thead>
<tr>
<th>STATE</th>
<th>MASSACHUSETTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>CHURCH</td>
<td>Square white tower ht = 75 (125)</td>
</tr>
<tr>
<td>TOWER</td>
<td>White cupola on church</td>
</tr>
<tr>
<td></td>
<td>ht = 60 (110)</td>
</tr>
</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 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-12969
SHORELINE
MARCH, 1974

61. GENERAL:
    See summary which is pg. 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:
    Comparison was made with T-11155 field inspected 1953 and
    with 1953 photography at 1:10,000 scale. There is good general
    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 U.S.G.S. Quadrangle
    Gloucester, MA, 1:24,000 dated 1960. The two surveys are in very
    good agreement.

65. COMPARISON WITH NAUTICAL CHARTS:
    Comparison was made with chart 233 dated Jan. 6, 1973 at
    1:10,000 scale. There is very 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:
    
    Bernard Kurs
    Cartographer
Approved for forwarding:

Victor E. Serena
Chief, Photogrammetric Branch, AMC

Approved:

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