**Diag. Cht. No. 1206.**

**U.S. COAST AND GEODETIC SURVEY**
**DEPARTMENT OF COMMERCE**

**DESCRIPTIVE REPORT**

**Type of Survey** Shoreline

**Field No.** Ph-116b(53) **Office No.** T-1155

**LOCALITY**

**State** Massachusetts

**General locality** Cape Ann

**Locality** Halibut Point to Essex River

1945-52-53

**CHIEF OF PARTY**
E.H. Kirsch, Chief of Field Party
I.R. Rubottom, Tampa Photo. Office

**LIBRARY & ARCHIVES**

**DATE** December 17, 1959
DATA RECORD

T - 11155

Project No. (II): PH-1155 (53)  Quadrangle Name (IV):

Field Office (II): MEMPHISFT, MASS.  Chief of Party: E. H. Kirsch

Photogrammetric Office (III): TAMPA, FLA.  Officer-in-Charge: Ira R. Babcock

Instructions dated (II) (III): 13 March 1953
Supplement No. 1  28 March 1953
  No. 2  30 April 1953
  No. 3  6 May 1953
  No. 4  26 June 1953
  No. 5  25 June 1953

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000  Stereoscopic Plotting Instrument Scale (III): Inapplicable

Scale Factor (III): None

Date received in Washington Office (IV): Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 7/3/55

Publication Scale (IV):

Geographic Datum (III): M.A. 1927

Vertical Datum (III): M. E. V.

M.N. E. V. except as follows:
Elevations shown as (26) 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): COFF 1928

Lat.: 129° 39' 07.721 (244.4 m.) Long.: 70° 11' 37.559 (655.5 m.) Adjusted

Plane Coordinates (IV):

Y = X =

Roman numerals indicate whether the item is to be entered by (II) 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.
Areas contoured by various personnel
(Show name within area)
(II) (III)
DATA RECORD

Field Inspection by (II):
H. E. Spies
L. F. Bengust
Date: Sept. 1953

Planetable contouring by (II):
Inapplicable
Date:

Completion Surveys by (II):
Inapplicable
Date:

Mean High Water Location (III) (State date and method of location):
1 Sept. 1953
Air Photo Compilation

Projection and Grids ruled by (IV):
J. A. (W.O.)
Date: 13 April 1953

Projection and Grids checked by (IV):
E. D. W. (W.O.)
Date: 21 April 1953

Control plotted by (III):
R. A. Reese
Date: 20 Oct. 1953

Control checked by (III):
J. E. Johnson
Date: 20 Oct. 1953

Radial Plot or Stereoscopic:
M. H. Slavney
Date: 23 Nov. 1953

Control extension by (III):

Pianometry
Inapplicable
Date:

Contours

Stereoscopic Instrument compilation (III):

Manuscript delineated by (III):
R. E. Wagner
Date: 6 June 1954

Photogrammetric Office Review by (III):
J. A. Giles
Date: 27 Aug. 1954

Elevations on Manuscript
Inapplicable
Date:
<table>
<thead>
<tr>
<th>Number</th>
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<th>Time</th>
<th>Scale</th>
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<tr>
<td>53-J-110</td>
<td>18 Apr. 1953</td>
<td>Low-water photography</td>
<td>1:10,000</td>
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<tr>
<td>53-J-252</td>
<td>22 Apr. 1953</td>
<td></td>
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<td>53-J-258</td>
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<td>262 incl.</td>
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<td>53-J-272</td>
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<tr>
<td>DPP-9E-145 to 148 incl.</td>
<td>26 Aug. 1952</td>
<td>1:15 - 1:16</td>
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<tr>
<td>DPP-9E-159 to 163 incl.</td>
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<td>1:25 - 1:27</td>
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<tr>
<td>DPP-9E-165 to 168 incl.</td>
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<td>1:31 - 1:36</td>
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<tr>
<td>DPP-9E-176 to 180 incl.</td>
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<td>1:43 - 1:47</td>
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**Reference Station:** PORTLAND

**Subordinate Station:** AMESQUIN

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<th>Spring Range</th>
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<td>1.0</td>
<td>8.5</td>
<td>9.9</td>
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**Washington Office Review by (IV):**

**Final Drafting by (IV):**

**Drafting verified for reproduction by (IV):**

**Proof Edit by (IV):**

**Land Area (Sq. Statute Miles) (III):** 7

**Shoreline (More than 200 meters to opposite shore) (III):** 53

**Shoreline (Less than 200 meters to opposite shore) (III):** Inapplicable

**Control Leveling - Miles (II):**

**Number of Triangulation Stations searched for (II):** 30

**Number of BMs searched for (II):**

**Number of Recoverable Photo Stations established (III):** 20

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

**Remarks:**

- One station established
- Tidal Bench Marks only

Form T-Page 4
Summary to Accompany T-11155

Field instructions were issued for Ph-114 on 13 March 1953 to provide shoreline and control for inshore hydrographic surveys and to provide standard shoreline manuscripts for chart compilation. The hydrographic phase of this surveying was project CS 355 (Plum Island Sound to Portsmouth Harbor) and CS 361 (Cape Porpoise Harbor).
THE FIELD INSPECTION REPORT
Filed with Report T11148
WAS-SUBMITTED-SEPARATELY
COMPILATION REPORT R-11155

PHOTOGRAMMETRIC PLOT REPORT.
This report will be submitted separately.

31. DELINEATION.
The graphic method was used.

The 53-J series of photographs taken on 26 August 1953 was not used to an appreciable extent because of poor quality. The scale was very poor and the detail was not clear.

The 53-J series of photographs taken on 18 April 1953 (low-water photographs) were at poor scale. The projector was used for the delineation from these photographs.

32. CONTROL.
Reference Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA.
None

34. CONTOURS AND DRAINAGE.
Contours are inapplicable.

Drainage has been shown according to field inspector’s notes or photo interpretation.

35. SHORELINE AND ALONSHORE DETAILS.
The shoreline and alongshore details have been delineated according to the field inspector’s notes and stereoscopic study. The inspection was adequate.

The low-water line was delineated from data furnished by the field inspection on the low-water photography.

36. OFFSHORE DETAILS.
No unusual problems were encountered during the delineation of offshore details.
37. **LANDMARKS AND AIDS.**

Landmarks are to be submitted by the hydrographic party.

Two (2) non-floating aids, ESSEX BAY CHANNEL DAYBEACON 3 and
AMESQUAM RIVER DAYBEACON 27, are not shown on the manuscript. No
data for the location of these aids could be found in this office.

38. **CONTROL FOR FUTURE SURVEYS.**

One hundred and fifty four (154) temporary photo-hydro stations
were established and are listed under Item 49.

39. **JUNCTIONS.**

Survey No. T-11154 to the west, Survey No. T-11156 to the east
and Survey No. T-9079 to the south are in agreement. There is no
contemporary survey to the north.

40. **HORIZONTAL AND VERTICAL ACCURACY.**

No statement.

46. **COMPARISON WITH EXISTING MAPS.**

Comparison was made with Army Map Service Quadrangle, GLoucester,
The two are in fair agreement.

47. **COMPARISON WITH NAUTICAL CHARTS.**

Comparison was made with USCG&G Nautical Chart No. 233, scale
1:10,000, published in September 1942, corrected to 27 May 1953. The
two are in fair agreement. Some small islands in the rivers appearing
on the chart are not shown on the manuscript. Some of these islands
are shown as grass in water. Comparison was also made with USCG&G
Nautical Chart No. 243, scale 1:20,000 published in July 1938, corrected to 25 May 1953. The two are in fair agreement. There are some rocks appearing on the chart in ESSEX BAY that were not identified by the field inspector which have not been shown. The map listed in Item 6 does not appear to be the source of topography.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

NONE.

ITEMS TO BE CARRIED FORWARD.

None.

Robert R. Wagner
Carto Photo Aid

APPROVED AND FORWARDED.

Ira R. Rubottom, Chief of Party
61. **General:**

Stick-up was applied to the map manuscripts in this project as a part of the compilation process, i.e., prior to review. The map manuscripts at this phase are labeled "Advance Print".

These map manuscripts were not altered during review. Any additions, alterations, or deletions recommended by the reviewer were recorded on review correction overlays to be used by the drafting section for application of the called-for revisions on black line impressions on vinylite. These positives on vinylite, with corrections applied, serve as the final map manuscripts.

62. **Comparison with Registered Surveys:**

- T-341 & a 1:10,000 1851, 1910 Cape Ann
  Some off-shore rock ledges between Bay View and Lanesville are not on T-11155 because they were not visible on the photographs and field inspection did not extend so far from shore.

- T-396 & a 1:10,000 1852-3, 1910, Annisquam
- T-556 & a 1:10,000 1852-3, 1910, Essex Bay-Castle Neck.
  The rocks in Essex Bay are not delineated on T-11155. Field inspection indicated grass only.
- T-4394 1:5,000 1928, Ipswich Bay-Annisquam River
  Islands in Jones River and Mills River are mapped as grass-in-water on T-11155. No islands appear in Annisquam River, but low-water and flats include the areas mapped as islands on T-4394.
  Except for off-shore rocks or ledges not covered by field inspection, T-11155 supersedes the older surveys for charting purposes.

63. **Comparison with Maps of Other Agencies:**

- USE Gloucester, Mass. 1:25,000 1950
  T-11155 supersedes the quadrangle for shoreline and planimetry for charting the area of T-11155.

64. **Comparison with Contemporary Hydrographic Surveys:**

There is no contemporary hydrographic survey.

65. **Comparison with Nautical Charts:**

- 233 1:10,000 ed. Sept., 1942 corr. May, 1952
  Landmarks charted but not on T-11155.
  Tower and chimney at Twopenny Loaf.
  Radio: This appears to be on the same building as hydro 55117 (gable of house).
  Flagstaff: This appears to be on the same building as hydro 55112 (chimney of house).
  Except for off-shore rocks not delineated, T-11155 supersedes the shoreline and culture of the charts in their common areas.
66. **Accuracy**

This map manuscript meets the National Standards of Accuracy.

Reviewed by:

Lena T. Stevens

APPROVED:

L. C. Lande
Chief, Review Section
Div. of Photogrammetry

Map Bricker
Chief, Nautical Chart Branch
Div. of Charts

W. Steenborn
Chief, Div. of Photogrammetry
24 Nov 59

J. Bowie
Chief, Div. of Coastal Surveys
48. **GEOGRAPHIC NAME LIST.**

All names shown are base map names. No additions or deletions were submitted by the field inspector.

- Annisquam
- Annisquam River
- Annisquam Yacht Club
- Atlantic Street
- Parish Point
- Bay View
- Castle Neck
- Castle Neck River
- Coffin Beach
- Coles Island
- Concord Street
- Concord Point
- Cross Island
- City Landing
- David Neck
- Essex Bay
- Essex River
- Farm Creek
- Farm Point
- Ferry Hill
- Folly Cove
- Folly Point
- Goose Cove
- Gravinte Street
- Great Bank
- Halibut Point
- Hodges Cove
- Hully Street
- Ipswich Bay
- Jones River
- Lanes Cove
- Lanesville
- Lobster Cove
- Long Island
- Logan's Grove Cemetery
48. GEOGRAPHIC NAME LIST (CONTINUED)

MASSACHUSETTS
MILL BROOK
MILL RIVER

OAK ISLAND

PEARCE ISLAND
PLUM COVE

RAM ISLAND
RIVERDALE
RIVERVIEW
ROCKPORT
RUST ISLAND

SEASIDE CEMETERY
STATE HIGHWAY 127
STATE HIGHWAY 128
SUNSET HILL

THATCHER ROAD
THRUSTON POINT
TOMY ISLAND
TWOPENNY LOAF

WALKER CREEK
WASHINGTON STREET
WHEELER POINT
WHEELER STREET
WINGABERSHEEK BEACH
NOTES FOR THE HYDROGRAPHER.

The following photo-hydro stations were identified in the field and are listed for the use of the hydrographer:

5436 - Cupola, red barn, tin roof.
5516 - Southerly gable, red building.
5521 - East gable dark gray house, white trim.
5522 - NE gable light tan f house.
5503 - Cupola with weathervane, large slate roof house.
5504 - East gable large stone house, light roof.
5505 - Restaurant cupola.
5506 - Apex of roof of square cupola, at westerly end of yellow house, red roof.
5507 - Front gable, brick house.
5508 - Cupola, shingled barn, light brown roof.
5509 - North gable, gray cottage.
5510 - Corner of breakwater.
5511 - Wasterly gable of large warehouse.
5512 - NE gable of gable roof house on rock ledge.
5513 - Chimney, large brown house on hill.
5514 - Lanesville, Sacred Heart Church spire.
5515 - North gable of old house.
5516 - NW gable of large warehouse.
5517 - West gable of building on wharf.
5518 - Bayview, Methodist Church spire.
5519 - Metal chimney, Consolidated Lobster Company.
5520 - Flagpole at center of sundock, green roof house.
5521 - Wasterly gable of combination house and garage.
5522 - Apex of roof, octagonal shape, brown house.
5523 - West gable of large brown and white house with porch on 3 sides.
5524 - Gable of northerly wing of large, white "U" shaped house.
5525 - Spire, Annisquam Village church.
5526 - SW gable of gray house with angle wing.
5527 - Center chimney on SW slope of roof of large stucco house.
5528 - Corner of bulkhead.
5529 - Corner of bulkhead.
5530 - Corner of bulkhead.
5531 - Corner of bulkhead.
5532 - Corner of bulkhead.
5533 - Corner of bulkhead.
5534 - SE gable, main wing of Yacht Club.
5535 - West gable of house, skylights in roof.
5536 - North gable large shingled building.
5537 - West gable, large shingled house, red roof.
5538 - North gable tan and white house.
5539 - West gable yellow building.
5540 - Highest point, large boulder.
5541 - West gable, small shed.
5542 - Corner of rock bulkhead.
5543 - Riverdale Church spires.
5544 - West gable shingled building.
5545 - Chimney at north gable, gray house.
5546 - Monument.
5547 - Chimney, yellow house, red roof.
5548 - West gable, white cottage, black roof.
5549 - East gable red cottage.
5550 - Chimney, large yellow house, gray-green roof.
5551 - East gable, gray house, light brown roof.
5552 - East gable, asbestos shingled house, green roof.
5553 - Southwest corner of bulkhead.
5554 - North gable, gray house, green roof.
5555 - Apex roof, dark brown house.
5556 - West gable of yellow shingled house.
5557 - Brick chimney, white house, black trim.
5558 - East gable, small cottage.
5559 - West gable house.
5560 - Corner of bulkhead.
5561 - South gable house.
5562 - North gable of pink cottage.
5563 - Corner of bulkhead.
5564 - NW gable of house.
5565 - NW gable of house.
5566 - SE corner of fixed pier.
5567 - West gable, two-story house, porch on north side.
5568 - NW corner of porch, house on piles.
5569 - West gable, white house, light green roof.
5570 - SE corner, red modernistic house.
5571 - Northerly corner of tan modernistic house.
5572 - Chimney, gray modernistic house, light green roof.
5573 - Stone chimney, modernistic house.
5574 - Cupola, southeast corner brown shingled house, light roof.
5575 - Northerly gable, house on hill.
5576 - Southerly gable, yellow house, green roof.
5577 - White chimney with black top, white house, black roof.
5578 - Apex red roof, gray house.
5579 - Chimney, brown modernistic house.
5580 - Highest point of boulder.
5581 - Front gable, shingled house, stone foundation.
5582 - Southeast corner of pier.
5583 - North gable of cottage.
5584 - East gable of house.
5585 - Front gable of red house.
5586 - Corner of bulkhead.
5587 - Center of fastest offshore, bare boulder.
5588 - Northeast gable of tall narrow building.
5589 - Apex of garage roof.
5590 - Chimney with TV aerial at apex of house roof.
5591 - North gable, gray cottage, green and red roof.
5592 - East gable, yellow cottage, gray roof.
5593 - Southeast corner of pool.
5594 - Chimney, brown house, red roof.
5595 - Highest point of large boulder.
5596 - North gable of boat house.
5597 - East gable, brown and white house.
5598 - East gable, gray shingled house, green roof.
5599 - Northwest bridge tower.

5600 - Northeast bridge tower.
5601 - Northeast gable, large building in boatyard.
5602 - North gable of house.
5603 - Highest point of painted rock.
5604 - Small pavilion at corner of bulkhead.
5605 - Chimney at east end of stone house.
5606 - West gable, large shingled house.
5607 - Northwest gable, yellow house, white trim, red shutters.
5608 - North gable, large green house, white trim.
5609 - Chimney at south gable large building, tan roof.
5610 - North gable of green shingled boathouse.
5611 - Easterly of two white chimneys with black tops.
5612 - Most northernly chimney of large house.
5613 - Corner of concrete bulkhead.
5614 - Center of end of rock pier.
5615 - Northeast gable, brown house, green roof.
5616 - Stone chimney on north wing of brown house.
5617 - Northerly gable, white house, green roof.
5618 - East gable, white house, green roof.
5619 - East gable green cottage, black roof.
5620 - South gable of white cottage.
5621 - Inside, northwest corner of pool ruins.
5622 - North gable of house.
5623 - East gable of barn.
5624 - West gable of barn.
5625 - North gable of house.
5626 - Brick chimney, gray house, green roof.
5627 - Chimney of white and green house, gray roof.
5628 - East gable of white house.
5629 - East gable yellow house, black trim.
5630 - Northerly gable of red barn.
5631 - West gable, tan house, red roof.
5632 - Chimney of stone house ruins.
5633 - North gable, three-story dark brown house.
5634 - Hexagonal tower.
5635 - East gable, light gray house.
55136 - End of stone fence.
55137 - Northeast gable, large white house, gray roof.
55138 - Northeast gable of house.
55139 - Front gable, shingled house.
55140 - West gable of large barn.
55141 - South gable of most southerly cottage.
55142 - Cupola, large house.
55143 - Gable of gray house.
55144 - Chimney at westerly gable, shingled house with studio window.
55145 - South gable, cottage.

5637 - Silver spire, gilt cross, Finnish Lutheran Church.
5640 - Chimney of white concrete, modernistic building.
5642 - North gable of large granite building with two chimneys.

79102 - Corner of base of abutment.
79103 - Southeast bridge tower.
79104 - Southwest bridge tower.
79105 - Corner of base of abutment.
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

Robert E. Yapen

Ira E. Robert
Chief of Party.

<table>
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<th>STATE</th>
<th>MASSACHUSETTS</th>
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<td>DESCRIPTION</td>
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<tr>
<td>CHANNEL 3</td>
<td>Black, on stone ledge, tank on</td>
</tr>
<tr>
<td></td>
<td>and on iron spindle</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>MEMPHIS RIVER</td>
<td>White cylindrical tower; elevated</td>
</tr>
<tr>
<td>MEMPHIS 7</td>
<td>Black, tank on masts on iron</td>
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<td>spindle, on stone masts.</td>
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<tr>
<td>MEMPHIS 29</td>
<td>Red caps on masts on iron</td>
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<tr>
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<td>spindle, on stone masts.</td>
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<tr>
<td>MEMPHIS 15</td>
<td>Black cylindrical structure</td>
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<tr>
<td>MEMPHIS 25</td>
<td>Black cylindrical structure</td>
</tr>
<tr>
<td>MEMPHIS 27</td>
<td>Black iron spindle</td>
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<td>MEMPHIS 30</td>
<td>Red cylindrical structure</td>
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*Yield inspector did not give the angle and distance to these aids from sub. pls.*
PHOTOGRAMMETRIC OFFICE REVIEW

T-11155


CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy H.H.S.  6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) XX  7. Photo hydro stations J.G.  8. Bench marks J.G.


ALONGSHORE AREAS
(Nautical Chart Data)


PHYSICAL FEATURES


CULTURAL FEATURES


BOUNDARIES

31. Boundary lines XX  32. Public land lines XX

MISCELLANEOUS


40. Jesse A. Gillis
Reviewer

William A. Ramure
Supervisor, Review Section or Unit.

41. Remarks (see attached sheet)

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.

43. Remarks: 
### Record of Application to Charts

<table>
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<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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<td>243</td>
<td>John Edwards</td>
<td>After Verification and Review No correction Superseded by 8203475 (T-12963) 82084634</td>
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<tr>
<td>9-7-72</td>
<td>233</td>
<td>J. Bailey</td>
<td>No corr. Superseded by T-12962 and T-12963 Before After Verification and Review</td>
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</table>

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under “Comparison with Charts” in the Review.