8585

Diag'd on Diag. Ch. No. 1202

Form 304

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Planimetric Air Photographic (Shoreline)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td>CS-272</td>
</tr>
<tr>
<td>Office No.</td>
<td>7-8585</td>
</tr>
</tbody>
</table>

LOCALITY

<table>
<thead>
<tr>
<th>State</th>
<th>Maine</th>
</tr>
</thead>
<tbody>
<tr>
<td>General locality</td>
<td>Vicinity of Mount Desert Island</td>
</tr>
<tr>
<td>Locality</td>
<td>Mount Desert Island, Pierce Head to Great Head, Sutton Island</td>
</tr>
</tbody>
</table>

194 5

CHIEF OF PARTY

F.L. Peacock

LIBRARY & ARCHIVES

DATE April 7-1949
Foreshore and offlying shoal corrections and additions were added from low water single lens photographs taken in May, 1952, with the "J" camera, and are shown in red on the brown line acetate reproduction of the manuscript. The photographs were ratio printed to scale, permitting detail to be added without further radial plotting. Whenever possible, recoverable photo-hydro signals previously located were used in applying the new additions. However, it was necessary to apply corrections by holding to identifiable features previously compiled.

Five (5) new photo-hydro stations were added where believed necessary, and all are believed to be of standard map accuracy.

Some building and road revision was made, however, a more complete revision should be made when time permits.

Building & road revision completed August 1953

Respectfully submitted:

David F. Romero
Ensign, U.S.C. & G.S.
Mar. 1953

Approved by:

L. C. Lande, Chief,
Graphic Compilation Section,
Division of Photogrammetry
DATA RECORD

Quadrangle (II):

Field Office:
Air Photographic Party No. 2

Compilation Office:
Baltimore Photogrammetric Office

Instructions dated (I II III):
April 1, 1943 (Additional)
July 10, 1943, (Horizontal Control Requirements)
March 15, April 11, & July 17, 1944 (Supplemental)
August 10, 1944 (Additional) - Aug. 28, 1944 (Amendment to Additional Instructions)
Completed survey received in office: 6 July, 1945

Reported to Nautical Chart Section:

Reviewed: 1/20/47
Bedrafting Completed: No redraft.
Registered: March 1947

Compilation Scale: 1:10,000
Published Scale: 1:10000

Geographic Datum (III): N.A. 1927
Datum Plane (III): Mean High Water
Reference Station (III): GREAT HEAD, 1934, r. 1944
Lat.: 44° 10' 42.348" 1306.9m Long.: 68° 10' 29.593" 655.7m

State Plane Coordinates (VI): Maine, East Zone
X = Y =

Military Grid Zone (VI)
PHOTOGRAPHS (III)

Unmounted Single Lens Ratio Prints

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>44-C-1054 &amp; 44-C-1055</td>
<td>5-17-44</td>
<td>12:15 P.M.</td>
<td>1:10,000</td>
<td>0.2' below M.L.W.</td>
</tr>
<tr>
<td>44-C-1188 to 44-C-1192, Incl. 5-26-44</td>
<td>10:15 A.M.</td>
<td>1:10,000</td>
<td>4.0' above M.L.W.</td>
<td></td>
</tr>
<tr>
<td>44-C-1228 to 44-C-1231, Incl. 5-26-44</td>
<td>10:30 A.M.</td>
<td>1:10,000</td>
<td>4.5' above M.L.W.</td>
<td></td>
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<tr>
<td>44-C-1833 to 44-C-1837, Incl. 6-4-44</td>
<td>11:45 A.M.</td>
<td>1:10,000</td>
<td>5.6' above M.L.W.</td>
<td></td>
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<tr>
<td>44-C-1899 to 44-C-1902, Incl. 6-4-44</td>
<td>12:00 Noon</td>
<td>1:10,000</td>
<td>5.1' above M.L.W.</td>
<td></td>
</tr>
<tr>
<td>44-C-1903 to 44-C-1904, Incl. 6-4-44</td>
<td>12:15 P.M.</td>
<td>1:10,000</td>
<td>4.5' above M.L.W.</td>
<td></td>
</tr>
</tbody>
</table>

Tide from (III): Predicted Tide tables, Atlantic Ocean, 1944. Reference Station, Eastport, Maine, with correction to Southwest Harbor, Maine. Mean Range: 10.3' Spring Range: 11.7'.

Camera: (Kind or source) U. S. Coast and Geodetic Survey, wide angle Single Lens Camera. Type "C" - Focal length 6". All negatives are on file in the Washington Office.

Field Inspection by: Lieutenant Dale E. Sturmer date: September, 1944

Field Edit by: date:

Date of Mean High-Water Line Location (III): As of the photographs taken on May 26, 1944 and June 4, 1944, supplemented by the field data obtained during September, 1944.

Projection and Grids ruled by (III) S.R.
" " " checked by: S.R. - Murray date: 3-9-45
Control plotted by: Harry R. Rudolph date: 3-15-45
Control checked by: A. L. Goncharovsky date: 3-19-45
Radial Plot by: W. E. Schmidt - H. R. Rudolph date: March, 1945

Detailed by: Ruth M. Whitson date: 4-30-45 to 6-21-45
Reviewed in compilation office by: Harry R. Rudolph date: 6-22-45 to 6-23-45

Elevations on Field Sheet checked by: H. W. Thone date: 10/1/17
STATISTICS (III)

Land Area (Sq. Statute Miles): 2-3/4

Shoreline (More than 200 meters to opposite shore): 16.5 Statute Miles

Shoreline (Less than 200 meters to opposite shore): 1.2 Statute Miles

Number of Recoverable Topographic Stations established: *9

Number of Temporary Hydrographic Stations located by radial plot: 51

Leveling (to control contours) - miles:

Roman numerals indicate whether the item is to be entered by,

(II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname

and initials (not initials only).

Remarks: * Positions of eight determined by radial plot.
The position of one was determined by ground-survey method.
FIELD REPORT
SURVEY No. T-8585

COAST OF MAINE
VICINITY OF MOUNT DESERT ISLAND
PROJECT No. GS-272-B

1. DESCRIPTION OF THE AREA:

According to instructions dated August 10, 1934, the Survey for Map Drawing, Survey No. T-8585 is a shoreline survey.

Survey No. T-8585 covers an area along the southeastern part of Mount Desert Island from just east of Northeast Harbor to Great Head, all of Sutton Island, Bear Island, and a few small islets.

The terrain immediately adjacent to the Mean High-Water Line is, in general, very rocky except along the upper reaches of Long Pond where it is marshy. The foreshore area is commonly ledge rock with a few stretches of sand and gravel beaches mostly boulder strewn. Most of the sand and gravel beaches are in or near the coves. There are some mud flats in the deeper coves.

The interior is mostly tree covered with a few cleared and cultivated areas.

2. COMPLETENESS OF FIELD INSPECTION:

The identification of the horizontal control is complete except for one station, GREAT HEAD, 1934, which was recovered but not identified. The identification and field inspection of the Mean High-Water Line, Mean Low-Water Line, and foreshore and offshore features are complete except for off-lying shoal, sunken reef areas, and charted rocks awash not visible on the air photographs, and a portion of the Mean Low-Water Line along the western end of Sutton Island. The charting data for these features will become available during contemplated hydrography.

3. INTERPRETATION OF THE PHOTOGRAPHS:

Sufficient notes have been made on the field photographs to enable the Compilation Office to augment the field interpretation by analogy where necessary.

4. HORIZONTAL CONTROL:

All of the horizontal control stations within the area of Survey No. T-8585 were recovered in good condition. Triangulation Station, GREAT HEAD 1934, was recovered but not identified. One additional horizontal control was established by approved ground survey methods.
4. HORIZONTAL CONTROL (Continued)

Form No. 586, Recovery Note, has been submitted for each of the previously existing horizontal control stations within the area of the survey.

5. VERTICAL CONTROL:

No vertical control was recovered or identified within the area of the survey.

6. DRAINAGE:

Part but not all of the drainage, within the area of the survey, has been interpreted on the field photographs.

7. MEAN HIGH-WATER LINE:

All of the Mean High-Water Line was inspected from a dinghy kept close to the shore or by traversing on foot. Where the Mean High-Water Line could not be directly identified on the field photographs, reference measurements were taken or the distance estimated from some well defined picture reference image.

Along shore rocks, and offshore rocks and islets above the plane of Mean High-Water, revealed by photography, have been identified on the field photographs with elevations above the plane of Mean High-Water noted.

8. MEAN LOW-WATER LINE:

The Mean Low-Water Line was inspected at or near Mean Low-Water whenever practicable. All of the Mean Low-Water Line within the area of this survey has been delineated except around the western part of Sutton Island. The delineation of the position of the Mean Low-Water Line is very close to its true position but is to be considered as approximate.

9. WHARVES AND SHORELINE STRUCTURES:

All of the piers, cribings, piling areas, boat skidways, and seawalls visible on the photographs within the area of the survey have been identified on the field photographs.

10. DETAILS OFFSHORE FROM THE MEAN HIGH-WATER LINE:

Only a small amount of detail outside the foreshore area was revealed by photography. It includes several small rock ledge areas, a few small islets,
10. **DETAILS OFFSHORE FROM THE MEAN HIGH-WATER LINE: (Continued)**

and a rock awash.

The character of the foreshore area has been indicated on the field photographs. The extent to which several prominent rocks cover at Mean High-Water or uncover at the time of field inspection, with the time and date, have been noted on the field photographs.

The heights of the small islets above Mean High-Water have been noted.

11. **LANDMARKS AND AIDS TO NAVIGATION:**

Two previously charted Fixed Aids to Navigation fall within the limits of the survey. Their positions had been determined by triangulation.

No other previously charted or desirable uncharted landmarks or uncharted Fixed Aids to Navigation fall within the limits of the survey. There are several floating aids to navigation within the area of the survey.

12. **HYDROGRAPHIC CONTROL:**

9 Recoverable Topographic Stations.
51 Temporary Hydrographic Stations.

Descriptions have been furnished.

14. **ROAD CLASSIFICATION:**

In accordance with the Army War College Circular, dated January 12, 1942, "Classification of Roads".

18. **GEOGRAPHIC NAMES:**

No investigation.
26. CONTROL:

The horizontal control shown on the map drawing for Survey No. T-8585 consists of eight stations. They are as follows:

** Seven within the detail limits **

<table>
<thead>
<tr>
<th>Name of Station</th>
<th>Established By</th>
<th>Type of Station</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GREAT HEAD 1934, r. 1944</strong></td>
<td>U.S.C.&amp; G.S.</td>
<td>Triangulation</td>
</tr>
<tr>
<td>GREAT HEAD OBSERVATORY, 1934, r.</td>
<td>U.S.C.&amp; G.S.</td>
<td>Triangulation</td>
</tr>
<tr>
<td>1944</td>
<td></td>
<td>(Intersection)</td>
</tr>
<tr>
<td>BUNKER LEDGE MONUMENT, 1933, r.</td>
<td>U.S.C.&amp; G.S.</td>
<td>Triangulation</td>
</tr>
<tr>
<td>1944</td>
<td></td>
<td>&quot;</td>
</tr>
<tr>
<td>NEAR ISLAND L.H., 1902, r. 1944</td>
<td>U.S.C.&amp; G.S.</td>
<td>Triangulation</td>
</tr>
<tr>
<td>*SAVAGE MOUNTAIN, 1870, r. 1944</td>
<td>U.S.C.&amp; G.S.</td>
<td>Topographic (New)</td>
</tr>
<tr>
<td>*OTTER, 1944</td>
<td>U.S.C.&amp; G.S.</td>
<td></td>
</tr>
<tr>
<td>NE &quot;W&quot;, 1923, r. 1944</td>
<td>U.S.E.</td>
<td></td>
</tr>
</tbody>
</table>

** One just outside the detail limits **

<table>
<thead>
<tr>
<th>Name of Station</th>
<th>Established By</th>
<th>Type of Station</th>
</tr>
</thead>
<tbody>
<tr>
<td>*NE &quot;A&quot;, 1933, r.</td>
<td>U.S.E.</td>
<td>Triangulation</td>
</tr>
</tbody>
</table>

* Station identified by a well defined picture point connected to station by a short traverse. The positions of these substitute points have been shown on the map drawing with very small black acid ink circles, accompanied by the letters "r.l.p."

** Station recovered but not identified. **

All the above stations except GREAT HEAD, 1934, were used to control the radial plot.

27. RADIAL PLOT:

The radial plot for the area of the survey is part of a combined plot made with celluloid templates. Satisfactory results were obtained.

The facts concerning the radial plot for the area of this map drawing have been fully brought out in the Radial Plot Report for the areas of Surveys Nos. T-8573 to T-8590, inclusive, T-8594 and T-8595 submitted June 5, 1945.
28. DETAILING:

The photography, field data, horizontal ground control, and radially plotted control points available for the compilation were adequate, except no field data were furnished relative to the area of Long Pond which is not affected by tide water. This pond was detailed according to the Compilation Office interpretation of the air photographs.

No difficulties were encountered during compilation.

Only the area in the vicinity of the shoreline was detailed in the area of Mount Desert Island. The entire area of Bear Island and Sutton Island has been detailed.

29. MEAN HIGH-WATER LINE:

The Mean High-Water bordering along firm ground has been detailed in accordance with the field data and is shown with a continuous heavy-weight black acid ink line. The shoreline bordering along the firm ground of Long Pond and the outer limits of marsh bordering the shoreline at the northern end of Long Pond has been detailed in accordance with the Compilation Office interpretation of the photographs and has been shown with a continuous heavy-weight black acid ink line and light-weight black acid ink line respectively.

30. MEAN LOW-WATER LINE:

The approximate position of the Mean Low-Water Line was detailed in accordance with the field inspection data, and shown with a dotted black acid ink line. The Mean Low-Water Line along the western part of Sutton Island has not been shown because no field data were furnished and identification on the photographs by the Compilation Office was not possible.

31-A. FORESHORE AREAS:

The foreshore areas shown consist of rock ledge, boulders, detached rocks, grass-in-water, mud, and sand and gravel beaches. The foreshore area has been detailed in accordance with field data.

31-B. SHOAL LINES:

The approximate outline of shoal areas was detailed in accordance with the Compilation Office interpretation of the photographs and is for the advance information of the Hydrographic Parties only. Shown with a long dashed black acid ink line, accompanied by the note "Shoal".
31-C. **REEF LINES:**

The approximate outline of reef areas was detailed in accordance with the Compilation Office interpretation of the photographs and is for the advance information of the Hydrographic Parties only. Shown with a short dashed black acid ink line, accompanied by the note "Reef".

32. **DETAILS OFFSHORE FROM THE MEAN HIGH-WATER LINE:**

The offshore details include rock ledge, shoals, sunken reefs, and islets. Except for the shoal and sunken reef areas, all of these details shown are in accordance with the field data.

33. **WHARVES AND SHORELINE STRUCTURES:**

Several piers and a boat launching skidway have been shown in accordance with the field data.

35. **HYDROGRAPHIC CONTROL:**

1 Recoverable Topographic Station - Located by ground survey methods.
* 8 Recoverable Topographic Stations - Located by radial plot.
51 Temporary Hydrographic Stations - Located by radial plot.

A list of their descriptions is attached to this report.

Form No. 524 has been submitted for the nine Recoverable Topographic Stations.
* Also R.I.P. Olter, 1944

37. **BRIDGES:**

One very small bridge has been shown at the entrance to Little Harbor Brook. Another small bridge, not identified by the Field unit, has been shown crossing Otter Cove.

38. **GEOGRAPHIC NAMES:**

Taken from Nautical Chart No. 306 and United States Geological Survey Quadrangle Maps.

A list of the names is attached to this report.

39. **JUNCTIONS:**

The junctions with Map Drawing, Survey No. T-8574 to the west and Survey No. T-8594 to the north have been made and are in agreement.
39. **JUNCTIONS:** (Continued)

The junction with Survey No. T-8586 to the south is an all-water area.

To the east is an all-water area.

The junction with Survey No. T-8575 to the north is an undetailed interior area of Mt. Desert Island. [map reference]

40. **POSITION ACCURACY OF IMPORTANT PLANIMETRIC DETAILS:**

Believed to be within 0.5 m.m.

41. **RECOMMENDATIONS FOR FUTURE SURVEYS:**

Map Drawing, Survey No. T-8585, is complete with respect to all known details necessary for charting, except the charted features not definitely revealed by photography, which should be investigated during contemplated hydrography. These features have been noted in "Notes to Hydrographic Parties" attached to this report, and indicated on a section of Nautical Chart No. 306 attached to this report.

44. **COMPARISONS WITH EXISTING TOPOGRAPHIC QUADRANGLES:**


Details common to the Map Drawing and the Quadrangles are, in general, in good agreement. However, many roads, piers, and geographic names shown on the Map Drawing do not appear on the Quadrangles. Several trails, two streams, two bench marks, and several buildings that appear on the Quadrangles have not been shown on the Map Drawing because they could not be identified on the photographs.

45. **COMPARISON WITH NAUTICAL CHART:**

Chart No. 306, scale 1:40,000, published at Washington, D. C., March 1944, corrected to April 7, 1945 (common area).

Details common to the Map Drawing and the Chart are, in general, in good agreement, with the exception of the eastern shoreline of uttered Cove, and the shoreline of the pond just north of Newport Cove. However, several bare rocks, rocks swash, rock ledge areas, sunken reef areas, all piers, a
45. COMPARISON WITH NAUTICAL CHART: (Continued)

A boat launching atidway, most of the roads, and several geographic names have been shown on the Map Drawing and do not appear on the Chart. Several floating aids to navigation, sunken rocks, rocks awash, and several cable crossing areas, which have been charted, have not been shown on the Map Drawing because they could not be identified on the photographs.
The Map Drawing for Survey No. T-8585 was compiled under the supervision of Harry R. Rudolph, Photogrammetric Aid, SP-6, and was also reviewed by Harry R. Rudolph.

Respectfully Submitted,
June 30, 1945

[Signature]
Ruth M. Whitson,
Engineering Draftsman

[Signature]
Harry R. Rudolph,
Photogrammetric Aid

and

[Signature]
Joseph Steinberg,
Photogrammetric Engineer

Approved and Forwarded:
July 6, 1945

[Signature]
Fred L. Peacock
Chief of Party, C. & G. Survey
Officer-in-Charge,
Baltimore Photogrammetric Office
GEOGRAPHIC NAMES

Undisputed

Taken from Nautical Chart No. 306 and U.S. Geological Survey
Quadrangle Maps: Bar Harbor, Maine - Mount Desert, Maine.

- Barr Hill
- Bear Island
- Bowden Ledge
- Bracy Cove
- Cadillac Cliffs
- Crominshield Point
- East Bunker Ledge
- East Point
- Fernald Point
- Great Head
- Hunters Beach
- Hunters Beach Cove
- Hunters Brook
- Ingraham Point
- Jordan Stream
- Lewis Rock
- Little Harbor Brook
- Long Pond
- Long Pond Shoal
- Mount Desert Island
- Newport Cove
- Ocean Drive
- Otter Cove
- Otter Creek
- Otter Creek (Village)
- Otter Point
- Ox Hill
- Pierce Head
- Rice Point
- Sargent Head
- Sea Cliff Drive
- Seal Harbor
- Seal Harbor (Village)
- Stanley Brook
- Sutton (Village)
- Sutton Island
- The Black Woods
- Thunder Hole
- Western Point
- Old Tom

Names preceded by are approved.

L. Hector
9/19/47
<table>
<thead>
<tr>
<th>Chart Nos 306, 1302</th>
<th>Bar Harbor, Maine, Quadrangle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Otter Cliff</td>
<td>Cliffs of Otter</td>
</tr>
<tr>
<td>STATION</td>
<td>U.S.G.S.</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>BEAR ISLAND LIGHTHOUSE, 1902</td>
<td>Mount Desert</td>
</tr>
<tr>
<td>BUNKER LEDGE MONUMENT, 1963</td>
<td>Bar Harbor</td>
</tr>
<tr>
<td>*GREAT HEAD, 1934</td>
<td>Bar Harbor</td>
</tr>
<tr>
<td>GREAT HEAD OBSERVATORY, 1934</td>
<td>Bar Harbor</td>
</tr>
<tr>
<td>OTTER, 1944</td>
<td>Bar Harbor <strong>N.S.</strong></td>
</tr>
<tr>
<td>SAVAGE MOUNTAIN, 1870</td>
<td>Mount Desert</td>
</tr>
<tr>
<td>NE &quot;V&quot; (U.S.E.)</td>
<td>Mount Desert</td>
</tr>
<tr>
<td>NE &quot;A&quot; (U.S.E.)</td>
<td>Mount Desert</td>
</tr>
</tbody>
</table>

* Station close by pricked.
** N.S. indicates new control station established in 1944.
NOTES
For READER

MAP DRAWING, SURVEY No. T-8585
COAST OF MAINE
PROJECT No. GS-272-E

All details have been shown with the usual symbols.

The small blue ink circles are the positions of well defined picture points determined by the radial plot and considered very strong. The small green ink circles are the positions of well defined picture points determined by only two wide angle radials or three or more very slim angle radials and are considered weak.

The large blue ink circles are the very strong positions of the photograph centers determined by the radial plot.

The 2½ millimeter black acid ink circles are the positions of the Recoverable Topographic Stations and Temporary Hydrographic Stations. Such circles, accompanied by a name and date (1944) are the positions of recoverable Topographic Stations determined by the radial plot. All other such circles are the positions of the Temporary Hydrographic Stations determined by the radial plot.

The very small black acid ink circles are the positions of well defined picture points identified and located by ground survey methods by the Field Unit to substitute for triangulation stations in controlling the radial plot. These circles are accompanied by the letters "F.I.P."

The photographs contain no appreciable tilt or differential distortion.

The scales of the photographs and the Map Drawing were in fair agreement. The vertical projector was used in areas where it was not possible to select a sufficient number of well defined picture points to control the detailing.

The following disagreements between the Map Drawing and U. S. Geological Survey Maps and U. S. Coast and Geodetic Survey Nautical Charts were found:


One bench mark, a stream just east of Fernand Point on Sutton Island, and a small pond on Rice Point, Sutton Island, have not been shown on the Map Drawing because no data were available.

Several roads west of Little Harbor Brook, at Pierce Head, and on Sutton Island; several trails at Pierce Head, and on Sutton Island; a pier west of Little Harbor Brook; a pier on the north shore of Sutton Island near Sutton Village; a destroyed pier in the vicinity of Pierce Head; a boat launching skidway on the west shore of Bear
Island; the geographic name Long Pond Shoal; and a few areas of rock ledge offshore have been shown on the Map Drawing but do not appear on the Quadrangle.


One bench mark; a stream at Ingraham Point; trails at Ingraham Point, Hunters Brook, and north of Newport Cove; and several buildings north of Otter Point which appear on the Quadrangle have not been shown on the Map Drawing because no data were available.

Several piers on the east shore of Seal Harbor; several roads and trails in the vicinity of Otter Cove, at Ingraham Point, at East Point, at Seal Harbor, and at Crowshields Point; a rock ledge and reef area on west side of entrance to Seal Harbor; and the following geographic names: Bowden Ledge, Hunters Beach Cove, Lewis Rock, and Seal Harbor (Village) have been shown on the Map Drawing which do not appear on the Quadrangle.

A road north of Newport Cove, a road on Otter Point, and the geographic name Otter Cliff are in disagreement with the Quadrangle.

Chart No. 306, Scale 1:40,000, published at Washington, D. C., March 1942, corrected to April 7, 1945. (Common area).

Several rock ledge areas in the vicinities of Bear Island, Sutton Island, Seal Harbor, Hunters Beach Cove, Western Point, and Thunder Hole; several rocks awash and several bare rocks in the foreshore area; all roads and trails within the area of the Survey except the double full line road extending from the western limits of the Map Drawing to just east of Stanley Brook and the double full line roads to the east and west of the pond north of Otter Cove; all buildings; all piers; a boat launching skidway; the bridge crossing Otter Cove; grass-in-water in the pond north of Newport Cove; and the geographic names, Barr Hill, Cadillac Cliffs, Fernald Point, Hunters Beach, Ingraham Point, Ox Hill, Ocean Drive, Rice Point, Sergeant Head, Sea Cliff Drive, Stanley Brook, Thunder Hole, The Black Woods and Western Point, have been shown on the Map Drawing but have not been charted.

The area of a charted pond, just inland from Rice Point, Sutton Island has been shown on the Map Drawing as grass in accordance with the field data.

All floating aids to navigation, two bare rocks, and two sunken rocks between East Bunker Ledge and Lewis Rock, Bowden Ledge, Long Pond Shoal and Old Tom (geographic names of last three shown at approximate location) appear on the chart but have not been shown on the Map Drawing because no data were available.

The Mean High-Water Line along the east shore of Otter Cove and the shoreline of the pond north of Newport Cove is in disagreement
with the charted position.

Respectfully Submitted
June 30, 1945

[Signature]
Buth M. Whitney,
Engineering Draftsmen

and

[Signature]
Harry R. Rudolph,
Photogrammetrist Aid

Approved:
July 6, 1945

[Signature]
Fred. L. Peacock
Chief of Party, C. & G. Survey
Officer-in-Charge,
Baltimore Photogrammetric Office
DIVISION OF PHOTOGRAMMETRY
Review Report of
Shoreline Map Manuscript T-8585

Subject numbers not used in this review report have been adequately covered in other parts of the review report or do not apply.

28 DETAILING

The "shoal" and "reef" lines were placed on the map manuscript almost wholly from office interpretation of the photographs. Comparison with existing nautical charts indicates that this line showed no consistency with respect to soundings. Since the lines would be valueless to hydrography, they have been removed from the map manuscript, except where specifically noted by the field inspector.

Several rocks were noted on the field inspection photographs, giving the height of each rock above sea level at a specific time of a given day, though no information appears on the field photographs or in the Field Inspection Report concerning the time datum used by the field inspection party, i.e., whether Eastern War Time or Eastern Standard Time (75th Meridian Time). The tide curves submitted with the manuscript show a correction from Eastern War Time to 75th Meridian Time. With no specific information available to this office, it is assumed that the time adjustment was made after obtaining some definite explanation from the field inspector.

43. COMPARISON WITH PREVIOUS TOPOGRAPHIC SURVEYS

| T-1243 | 1:10000 | 1871 |
| T-1244 | 1:10000 | 1871 |
| T-1334a | 1:10000 | 1873 |

The present survey supersedes the older surveys in all common detail.

44. COMPARISON WITH EXISTING TOPOGRAPHIC SURVEYS

U.S.G.S. Acadia National Park & Vicinity, (Hancock County), Maine 1/31680 1942

No discrepancies additional to those enumerated in the descriptive report for the Bar Harbor and the Mount Desert quadrangles were noted.

46. APPLICATION TO CHARTS

This map drawing has been applied in part to nautical charts numbers 306 and 308 prior to this review. No significant corrections have been made during the review.

Reviewed by:

Howard W. Thune, 20 Jan, 1947

Under the direction of

Chief, Review Section
APPROVED BY:

B.G. Jones 4/49  
Technical Assistant to the Chief, Div. of Photogrammetry

J.C. Colman  
Chief, Nautical Charts Branch Division of Charts

K.T. Adams  
Chief, Div. of Photogrammetry

W.H. Jacobi  
Chief, Div. of Coastal Surveys
NOTES FOR HYDROGRAPHIC PARTIES

MAP DRAWING, SURVEY No. T-9595
COAST OF MAINE
PROJECT No. CS-272-E

The 2½ millimeter ink circles are the positions of the selected hydrographic control stations. Two copies of the descriptive list have been furnished for your use.

The outline of shoal and sunken reef areas shown are approximate and are for your advance information only. They are shown with long dashed and short dashed ink lines respectively.

The dotted ink line is an approximate position of the Mean Low-Water Line.

The very small ink circles, accompanied by the letters "F.I.P.", are the positions of well defined picture points located by ground survey methods as substitutes for triangulation stations used to control the radial plot. A brief description of the F.I.P's may be found on the pricking cards, Form No. M-952-1, submitted to the Washington Office.

The following charted features were not definitely revealed by photography and should be investigated during contemplated hydrography:

Nautical Chart No. 306

All floating aids to navigation within the area of the survey.
Two bare rocks and two sunken rocks between East Bunker Ledge and Lewis Rock.
Bowden Ledge, Long Pond Shoal, and Old Tom. (Geographic names shown at approximate location).
A rock awash at southeast corner of Sutton Island (middle one of three).

Respectfully Submitted,
June 30, 1945

Harry R. Rudolph
Harry R. Rudolph,
Photogrammetric Aid

and

Beth M. Whitson
Engineering Draftsman

Approved:
July 6, 1945

Fred E. Peacock
Chief of Party, C. & G. Survey
Officer-in-Charge,
Baltimore Photogrammetric Office
COAST OF MAINE
PROJECT No. OS-272

DESCRIPTIONS OF THE RECOVERABLE TOPOGRAPHIC STATIONS AND TEMPORARY HYDROGRAPHIC STATIONS FOR THE AREA OF MAP DRAWING, SURVEY No. T-8585

NUMBER OF RECOVERABLE TOPOGRAPHIC STATIONS.............. 9
NUMBER OF TEMPORARY HYDROGRAPHIC STATIONS.............. 51
TOTAL NUMBER OF STATIONS 60

Foreshore revision from low water photographs and location of 5 new hydro stations was done in Wash. office by orienting ratio prints under manuscript.

David F. Biemans
Ensign USCGS

6 Feb 1953

Listed By: Ruth M. Whitson,
Engineering Draftsman

Checked By: Harry R. Rudolph,
Photogrammetric Aid
1598 Evergreen...
1599 West Corner, Offshore end of pier.
1600 "Round Tower with Weathervane" - The station is the round tower on the southeast side of house with wind vane at peak of tower. It is a very large two and one-half story house on a high stone foundation; first floor is stone, upper part is wood. It has two high stone chimneys. It is located on Pierce Head, Mt. Desert Island, approximately 35 meters from Mean High Water Line. Recoverable Topographic Station. Elevation: 100 ft.
1601 Evergreen.
1602 Northwest corner, offshore end of steel pier.
1603 Northwest corner, offshore end of steel pier.
1604 12' evergreen.
1605 Southeast gable on house.
1606 "Observatory on Top of House" - The station is the center of the Observatory, at the top of Nelson Rockefeller's House. It is located on the most southeasterly tip of Groominshield Point, Mount Desert Island, approximately 23 meters north of the Mean High-Water Line. Recoverable Topographic Station.
1607 Cupola with Flagstaff.
1608 Cupola with weathervane. (Watered)
1609 Lone evergreen.
1610 West gable of house.
1611 Northeast gable of shed on pier. Gable? OFF
1612 50 ft. evergreen.
1613 "Southeast Gable of House" - The station is the southeast gable of a very large two and one-half story shingled house with brown trimming and yellow front gables, also shingled roof. It is located north of East Point, Mount Desert Island, approximately 33 meters north of the Mean High-Water Line. Recoverable Topographic Station. Elevation: 100 ft.
1613a Top of rock on foreshore, Awash at MHW
1614 6 ft. evergreen.
1615 20 ft. evergreen.
1616 Lone evergreen on point.
1617  Evergreen.
1639  South Cable of shack. (destroyed)
1639  Small hardwood bush.
1640  Center of water-filled depression in ledge.
1640a Intersection of paths.
1641  Tall, lone evergreen. destroyed
1642  30 ft. evergreen. (destroyed)
1643  25 ft. lone evergreen.
1644  Very tall lone evergreen. (destroyed)
1645  Easterly and smaller of two evergreens.
1646  10 ft. evergreen.
1647  6 ft. diameter boulder, 3 ft. high.
1648  Small 10 ft. bushy evergreen.
1649  Most southwesterly of two small evergreens.
1650  30 ft. evergreen.
1651  "North East End of Stone Guard Rail of Bridge" - The station is the northeast end of easterly stone guard rail of bridge, at the north end of Otter Cove. Recoverable Topographic Station.
1652  45 ft. evergreen on side of steep bank.
1653  25 ft. evergreen beside ledge outcrop.
1654  12 ft. evergreen, lower branches are gone. South of deep cut in ledge through which a spring drains.
1655  "Hole" - The station is a standard bronze disc stamped "Hole" in the southeast tip of high outcrop of ledge at a place known locally as "Thunder Hole". It is located on the Mean High-Water Line on the east shore of Mount Desert Island. Recoverable Topographic Station.
1656  "Wall" - The station is a standard bronze disc stamped "Wall" in the center of the south end of the southernmost large granite block (one of seven) forming guard wall. It is located on Western Point, on Mount Desert Island on the east side of the highway and approximately 45 meters northwest of the Mean High-Water Line. Recoverable Topographic Station. Elevation: 60 ft.
1665  Southwest corner of offshore end of pier.
Rock which bars 2 ft at MHW on foreshore ledge.

Chimney, center of large house.

Cupola, center of green building.

South Gable, large white house. — The station is the south gable of a large two story white weatherboard house with a brick chimney. It has a front porch on the southeast corner of house. It is located at Fernald Point, Sutton Island, approximately 48 meters from the Mean High-Water Line. Recoverable Topographic Station.

Northwest corner of offshore end of pier.

West corner of offshore end of pier.

Northwest corner of offshore end of pier.

Northwest corner of offshore end of pier.

East corner of cribbing of ruined pier.

Northwest corner of offshore end of pier.

Chimney, center of house.

"Chimney, East Gable of House" — The station is a large stone chimney with three square terra cotta (yellow) flue pipes in top, at east gable of large one and one-half story shingled house. It is located on northeastern section of Sutton Island, approximately 36 meters from Mean High-Water Line. Recoverable Topographic Station. Elevation: 50 ft.

North corner of offshore end of pier.

West gable of house on dock.

Evergreen.

Twin evergreen.

Evergreen.

Cupola near north end of brown house with shingled roof. It has a porch facing the water.

20 ft. evergreen. Elevation: 10 ft.

Tallest of two chimneys on gray stucco house with brown trimmings and shingled roof. Chimney has yellow terra cotta pipe (2 ft. long) on top.

15 ft. evergreen on grass line. Elevation: 8 ft.

Otter, 1944." — Station is the center of the wooden Coast Guard Tower on top of the hill at Otter Point on the south side of Mount Desert Island. It is about 50 meters west of parking area, is a wooden house supported on four wooden legs which are anchored to ledge.
"Utter, 1944" (Continued)
rock with about 1 1/2" anchor bolts (one for each leg). Located by
ground survey methods. Recoverable Topographic Station.
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<td>308</td>
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<td>302</td>
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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.