<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Topographic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td>Ph-101</td>
</tr>
<tr>
<td>Office No.</td>
<td>T-11133</td>
</tr>
<tr>
<td><strong>LOCALITY</strong></td>
<td></td>
</tr>
<tr>
<td>State</td>
<td>Maine</td>
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<tr>
<td>General locality</td>
<td>West Penobscot Bay</td>
</tr>
<tr>
<td>Locality</td>
<td>Rockland</td>
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<table>
<thead>
<tr>
<th>Year</th>
<th>1952-55</th>
</tr>
</thead>
</table>

| CHIEF OF PARTY | Paul Taylor, Chief of Field Party  
|               | L.W. Swanson, Div. of Photo. Wash., D.C.  |

<table>
<thead>
<tr>
<th>LIBRARY &amp; ARCHIVES</th>
<th></th>
</tr>
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<tbody>
<tr>
<td>DATE</td>
<td>May 12, 1953</td>
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DATA RECORD

T - 11133

Project No. (II): Ph-104  Quadrangle Name (IV):

Field Office (II): Rockland, Maine  Chief of Party: Paul Taylor

Photogrammetric Office (III):  Officer-in-Charge: L. W. Swanson

Instructions dated (II) (III):  13 April 1953  Copy filed in Division of
Supplement I dated:  29 April 1953  Photogrammetry (IV)

Method of Compilation (III): Kelah Plotter and Planetable

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

Scale Factor (III): 

Date received in Washington Office (IV):  

Date reported to Nautical Chart Branch (IV):  

Applied to Chart No.  

Date:  

Date registered (IV):  20 Jan 1958  

Publication Scale (IV):  

Publication date (IV): 

Geographic Datum (III): NA 1927  

Vertical Datum (III): Mean sea level except as follows:
Elevations shown as (FT) refer to mean high water
Elevations shown as (GL) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): False Whitehead

Lat.:  43° 59' 53.183  Long.:  69° 06' 44.745  

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)

Red - Contouring by Martin C. Moody
Blue - Contouring by John R. Smith
Black - Kalsh Plotter - C. E. Cook
Green - " " - I. Jarrett
DATA RECORD

Field Inspection by (II): James A. Clear, Jr., Carto. Surv. Aid
Warren M. Gottschlich, Carto. Surv. Aid
Date: Sept. to Oct., 1953

Planetary contouring by (II): Martin C. Moody, Carto. Surv. Aid
John R. Smith, Carto. Surv. Aid
Date: August, 1953

Completion Surveys by (II):

Mean High Water Location (III) (State date and method of location):
See Project Instructions, Paragraph 18, 13 April 1953
also Summary

Projection and Grids ruled by (IV): A. Riley
Date:

Projection and Grids checked by (IV):

Control plotted by (III): C. E. Cook N/2
E. H. Taylor S/2
Date: Nov., 1953

Control checked by (III):
S. W. Trow N/2
A. K. Heywood S/2
Date: Feb. 1954

Radial Plot or Stereoscopic control extension by (III):
No control extension was necessary.
Each model was set on control

Stereoscopic Instrument compilation (III):
CPM. Cook
I. Jarrett

Manuscript delineated by (III):
J. McDonald
A. K. Heywood
Date: May 1955

Photogrammetric Office Review by (III): M. Keller
Date: May 1955

Elevations on Manuscript
checked by (II) (III):
M. Keller
Date: May 1955
### PHOTOGRAPHS (III)

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<th>Number</th>
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<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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</thead>
<tbody>
<tr>
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<td></td>
<td></td>
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</tr>
<tr>
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<td>6-16-52</td>
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<td>1:10,000</td>
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<td>2150 to 2154</td>
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<td>1-22 to 1-26</td>
<td>4-3-53</td>
<td>9:10</td>
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### Tide (III)

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<td>8.9</td>
<td>10.2</td>
</tr>
<tr>
<td></td>
<td>9.6</td>
<td>10.9</td>
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Reference Station: Portland  
Subordinate Station: Dyer Point

Washington Office Review by (IV):  
Final Drafting by (IV): A.P. Berry  
Drafting verified for reproduction by (IV): W. H. Hallin

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III):  
Shoreline (More than 200 meters to opposite shore) (III):  
Shoreline (Less than 200 meters to opposite shore) (III):  
Control Leveling - Miles (II): Mileage Not Computed.  
Number of Triangulation Stations searched for (II): 8  
Number of BMs searched for (II): None  
Number of Recoverable Photo Stations established (III):  
Number of Temporary Photo Hydro Stations established (III):

Remarks:
OFFICIAL MILEAGE FOR COST ACCOUNTS

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<td>27</td>
<td>25</td>
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<tr>
<td>11128</td>
<td>46</td>
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<td>11130</td>
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<td>3</td>
<td>12</td>
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<tr>
<td>11224</td>
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<td>13</td>
</tr>
<tr>
<td>11225</td>
<td>1</td>
<td>7</td>
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</table>

TOTALS 202 298
2. AREAL FIELD INSPECTION

This is a combined report for two quadrangles along West Penobscot Bay, which covers a part of the mainland and numerous small islands lying offshore.

Quadrangle T-11129 is centered around the incorporated town of Rockland. Rockland has one of the most important harbors in Penobscot Bay and offers anchorage for the largest vessels. The town is a terminus of a branch of the Maine Central Railroad, which connects with the main line at Brunswick.

Quadrangle T-11133 is comprised of several small islands, the largest of which is Metinic Island. Most of the islands are very sparsely settled, having a few houses which are occupied by the fishermen during the summer months. The islands near shore are heavily wooded, while the offshore islands are grassy for the most part. The property owners maintain sheep herds on the Green and Metinic Islands.

The U. S. Coast Guard owns property at Rockland, Owls Head and Two Bush Island. The telephone service to Two Bush Island is carried by cable by way of Whitehead Island. The U. S. Coast Guard has facilities for generating power at each individual light station.

The City of Rockland maintains and operates a commercial municipal airport near Owls Head. This airport was formerly owned by the Navy and was turned over to the city after World War II. The boundary line has been changed in recent years. It does not include all of the buildings which were formerly owned by the Navy.

The principal industries of the area are lobster and sardine fishing, lime production and raising of poultry. The entire area caters to the tourists during the summer season. A Lobster Festival held annually in late July attracts several thousand visitors to Rockland.

A field edit was made of the planimetric maps in accordance with project instructions. Additions and deletions have been noted on the planimetric sheets and referenced to the photographs. The inspection is believed to be adequate.
3. HORIZONTAL CONTROL

All U. S. Coast and Geodetic Survey stations were searched for and reported on Form 526. Stations of the Maine Geodetic Survey were recovered where they were needed for control.

One supplemental control station (ASH ISLAND BEACON, 1953) was established. It was located by third-order triangulation.

The stations listed below are reported as lost or destroyed:

Quadrangle T-11129: ASH ISLAND SPINDLE, 1934
CRESCENT ISLAND, 1859

Quadrangle T-11133: LITTLE GREEN ISLAND, 1913
RACKLEY'S ISLAND, 1858

4. VERTICAL CONTROL

There are no bench marks within Quadrangle T-11133. All marks were searched for in T-11129 and those which were found to be in good condition are:

<table>
<thead>
<tr>
<th>Name</th>
<th>Agency</th>
<th>Order</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-18</td>
<td>U.S. Coast &amp; Geodetic Survey</td>
<td>Second</td>
</tr>
<tr>
<td>D-18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tidal 10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OWLS HEAD, PENOBSCOT BAY TEM 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&quot; &quot; &quot; &quot; TEM 3</td>
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</tr>
<tr>
<td>&quot; &quot; &quot; &quot; TEM 4</td>
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<td></td>
</tr>
<tr>
<td>ROCKLAND, PENOBSCOT BAY TEM USGS</td>
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<td>Not Known</td>
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<tr>
<td>&quot; &quot; &quot; &quot; TEM 1</td>
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<tr>
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<td></td>
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</tr>
<tr>
<td>&quot; &quot; &quot; &quot; TEM 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DIX ISLAND, MUSCLE RIDGE CHANNEL PENOBSCOT BAY TEM 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MON. 194</td>
<td>Maine Geodetic Survey</td>
<td>Third</td>
</tr>
<tr>
<td>&quot; 195</td>
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<td></td>
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<tr>
<td>&quot; 196</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&quot; 197</td>
<td></td>
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</table>

Vertical control points for Multiplex and Kelsh Plotter contouring were established in accordance with project instructions for all of the area, with the exception of Metinic Island. See paragraph 4 of the Field Inspection Report for Quadrangle T-11126 for the methods used.
Field Inspection Report for T-11224 and 11225 gives the methods used on Matinic Island and Matinicus Island, etc.

The first and last fly-level points in T-11129 are 29-I and 29-34. The first and last fly-level points in T-11133 are 33-1 and 33-7.

5. CONTOURS AND DRAINAGE

The majority of the contouring in these two quadrangles will be done by the Multiplex and the Kelsh Flotter.

The Green Islands, Monroe Island, Ash Island are some of the larger islands which were contoured by planetable methods on loftrite prints of the planimetric maps. Also a number of small areas were contoured along the mainland by planetable. See page 2 of this report for the planetable contouring.

6. WOODLAND COVER

The woodland was classified in accordance with current instructions.

7. SHORELINE AND ALONGSHORE FEATURES

(a) A field edit of the high-water line was made in accordance with project instructions. Changes, which have occurred, are corrected on the photographs and referenced on the planimetric sheets.

(b) The low-water line was inspected, using the 1952 C. and G.S. low-water photographs. Sufficient areas have been classified so that the compiler should have no difficulty in the delineation of the low-water line. The inspection was especially thorough in and around the cove areas.

(d) Bluffs will be depicted by the contours.

(e) The planimetric maps were examined for additions and deletions of docks, wharves, piers, etc., and where changes have occurred, they have been indicated on the photographs.

(f) Three telephone submarine cables have been shown on the photographs. They lead from Two Bush Island, Owls Head Lighthouse and Rockland Breakwater Lighthouse.
8. OFFSHORE FEATURES

There were no offshore features noted. The low-water line was inspected visually. Measurements, however, were made in numerous places from identifiable features to determine that the photographs were made at or very near mean low-water.

9. LANDMARKS AND AIDS

Nine landmarks are reported on Form 567. One radio mast is recommended as a new landmark and a cupola in downtown Rockland is recommended for deletion.

The Fixed Aids were inspected in accordance with project instructions and reported on Form 567. ASH ISLAND BEACON, 1953 was located by triangulation methods and reported on Form 525b.

One aeronautical aid (AERO BEACON, 1953) was pricked on the photograph. It is the beacon at the Rockland Municipal Airport.

10. BOUNDARIES, MONUMENTS AND LINES

See special boundary report, which will be submitted at a later date.

11. OTHER CONTROL

Seven previously established topographic stations are reported on Form 524. One new topographic station (AERO BEACON, 1953) is submitted with the quadrangle data.

Refer to Item 11 in the Field Inspection Report for T-11127 for establishment of photo-hydro control.

12. OTHER INTERIOR FEATURES

The planimetric maps were inspected for all additions and deletions of roads, buildings, etc. There are no bridges over navigable waters.

Rockland Municipal Airport is the only airfield within the area.

13. GEOGRAPHIC NAMES

This will be the subject of a special report, which will be submitted at a later date.
14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

The special reports mentioned in items 10, 13 and a Notes for Coast Pilot, are the only supplemental data.

23 October 1953
Submitted by:
Joseph K. Wilson
Cartographer

26 October 1953
Approved by:
Paul Taylor
Commander, USC & GS
Chief of Party
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>LATITUDE OR $\phi$-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
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<td>FORWARD (BACK)</td>
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<tr>
<td>GREEN ISLAND 1859</td>
<td>G-4733 P. 18</td>
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<tr>
<td>WESTERNMOST BLDG. 1913</td>
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<td>Rackleys Island 1858</td>
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<tr>
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<tr>
<td>Yellow Ledge Spindle, 1934</td>
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<td>43-58-49.36</td>
<td>1523.4</td>
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<tr>
<td>Two Bush Island Lighthouse 1902</td>
<td>G-6793 P. 292</td>
<td>43-57-50.959</td>
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<tr>
<td>Andrews Island Control Station 1953</td>
<td>G-10289 P. 462</td>
<td>44-00-00.255</td>
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</table>

1 FT. = 0.3048006 METER

COMPUTED BY: ___________________________ DATE: ___________________________ CHECKED BY: ___________________________ DATE: ___________________________
31. **DELINEATION**

Kelsh Plotters A and B in the Washington Office were used in the compilation of the N. Half of the map manuscript. Some areas, as indicated on the compilation index, were contoured by planetable in the field. The S. half was compiled in the Baltimore Office from a field corrected and contoured copy of T-8007.

32. **CONTROL**

Horizontal and vertical control was satisfactory. There was adequate horizontal control to set the Kelsh models individually. Models were levelled on the MHW line.

33. **SUPPLEMENTAL DATA**

See Paragraph 35.

34. **CONTOURS AND DRAINAGE**

Offshore islands were contoured by indexing the Kelsh Plotter on the MHW line. Dense tree coverage made contouring of several of these islands difficult.

35. **SHORELINE AND ALONGSHORE DETAILS**

In accordance with Project Instructions, the MHW line was taken from Planimetric Map T-3007. The shoreline was corrected in several areas after careful inspection of the stereoscopic model. The approximate MLW line was detailed from the low water photographs.

36. **OFFSHORE DETAILS**

Rocks awash; Northern Triangles, Southern Triangles, Halibut Rock, Stallion Ledge and South Breaker, shown on Nautical Chart 322, are not shown on the map manuscript. They could not be located by photogrammetric means since they are too far off shore.

37. **LANDMARKS AND AIDS TO NAVIGATION**

See copy of Form 567 in this report. This form is filed as Chart Letter 1142(53) in the Nautical Chart Branch.

38. **CONTROL FOR FUTURE SURVEYS**

See Paragraph 49.
39. JUNCTIONS

Junctions have been made with T-11129 to the north and T-11132 to the west. T-11132 has been extended to the east to include Matinic Island. The western limit of the south half of this manuscript is 69° 07'.

40. HORIZONTAL AND VERTICAL ACCURACY

Not applicable.

46. COMPARISON WITH EXISTING MAPS

USGS Tenants Harbor Quad.  1:62,500  1906 (Reprint 1947)
Planimetric Map T-8007  1:10,000  1941

47. COMPARISON WITH NAUTICAL CHARTS

Nautical Chart No. 322  1:40,000  1950, corr. 1952

See Paragraph 36.

48. GEOGRAPHIC NAMES

See Supplement.

49. NOTES FOR HYDROGRAPHER

See Paragraph 36—Offshore Details.

The following Photo-Topo Stations have been plotted on the map manuscript:

W Gable House  1944
Lit  1944

Submitted by:

C. E. Cook

Approved by:

C. Thurer
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

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<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
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<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>HABITS CHART</th>
<th>INVERSE CHART</th>
<th>CHARTS AFFECTED</th>
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<tbody>
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<td></td>
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<td>1329.4</td>
<td>69 07</td>
<td>651.8</td>
<td>1927 Tri</td>
<td>1859</td>
<td>X</td>
<td>X 313, 322</td>
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<td>Two Bush Island Lighthouse</td>
<td></td>
<td></td>
<td>43 57</td>
<td>1572.8</td>
<td>69 04</td>
<td>622.2</td>
<td>1902 X</td>
<td>X</td>
<td>X</td>
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<td>(Yellow Ridge Spindle 1934)</td>
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<td>43 58</td>
<td>1523.4</td>
<td>69 06</td>
<td>1183.2</td>
<td>1934 X</td>
<td>X</td>
<td>X</td>
<td>322</td>
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</tbody>
</table>

Chart Letter 1142(53)
This data may be included in the Compilation Report written by the Washington office.

All data in the manuscript completed from Loftrite Sheet T-8007.

Compilation by - A. K. Heywood 2/27/54
Projection and Grids - Austin Riley 9/23/53
Checked by - H. D. Wolfe 9/24/53
Control Plotted - E. H. Taylor 1/11/54
Control Checked - A. K. Heywood 2/27/54

* A Form 526 was submitted for "Green Island Westernmost Bldg."
This station is not shown on the sheet. Careful consideration should be given to this station by referring to the following data:

1. 526, Recovery Card
2. Station description on 535, Supplement page 19.

* In the absence of an original description (1913) the data is considered as lost. The 1943 & 1953 surveys do not prove recovery.

[Signature] 4/56
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<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
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(an old BQN decision, to be used pending its possible revision)
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Names approved May 17, 1955.

Names of Rocks, ledges and other hydro names will be added from the chart or hydro surveys when hydro is applied.

John 4/56
PHOTOGRAMMETRIC OFFICE REVIEW

T. 11133


CONTROL STATIONS

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


ALONGSHORE AREAS

(Nautical Chart Data)


PHYSICAL FEATURES


CULTURAL FEATURES


BOUNDARIES

31. Boundary lines    32. Public land lines

MISCELLANEOUS


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:
FIELD EDIT REPORT
Quadrangle T-11133

51. METHODS. As instructed, by the Reviewer, only Spruchead and Burnt Islands were field edited. These islands were inspected by riding over all roads to check their classification, to classify buildings, to add new features and to visually check the expression of the contours.

Standard plane-table methods were used for the vertical accuracy test and for the addition of some new features.

All additions, corrections and deletions are shown on the field edit sheet or cross referenced to the photograph. All additions and corrections are shown in violet ink and green ink was used for all deletions. No legend appears on the field edit sheet describing the color inks used.

Field edit information appears on the field edit sheet and one ratio photograph # GS-FE 172

52. ADEQUACY OF COMPILATION. The map compilation is near adequate and will be complete with the application of the field edit data.

53. MAP ACCURACY. No horizontal accuracy test was made of the map. Plane-table traverses, between mapped features, checked well, indicating the features have relatively good position.

Forty points on various contours were checked for vertical accuracy. After application of the allowable horizontal shift, 97 per cent of the contours checked were found to have less than one half a contour interval error.

54. RECOMMENDATIONS. None offered.

55. EXAMINATION OF PROOF COPY. No one was requested to examine a proof copy of this map.

Respectfully submitted,
August 11, 1955

Elgan T. Jenkins
Elgan T. Jenkins
Cartographer
Summary & Abstract of Vertical Accuracy Test

Project No. Ph-106  Quad. No. T-1153  Quad. Name TENANTS HARBOR
Method of Testing Standard Plane-table Profile
Tested by E.T.T  Date August 5, 1955  Evaluated by E.T.T
Contour interval 10 ft., 1.22 M.M. allowable shift at 1-10,000
map or manuscript scale.

4.0  Total number of points tested
97  % of points within 1/2 contour interval or better
39  Test points correct within 1/2 contour interval
1  Test points in error between 1/2 and full contour interval
0  Test points in error over full contour interval

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Summary to Accompany
Descriptive Report
T-11133

Topographic Map T-11135 is one of 12 similar maps in Project 6104. This map includes part of Sprucehead I, the Muscle Ridge Islands, Two Bush Channel and the Green Islands. The shoreline and planimetry were compiled from T-8007 and corrected to 1953 by 1952-53 photographs, partial shoreline inspection, complete interior inspection and a 1955 field edit of Sprucehead and Burnt Islands. A field edit of the other islands was not made due to sparse cultural detail; however, the mapping of all the islands is considered as of date 1955. Other field work preceding compilation included planerable contouring and leveling to provide vertical control for instrument contouring. The manuscript is in 2 sheets, one 3-3/4' in lat. by 7.5' in long.; the other 3-3/4 in lat. by 7' in long. The map is to be published by the Geological Survey at scale 1:24,000 as a topographic quadrangle. Registered copies under T-11133 will include 2 half-quadrangle cloth mounted prints (10,000 scale) designated as T-11133-N and T-11133-S and a cloth mounted color print of the published quadrangle.

John M. Neal
April 1956
Review Report  
Topographic Map  
T-11133  
April 1956

61. General Statement:

See Summary Report.

62. Comparison with Registered Topographic Surveys:

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Comparison between T-11133 and the above surveys indicates no important differences critical to nautical charting. T-11133 supersedes all above surveys (in common areas) as source material for charting purposes.

63. Comparison with Maps of Other Agencies:

Comparison was made with:

NE/4 of USGS TENANTS HARBOR, 1:62,500, 20 ft. contour interval, 1906 (reprint 1947)

Top elevations indicated on above map on most of the islands are lower by about 20 ft. as compared with T-11133.

64. Comparison with Contemporary Hydrographic Surveys:

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All significant differences between above surveys and T-11133 have been resolved in this review. Hydrography will be applied to T-11133 at a later date.

65. Comparison with Nautical Charts:

Chart 322  
1:40,000  
1950 (52-5/26)

T-11133 provides the location of the terminal of a new submerged cable on Sprucehead I; otherwise, no significant differences are noted.
66. Adequacy of Results and Future Surveys:

T-11133 complies with all instructions and with the National Standards of map accuracy as evidenced by the Field Editor's Report. Accuracy of the map is adequate for future use as a base for hydrographic surveys.

Reviewed by:

John M. Neal
J. M. Neal

APPROVED BY:

L. C. Lande
Chief, Review and Drafting Section
Photogrammetry Division

M. A. Kitch
Chief, Nautical Chart Branch
Charts Division

J. B. Burt
Chief, Photogrammetry Division

Chief, Coastal Surveys Division
<table>
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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.