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

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Shoreline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td>Ph-114</td>
</tr>
<tr>
<td>Office No.</td>
<td>T-11156</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>LOCALITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
</tr>
<tr>
<td>General locality</td>
</tr>
<tr>
<td>Locality</td>
</tr>
</tbody>
</table>

1952-53

**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 - 11156

Project No. (II): Pb-11b


Photogrammetric Office (III): Tampa, Fla.

Instructions dated (II) (III):

- Project Instructions: 3/13/53
- Supplement No. 1: 3/28/53
  - No. 2: 4/30/53
  - No. 3: 5/16/53
  - No. 4: 5/26/53
  - No. 5: 6/25/53

Copy filed in Division of Photogrammetry (IV)

Chief of Party: E. H. Kirsch

Officer-in-Charge: Ira R. Babottum

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Scale Factor (III): None

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date:

Publication Scale (IV):

Publication date (IV): 7/3/58

Geographic Datum (III): H. A. 1927

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

Reference Station (III): Teague's Island, 1649

Lat.: 42° 38' 10.36" (121.69 m.)
Long.: 70° 31' 45.312" (1055.2 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.

Form T - Page 1
Areas contoured by various personnel
(Show name within area)
(II) (III)
DATA RECORD

Field Inspection by (II):  
J. C. Lajoya  
E. E. Spies  
L. F. Beagley  

Date:  
March 1953 to October 1953  

Planetable contouring by (II):  
Inapplicable  

Date:  

Completion Surveys by (II):  

Date:  

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

Projection and Grids ruled by (IV):  
Jack Allen (W.O.)  

Date:  
14 April 1953  

Projection and Grids checked by (IV):  
H. D. Wolfe (W.O.)  

Date:  
16 April 1953  

Control plotted by (III):  
R. A. Reece  

Date:  
19 Oct. 1953  

Control checked by (III):  
J. E. Johnson  

Date:  
21 Oct. 1953  

Radial Plot of Stereoscopic Contours by (III):  
M. H. Slavney  

Date:  
23 Nov. 1953  

Stereoscopic Instrument compilation (III):  
Inapplicable  
Contours  

Date:  

Manuscript delineated by (III):  
R. A. Reece  

Date:  
26 May 1954  

Photogrammetric Office Review by (III):  
J. A. Giles  

Date:  
23 June 1954  

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

Date:  

Form T-Page 3
### 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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<tbody>
<tr>
<td>53-J-55 to</td>
<td>1/18/53</td>
<td>1:10,000</td>
<td>Low tide</td>
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<tr>
<td>109, incl.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>DPP-94 176 to</td>
<td>6/26/52</td>
<td>13:45</td>
<td></td>
<td></td>
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<tr>
<td>101, incl.</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>DPP-94 183 to</td>
<td>6/26/52</td>
<td>13:45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>107, incl.</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>53-J-251 to</td>
<td>1/22/53</td>
<td>1:10,000</td>
<td>8.2' above MLL</td>
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<tr>
<td>251, incl.</td>
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<td></td>
<td></td>
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<tr>
<td>53-J-257 to</td>
<td>1/22/53</td>
<td>1:10,000</td>
<td></td>
<td></td>
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<tr>
<td>259, incl.</td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Tide (III)

| Reference Station: | PORTLAND, MAINE |
| Subordinate Station: | ROCKPORT, MAINE |

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.6</td>
<td>8.6</td>
<td>10.0</td>
</tr>
</tbody>
</table>

### Final Drafting by (IV):

Date:

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

Date:

### Proof Edit by (IV):

Date:

### Land Area (Sq. Statute Miles) (III):

3

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

26

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

Inapplicable

### Control Leveling - Miles (II): Inapplicable

### Number of Triangulation Stations searched for (II):

32 Recovered: 17 Identified: 7

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

6 Recovered: 6 Identified: 1

### Number of Recoverable Photo Stations established (III): None

### Number of Temporary Photo Hydro Stations established (III): 54

### Remarks:

1 established

### Tidal Bench Marks
Summary to Accompany T-11156

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 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 IS BEING

SUBMITTED SEPARATELY

Filed with Report 7/11/48
COMPILATION REPORT T-11156

PHOTOGRAMMETRIC PLOT REPORT.

Submitted separately,
Filed with Report 9079

31. DELINEATION.

The graphic method of compilation was used.

The photographs made by the U. S. C. & G. S. Fairchild Cartographic Camera "J", 53 series, were of better scale than the DPP-9K (Dept. of Agriculture) series but were not as clear and did not give sufficient coverage in order to be used throughout.

Dry Salvages Island at Latitude 62° 40.3', Longitude 70° 34.1' could not be delineated because of insufficient photographic coverage and control. Reference Photogrammetric Plot Report.

* A number of features having published geographic names have been listed under Item 40 but were not mapped because of insufficient control or because they were not visible on the 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 photograph interpretation. No difficulties were encountered.

35. SHORELINE AND ALONGSHORE DETAILS.

The mean high-water line, low-water line, piers, bulkheads, rocks and other features along the shoreline have been shown according to field inspection notes, which are considered adequate.
Reference Item 7, Field Inspection Report.

36. **OFFSHORE DETAILS.**

No unusual problems were encountered in delineating offshore details.

# Reference Item 31, Paragraph 4.4.3.4.

37. **LANDMARKS AND AIDS.**

Landmarks are to be submitted by the hydrographic party. Form 567 is being submitted herewith for nonfloating aids.

38. **CONTROL FOR FUTURE SURVEYS.**

Fifty-four (54) temporary photo-hydro stations are listed under Item 49.

No topographic stations were recovered or established.

39. **JUNCTIONS.**

Junctions have been made with Survey No. T-11155 to the west and T-9079 to the south. There is no contemporary survey to the north and east.

40. **HORIZONTAL AND VERTICAL ACCURACY.**

No statement.

46. **COMPARISON WITH EXISTING MAPS.**

Comparison was made with Geological Survey Quadrangle, ROCKPORT, scale 1:1,680, 1945 edition, reprinted 1950 with corrections. The two are in good agreement. Only minor changes have taken place.
47. **Comparison with Nautical Charts.**

Comparison was made with U.S. C. & G. S. Nautical Chart No. 243, scale 1:20,000, dated July 1938 (7th Edition), corrected to 25 May 1953. The two are in good agreement with the exception of minor details to be expected due to the passage of time.

Reference Item III.

**Items to be Applied to Nautical Charts Immediately.**

None.

**Items to be Carried Forward.**

None.

Richard A. Recce  
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 vinylite, with corrections applied, serve as the final map manuscript.

62. **Comparison with Registered Surveys:**

<table>
<thead>
<tr>
<th>T-341, a 1:10,000</th>
<th>1851, 1910 Cape Ann, Mass.</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-4395 1:5,000</td>
<td>1928 Sandy Bay (Rockport)</td>
</tr>
</tbody>
</table>

T-11156 supersedes the older surveys for charting purposes.

63. **Comparison with Registered Surveys:**

USE Rockport, Mass. 1:25,000 1953 (Copy of USGS 1:31,680, 1950)

Because of its more detailed shoreline and additional cultural data, T-11156 replaces these features on the quadrangle for charting purposes.

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

There is no recent survey. H-4850, 1928 is the latest survey. It covers Rockport Harbor.

65. **Comparison with Nautical Charts:**


The following charted features within the area of T-11156 are not delineated because of lack of field inspection or of insufficient photograph coverage:

- Oak Rock
- Twelvefoot Rock
- Rock near Straitsmouth Is.
- Avery Ledge
- Ledge in Rockport Harbor
- Harbor Rock
- Bartlett Rock
- Mitchell Rock
- Pigeon Rock
- Little Salvages
- Dry Salvages
T-11156 supercedes the chart for shoreline and culture in their common area. Off-shore data is to be retained from former hydrographic surveys.

66. Accuracy:

Because of a well-held radial plot and of ample field inspection for interior, HWL, and LWL, this map meets the National Standards of Accuracy.

Reviewed by:

[Signature]
Lena T. Stevens

Approved by:

[Signature]
L. C. Lande, Chief
Review Branch

Chief, Cartographic Branch
Division of Photogrammetry

[Signature]
Chief, Division of Photogrammetry
23 Nov. 59

Chief, Nautical Chart Branch
Division of Charts

[Signature]
Chief, Division of Coastal Surveys

[Signature]
J. Bowin
48. GEOGRAPHIC NAME LIST.

ANDREWS POINT
ATLANTIC OCEAN
*AVERT LEDGE

*BARTLETT ROCK
BRIER ROCK

CAPE ANN
CAPE HEDGE

**DRY SALVAGES
*DODGE ROCK

EMERSON POINT

*FLAT GROUND
FLAT POINT

GAP HEAD
GULF OF MAINE

*HARBOR ROCK
HOOP POLE COVE

LANDS END
*LITTLE SALVAGES
LOHLOLLY COVE
*LONDONER
LONG BEACH

MASSACHUSETTS
*MILK BAR
MILK ISLAND
*MITCHELL ROCK

*OAK ROCK
OCEAN VIEW

PIGEON COVE (COMMUNITY)
PIGEON COVE
PIGEON COVE CHAPEL
*PIGEON ROCK

ROCKFORT
ROWE POINT

SANDY BAY
46. GEOGRAPHIC NAME LIST (CONTINUED)

SANDY BAY LEDGE
STRAITSMOUTH ISLAND
STATE 127
STRAITSMOUTH COAST GUARD STATION NO. 22

THEACHER ISLAND
THEACHER ROAD
TWELVEFOOT ROCK

WHALE COVE

*Feature not mapped because it could not be seen on photographs.

**Feature not mapped because of insufficient control.
Reference Item 31.
NOTES FOR THE HYDROGRAPHER.

The following fifty-four (54) temporary photo-hydro stations were identified in the field and are listed for the benefit of the hydrographer:

5601 - East gable, brown shingle house, yellow trim.
5602 - Chimney at east gable, highest wing of "Long Beach Inn".
5603 - Northeast gable most northerly house.
5604 - East gable, two-story brown house.
5605 - Southerly gable, white house, blue roof.
5606 - Cupola, gray house, green roof.
5607 - Center of small sundeck, "Cape Hedge Inn".
5608 - Southeast gable, white house, dark trim.
5609 - Chimney near south gable of "Faraday Inn".
5610 - South gable of stone house.
5611 - Stone chimney of ranch type house.
5612 - Black and white chimney, gray house, dark roof.
5613 - Center of concrete lookout tower.
5614 - North gable, brown house.
5615 - Stone chimney, gray cottage, blue shutters.
5616 - Apex of roof of stone pavilion.
5617 - Gable of dormer, tan house, gray roof.
5618 - East gable, gray gables roof house, white trim.
5619 - Northeast corner of house foundation ruins.
5620 - Peak of center dormer on east slope of roof, large white house, green roof.
5621 - Northeast gable of dark brown house, red trim.
5622 - East chimney of large tan house, light green roof, sun porch on northeast corner.
5623 - Tall brick chimney, white house, shingle roof.
5624 - Tall radar tower.
5625 - West chimney of large gray and white house.
5626 - Gable of large bay in front of stone and shingled house.
5627 - Northeast gable of gambrel roof, red house.
5628 - Chimney of large white house with stone bulkhead in front.
5629 - West gable of gray building, green roof.
5630 - Corner of bulkhead.
5631 - Corner of bulkhead.
5632 - Yacht club cupola
5633 - Northwest gable, first house west of breakwater.
5634 - Northwest gable, brown "L" shaped house with porch.
5635 - East gable large shingled house with studio window.
5636 - Northerly gable of large shingled building with three windows in end.
5638 - Apex of roof of small stone pavilion.
5639 - Apex of roof of band stand.
5641 - East gable of white house with light green roof, two dormers on south slope of roof.
5643 - Corner of bulkhead.
5644 - Corner of bulkhead.
5645 - Southeast gable of shingled building.
5646 - Corner of bulkhead.
5647 - Apex of roof of small stone building.
5648 - Chimney of brown cottage with screened porch.
5649 - Tall gray stack, "Cape Ann Tool Works"
5650 - Corner of bulkhead.
5651 - Corner of bulkhead.
5652 - Center of end of breakwater.
5653 - White ventilator in center of roof, "Hotel Edward".
5654 - Large stone chimney on south gable of stone house.
5655 - Cupola at northeast corner of house.
5656 - North gable asbestos shingled house.
5657 - North gable, gray with white trim cow shed dormer, east roof slope.
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

Richard A.Rose,Carte Photo-Aid

Ira H. Sabotin
Chief of Party.

<table>
<thead>
<tr>
<th>STATE</th>
<th>MASSACHUSETTS</th>
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</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>LIGHT</td>
<td>ROCKPORT BNAFLAPYES (Rockport Breakwater Light 1931)</td>
</tr>
<tr>
<td>LIGHT</td>
<td>SIESEZMOUTH (Staetsmouth Lighthouse 1928)</td>
</tr>
<tr>
<td>LIGHT</td>
<td>CAFE AUK #Thatcher Island South Light 1940)</td>
</tr>
<tr>
<td>LIGHT</td>
<td>DUCES ROCK (Ducus Rock Beacon 1916)</td>
</tr>
</tbody>
</table>

*Reference letter from Tampa Office to the Director dated 27 Aug. 1954

*Destroyed about 1951 and rebuilt in same location.

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and non-floating landmarks.
PHOTOGRAMMETRIC OFFICE REVIEW

T. 11156


CONTROL STATIONS

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


ALONGSHORE AREAS

(Nautical Chart Data)


PHYSICAL FEATURES


CULTURAL FEATURES


BOUNDARIES

31. Boundary lines XX 32. Public land lines XX

MISCELLANEOUS


40. James A. Gilgen
Reviewer

William A. Ranura
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
<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-8-72</td>
<td>243</td>
<td>Jack Bowers</td>
<td>After Verification and Review No correction, superseded by BP 834% (T-2964), fully apply.</td>
</tr>
<tr>
<td>5-4-73</td>
<td>1207</td>
<td>Larry Edwards</td>
<td>Before After Verification and Review EXOY-110 COC. SUPPRESSED BY CONSIDERED ADEQUATELY APP'D: BP 1847 (T-1696)</td>
</tr>
</tbody>
</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.