Form 504  
U. S. COAST AND GEOETIC SURVEY  
DEPARTMENT OF COMMERCE  

DESCRPTIVE REPORT  

Type of Survey  Shoreline  

Field No. Ph-11h  Office No. T-11153  

LOCALITY  
State  Massachusetts  
General locality  Plum Island  
Locality  Rowley River to Ipswich Bay  

194/52-53  

CHIEF OF PARTY  
J. H. Kirsch, Chief of Field Party  
L. B. Robottom, Temp. Photo. Office  

LIBRARY & ARCHIVES  
DATE  September 15, 1953  

COMPILATION REPORT T-11154

31. DELINEATION

Since the hydrographic party is in urgent need of the manuscript to start its survey, only shoreline, foreshore details and control have been shown. The delineation remaining will be completed when the manuscript and data are returned from the field. The compilation report will be completed at that time.

The 53-J series of photographs was not used to any appreciable extent because of poor quality. The scale was not good nor was the detail at all clear. Had it been necessary to use these photographs in delineating the manuscript, it would have increased the time and labor considerably.

Since T-11154, which joins this survey to the south, is not being compiled at this time, shoreline detail has been delineated beyond the neat line so that the hydrographic party can complete their surveys in the tributaries extending into T-11154. This shoreline has been transferred to T-11154.

35. SHORELINE AND ALONGSHORE DETAILS

The mean high-water line, the approximate low-water line, piers, bulkheads, rocks and other features along the shoreline have been shown according to field inspection notes, which are considered adequate.

For this first submission of the manuscript, the delineation is based almost entirely on data furnished by the field party.
37. **LANDMARKS AND AIDS**

Landmarks will be submitted by the hydrographic party. Form 567 is being submitted for IPSWICH LIGHT. BASS ROCK DAYBEACON could not be charted since it has not yet been identified in the field.

38. **CONTROL FOR FUTURE SURVEYS**

Eighteen (18) photo-hydro stations with descriptions have been listed under Item 49.

Richard A. Reece  
Carto Photo Aid

**APPROVED AND FORWARDED**

William A. Raun
For J. E. Waugh, Chief of Party
NOTES FOR THE HYDROGRAPHER

PHOTO-HYDRO STATIONS

-5901-Gable of perch on 1-11-54.

HIM 5301 House chimney
PIE 5302 Northerly corner of pier
HUD 5303 Northwest gable of house in ruins (Most N'westerly house on Stage I)*

FIX 5304 Southerly gable of house
--- 5305 Northerly gable of building in marsh
--- 5306 Northeast corner of shack
cor of shack
--- 5307 Southeast corner of shack

cor of shack

SIT 5308 House cupola
WAG 5309 West gable of large shed
MUT 5310 Center of most northerly set of piles
gw of pile
LOG 5311 Center of inshore end of pier

--- 5312 Southerly gable of boat shed (Marine rwy at front of building)

NOR 5313 Northerly gable of house
gw of house
BAK 5314 South gable of barn
gw of barn

APX 5315 Apex of house roof

PIL 5316 East gable of large barn
gw of barn

STE 5317 Northeast corner of dance hall

* This island is shown as GRAPE ISLAND on Army Map Service

Topographic quadrangle IPSWICH.
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

<table>
<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DATE OF LOCATION</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>HARBOR CHART</th>
<th>LANDMARK CHART</th>
<th>CHARTS AFFECTED</th>
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<td>D.N. METERS</td>
<td>D.P. METERS</td>
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</table>

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating
PHOTOGRAHMETRIC OFFICE REVIEW
T-11153

1. Projection and grids J.G.
2. Title J.G.
3. Manuscript numbers J.G.
4. Manuscript size J.G.

CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy M.M.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.
9. Plotting of sextant fixes XX
10. Photogrammetric plot report J.G.
11. Detail points J.G.

ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline J.G.
13. Low-water line J.G.
14. Rocks, shoals, etc. J.G.
15. Bridges J.G.
16. Aids to navigation J.G.
17. Landmarks XX
18. Other alongshore physical features J.G.
19. Other alongshore cultural features J.G.

PHYSICAL FEATURES
20. Water features XX
21. Natural ground cover XX
22. Planetary contours XX
23. Stereoscopic Instrument contours XX
24. Contours in general XX
25. Spot elevations XX
26. Other physical features XX

CULTURAL FEATURES
27. Roads XX
28. Buildings XX
29. Railroads J.G.
30. Other cultural features J.G.

BOUNDARIES
31. Boundary lines XX
32. Public land lines XX

MISCELLANEOUS
33. Geographic names J.G.
34. Junctions J.G.
35. Legibility of the manuscript J.G.
36. Discrepancy overlay XX
37. Descriptive Report J.G.
38. Field inspection photographs J.G.
39. Forms J.G.

40. J.G. 

Reviewer

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.

Compiler

Supervisor

43. Remarks: M-2623-12
DATA RECORD

T - 11153

Project No. (II): PH-114(53) Quadrangle Name (IV):

Field Office (II): NEWBURYPORT, MASSACHUSETTS Chief of Party: E. H. Kirsch

Photogrammetric Office (III): TAMPA, FLORIDA Officer-in-Charge: Ira R. Rubottom

Instructions dated (II) (III): 20 February 1953
Supplement No. 1 - 28 March 1953
n No. 2 - 30 April 1953
n No. 3 - 6 May 1953
n No. 4 - 26 May 1953
n No. 5 - 25 June 1953

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): 7/28/53 Date reported to Nautical Chart Branch (IV): 6/1/53

Applied to Chart No. Date: Date registered (IV): 4/10/58

Publication Scale (IV):

Geographic Datum (III): N. A. 1927

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<th>Vertical Datum (III): MNW.</th>
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</thead>
<tbody>
<tr>
<td>Elevations shown as (26) refer to mean high water</td>
</tr>
<tr>
<td>Elevations shown as (25) refer to sounding datum</td>
</tr>
<tr>
<td>i.e., mean low water or mean lower low water</td>
</tr>
</tbody>
</table>

Reference Station (III): CASTLE HILL 137, 1941

Lat.: 42° 46' 21" 47' (755.2m.) Long.: 70° 46' 35" 644 (811.4m.)

Adjusted

Plane Coordinates (IV):

State: Zone:

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

MANUSCRIPT

SHORELINE
DATA RECORD

Field Inspection by (II): 
H. R. Spies
I. F. Beagnet

Date: April 1953

Planetable contouring by (II): 
(Shoreline Survey)

Date:

Completion Surveys by (II): 
(Shoreline Survey)

Date:

Mean High Water Location (III) (State date and method of location): 
(Preliminary Compilation)
Air Photo Compilation
October 1953

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

Projection and Grids checked by (IV): 
H. D. Wolfe (W.O.)
Date: 14 April 1953

Control plotted by (III): 
I. I. Saperstein
Date: 4 May 1953

Control checked by (III): 
R. J. Pate
Date: 5 May 1953

Radial Plot or Stereoscopic Control extension by (III):
M. M. Slavney
Date: 2 June 1953

Stereoscopic Instrument compilation (III): 
Planimetry
Inapplicable

Contours

Manuscript delineated by (III): 
R. A. Rasee (Revision & Completion)
Date: 12 February 1954

Photogrammetric Office Review by (III): 
J. A. Giles
Date: 4 April 1954

Elevations on Manuscript checked by (II) (III): 
Inapplicable

Form T-Page 3
M-2618-12(4)
**Photographs (III)**

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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<td>12:07-12:09</td>
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**From Predicted Tides**

<table>
<thead>
<tr>
<th>Reference Station:</th>
<th>Portland, Maine</th>
<th>Ipswich River Entrance</th>
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<table>
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<tr>
<th>Washington Office Review by (IV):</th>
<th>Date:</th>
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<tr>
<td>Final Drafting by (IV):</td>
<td>Date:</td>
</tr>
<tr>
<td>Drafting verified for reproduction by (IV):</td>
<td>Date:</td>
</tr>
<tr>
<td>Proof Edit by (IV):</td>
<td>Date:</td>
</tr>
</tbody>
</table>

**Land Area (Sq. Statute Miles) (III):** 10

**Shoreline (More than 200 meters to opposite shore) (III):** 70

**Shoreline (less than 200 meters to opposite shore) (III):** 0

**Control Leveling - Miles (II):** 0

**Number of Triangulation Stations searched for (II):** 9
**Recovered:** 9
**Identified:** 5

**Number of BMs searched for (II):** 3
**Recovered:** 3
**Identified:** 1

**Number of Recoverable Photo Stations established (III):** 0
**Number of Temporary Photo Hydro Stations established (III):** 28

**Remarks:**

*Ten (10) of these stations are in addition to those located on the preliminary survey. They were selected and located by the photogrammetric field party.*
Field instructions were issued for Ph-1114 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 accomplished in the summer of 1953 under instructions for project CS-355 (Plum Island Sound to Portsmouth Harbor) and CS-361 (Cape Porpoise Harbor).
* The field inspection report was submitted separately.

It now filed as a part of Report 11148.

Ref.
PHOTOGRAHMETRIC PLOT REPORT.

Filed as a part of Report T 11147.
Submitted as a separate report.

31. DELINEATION

The graphic method was used. No areas of the map manuscript are incomplete. Reference Item 31 of preliminary report.

32. CONTROL

A sufficient number of well placed pass points were established.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage has been shown according to field inspector's notes or photo interpretation. No difficulties were encountered.

35. SHORELINE AND ALONGSHORE DETAILS

Reference Item 35 of preliminary report.

36. OFFSHORE DETAILS

No unusual problems were encountered in delineating offshore details.

37. LANDMARKS AND AIDS

Reference Item 37 of preliminary report.
38. **CONTROL FOR FUTURE SURVEYS**

Reference Item 38 of preliminary report. (italic)

Ten (10) additional photo-hydro stations with descriptions have been listed under Item 49.

No topographic stations were recovered or established.

39. **JUNCTIONS**

Survey No. T-11152 to the north and T-11151 to the south are in agreement. There is no contemporary survey to the east and west.

40. **HORIZONTAL AND VERTICAL ACCURACY**

No statement.

46. **COMPARISON WITH EXISTING MAPS**

Comparison was made with Army Map Service Quadrangle, IPSMICH, scale 1:25,000, copied in 1947 from a 1945 U.S.G.S. edition. Very few changes have taken place in the interim. The shoreline at the entrance to PLUM ISLAND SOUND continues to change as it has in the past.

47. **COMPARISON WITH NAUTICAL CHARTS**

Comparison was made with USC&GS Nautical Chart No. 243, scale 1:20,000, published in July 1938, corrected to 25 May 1953; and USC&GS Nautical Chart No. 1206, scale 1:80,000, published in October 1948, corrected to 14 July 1952.

The map listed under Item 46 may have been the source of some of the topography on the nautical charts but not all of it. Shoreline differences are very apparent, especially in the vicinity of PLUM ISLAND SOUND entrance at the south end of PLUM ISLAND, and east and west of STEEP HILL. The two charts show that these areas are constantly changing.

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

None.
ITEMS TO BE CARRIED FORWARD

None.

Richard A. Reese
Carto Photo Aid

APPROVED AND FORWARDED:

Ira R. Rubottom, Chief of Party
48. GEOGRAPHIC NAME LIST

ATLANTIC OCEAN

BAGWELL ISLAND
BOSTON AND MAIN RAILROAD
BROAD CREEK

CAROLTON CREEK
CLUB HEAD CREEK
CROSS BANKS

EAGLE HILL
EAGLE HILL RIVER

FAR DIVISION ROAD
FOX CREEK

GRAPE ISLAND
GRAPE ISLAND CREEK
GRAB AT NECK

HOG ISLANDS
HOG ISLAND POINT
HOLY ISLAND

IPSMICH BAY
IPSMICH RIVER

JEFFRIES NECK ROAD

LAWS CREEK
LAWS POINT: LAWS PT.
LITTLE BECK
LITTLE BECK ROAD
LORDS CREEK

MAIN STREET
MASSACHUSETTS
METCALF CREEK
MIDDLE GROUND

NECK CREEK
NELSON ISLAND
NELSON ISLAND CREEK
NEWSMARCH STREET
NORTH RIDGE
48. GEOGRAPHIC NAME LIST (CONTINUED)

PAINES CREEK
PATMOS ROAD
PINE CREEK
FLOWER HILL
PLUM ISLAND
PLUM ISLAND ROAD
PLUM ISLAND SOUND

ROGER ISLAND
ROGER ISLAND RIVER
ROWLEY
ROWLEY RIVER

SAND CREEK
SAWTER CREEK
SIX GOOSE CREEK
STACKYARD ROAD
STACY CREEK
STEEP HILL

THIRD CREEK
TREADWELL
TREADWELL ISLAND CREEK

WEST CREEK

Names approved
11-2-54
Q.J.U.
49. NOTES FOR THE HYDROGRAPHER

The following ten (10) photo-hydro stations were selected and located by the photogrammetric field party. Their positions have been checked in the compilation office with no changes noted:

- ABE  - West or south gable
- SOK  - West gable building
- SID  - Chimney, north side of house
- KDD  - Top of knoll
- LOW  - Corner of dune ridge
- PAT  - Corner of dune
- YKL  - Sand dune
- RIO  - Upper south end of cutter fence
- COT  - End of fence
- NUT  - End of fence
# TIDE COMPUTATION

**PROJECT NO. Ph. 114  T. 11153**

Time and date of exposure: 12:10 26 Aug. 1952  
Date of field inspection:

<table>
<thead>
<tr>
<th>Time of Tide</th>
<th>Height</th>
<th>Height x Ratio of Ranges</th>
<th>Time difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Tide</td>
<td>8.8</td>
<td>8.8</td>
<td>14 30</td>
</tr>
<tr>
<td>Low Tide</td>
<td>0.9</td>
<td>0.9</td>
<td>8 16</td>
</tr>
</tbody>
</table>

Range of tide: 7.9

### Height

<table>
<thead>
<tr>
<th>Time of Tide</th>
<th>Height</th>
<th>Height x Ratio of Ranges</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Tide</td>
<td>8.8</td>
<td>8.8</td>
</tr>
<tr>
<td>Low Tide</td>
<td>0.9</td>
<td>0.9</td>
</tr>
</tbody>
</table>

Ratio of ranges: 1.0

### Time difference

- High tide at Ref. Sta.: 14 30
- Time difference: 8 16
- Corrected time at Subordinate station: 14 50
- Corrected time at Subordinate station: 8 36

### Table

<table>
<thead>
<tr>
<th>Ht. H. T.</th>
<th>Required time</th>
<th>Interval</th>
<th>Ht. H. T.</th>
<th>Tabular correction</th>
<th>Stage of tide above MLW</th>
<th>Photo. No.</th>
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<td>14 50</td>
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<td>8.8</td>
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<td>12 40</td>
<td>2 10</td>
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<td>2.1</td>
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<tr>
<td>Interval</td>
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<td>6.7</td>
<td>Feature above MLW</td>
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Computed by **R. A. Reece**  
Checked by **R. R. Wagner**
<table>
<thead>
<tr>
<th>Time</th>
<th>Height</th>
<th>Height x Ratio of ranges</th>
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<td></td>
<td>Low tide</td>
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<table>
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<th>Duration of rise or fall</th>
<th>Range of tide</th>
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<td>6 29</td>
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<td>Stage of tide above MLW</td>
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<td>08 43</td>
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<td>Stage of tide above MLW</td>
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<td>5.5</td>
<td>Feature above MLW</td>
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<td>Stage of tide above MLW</td>
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<tr>
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<td>Feature above MLW</td>
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Computed by R. A. Reece  
Checked by R. R. Wagner
<table>
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<th>Time</th>
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<th>Time</th>
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<th>Height x Ratio of ranges</th>
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<td>High tide at Ref. Sta.</td>
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<td>Corrected Time at</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Low tide at Ref. Sta.</td>
<td>9 42</td>
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<td>Time difference</td>
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<td>Corrected time at</td>
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<td>Subordinate station</td>
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<th>Required time</th>
<th>Intervals</th>
<th>Ht. H.T. or L.T.</th>
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<th>feet</th>
<th>Photo. No.</th>
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Computed by R. A. Reake  Checked by J. A. Giles
### Tide Computation

**Project No. Ph. 114, T. 11153**

**Portland, Maine**

**Ipswich River Entrance, Massachusetts**

Mean range: 8.7

Ratio of ranges: 1.0

**Date of field inspection:** 8 April 1953, 1300

**Subordinate station:**

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<th>Time</th>
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<tbody>
<tr>
<td>High tide</td>
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<td>7.9</td>
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<tr>
<td>Low tide</td>
<td>11 48</td>
<td>0.2</td>
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**Range of tide:** 7.7

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<th>Feature bares</th>
<th>Stage of tide above MLW</th>
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<tbody>
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<td>0.2</td>
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<td>11 48</td>
<td>0.5</td>
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**Photo No.:** DFP-9K-109

**Computed by:** R. A. Reese

**Checked by:** J. A. Giles
PHOTOGRAMMETRIC OFFICE REVIEW


CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy M.N.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. Giles

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.

Compiler

Supervisor

43. Remarks:
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-467 1:10,000, 1853, 1910, 1912 North shore of Cape Ann, including Ipswich River and Vic.
T-559 1:10,000, 1854, 1912 Rowley River to Newburyport
T-11153 supersedes the older surveys for charting purposes.

63. Comparison with Maps of other Agencies

USE Ipswich, Mass. 1:25,000, 1953 (copied from 1951 USGS edition)

T-11153 supersedes the quadrangle for shoreline and planimetry for charting the area of T-11153.

64. Comparison with Contemporary Hydrographic Surveys

* H-8095 (ECPP 1153) 1:10,000, 1953 Plum Island Area

* This survey was not available for comparison.

* Two foreshore areas on the east side of the south end of Plum Island, and two on the east side of Great Neck Little Neck, were enclosed by a broken line by the field inspector and labeled "foul, rocks bare at LW". These areas were labeled "awash MHW" on the compilation. They fall inside the probable LWL in each case, so they have been re-labeled with the field inspectors note. Elevations are not known. The hydrographic survey will clarify this condition.

* This comparison has been made and there are no conflicts.
65. **Comparison with Nautical Charts**


T-11153 supersedes the charts for shoreline and culture in their common areas. Offshore features are covered by H-8095 (ECFP1153).

66. **Accuracy**

This map manuscript meets the National Standards of Accuracy and charting standards except for the low water line.

Reviewed by:

Lena T. Stevens

Approved by:

L. C. Landy  
Chief, Review & Drafting Sec.

May 1958

Chief, Division of Photogrammetry

Chief, Nautical Chart Branch

Chief, Div. of Coastal Survey