

8574

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 Photographic
(Shoreline)

Field No. CS-272-E Office No. T-8574

LOCALITY

State Maine

General locality Mount Desert Island

Locality Somes Sound and Vicinity

1944

CHIEF OF PARTY

D.E. Sturmer

LIBRARY & ARCHIVES

DATE Nov 9 - 1949

B-1870-1 (1)

8574

R.S. 474
(T-8574)
Ph-103(52)

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.

Average tide level during the time of photography was 0.0 feet.

No building or road revision was made, nor were any new photo-hydro stations added at this time. *Completed July 1953*
DTR

Respectfully submitted:

Samuel D. Parkinson
Samuel D. Parkinson *DTR*
Lieutenant, U.S.C. & G.S.

Mar. 1953

Approved by:

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

DATA RECORD

T-8574

Quadrangle (II):

Project No. (II): CS-272 E

Field Office:

Air Photographic Party No. 2

Chief of Party:

~~Fred. L. Peacock~~
D. E. Sturmer

Compilation Office:

Baltimore Photogrammetric Office

Chief of Party:

Fred. L. Peacock

Instructions dated (II III):

April 1, 1942 (Additional)

July 10, 1943 (Horizontal Control Requirements)

March 16, April 11, & July 17, 1944 (Supplemental)

August 10, 1944 (Additional) - August 26, 1944 (Amendment to Additional
Completed survey received in office;
29 June, 1945)

Copy filed in Descriptive

Report No. ~~2~~ (VI)

Div. Photogram. Office Files

Instructions)

Reported to Nautical Chart Section:

Reviewed: 8/11/45
2/5/47Applied to chart No. 306
308
1202Date: 5 Dec 1945
17 Sept 1945
12 Oct 1945
14 Feb 1946Redrafting Completed: *Not redrafted*Registered: 25 Oct 1949
26 Feb 1948Published: ~~Not shown with dated copy 26 Nov 1947~~
Vault copy only

Compilation Scale: 1:10,000

Published Scale: 1:10000

Scale Factor (III): 1.000

Geographic Datum (III): N. A. 1927

Datum Plane (III):

Reference Station (III): FERNALD HILL, 1870, r. 1902, r. 1934, r. 1944

Lat. $44^{\circ} 18' 07.530''$ 232.4 m. Long. $68^{\circ} 18' 53.395''$ 1183.6 m Adjusted
~~UNADJUSTED~~

State Plane Coordinates (VI):

X =

Y =

Military Grid Zone (VI)

STATISTICS (III)

Land Area (Sq. Statute Miles): 2.1

Shoreline (More than 200 meters to opposite shore): 18.8 Statute Miles.

Shoreline (Less than 200 meters to opposite shore): 3.0 Statute Miles.

Number of Recoverable Topographic Stations established: *11

Number of Temporary Hydrographic Stations located by radial plot: 81

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: * 4 of these are Fixed Aids to Navigation and one is a Tidal Bench Mark.

FIELD REPORT

SURVEY NO. T-8574

COAST OF MAINE

VICINITY OF MOUNT 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-8574 is a shoreline survey.

Survey No. T-8574 covers an area in the south central part of Mount Desert Island and includes the lower part of Somes Sound, The Narrows, Southwest Harbor, Northeast Harbor, and Greening Island.

The terrain immediately adjacent to the Mean High Water Line is in general rocky, except along Marshall Brook and its tributaries where it is marshy. The foreshore area is commonly ledge rock with some stretches of sand and gravel beaches, frequently boulder strewn. The majority of the sand and gravel beaches are in or near the coves. There are some mud flats in the deeper coves.

The interior area is mostly tree covered with a few cleared and cultivated areas. The terrain in the southern part of this survey rises gradually from 20 ft. to a maximum elevation of 200 ft. In contrast to this, the terrain in the northern part is very steep along the shoreline and rises sharp to an elevation in excess of 1050 feet.

2. COMPLETENESS OF FIELD INSPECTION:

The identification of the horizontal control and the field inspection of the Mean High-Water Line, and offshore features are complete except for off-lying shoal and reef areas and charted rocks awash not visible on the air photographs. The charting data for these features will become available during the 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 U.S. Coast and Geodetic Survey triangulation stations for the area of the survey were recovered in good condition and identified on the field photographs.

4. HORIZONTAL CONTROL (Continued):

Fifteen U. S. Engineers Triangulation stations fall within the area of this survey. Of these triangulation stations two were recovered and identified on the field photographs, ten were recovered but not identified and three were not recovered.

5. VERTICAL CONTROL:

One tidal Bench Mark, Southwest Harbor, Mount Desert Island, "Tidal Bench Mark No. 2", was recovered and identified on the field photographs. (Believed, by the Compilation Office, to be "Southwest Harbor, Mount Desert Island, Tidal Bench Mark No. 4").

6. DRAINAGE:

No drainage was delineated within the area of the survey except a part of Buttermilk Brook in the vicinity of Marshall Brook.

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.

Alongshore 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 where practicable. All of the Mean Low-Water Line within the area of this survey has been delineated except for that portion along the south and west sides of Greening 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 seawalls, bulkheads, cribbings, marine ways, small boat launching skidways, piling areas and the majority of the piers 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 very small amount of detail outside the foreshore area

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

was revealed by photography. It includes two rock ledge areas and a small islet.

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

11. LANDMARKS AND AIDS TO NAVIGATION:

Five previously charted fixed aids to navigation which fall within the limits of the survey have been identified on the field photographs. One of these, "McCormick Beacon" is maintained from July 1st to September 15th only. *Chart Letter 455 (1945)*

No other previously charted landmarks fall within the area of the survey.

No new landmarks or new fixed aids to navigation are recommended for the area of the survey.

12. HYDROGRAPHIC CONTROL:

11 Recoverable Topographic Stations *fm 524*
81 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: *8142*

No investigation.

COMPILATION REPORT
MAP DRAWING SURVEY No. T-8574
COAST OF MAINE
MOUNT DESERT ISLAND
SOMES SOUND
NORTHEAST HARBOR - SOUTHWEST HARBOR
PROJECT NO. CS-272

26. CONTROL:

The horizontal control shown on the Map Drawing for Survey No. T-8574 consists of 22 stations. They are as follows:

Eighteen within the detail limits

<u>Name of Station</u>	<u>Type of Station</u>
* WEST PEAK, 1934, r 1944	Triangulation
* ROBINSON MOUNTAIN, 1870, r 1944	Triangulation
* FERNALD HILL, 1870, 1902, r. 1934, r. 1944	Triangulation
* BROWN MOUNTAIN, 1870, r. 1944	Triangulation
* NE"A" (U.S.E.), 1938, r. 1944	Triangulation
** NE"B" (U.S.E.), 1938, r. 1944	Triangulation
** NE"D" (U.S.E.), 1938, r. 1944	Triangulation
** NE"E" (U.S.E.), 1938, r. 1944	Triangulation
** NE"F" (U.S.E.), 1938, r. 1944	Triangulation
** NE"G" (U.S.E.), 1938, r. 1944	Triangulation
NE"H" (U.S.E.), 1938, (no recovery in 1944)	Triangulation
NE"J" (U.S.E.), 1938, (no recovery in 1944)	Triangulation
** NE"K" (U.S.E.), 1938, r. 1944	Triangulation
NE"M" (U.S.E.), 1938, (no recovery in 1944)	Triangulation
** NE"N" (U.S.E.), 1938, r. 1944	Triangulation
** NE"S" (U.S.E.), 1938, r. 1944	Triangulation
** NE"T" (U.S.E.), 1938, r. 1944	Triangulation
*** NE"U" (U.S.E.), 1938, r. 1944	Triangulation

Four just outside the detail limits

<u>Name of Station</u>	<u>Type of Station</u>
SOUTHWEST HARBOR CHURCH SPIRE 1868, r. 1944	Triangulation (Intersection)
* SAVAGE MOUNTAIN, 1870, r. 1944	Triangulation
BEAR ISLAND L.H. 1902, r. 1944	Triangulation (Intersection)
NE "V" (U.S.E.) 1938, r. 1944	Triangulation

26. CONTROL: (Continued)

*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 on the field photographs.

*** Station recovered but not identified on the field photographs, although the Field data indicated that the pricking of the F.I.P. was positive.

Nine of the 22 horizontal control stations were identified on the field photographs and 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 survey have been fully brought out in the radial plot for the areas of Surveys Nos. T-8573 to T-8590 inclusive, T-8594, and T-8595, submitted June 5, 1945. *Div. Photogram. General Files under "Ap'l Reports."*

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.

Except for Greening Island, which has been detailed in its entirety, only the area in the vicinity of the shore has been detailed.

One Tidal Bench Mark in the vicinity of the Coast Guard Station on Clark Point, was recovered and identified on the field photograph as Southwest Harbor, Mount Desert Island Tidal Bench Mark No. 2. The elevation shown on the field photograph agrees, however, with the half tide elevation for Southwest Harbor, Mount Desert Island Tidal Bench Mark No. 4 listed in the publication "Tidal Bench Marks, State of Maine, No. T-27, July 1927".

The distances were scaled from reference points, described in Tidal Bench Mark Publication No. T-27, to the identified Tidal Bench Mark. A comparison of these scaled distances with those shown in the publication

28. DETAILING:(Continued)

for Tidal Bench Mark No. 4 were made and found to be in fair agreement. From the result of this comparison and the fact that the half tide elevation for Tidal Bench Mark No. 4 is in agreement with that listed in the publication, it is believed that the Field Party identified Tidal Bench Mark No. 4.

29. MEAN HIGH-WATER LINE:

Detailed in accordance with the field data and shown with a continuous heavy-weight black acid ink line; outer limits of marsh bordering on the Mean High-Water Line has been shown with a continuous lightweight black acid ink line.

The only marsh areas bordering the Mean High-Water Line are in the vicinity of Marshall Brook and its tributaries. Marsh areas have been detailed in accordance with the field inspection, except the upper reaches of Buttermilk Brook which was not delineated on the field photographs. This area has been detailed in accordance with the Compilation Office interpretation of the photographs.

30. MEAN LOW-WATER LINE:

The approximate position of the Mean Low-Water Line was detailed in accordance with the field data and has been shown with a dotted black acid ink line. The Mean Low-Water Line has not been detailed on the south and west sides of Greening Island because no field data were furnished and Compilation Office interpretation on the photographs was not possible.

31A. FORESHORE AREA:

The foreshore areas shown consist of rock ledge, boulders, detached rocks, mud, and sand and gravel beaches. Detailed in accordance with the field data.

31B SHOAL LINES:

The approximate limits of shoal areas were detailed in accordance with the Compilation Office interpretation of the photographs and are for the advance information of the Hydrographic Parties only, shown with a long dashed black acid ink line accompanied by the note "shoal".

31C REEF LINES:

The approximate limits of reef areas were 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 shoals, 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:

Most of the piers and all of the cribbings, sea walls, bulkheads, marine ways, and small boat launching skidways have been shown in accordance with the field data. Several piers not identified on the field photographs, have been detailed in accordance with the Compilation Office interpretation of the photographs.

34. LANDMARKS AND AIDS TO NAVIGATION:

Chart Letter # 455 (1945)

4 charted fixed aids to navigation - located by radial plot

One charted fixed aid to navigation, McCormick Beacon, located from surrounding points. Position is weak. McCormick Beacon is maintained from July 1st to September 15th only.

No other previously charted landmarks fall within the area of the survey.

No new landmarks or fixed aids to navigation were recommended for the area of the survey.

Form No. 567 has been submitted for the five previously charted fixed aids to navigation.

35. HYDROGRAPHIC CONTROL:

* 11 Recoverable Topographic Stations - located by radial plot

81 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 11 Recoverable Topographic Stations.

* Four of these are also fixed aids to navigation.

37. BRIDGES:

One small stone highway bridge has been shown at the northern end of Gilpatrick Cove. One footbridge has also been shown at the entrance to Norwood Cove.

38. GEOGRAPHIC NAMES: 817[✓]

Taken from Nautical Charts Nos. 306 and 307 and United States Geological Survey Quadrangle Map.

A list of the names is attached to this report.

39. JUNCTIONS:

Junctions with Map Drawing Surveys Nos. T-8575, to the north; T-8585, to the east; and T-8573, to the south; have been made and are in agreement.

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

The junctions with Surveys Nos. T-8566 and T-8567 to the west are undetailed interior areas of Mount Desert Island.

40. POSITION ACCURACY OF IMPORTANT PLANIMETRIC DETAILS:

Believed to be within 0.5 mm. with the possible exception of McCormick Beacon.

41. RECOMMENDATIONS FOR FUTURE SURVEYS:

Map Drawing Survey No. T-8574 is complete with respect to all known details necessary for charting, except for those noted as incomplete under Side Heading No. 45. The incomplete details will become available upon completion of contemplated hydrographic surveys. Notes have been prepared calling attention of the hydrographer to these details.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

United States Geological Survey, Mount Desert, Maine, Quadrangle, 15' series, scale 1:62,500, edition of 1942 (common area).

The following features which appear on the quadrangle have not been shown on the Map Drawing because no data were available:

Several bench marks

A small pond on the point on north side of entrance to Norwood Cove

A small stream on east side of Somes Sound approximately one mile north of Sand Point.

The following features have been shown on the Map Drawing but do not appear on the quadrangle:

44.

COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES: (Continued)

Several piers in the vicinities of Fernald Point, Conner Point, Norwood Cove, Clark Point, Southwest Harbor, Kings Point, Northeast Harbor, and Eastern Point on Greening Island
Boat skidways on the south shore of Greening Island and on the north shore of Southwest Harbor
Marine ways near Coast Guard pier on Clark Point
Geographic name Fernald Point ✓
Two roads at Halls Quarry
One road and a trail on Conner Point
Several roads in the vicinities of Norwood Cove, Southwest Harbor, and Northeast Harbor village

The following features as shown on the Map Drawing are in disagreement with the Quadrangle:

Pier in ruins on west shore of Northeast Harbor
Mean High-Water Line at Northwest end of Fernald Cove, the easternmost point of Fernald Point, and the northeast shore of Norwood Cove
Geographic names Halls Quarry and Conner Point 2/4
The position and number of buildings
Double dash line road on Greening Island

45.

COMPARISON WITH NAUTICAL CHARTS:

Chart No. 307, scale 1:40,000, published at Washington, D. C., August 1943, corrected to April 7, 1945 (common area).

The following features shown on the Map Drawing have not been charted:

- *All buildings
- *All roads on east side of Somes Sound from northern limits of the Map Drawing southward to entrance of Northeast Harbor, and on the west side of Northwest Harbor
- *All roads in the vicinity of Halls Quarry
- *A road leading northward across Fernald Point.
- *The majority of the roads between Fernald Cove and Southeast Harbor
- *Several roads in the vicinity of the south side of Southeast Harbor
- *The road and trails on Greening Island
- ✓ *All piers north of Clark Point on the west side of Somes Sound.
- ✓ *All piers north of Manchester Point on the east side of Somes Sound.

45. COMPARISON WITH NAUTICAL CHARTS (Continued)

- 2 ponds along Lurvey Brook
- 3 ponds along Heath Brook
- 3 ponds along Buttermilk Brook

The following Geographic Names: Marshall Brook, Buttermilk Brook, Lurvey Brook, Heath Brook, Sand Point (on Greening Island), Sand Point (on east side of Somes Sound), Smallidge Point, Northeast Harbor (village), Hadlock Brook, Man of War Brook, Eastern Point and Sargent Head

- * 2 Swimming pools on Greening Island
- * A pool in a cove just east of Manchester Point
- ✓ * Piers closing off entrance to Gilpatrick Cove *Added ch 308 306*
- ✓ * Stone fill and foot-bridge closing entrance to Norwood Cove except for very small craft.
- * A small islet and a rock awash north of Manchester Point at northeast end of The Narrows in foreshore area.

The following features shown on the Map Drawing are in disagreement with the chart:

- ✓ Destroyed pier^{*} in large cove on west side of Northeast Harbor
- Size and shape of Coast Guard pier on Clark Point
- The shoreline on southeast tip of Conner Point
- ✓ Destroyed pier in cove east of Village of Manset

** The dashed lines on chart 306 represent a dredged channel [L-970(1932)]. The removed pier was added to ch 306, 12/1/45. D.A.B.*

The following charted features have not been shown on the Map Drawing because no data were available. Charting data will become available on completion of contemplated hydrographic surveys:

Middle Rock (Geographic name is shown)
Several floating aids to navigation
Note: For location see Section of Chart No. 307 attached to this report. These features have been indicated on the section of the chart by a red ink line around the areas in which they fall.

The following charted feature has not been shown on the Map Drawing because no data were available:

*Stream on east side of Somes Sound

45. COMPARISON WITH NAUTICAL CHARTS: (Continued)

Chart No. 306, scale 1:40,000, published at Washington, D.C. March 1942, corrected to April 7, 1945.

The following charted features have not been shown on the Map Drawing because no data were available. Charting data will become available on completion of contemplated hydrographic surveys.

Middle Rock (Geographic name is shown)
Floating aids to navigation

The following charted feature has not been shown on the Map Drawing because no data were available.

Pier on east side of Somes Sound
Note: For location of charted features not shown on the Map Drawing see section of Chart No. 306 attached to this report. These features have been indicated by a red ink line around the areas in which they fall.

The following features shown on the Map Drawing have not been charted:

Geographic names - Sand Point (on Greening Island),
Sand Point (on east side of Somes Sound),
Smallidge Point, Man of War Brook, Eastern Point,
Halls Quarry, and Conner Point.
✓ Several piers on west shore of Northeast Harbor

The following features shown on the Map Drawing are in disagreement with the chart:

Geographic name Flying Mountain³¹⁹ ✓
✓ Location of pier in ruins in cove on west side
of Northeast Harbor
The shoreline on southeast tip of Conner Point

All features marked with an asterisk under comparison with Chart No. 307 also apply to Chart No. 306.

The Map Drawing for Survey No. T-8574 was compiled under the supervision of Harry R. Rudolph, Photogrammetric Aid, SP-6, and was also reviewed by Harry R. Rudolph.

Respectfully submitted:
June 29, 1945

Florence M. Hammond
Photogrammetric Aid

Harry R. Rudolph
Harry R. Rudolph
Photogrammetric Aid

and

Joseph Steinberg
Joseph Steinberg
Photogrammetric Engineer

Approved and Forwarded
June 29, 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. 307

- | | |
|--|--------------------------------|
| • Clark Point ✓ <i>Clark Point Bn.</i> | ✓ • Manset |
| • Fernald Cove ✓ | • Middle Rock <i>not shown</i> |
| • Fernald Point ✓ | ✓ • Mount Desert Island |
| • Fernald Rock ✓ | ✓ • Northeast Harbor |
| • Gilpatrick Cove ✓ | ✓ • Norwood Cove |
| • Gilpatrick Ledge <i>BN.</i> | ✓ • Somes Sound |
| • Greening Island ✓ | ✓ • Southwest Harbor |
| • Greening Ledge <i>not shown</i> | ✓ • Southwest Harbor (village) |
| • Kings Point ✓ | ✓ • The Narrows |
| • Manchester Point ✓ | ✓ • Valley Cove |

Taken from Nautical Chart No. 306

- | | |
|-------------------|--------------------------------|
| ✓ • Asticou | ✓ • Northeast Harbor (village) |
| ✓ • Hadlock Brook | ✓ • Sargent Head |

Taken from United States Geological Survey
Quadrangle Map - Mount Desert, Maine

- | | |
|----------------------|---|
| ✓ • Buttermilk Brook | ✓ • Sand Point (on Greening Island) |
| ✓ • Eastern Point | ✓ • Sand Point (on east side Somes Sound) |
| ✓ • Heath Brook | ✓ • Smallidge Point |
| ✓ • Lurvey Brook | |
| ✓ • Man of War Brook | |
| ✓ • Marshall Brook | |
- ✓ • Black Ledge Bn.
• State No. 102
• " " 198 *and 3*
• Gilley Thorofare

Names preceded by • are approved. L. Heck 9/16/47

GEOGRAPHIC NAMES

GEOGRAPHIC NAMES

Disputed

Nautical Chart No. 307

- Conner Point
- Hall's Quarry
- Flying Mountain

Nautical Chart No. 306

Flying Hill

United States Geological
Survey Quadrangle Map

- Conner Point
- Hall Quarry (village)
- Flying Mountain

1944

IDENTIFICATION REPORT

HORIZONTAL CONTROL

MAP DRAWING, SURVEY No. T-8574

Project No. CS-272

Station	U.S.G.S. Quadrangle	Recovery Date	Pricking Data
(a) BROWN MOUNTAIN, 1870	Mount Desert	9-4-44	Positive
(a) FERNALD HILL, 1870	" "	8-22-44	Positive
(a) NE "A" (U.S.E.), 1938	" "	9-6-44	"
(c) NE "B" (U.S.E.), 1938	" "	9-6-44	* Not pricked
(c) NE "C" (U.S.E.), 1938	" "	Lost	
(c) NE "D" (U.S.E.), 1938	" "	9-6-44	** Not pricked
(c) NE "E" (U.S.E.), 1938	" "	9-6-44	** " "
(c) NE "F" (U.S.E.), 1938	" "	9-6-44	* " "
(c) NE "G" (U.S.E.), 1938	" "	9-6-44	* " "
(c) NE "H" (U.S.E.), 1938	" "	Not found	
(c) NE "J" (U.S.E.), 1938	" "	Not found	
(c) NE "K" (U.S.E.), 1938	" "	9-6-44	* Not pricked
(c) NE "M" (U.S.E.), 1938	" "	Not found	
(c) NE "N" (U.S.E.), 1938	" "	9-6-44	* Not pricked
(c) NE "P" (U.S.E.), 1938	" "	Lost	
(c) NE "S" (U.S.E.), 1938	" "	9-6-44	* Not pricked
(c) NE "T" (U.S.E.), 1938	" "	9-6-44	*** Not pricked
(c) NE "U" (U.S.E.), 1938	" "	9-6-44	Positive
(b) NE "V" (U.S.E.), 1938	" "	9-6-44	Positive
(a) ROBINSON MOUNTAIN 1870	" "	8-22-44	Positive
(b) SOUTHWEST HARBOR CHURCH SPIRE, 1863	" "	8-21-44	Positive
(b)(c) SOUTHWEST HARBOR SCHOOL HOUSE, 1863	" "	Lost	
(a) WEST PEAK, 1934	" "	10-25-44	Positive
(a)(b) SAVAGE MOUNTAIN 1870	" "	10-28-44	Positive
(b) BEAR ISLAND I.H. 1902	" "	9-4-44	Positive

* Sufficient control in area

** Nothing in area for F.I.P.

*** Nothing definite in area

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 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

MAP DRAWING, SURVEY NO. T-8574

COAST OF MAINE

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 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 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.

McCormick Beacon could not be identified on the office photographs and was detailed from the field photograph.

Respectfully submitted:
June 29, 1945

Harry R. Rudolph
Harry R. Rudolph
Photogrammetric Aid

Approved and forwarded
June 29, 1945

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

Division of Photogrammetry
Supplemental Review Report on
Shoreline Survey Manuscript T-8574

In order to bring all survey sheets in Project CS 272E into full agreement, an additional review was made to T-8574.

Only minor corrections were made:

Offshore rock heights were changed to conform to Photogrammetry Instructions No. 3, dated Dec. 23, 1946.

A dashed line outside the ledge and low water lines to indicate "reef" and "shoal" had been put on the map manuscript from office inspection of photographs. Comparison with existing nautical charts disclosed that this line showed no consistency with respect to soundings, therefore the line was removed from the map manuscript.

The changes made in this reexamination do not affect the charts to which this manuscript has been applied.

Supplemental review by

H. W. Thune *HWT*
H. W. Thune
Photogrammetrist, 5 Feb. 1947

Division of Photogrammetry
Review Report of
Shoreline Survey Manuscript T-8574

Subjects not used in this review report have been well covered in other parts of the descriptive report.

26. CONTROL AND FIELD INSPECTION

Field inspection of the area was very satisfactory, and control was adequate.

27. RADIAL PLOT

Approximately fifty percent of the office photographs used in the plot covering the area of this survey were available to the reviewer. However, these photographs gave complete coverage to the shoreline area which was detailed, and a check of the plot proved it to be satisfactory.

28. DETAILING

A few errors which have been common to most of the Surveys compiled in the area of this manuscript have been noted on an ozalid print of T-8574. This print is to be returned to the Field Office and future compilations will be expected to conform to the specific notations.

The most common error noted was the practice of calling foul area along the shoreline REEF. This area should be called ~~SHOAL~~ or FOUL.
SHALLOW

Two other discrepancies were noted as notes "x" and "z". These notes were printed in red ink on the ozalid and specific cases of each were shown in green ink. These notes follow:

Note "x" Shoreline is rocky and broken and, while the shoreline as detailed is accurate, it would have been more representative if made somewhat more irregular.

Note "z" Elevations of rocks close inshore and of no interest to navigation are not charted and for that reason serve no useful purpose on the sheet.

29. MEAN HIGH WATER LINE

Detailed in accordance with the field data. See note "x" above.

34. LANDMARKS & AIDS TO NAVIGATION

No new landmarks or fixed aids to navigation were recommended for the area of this survey.

43. COMPARISON WITH PREVIOUS TOPOGRAPHIC SURVEYS

T-1243 1/10000 1871 T-1244 1/10000 1871

These surveys indicated a practically continuous bluff following the shoreline throughout this entire area. This feature was ~~verified~~ verified by use of the stereoscope, and actual limits have been detailed on the compilation in red acetate ink.

44. COMPARISON WITH QUADRANGLES:

U.S.G.S. 15' series Mount Desert Me. 1/62500 1942

See paragraph 44 in descriptive report for detailed comparison.

Survey T-8574 supersedes this quadrangle in all common detail for charting purposes.

45. COMPARISON WITH NAUTICAL CHARTS:

306	1/40000	March 1942	308	1/40000	Dec. 1942
307	"	Aug. 1943	1202	1/80000	May 1932

See paragraph 45 in descriptive report for detailed comparison.

This survey has not been applied to charts. However, on Aug 10 1945 several discrepancies noted between the charts and T-8574 were reported to the Nautical Charts Unit. Specific items mentioned to Nautical Charts during review are preceded by a red check mark. See #45 of the Compilation Report.

*Security Classification: This area within this survey is unclassified.
Supplemental Review: See report preceding this Review Report.*

Reviewed by

Under the direction of

H. R. Brooks.
H. R. Brooks, 13 Aug. 1945.

R. M. Berry
Chief, Review Section

APPROVED BY:

B. G. Jones per svr. 6/29/49
Technical Assistant to the
Chief, Div. of Photogrammetry

H. C. Edmonston
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COAST OF MAINE
PROJECT No. CS-272

DESCRIPTIONS OF THE RECOVERABLE TOPOGRAPHIC STATIONS
AND TEMPORARY HYDROGRAPHIC STATIONS FOR THE
AREA OF MAP DRAWING, SURVEY No. T-8574

NUMBER OF RECOVERABLE TOPOGRAPHIC STATIONS..... 11
NUMBER OF TEMPORARY HYDROGRAPHIC STATIONS..... 81
TOTAL NUMBER OF STATIONS..... 92

Listed By: Florence M. Hammond
Florence M. Hammond,
Photogrammetric Aid

Checked By: Harry R. Rudolph
Harry R. Rudolph,
Photogrammetric Aid

NOTES
FOR
HYDROGRAPHIC PARTIES

MAP DRAWING, SURVEY No. T-8574
COAST OF MAINE
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 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-982-1, submitted to the Washington Office.

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

Chart No. 306

Middle rock at south end of The Narrows.

All floating aids to navigation within the area of the survey.

Pier on east side of Somes Sound.

Respectfully Submitted,
June 25, 1945

Harry R. Rudolph
Harry R. Rudolph,
Photogrammetric Aid

Approved and Forwarded:
June 29, 1945

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

- 1431 . Chimney, north gable of red boat house.
- 1431½ . North corner offshore end of pier. ✓
- 1432 . Socony gas sign, center of gable, center of pier. ✓
- 1433 . White gasoline tank on the northeast corner of shore fill. ✓
- 1434 . Center of offshore stone foundation of pier. ✓
- 1435 . Brick chimney near center of shingled house. ✓
- 1436 . Center of offshore stone foundation of pier. ✓
- 1437 . North gable of shingled house. ✓
- 1438 . Stern of cabin boat on beach (abandoned).
- 1439 . "BLACK LEDGE BEACON" - Station is a red triangular day mark on an iron spindle in middle of Southwest Harbor. It is about 700 yards 254° from Coast Guard Depot wharf, on Clark Point. Fixed Aid to Navigation and Recoverable Topographic Station. ✓
- 1440 . Red brick chimney on top of Sardine factory. ✓
- 1441 . Brick chimney in center of abandoned house. ✓
- 1442 . South gable of boathouse.
- 1443 . South gable of brown boathouse.
- 1444 . Cupola on barn. ✓
- 1445 . South gable of little white house on end of pier. ✓
- 1446 . Red brick chimney on top of Coast Guard Station. ✓
- 1447 . "CLARK POINT BEACON" - Station is black cask on end of iron spindle located just off Clark Point. Fixed Aid to Navigation and Recoverable Topographic Station. ✓
- 1448 . Red brick chimney on small, white house on inshore end of pier. ✓
- 1449 . White flagpole on the northeast corner of abutment. ✓
- 1450 . Peak of pavilion on the end of dock.
- 1451 . Center of off end of stone foundation of pier. ✓
- 1452 . Center of wooden foot bridge. ✓

- 1453 . "BRICK CHIMNEY, WHITE HOUSE" - Station is a brick chimney on the south end of a white house. House is located approximately 40 meters northwest of the Mean High-Water Line of Somes Sound and approximately 120 meters north of Norwood Cove. Recoverable Topographic Station. ✓ 524
- 1454 . Center of archway on end of pier. (offshore end).
- 1455 . Top of stone steps. ✓
- 1456 . White brick chimney on the northeast end of white house. ✓
- 1457 . Offshore end of small pier. ✓
- 1458 . South gable of house. ✓
- 1459 . 25' evergreen. ✓
- 1460 . 35' evergreen. ✓
- 1461 . Offshore end of wooden pier. ✓
- 1462 . 20' evergreen. ✓
- 1463 . 30' evergreen. ✓
- 1464 . Evergreen. ✓
- 1465 . East gable of green boathouse. ✓
- 1466 . "SOUTHEAST GABLE, BROWN HOUSE" - Station is the southeast gable of a 2½ story brown, wooden building, with stone chimney on south side. It is approximately 60 meters southwest of the Mean High-Water Line. House is located on the western shore of Somes Sound approximately 510 meters north of Fernald Cove. Recoverable Topographic Station. ✓ 524
- 1467 . 7' evergreen. ✓
- 1468 . "RED BRICK CHIMNEY, SHINGLED HOUSE" - Station is a square, two-story green house, bottom half is lap board, top half shingled, and has shingled roof. House is located on the western shore of Somes Sound in the immediate vicinity of Hall Quarry. Recoverable Topographic Station. ✓ 524
- 1469 . East gable of brown house. ✓
- 1474 . South gable of large white house. (Manchester Pt)
- 1527 . 20' evergreen. ✓
- 1528 . Southerly of two 20' evergreens. ✓

- 1529 . 40' evergreen. ✓
- 1530 . Southerly of three evergreens. ✓
- 1531 . Evergreen. ✓
- 1532 . Large evergreen. ✓
- 1533 . 30' evergreen. ✓
- 1534 . "SOUTHWEST GABLE, HOUSE" - Station is the southwest gable of a 1½ story white house with two large brick chimneys, green shutters, and shingled roof. House is located on the eastern shore of Somea Sound approximately 2 miles north of Northeast Harbor Village. Recoverable Topographic Station. ✓ 524
- 1535 . Northwest gable of boathouse. ✓
- 1536 . Short pole, southwest corner offshore end of pier. ✓
- 1537 . North gable log cabin on shore. ✓
- 1538 . Northwest corner offshore end of pier. ✓
- 1539 . Evergreen. ✓
- 1540 . Tall evergreen. ✓
- 1541 . Southermost of line of evergreen. ✓
- 1542 . South southwest gable of westerly of two bath houses. ✓
- 1543 . "SOUTHWEST GABLE, BUILDING ON PIER" - Station is the southwest gable of a large building on a pier at the village of Northeast Harbor. Recoverable Topographic Station. ✓ 514
- 1544 . Southwest gable, white house. ✓
- 1545 . Southeast gable house. ✓
- 1546 . Evergreen. ✓
- 1547 . Center of roof-peak, house on pier. (Destroyed)
- 1583 . West corner offshore end of pier. ✓
- 1584 . Center offshore end of pier. ✓
- 1585 . Northwest gable, large building. ✓
- 1586 . Southeast corner offshore end of pier. ✓
- 1587 . 30' evergreen. ✓

- 1588 · Center offshore end of pier. ✓
- 1589 · Roof-peak house on damaged pier. ✓
- 1590 · Northeast corner offshore end of pier. ✓
- 1591 · East gable shed on end of pier. ✓
- 1592 · Northeast corner offshore end of pier. ✓
- 1593 · Flagpole north corner offshore end of pier. ✓
- 1594 · Northwest corner offshore end of pier. ✓
- 1595 · Northwest corner offshore end of pier. ✓
- 1596 · Northwest corner offshore end of pier. ✓
- 1597 · Chimney at west gable of house. ✓
- 1678 · 12' evergreen. ✓
- 1679 · Northwest corner offshore end of pier. ✓
- 1680 · "WESTERLY CHIMNEY, ONE-STORY BUILDING" - Station is the westerly of two stone chimneys on a large one-story building with shingled sides and roof. Building has three large stone chimneys and one brick chimney. House is located near Eastern Point on Greening Island, approximately 40 meters south of the Mean High-Water Line. Recoverable Topographic Station. ✓ - 524
- 1681 · Center of offshore end of destroyed pier. ✓
- 1682 · Northwest corner offshore end of pier. ✓
- 1683 · Lone tall evergreen. ✓
- 1684 · Northwest gable of boathouse. ✓
- 1685 · Lone bushy evergreen. ✓
- 1686 · Lone tall evergreen. ✓
- 1687 · South gable of easterly of two boathouses. ✓
- 1688 · South corner of offshore end of pier. ✓
- 2335 · West gable of very large house built on a high stone foundation. House has sides of weather boarding and shingled roof. Estate and house owned by Mr. Andrews of Philadelphia, Pennsylvania.

North of 1538

"GILPATRICK COVE BEACON" - Station is a red nail keg at the top of a short iron spindle painted red. It is approximately 190 meters south of the Mean High-Water Line. Fixed Aid to Navigation and Recoverable Topographic Station. - 524

"GILPATRICK LEDGE BEACON" - Station is a red spherical cage on a tall red iron spindle. This station marks the east entrance to Some Sound and is about 225 meters south of the Mean High-Water Line. Fixed Aid to Navigation and Recoverable Topographic Station. - 524

"TIDAL BENCH MARK No. 4, 1905" - Station is a cross cut in flat top surface of ledge of rock about 24 feet east of shore end of northeast side of Coast Guard wharf, about 70 feet from southwest corner of porch of Coast Guard Headquarters building and 110 feet from southeast corner of same building. 12.88' above half tide level. Recoverable Topographic Station. - 524

O-Charted
feature not
shown on
Map Drawing

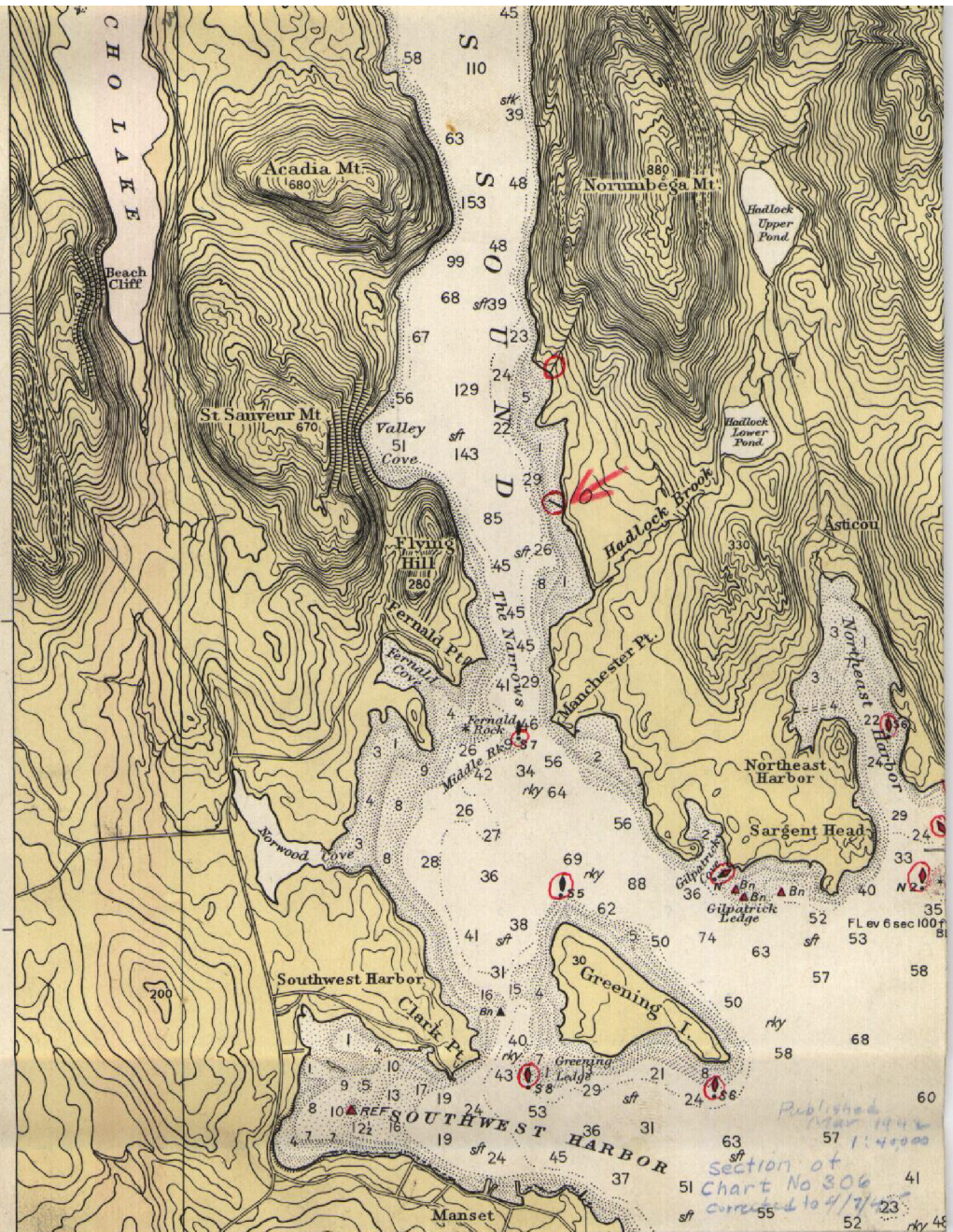
Section cut
from Chart
No. 507, Scale
1:40,000.
Published at
Washington
D. C. Aug. 1949
Corrected to
April 7, 1945.



O-charted
feature not
shown on
Map Drawing

Section cut
from Chart
No. 306, Scale
1:40,000.
Published at
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Corrected to
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(JOINS CHART 307)



Published
Mar 1942
section of
Chart No 306
corrected to 4/7/45

