

# 8584

Diag'd. on Diag. Ch. No. 1202

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Planimetric Air Photo.  
(Shoreline)

Field No. CS-272 Office No. T-8584

### LOCALITY

State Maine

General locality Vicinity of Mount Desert Is.

Locality Mount Desert Island, Bar Harbor  
to Schooner Head, Iron Bound Island

1944

CHIEF OF PARTY

D.E. Sturmer

LIBRARY & ARCHIVES

DATE

June 2, 1949

8-1870-1 (1)

# 8584

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 reproductions of the manuscript. The photographs were ratio printed to scale permitting detail to be added without further radial plotting. Wherever 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.

Building and road revision was applied on Mt. Desert Island east of Longitude  $68^{\circ}-14'$ . Considerable change was made to buildings and roads on this sheet, particularly in the western part of Bar Harbor, because of the great destruction caused by fire and of subsequent rebuilding. On the Mount Desert portion of this sheet south of Latitude  $44^{\circ}-22'-15''$ , almost all trees were destroyed by fire and should be removed from the manuscript. Many buildings along the eastern shore of Mount Desert Island were removed from the brownline print and were replaced by ruin symbols.

No shoreline revision was made on Iron Bound Island or Egg Rock because no 1952 photography was available.

Thirty-four (34) additional photo-hydro stations have been added where believed necessary. Since this sheet was devoid of photo-hydro stations along the east shore of Mt. Desert Island, it was necessary to locate a number of stations and check others by radial plot. This radial plot was controlled by radial plot locations from the 1944 plot and by four triangulation stations on this and the adjoining sheet south. Good intersections were obtained and these locations are believed to be of standard map accuracy.

Photo-hydro stations between radial-plot stations were located by cuts from radial plot photographs, or by orienting ratio prints under the manuscript, holding to radial plot locations and detail, and picking through.

Since there is doubt that hydrographic surveys will be made in the vicinity of Iron Bound Island, no radial plot was laid in that area at this time. All photo-hydro stations on that island were located by orienting ratio prints under the manuscript, holding detail, and pricking through. These stations should be checked before use.

Respectfully submitted:

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

Approved by:

*L. C. Lande*  
L. C. Lande

## DATA RECORD

T- 8584

Quadrangle (II):

Project No. (II): CS-272

Field Office:

Air Photographic Party No. 2

Chief of Party: *Dale E. Sturmer*  
~~Fred. L. Peacock~~

Compilation Office:

Baltimore Photogrammetric Office

Chief of Party: Fred. L. Peacock

Instructions dated (II, III):  
April 1, 1942 (Additional)Copy filed in *Division of*  
~~Descriptive~~

July 10, 1943 (Horizontal Control Requirements)

~~Report No. 2~~

March 18, April 11, and July 17, 1944 (Supplemental)

August 10, 1944 (Additional)-Aug. 26, 1944 (Amendment to Additional Instructions).

Completed survey received in office: 27 Feb. 1946

Reported to Nautical Chart Section:

Reviewed: 1/17/47

Applied to chart No.

306

12/5/45 (partial)

318

Date: 14 Mar. 1948 (partial)

205

2/11/47 + 1/7/48

Redrafting Completed: 10 Mar. 1948

Registered: 21 July 1948

Published: 25 June, 1948 (vacat copy)

Compilation Scale: 1:10,000

Published Scale: 1:10000

Scale Factor (III): 1:0000

Geographic Datum (III): N. A. 1927

Datum Plane (III): M. H. W.

Reference Station (III): WHEELER, 1860, r. 1944

Lat.: 44° 23' 11.893" 367.1 m. Long.: 68° 10' 52.550" 1163.2m Adjusted Corrected to N.  
Grandadjusted A. 1927 datum.State Plane Coordinates (VI): *Maine, East zone*

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
44-C-942 to				
44-C-946, Incl.	5-16-44	1230	1:10,000	1.0' above M.L.W.
44-C-1059 to				
44-C-1060, Incl.	5-17-44	1215	1:10,000	0.0' above M.L.W.
44-C-1191 to				
44-C-1195, Incl.	5-26-44	1015	1:10,000	3.8' above M.L.W.
44-C-1679 to				
44-C-1683, Incl.	6-4-44	1145	1:10,000	5.7' above M.L.W.
44-C-1691 to				
44-C-1696, Incl.	6-4-44	1200	1:10,000	5.3' above M.L.W.
44-C-1697 to				
44-C-1699, Incl.	6-4-44	1215	1:10,000	4.7' above M.L.W.
44-C-2112 &	6-23-44	1200	1:10,000	10.0' above M.L.W.

Tide from (III): Predicted Tide Tables, Atlantic Ocean, 1944. Reference Station, Eastport, Maine, with correction to Bar Harbor. Mean Range: 10.5' Spring Range: 12.0'

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: Sept. 1944

Field Edit by: *None* date:

Date of Mean High-Water Line Location (III): As of the photographs taken on May 16, 17, 26, 1944 and June 4, 23, 1944, supplemented by the field data obtained during September, 1944.

Projection and Grids ruled by (III) S.R. date: 3-9-45

" " " checked by: S.R. - Murrery date: 3-9-45

Control plotted by: Harry R. Rudolph date: 3-15-45

Control checked by: A. L. Gonscharsky date: 3-19-45

Radial Plot by: W. E. Schmidt - H. R. Rudolph date: March, 1945

Detailed by: Henry P. Richert date: 5-15-45 to 6-23-45

Reviewed in compilation office by: Raymond Wlaser date: 6-28-45 to 7-7-45

Elevations on *Map Manuscript* ~~Field Edit Sheet~~ checked by: *H.W. Thune* date: 1/17/47



STATISTICS (III)

Land Area (Sq. Statute Miles); 2

Shoreline (More than 200 meters to opposite shore); 13 Statute Miles

Shoreline (Less than 200 meters to opposite shore); None

Number of Recoverable Topographic Stations established; \* 12

Number of Temporary Hydrographic Stations located by radial plot; 39

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 seven determined by radial plot, two of which  
are Bench Marks, and the positions of five were determined  
by ground-survey methods.

**FIELD REPORT  
SURVEY No. T-8584**

**COAST OF MAINE  
VICINITY OF MT. DESERT ISLAND  
Project No. CS-272-E**

**1. DESCRIPTION OF THE AREA:**

According to instructions, dated August 10, 1944, the Survey for Map Drawing, Survey No. T-8584, is a shoreline survey.

Survey No. T-8584 covers an area along the eastern shore of Mount Desert Island from Bar Harbor to just south of Schooner Head, Bald Porcupine Island, Thrumcap Island, Egg Rock, and the greater part of Iron Bound Island.

The terrain immediately adjacent to the Mean High-Water Line is, in general, very rocky. The foreshore area is commonly ledge rock with a few stretches of sand and gravel beaches mostly boulder strewn. A bar connecting Bar Harbor with Bar Island is used as a road at low water.

The interior, except for the City of Bar Harbor, is mountainous and mostly tree covered. The highest of these mountains is Cadillac Mountain which rises to a height in excess of 1500 feet. Several large and small lakes in the western part of this survey are fed by many of the mountain streams. There are a few cleared and cultivated areas, most of which are along the roads through the valleys.

A large portion of the interior area (undetailed) of this Map Drawing is included within the boundary of the Acadia National Park.

**2. COMPLETENESS OF FIELD INSPECTION:**

Two horizontal control stations within the limits of the Map Drawing could not be found. However, sufficient horizontal control stations were recovered to adequately control the photographs in the area. The identification of the Mean High-Water Line, the approximate Low-Water Line, and offshore features are complete except for off-lying shoal and sunken reef areas not discernable on the air photographs. 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:

Two horizontal control stations within the area of Survey No. 7-8584 could not be found, five were recovered but not identified and five were established and located by approved ground-survey methods. All other horizontal control stations within the area of this survey were recovered and identified as positive or good.

Form No. 526, Recovery Note, has been submitted for each of the previously existing control stations recovered within the area of the Survey.

5. VERTICAL CONTROL:

Bar Harbor Tidal Bench Mark No. 6 (1911) and B.M. (U.S.E.) also at Bar Harbor were recovered and positively identified on the field photographs: No other vertical control was recovered in the area of this Map Drawing. *Top Sta (from 524)*

Form No. 685, Report on Condition of Bench Mark, has been submitted for each of these control stations.

6. DRAINAGE:

No drainage has been identified 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 identified except around Thrumcap Island. The identification of the position of most of the Mean Low-Water Line is very close to its true position but is to be considered as approximate. The Mean Low-Water Line at the eastern shore of Bar Harbor, from the municipal pier to Cromwell Cove, has been identified with full charting accuracy.

9. WHARVES AND SHORELINE STRUCTURES:

All of the piers, piling, boat skidways, seawalls, and retaining walls 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 a rock ledge area, a rock awash at Mean Low-Water, and several rocks that uncover at Mean Low-Water.

The character of the foreshore area has been indicated on the field photographs. The extent to which several prominent rocks bare or uncover at Mean Low-Water has been noted on the photographs.

The height of each of the small islets above Mean High-Water has been noted.

11. LANDMARKS AND AIDS TO NAVIGATION:

EGG ROCK LIGHTHOUSE, 1902, r. 1944, is the only previously charted Fixed Aid to Navigation which falls within the limits of the Survey.

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:

12 Recoverable Topographic Stations.  
39 Temporary Hydrographic Stations.

Descriptions have been furnished.

14. ROAD CLASSIFICATIONS:

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

18. GEOGRAPHIC NAMES:

No investigation.



COMPILATION OFFICE  
MAP DRAWING, SURVEY No. T-8584

COAST OF MAINE  
MOUNT DESERT ISLAND  
BAR HARBOR TO SCHOONER HEAD  
IRON BOUND ISLAND  
Project No. CS-272

26. CONTROL:

The horizontal control in the area of the Map Drawing for Survey No. T-8584 consists of seventeen stations. They are as follows:

13 Within the detail limits

<u>Name of Station</u>	<u>Established By</u>	<u>Type of Station</u>
**BAR HARBOR, EAST RADIO TOWER, 1944 ✓	• U.S.C. & G.S.	Topographic (New) <i>fm 524</i>
BAR HARBOR, WEST RADIO TOWER, 1944 ✓	• U.S.C. & G.S.	Topographic (New) " "
*DUN, 1944 ✓	• U.S.C. & G.S.	Topographic (New) " "
*EGG, 1944 ✓	• U.S.C. & G.S.	Topographic (New) " "
EGG ROCK L.H. 1902, r. 1944 ✓	• U.S.C. & G.S.	Triangulation (Intersection)
E-3, 1937, r. 1944 ✓	• U.S.E.	Triangulation
**E-5, 1937, r. 1944 ✓	U.S.E.	Triangulation
**E-6, 1937, r. 1944 ✓	U.S.E.	Triangulation
**E-10, 1937, r. 1944 ✓	U.S.E.	Triangulation
**E-11, 1937, r. 1944 ✓	U.S.E.	Triangulation
*MOUNT DESERT, 1856, 1944 ✓	• U.S.C. & G.S.	Triangulation
*ROCK 1944 ✓	• U.S.C. & G.S.	Topographic (New)
*WHEELER 1860, r. 1944 ✓	• U.S.C. & G.S.	Triangulation <i>fm 524</i>

4 Just outside the detail limits

<u>Name of Station</u>	<u>Established By</u>	<u>Type of Station</u>
E-2, 1937, r. 1944	U.S.E.	Triangulation
**GREAT HEAD, 1934, r. 1944	U.S.C. & G.S.	Triangulation
GREAT HEAD OBSERVATORY, 1934, r. 1944	U.S.C. & G.S.	Triangulation (Intersection)
*POR, 1944	U.S.C. & G.S.	Topographic

\* 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 "F.I.P."

\*\* Station recovered but not identified.

Eleven of the seventeen above-mentioned stations were available for use as horizontal control.

*Vertical:*

*T.B.M. No 6, 1911  
BM(USE) 1937*



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. See Radial Plot Report for Surveys Nos. T-8573 to T-8590, inclusive, T-8594 and T-8595, submitted June 5th, 1945.

28. DETAILING:

The photography, field data, horizontal ground control, and radially plotted control points available for the compilation, were adequate. No difficulties were encountered during compilation.

Only the area in the vicinity of the shoreline was detailed, with the exception of Bald Porcupine Island, which has been detailed in its entirety; also shown on the Map Drawing is approximately that portion of the street and road system of Bar Harbor, Maine, which is contained on the U. S. Coast and Geodetic Survey Nautical Chart No. 318 (Bar Harbor). This was deemed advisable in order to supplement and correct the information presented on the above-mentioned Nautical Chart. Attached to this Descriptive Report is a letter from Lieutenant Dale E. Sturmer which greatly aided in the detailing of the eastern limits of Bar Harbor, Maine.

29. MEAN HIGH-WATER LINE:

The Mean high-Water Line 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.

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. Where the definite position of the Mean Low-Water Line was identified, it was shown with a light-weight dash and dot black acid ink line.

31-A. FORESHORE AREAS:

The foreshore areas shown consist of rock ledge, boulders, detached rocks, mud, sand and gravel areas, and a foul area, all of which have been detailed in accordance with field data. *Corrections made in the delineation of foreshore in Cronwell Cove and Compass Harbor in accordance with information forwarded by the Commanding Officer of U.S.C. & G.S.S. Galveston, Sept. 1948. K.M.W. 4/29/49*

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, boulders, rocks, piling areas, shoals, sunken reefs, islets, and a foul area. 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:

Piers, bulkheads, seawalls, retaining walls, and a boat skidway have been shown in accordance with the field data.

34. LANDMARKS AND AIDS TO NAVIGATION:

Egg Rock Lighthouse, 1902, r. 1944, is the only previously charted Fixed Aid to Navigation which falls within the limits of the Survey.

No other previously charted or desirable uncharted Landmark or uncharted Fixed Aids to Navigation fall within the limits of the Survey.

Form No. 567 has not been submitted because the position of this Landmark has been previously determined by triangulation.

35. HYDROGRAPHIC CONTROL:

- 5 Recoverable Topographic Stations - Located by ground-survey methods.
- 7 Recoverable Topographic Stations - Located by radial plot.
- 39 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 twelve recoverable Topographic Stations. *Filed in Division of Photogrammetry General Files.*

38. GEOGRAPHIC NAMES:

Taken from Nautical Charts Nos. 306 and 318 and the Bar Harbor, Maine, U. S. Geological Survey Quadrangle Map.

A list of the Geographic Names is attached to this report.

*See Par. 26*

*No. 1694*

*1698*

*1700*

*1705*

*1752*

*TBM 6, 1911*

*BM (USE) 1937*



**39. JUNCTIONS:**

The junctions with Map Drawing, Survey No. T-8583 to the north and Survey No. T-8585 to the south have been made and are in agreement.

The junctions with Surveys Nos. T-8575 and T-8576 to the west is an undetailed interior area of Mt. Desert Island.

The junctions with Surveys Nos. T-8587 and T-8588 to the east is an all-water area.

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

Believed to be within 0.5 mm.

**41. RECOMMENDATIONS FOR FUTURE SURVEYS:**

Map Drawing, Survey No. T-8584, 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:**

United States Geological Survey Bar Harbor, Maine, Quadrangle, 15' series, scale 1:62,500, edition of 1942.

Details common to the Map Drawing and the Quadrangle are, in general, in good agreement. Several piers, retaining walls, bulkheads, geographic names and a boat skidway shown on the Map Drawing do not appear on the quadrangle. Several streams and a pier that are shown on the quadrangle have not been detailed on the Map Drawing because they could not be identified on the photographs.

**45. COMPARISON WITH NAUTICAL CHARTS:**

Chart No. 306, scale 1:40,000, published at Washington, U. 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. Several roads, rocks, rock ledge areas, islets, piers, geographic names, all buildings, and a boat skidway have been shown on the Map Drawing and do not appear on the chart. Several floating Aids to Navigation, a cable crossing area, and several streams, which have been charted, have not been shown on the Map Drawing because they could not be identified on the photographs.



45. COMPARISON WITH NAUTICAL CHARTS: (Continued)

Chart No. 318, scale 1:10,000, published at Washington, D. C., December 1938, corrected to February 19, 1944 (Common area).

Details common to the Map Drawing and the chart are, in general, in good agreement. Several trails, buildings, and rock ledge areas which have been shown on the Map Drawing do not appear on the chart. Several buildings have been charted but have not been shown on the Map Drawing because they were not visible on the photographs and have probably been destroyed or rebuilt.

The Map Drawing for Survey No. T-8584 was compiled under the supervision of Harry R. Rudolph, Photogrammetric Aid; reviewed and corrected by Raymond Glaser, Engineering Draftsman.

Respectfully Submitted,  
July 17, 1945

Raymond Glaser  
Raymond Glaser,  
Engineering Draftsman

Harry R. Rudolph  
Harry R. Rudolph,  
Photogrammetric Aid

and

Joseph Steinberg  
Joseph Steinberg,  
Photogrammetric Engineer

Approved and forwarded:  
July 20, 1945

Fred. L. Peacock  
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 Map of Bar Harbor, Maine.

- ✓ Anemone Cave .
- ✓ Bald Porcupine Island .
- ✓ Bar Harbor (Town) .
- ✓ Bar Harbor .
- ✓ Bear Brook .
- ✓ Compass Harbor .
- ✓ Cranberry Hill .
- ✓ Cromwell Brook .
- ✓ Cromwell Cove .
- ✓ Dorr Point .
- ✓ Egg Rock .
- ✓ Fish Point .
- ✓ Frenchman Bay .
- ✓ Handiron Ledge .
- ✓ Mt. Desert Island .
- ✓ Oak Hill Cliff .
- ✓ Ogden Point .
- ✓ Old Whale Ledge .
- ✓ Porcupine Dry Ledge .
- ✓ Schooner Head .
- ✓ Seal Cove .
- ✓ Sols Cliff .

- ✓ Great Hill .
- ✓ Eddie Brook .
- ✓ Duck Brook .
- ✓ Eden street. (State No. 3).
- ✓ Mountain Road .
- ✓ Eagle Lake Road .
- ✓ New Eagle Lake Road .
- ✓ ~~Alow Meadow Hill~~ New Mill Meadow .
- ✓ Brewer Mountain .
- ✓ Halfmoon Pond .
- ✓ Breakneck Ponds .
- ✓ Breakneck Brook .
- ✓ Breakneck Road .

Names preceded by . are approved.

L. Heer

7/18/47

GEOGRAPHIC NAMES

(names added in ink are all on map except State No. 3)

GEOGRAPHIC NAMES

(Disputed)

Chart No. 306

- ✓. Iron Bound Island
- ✓. Thrumcap Island

Ber Harbor, Maine, Quadrangle

Ironbound Island  
The Thrumcap

1944  
**IDENTIFICATION REPORT**  
**HORIZONTAL CONTROL**  
**MAP DRAWING, SURVEY No. T-8584**  
**Project No. CS-272**

<u>Station</u>	<u>U.S.G.S. Quadrangle</u>	<u>Recovery Date</u>	<u>Pricking Data</u>
(c) BAR HARBOR CHURCH	Bar Harbor	Lost	
(c) BAR HARBOR, EAST RADIO TOWER, 1944	Bar Harbor	***9-13-44	*Not pricked
BAR HARBOR, WEST RADIO TOWER, 1944	Bar Harbor	***9-13-44	Positive
(a) DUN, 1944	Bar Harbor	***10-2-44	Positive
(a) EGG, 1944	Bar Harbor	***10-6-44	Positive
EGG ROCK L.H. 1902, r. 1944	Bar Harbor	10-12-44	Positive
(b) E-2 (U.S.E.) 1937, r. 1944	Bar Harbor	11-24-44	**Good
E-3 (U.S.E.) 1937, r. 1944	Bar Harbor	11-25-44	Positive
(c) E-4 (U.S.E.) 1937	Bar Harbor	Lost	
(c) E-5 (U.S.E.) 1937, r. 1944	Bar Harbor	11-24-44	*Not pricked
(c) E-6 (U.S.E.) 1937, r. 1944	Bar Harbor	11-24-44	*Not pricked
(c) E-10 (U.S.E.) 1937, r. 1944	Bar Harbor	11-24-44	*Not pricked
(c) E-11 (U.S.E.) 1937, r. 1944	Bar Harbor	11-24-44	*Not pricked
(b)(c) GREAT HEAD, 1934, r. 1944	Bar Harbor	9-16-44	*Not pricked
(b) GREAT HEAD OBSERVATORY, 1934, r. 1944	Bar Harbor	9-16-44	Positive
(a) MOUNT DESERT, 1856, r. 1944	Bar Harbor	9-5-44	Positive
(a)(b) POR, 1944	Bar Harbor	***9-18-44	Positive
(a) ROCK, 1944	Bar Harbor	***10-6-44	Positive
(a) WHEELER, 1860, r. 1944	Bar Harbor	9-18-44	Positive

\* Sufficient control in area.

\*\* Pricked within 2 or 3 meters.

\*\*\* Indicates new control station established in 1944.

Notes by Field Compilation Office

(a) Identified by well defined picture point connected to station by short traverse. The position of the substitute point has been shown on the Map Drawing with a very small black acid ink circle, accompanied by the letters "F.I.P."

(b) Station lies just outside the detail limits of the map Drawing. All others are contained within the detail limits.

(c) Not used to control the radial plot.

NOTES  
FOR  
REVIEWER

COAST OF MAINE  
MAP DRAWING, SURVEY No. T-8584  
PROJECT No. CS-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  $2\frac{1}{2}$  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, or by approved ground-survey methods. 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 following discrepancies between the Map Drawing and the U. S. Geological Survey Bar Harbor, Maine, Quadrangle were found:

Shown on the Map Drawing but not on the Quadrangle:

Several retaining walls along the north shore of Bar Harbor.

Several bulkheads and piers along the north shore of Bar Harbor.

Two Bench Marks in the northeastern section of Bar Harbor.

A gravel foot path which runs several meters inshore from the Mean High-Water Line, along the eastern edge of Bar Harbor, from the large city pier, southward to Cromwell Cove.

A number of bare rocks, boulders, and mudrock ledge along the shoreline of the entire survey.

The geographic names, Porcupine Dry Ledge, Old Whale Ledge, and Mandiron Ledge.

Shown on the Quadrangle but not on the Map Drawing Because  
no Data were Available

A stream at Ogden Point and a stream just south of Schooner Head.

A pier in Cromwell Cove.

The following discrepancies between the Map Drawing and Nautical Chart No. 306 were found:

Shown on the Map Drawing but not Charted

Several streets and side roads in the city area of Bar Harbor.

A gravel foot path which runs several meters inshore from the Mean High-Water Line, along the eastern edge of Bar Harbor, from the large city pier, southward to Cromwell Cove.

Two Bench Marks in the northeastern section of Bar Harbor.

Several retaining walls along the north shore of Bar Harbor.

All buildings.

A number of bare rocks, boulders, and much rock ledge along the shoreline of the entire survey.

A boat skidway at Egg Rock.

A pier at northern part of Bar Harbor, a pier at Cromwell Cove and a pier at Fish Point.

The geographic names Ogden Point, Compass Harbor, Dorr Point, Sols Cliff, Cranberry Hill, and Oak Hill Cliff.

Charted but not Shown on the Map Drawing Because no Data  
Were Available

A cable area which crosses Frenchman Bay from Cranberry Hill to Egg Rock.

Several floating Aids to Navigation.

Five sunken rocks south of Egg Rock.

Two streams on Iron Bound Island.

A stream at Compass Harbor.

A stream in Cove southwest of Schooner Head.

In Disagreement with Chart No. 306

Three small islets at the southern end of a ledge area extending southwest from Egg Rock and one small islet on a ledge just offshore from Anemone Cave have been shown on the map Drawing with the extent to which they bare at Mean High-water. These features appear on the Chart as two rocks awash on the ledge southeast of Egg Rock and a rock awash just offshore from Anemone Cave.

Minute comparison of the Map Drawing with the U. S. Coast and Geodetic Survey Nautical Chart No. 318, Bar Harbor, Maine, published December 1938, and corrected to February 19, 1944, was possible because of the congruity of their scales.

Common detail was in fair agreement, with a maximum discrepancy of about 30 meters. (position of large bldgs)

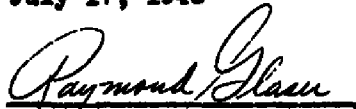
Several large buildings and a number of side roads which are charted were not visible on the photographs.

Several side roads which are not charted are detailed on the Map Drawing.


A gravel foot path which runs several meters inshore from the Mean High-Water Line, along the eastern edge of Bar Harbor, from the large city pier, southward to Cromwell Cove, is charted in part as a road. (See letter from Lieutenant Dale E. Sturmer accompanying this report).

A small cave and a large cave in the vicinity of Schooner Head have been indicated on the field photographs; their approximate locations have been indicated by an appropriate note on the map Drawing. It is believed that the large cave is the one for which the geographic name, "Anemone Cave", is intended.

Respectfully Submitted,  
July 17, 1945

  
Raymond Glaser,  
Engineering Draftsman

Approved and Forwarded:  
July 20, 1945

  
Fred. L. Peacock  
Chief of Party, U. & G. Survey  
Officer-in-Charge,  
Baltimore Photogrammetric Office



Box 180, Ellsworth, Maine

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DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

July 2, 1945

To: Chief, Air Photographic Party No. 2  
U. S. Coast and Geodetic Survey  
601 Gorsuch Ave.  
Baltimore 18, Md.

From: Dale K. Sturmer  
Lieut., C&GS

Subject: Field Work.

This refers to your letter June 29 concerning the waterfront at Bar Harbor abreast Bald Porcupine Island.

This stretch of shoreline is rock with seawalls in the depressions between the high points of rock to make an even lawn along the waterfront. The seawall may run for 5, 10 or 20 meters, then stop for an equal distance and then pick up again. I believe the seawalls could probably be seen in the stereoscope. The whole waterfront should not be shown as seawall. Most of the trees and shrubbery are on the high points where there are no seawalls. At the inner end of Cromwell Cove is a seawall about 3 feet high.

~~The feature you mention as charted is a road is a gravel foot path that runs from the north point of Cromwell Cove to the park in the~~

The feature that you refer to as being charted as a road is probably the gravel foot path that runs from the north point of Cromwell Cove to the park in the north eastern part of the city. I do not have chart 318 to check this. Insofar as I know the path is for the public.

I hope the above answers your question. I have written the above from memory but I was along this stretch of shoreline (on shore) several times last year. If you need additional information I should like the photograph to check it.

(Signed) Dale K. Sturmer  
Dale K. Sturmer  
Lieut., C&GS.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

**SUPPLEMENTAL**  
**DESCRIPTIVE REPORT**

Type of Survey **Planimetric Air Photographic**

Field No. \_\_\_\_\_ Office No. **T-8584**

LOCALITY

State **Maine**

General locality **Coast of Maine**

Locality **Bar Harbor**  
**Mt. Desert Island - Iron Bound Island**

1946

CHIEF OF PARTY

**Fred. L. Peacock**

LIBRARY & ARCHIVES

DATE \_\_\_\_\_

ADDITIONAL WORK - 1946

T-8584

In accordance with the original and various Supplemental Instructions for Project No. GS-272, the Surveys in the vicinity of Penobscot Bay were Photogrammetric Shoreline Surveys. The compilation of these Surveys were completed by the Baltimore Photogrammetric Office in accordance with these instructions.

New Instructions, dated January 10, 1946, requested the detailing of portions of the interior on seven Photogrammetric Shoreline Surveys of this area for use in compiling new 1:10,000 scale Harbor Charts Nos. 317, 318, and 319. Survey No. T-8584 is one of these.

The Instructions were accompanied by layouts on which were shown the areas within which complete photogrammetric detail was required.

The additional work required on Survey No. T-8584 includes all of the planimetric detail approximately one mile wide along the northern limits and extending from Bar Harbor westward to the western limits of the Survey. This planimetric detail includes an area of approximately  $2\frac{1}{2}$  square miles. This area includes approximately  $\frac{2}{3}$  of the town of Bar Harbor which has been detailed in its entirety.

Good junctions of planimetric details were made with Map Manuscript for Survey No. T-8583 to the north.

All details are shown in accordance with the Compilation Office interpretation of the photographs as no field data were furnished the Compilation Office.

Respectfully Submitted,  
February 25, 1946

Harry R. Rudolph  
Harry R. Rudolph  
Photogrammetric Aid

Additional Compilation By:

Ruth E. Rudolph  
Ruth E. Rudolph,  
Photogrammetric Aid

Additional Work reviewed By:

Raymond Glaser  
Raymond Glaser  
Engineering Draftsman

Supervised By:

Harry R. Rudolph  
Harry R. Rudolph  
Photogrammetric Aid

Approved and Forwarded:  
February 27, 1946

Fred. L. Peacock  
Fred. L. Peacock  
Chief of Party, U. & G. Survey  
Officer-in-Charge,  
Baltimore Photogrammetric Office

Division of Photogrammetry  
Review Report of  
Shoreline Map Manuscript T-8584

Paragraph numbers used in this report refer to paragraph numbers in the Descriptive Report.

28 through 32    Compilation:

The shoreline and planimetry shown on the map manuscript are complete and in accordance with project instructions and no significant changes were necessary during the review except for the following.

The map manuscript showed a dashed line outside the ledge and low water lines, marked "reef" and "shoal". This line was placed on the map drawing wholly from office interpretation of the photographs. Comparison with existing nautical charts indicates that this line showed no consistency with respect to soundings, and as the line would be of no value to the hydrographer it has 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 on a given day. No information is given on the field photographs, or in the Field Inspection Report concerning the time datum used by the field inspector, i.e., whether Eastern War Time or Eastern Standard Time (75th Meridian Time) was used. The tide curves submitted with this manuscript shows a correction from Eastern War Time to 75th Meridian Time. With no specific information available to this office it is assumed that this time adjustment was made after obtaining some definite explanation from the field inspector.

44    Comparison with Existing Topographic Quadrangles

This manuscript (T-8584) supersedes the following older U.S.C&GS surveys in common area for common detail.

(1)	1334a	1873	1:10,000
(2)	1334b	1873	1:10,000
(3)	1334c	1874	1: 5,000
(4)	1541	1884	1:10,000

Comparison has been made between this map manuscript (T-8584) and the following U.S.G.S. quadrangles and good agreement exists in all common detail except as noted under "Notes to the Reviewer", in the Descriptive Report.

- (1) U.S.G.S., Bar Harbor quadrangles (Hancock County),  
Maine, 15' minute series, 1:62,500, edition of 1942
- (2) U.S.G.S., Mount Desert quadrangle, (Hancock County),  
Maine, 15' minute series, 1:62,500, edition of 1942

Comparison has also been made between this manuscript (T-8584) and the following U.S.G.S. Special Sheet. No additional discrepancies were noted.

- (1) U.S.G.S., Acadia National Park and Vicinity (Hancock County), Maine, 1:31,680, edition of 1942.

45 Comparison with Nautical Charts

This manuscript was compared with U.S.C. & G.S. nautical chart number 306, edition of 1942, corrected to June, 1946, 1:40,000. Discrepancies between these maps are adequately discussed under item number 45 and "Notes to the Reviewer", in the Descriptive Report.

This map drawing T-8584) has been applied in part to U.S.C. & G.S. nautical chart number 306 prior to this review. No significant corrections have been made during this review. The minor corrections have been shown on the manuscript in red ink.

Reviewed by:

Under the direction of:

Howard W. Thune  
Howard W. Thune *Khm*  
Photogrammetrist 1-17-47

L. V. Griffith  
Chief, Review Section *K.M.*

Approved by:

B. J. Jones  
Tech. Asst. to Chief,  
Division of Photogrammetry

H. E. Edmonson  
Chief, Nautical Chart Branch  
Division of Charts

K. T. Adams  
Chief, Div. of Photogrammetry

W. M. Scaife  
Chief, Div. of Coastal Surveys

## NAUTICAL CHARTS BRANCH

SURVEY NO. T-8584

### Record of Application to Charts

[illegible]

**M-216A-1**

**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.**

NOTES  
FOR  
HYDROGRAPHIC PARTIES

COAST OF MAINE  
MAP DRAWING, SURVEY No. T-8584  
PROJECT No. CS-272-E

The  $2\frac{1}{2}$  millimeter ink circles are the positions of the selected hydrographic control stations. Two copies of the Descriptive List have been furnished for your use.

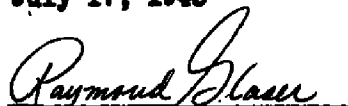
The outline of shoal and sunken reef areas shown are approximate and are for your advance information only. They are shown with long dashed and short dashed ink lines respectively.

The dotted ink line is the approximate position of the Mean Low-Water Line. The dot and dash ink line is the accurately determined 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-982-1, submitted to the Washington Office.

Five sunken rocks just south of Egg Rock, several floating aids to navigation in the area of the survey, and a cable area crossing Frenchman Bay from Cranberry Hill to Egg Rock have been charted, but these features have not been detailed on the Map Drawing because they were not visible on the photographs. These features should be investigated during contemplated hydrography.

Respectfully Submitted,  
July 17, 1945

  
Raymond Glaser,  
Engineering Draftsman

Approved and Forwarded:  
July 20, 1945

  
Fred. L. Peacock  
Chief of Party, C. & G. Survey  
Officer-in-Charge,  
Baltimore Photogrammetric Office



T-8584

COAST OF MAINE  
PROJECT No. CS-272-E

DESCRIPTIONS OF THE RECOVERABLE TOPOGRAPHIC  
STATIONS AND TEMPORARY HYDROGRAPHIC STATIONS FOR  
THE AREA OF MAP DRAWING, SURVEY No. T-8584

NUMBER OF RECOVERABLE TOPOGRAPHIC STATIONS..... 12  
NUMBER OF TEMPORARY HYDROGRAPHIC STATIONS..... 39  
TOTAL NUMBER OF STATIONS..... 51

Superseded by RS Report  
→

Hydrographic stations 001-029 added in Washington  
office, Jan. 1953 from photographs taken <sup>May</sup> June 1952.  
Location made by orienting  
ratio prints under manuscript. *David H. Romero*  
Ensign USCGS

Listed By:

*Raymond Glaser*  
Raymond Glaser,  
Engineering Draftsman

Checked BY:

*Ruth E. Rudolph*  
Ruth E. Rudolph,  
Photogrammetric Aid

RS 464  
(T-8584)  
Ph-103(52)

Number	Name	Photo	Method of location	Description
020		44-C-943	Detail	Top of rock centered in indent in shoreline.
020a		"	"	Top of bare rock arm extending to NE
021		"	"	Top center of bare <del>rock</del> point with cracks about 5 meters to either side.
022		"	"	Bare white tree trunk (?) sloping down to HWL.
023		"	"	Bare rock just off end of prom. slender weeded point.
024		"	"	Extremity of sharp heavily wooded pt.
025		"	"	NE end of semi-detached ledge which is bare at MHW
026		"	"	Most westerly tree of group
027		"	"	Top of bare rock arm extending to NW
028		"	"	NW corner of float at end of pier.
029		"	"	NE corner of most easterly building.

R.S. 464  
(T-8584)  
Ph-103(52)

<u>No.</u>	<u>Name</u>	<u>Photo</u>	<u>Method of location</u>	<u>Description</u>
1703		FIP	R.P.	Small lone tree
1704		FIP	R.P.	lone evergreen
1705		FIP	R.P.	East Gable of House
1706		FIP	R.P.	Small tree
1707		FIP	xR.P. of pier	End of pier
1708		FIP	R.P.	Gable of building
1709		FIP	R.P.	Top of large boulder at end of breakwater.
2446		FIP	R.P.	Evergreen at edge of bluff
1715		FIP	R.P.	Evergreen just outside of gravel path
1710		FIP	R.P.	Boulder on foreshore
1710a	1039	<del>FIP</del>	R.P.	Large boulder on foreshore
1711		FIP	R.P.	North corner of end of pier
2447		FIP	R.P.	" " " " " "
1712		FIP	R.P.	NE Corner of high stone wall
1714		FIP	R.P.	NE corner of swimming pool
1713		FIP	R.P.	Chimney
1713a	1040		Detail	Dormer gable (?) on roof of large house



- 1692 Evergreen.
- 1693 25' evergreen.
- 1694 "EAST GABLE OF HOUSE" - The station is the east gable of two-story house. Bottom half stone, top half shingled. Tar paper shingled roof. Located on the west shore of Frenchman Bay at Schooner Head. Recoverable Topographic Station.
- 1695 Chimney at peak of northern part of house.
- 1696 Northeast gable, large white house.
- 1697 Evergreen.
- 1698 "LARGE CHIMNEY" - The station is the large chimney nearly in center of two and one-half story house. Brick house with asbestos roof and railing along the ridge of roof. Front of house has stone foundation. House trimmed in white with green shutters. Located on the west shore of Frenchman Bay about 1020 meters southwest of Thrumcap Island. Recoverable Topographic Station. *see 007*
- 1699 Southeast gable of large white house.
- 1700 "TALL BRICK CHIMNEY" - The station is a tall brick chimney on very large house with stone foundation and stucco walls covered with designs made of wood. House has spires and steep gables. Three-story, tan color. Located on the west shore of Frenchman Bay near Bear Brook. Recoverable Topographic Station.
- 1701 Large chimney at south gable.
- 1702 Foot of ladder near beach.
- 1703 Taller of two evergreens.
- 1704 30 foot bushy evergreen.
- 1705 "EAST GABLE OF LARGE HOUSE" - The station is the east gable of a large brown two-story house. Lower half lap board, upper half shingled. Located on the west shore of Frenchman Bay at Ogden Point. Recoverable Topographic Station.
- 1706 Evergreen.
- 1706-A Evergreen.
- 1707 North corner offshore end of pier.
- 1708 Peak of small house.



- 1709 Center of end of Breakwater.
- 1710 White boulder in water.
- 1710a *Boulder on foreshore. Bares 5 ft. at MHW*
- 1711 Northeast corner of town pier.
- 1712 Northeast corner of stone retaining wall.
- 1713 Very tall chimney.
- 1713a *Former gable(?) on NE roof of large house.*
- 1714 Northeast corner of swimming pool wall.
- 1715 Evergreen.
- 1727. Northwest corner offshore end of cribbing. (Also N.I.P. DUN).
- 1728 North gable of small house.
- 1734 Top of chunk of ledge.
- 1735 Tall evergreen.
- 1736 25 ft. evergreen.
- 1737 Evergreen.
- 1738 Large evergreen.
- 1739 Tall evergreen.
- 1740 Low bushy evergreen.
- 1751 Tall white chimney & three yellow stacks on top.
- 1752 "NORTH CORNER OF CONCRETE FOUNDATION OF DOCK" - The station is the north corner of concrete foundation of dock on the west shore of Frenchman Bay. Located about 850 meters northwest of Triangulation Station E-3 (U.S.E.) 1937, r. 1944. Recoverable Topographic Station.
- 2440 Dark spot in light area, probably a bush or tree.
- 2441 Northerly of two 30 ft. evergreens. Elevation 15'.
- 2442 15 ft. evergreen. Elevation 20'.
- 2443 10 ft. evergreen. Elevation 20'.
- 2444 30 ft. evergreen. Elevation 5'.
- 2445 15 ft. evergreen. tree in front of small brown summer cottage. Elevation 10'.
- 2446 25 ft. evergreen. Elevation 5'.

2447 Northeast corner of coal dock.

"DUN" - Station is located on the northwestern side of Iron Bound Island, on Fish Point which is the western side of a small cove, 54' north of a small house with stone foundation and stone chimney on south end, 5 meters back of Mean High-Water Line and 6 meters outside tree line. Standard disc stamped "DUN, 1944". Recoverable Topographic Station.

"EGG" - Station is a standard topographic disc set in drill hole in ledge, approximately 188 meters north of lighthouse and near westerly edge of ledge above Mean High-Water Line. Recoverable Topographic Station.

"ROCK" - Station is a standard topographic disc set in drill hole in ledge, approximately 238 meters south southwest of lighthouse and near east ledge of last ledge above Mean High-Water Line. Recoverable Topographic Station.

"BAR HARBOR, EAST RADIO TOWER" - Station is the easterly of the two Naval Radio Towers at Bar Harbor. It is located in the northeastern part of the city along the waterfront. Recoverable Topographic Station.

"BAR HARBOR, WEST RADIO TOWER" - Station is the westerly of the two Naval Radio Towers at Bar Harbor. It is located in the northeast part of the city along the waterfront. Recoverable Topographic Station.

"BAR HARBOR B.M. (U.S.E.)1937" - Station is located on the large wood and stone municipal dock in Bar Harbor, 2.8 m. from the northeast edge of dock and 17 m. east of the eastern edge of the small ramp. Mark is a bronze bolt and washer, stamped "U.S.E. B.M. 1937", countersunk in the planking of the dock. Recoverable Topographic Station.

"BAR HARBOR TIDAL B.M. 6, 1911" - Station is a brass plate set in seawall about 150 ft. southward from B.M. No. 4. Located about 64 meters southeast of inshore east edge of city pier, about half-way up vertical side of seawall. Mark is a standard disc, 12.61 ft. above half tide level. Recoverable Topographic Station.



