

# 8554

D.C.No. 1202

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Planimetric Air Photo.

Field No. 272-E Office No. T-8554

### LOCALITY

State Maine

General locality Coast of Maine

Locality Jericho Bay-Isle au Haut  
Marshall & McGlathery Islands

194-'45

CHIEF OF PARTY

F.L. Peacock

LIBRARY & ARCHIVES

DATE

June 2 - 1949

B-1870-1 (1)

# 8554

## DATA RECORD

T-8554

Quadrangle (II):

Project No. (II): 272-E

Field Office:

Chief of Party:

Aie Photographic Party No. 2

*Dale E. Sturmer*  
~~Fred. L. Peacock~~

Compilation Office:

Chief of Party:

Baltimore Photogrammetric Office

Fred. L. Peacock

Instructions dated (II III):

Copy filed in *Division of*

April 1, 1942 (Additional)

~~Report No. T- (VI)~~

July 10, 1943 (Horizontal control Requirements)

*Photogrammetry Office Files*

March 18, April 11 &amp; July 17, 1944 (Supplemental)

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

Completed survey received in office: *31 July, 1944*

Reported to Nautical Chart Section:

Reviewed: *31 Oct, 1947*Applied to chart No. *308*  
*309*Date: *10/25/46*  
*11/5/46*

Redrafting Completed: \_\_\_\_\_

Registered: *6 July, 1948**Printed*  
Published: *25 May, 1944 (vault copy)*

Compilation Scale: 1:10,000

~~Published Scale: 1:10000~~

Scale Factor (III): 1.000

Geographic Datum (III): N. A. 1927

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

Reference Station (III): WHITE LEDGE, 1907, r. 1945

Lat.  $44^{\circ} 05' 03.610''$  111.4 m Long.:  $68^{\circ} 33' 45.245''$  1006.6 m~~Adjusted~~~~Unadjusted~~Corrected to 1927  
dataState Plane Coordinates (VI): *Maine (East Zone)*

X =

. Y =

Military Grid Zone (VI).

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
44-C-1450 to ✓				
44-C-1453 incl. ✓	5/29/44	11:30	1:10,000	1.6' above MLW
44-C-1456 to ✓				
44-C-1458 incl. ✓	5/29/44	11:45	1:10,000	1.9' above MLW
44-C-1525 to				
44-C-1529 incl.	5/29/44	12:45	1:10,000	3.6' above MLW
44-C-1772	6/5/44	11:45	1:10,000	6.5' above MLW
44-C-1783 to ✓				
44-C-1785 incl. ✓	6/5/44	14:30	1:10,000	1.3' above MLW
44-C-2100,				
2101, 2103	6/23/44	11:15	1:10,000	7.8' above MLW
44-C-1788	6/5/44	15:00	1:10,000	0.8' above MLW

Tide from (III): Predicted Tide Tables, Atlantic Ocean, 1944. Reference Station: Portland, Maine, with corrections to Kimball Island.

Mean Range: 9.6'

Spring Range: 10.9'

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

Field Inspection by: Lieut. Dale E. Sturmer

date: July, August & September, 1945

Field Edit by: \_\_\_\_\_

date: \_\_\_\_\_

Date of Mean High-Water Line Location (III): As of the photographs taken on May 29, June 5, and June 23, 1944, supplemented by the field data obtained during July, August and September, 1945.

Projection and Grids ruled by (III) S. R.

date: 11/28/44

" " " checked by: S. R.

date: 11/28/44

Control plotted by: Florence M. Senasack

date: 4/15/46

Control checked by: E. L. Bauman

date: 4/16/46

Radial Plot by: Frank J. Tarcza

date: April, 1946

Detailed by: Florence M. Senasack

date: 4/29 to 5/10/46  
6/17 to 7/12/46

Reviewed in compilation office by: Harry R. Rudolph

date: 5/13 to 5/14/46  
5/19 to 5/23/46

Elevations on Field Edit Sheet checked by:

date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 2.75

Shoreline (More than 200 meters to opposite shore): 23

Shoreline (Less than 200 meters to opposite shore): .5

Number of Recoverable Topographic Stations established:

6 Theodolite Stations

11 Recoverable Photo (Topographic) Stations

Number of Temporary Hydrographic Stations located by radial  
plot: 35

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:

FIELD REPORT

MAP MANUSCRIPT, SURVEY NO. T-8554

COAST OF MAINE

PROJECT NO. CS-272

1. DESCRIPTION OF THE AREA:

According to Instructions dated August 10, 1944, Map Manuscript, Survey No. T-8554 is a shoreline survey.

Survey No. T-8554 covers an area situated at the mouth of Jericho Bay and includes a portion of Merchant Row.

The main land features cover the northeastern portion of Isle Au Haut, Marshall Island, Burnt Island, Fog Island and McGlathery Island.

Immediately adjacent to the Mean High-Water Line the terrain is, in general, rocky. The foreshore area is commonly ledge rock with some stretches of sand, gravel, and boulders. There are numerous offlying rocks and ledges in this area.

The interior is hilly and mostly tree covered. The interior of Marshall Island is mostly ledge outcrop covered with short brush and trees.

2. COMPLETENESS OF FIELD INSPECTION:

The identification of the horizontal control, Mean High-Water Line, foreshore, and offshore features are complete except for offlying shoal and sunken reef areas not discernible on the photographs. The identification of the Mean Low-Water Line is not complete in several areas. (See Heading No. 8, Mean Low-Water Line.)

3. INTERPRETATION OF 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:

One existing Horizontal Control Station was recovered and five new theodolite stations were established in 1944. Four existing Horizontal Control Stations were recovered, one station was searched for but was not found, two new triangulation stations and one theodolite were established in 1945.

4. HORIZONTAL CONTROL: Cont.

Form No. 526, Recovery Note, has been submitted for each of the five previously established stations.

Form No. 525, Description of Triangulation Station, has been submitted for each of the new control stations.

Form No. 524, Description of Recoverable Topographic Station, has been submitted for each of the new Theodolite Stations.

5. VERTICAL CONTROL:

No bench marks were recovered within the area of the survey.

6. DRAINAGE:

Drainage has not 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, and has been identified on the field photographs.

Along shore and offshore rocks and islets above the plane of Mean High-Water revealed by photography have been identified on the field photographs with the elevation above the plane of Mean High-Water noted. The extent to which some offshore ledge areas and rocks uncovered at the time of field inspection was also noted.

8. MEAN LOW-WATER LINE:

The Mean Low-Water Line was inspected at or near Mean Low-Water whenever practicable.

The identification of the Mean Low-Water Line within the area of the survey is incomplete. Some portions of the Mean Low-Water Line are identified in their true positions, some small portions are identified in their approximate positions, and still other portions are not identified.

The Mean Low-Water Line identified in its true position has been indicated on the Field Photographs with a dot and dash green ink line. The Mean Low-Water Line identified only approximately has been shown with a dotted green ink line.

9. WHARVES AND SHORELINE STRUCTURES:

All cribbing and other shoreline structures 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:

All offshore rocks, rock ledge areas, and islets revealed by photography within the area of this survey have been identified on the field photographs.

The character of the foreshore area has been indicated on the field photographs.

The extent to which several prominent rocks and rock ledge areas uncover at Mean Low-Water, bare at Mean High-Water or uncover at the time of field inspection with time and date, has been noted on the field photographs.

11. LANDMARKS AND NON-FLOATING AIDS TO NAVIGATION:

No charted landmarks fall within the area of the survey. One charted non-floating aid to navigation "COLBY LEDGE BEACON" was recovered and identified on the field photograph.

12. HYDROGRAPHIC CONTROL:

11 Recoverable Photo (Topographic) Stations  
35 Temporary Photo (Hydrographic) Stations  
Forms 524 have been furnished for each of the Recoverable Photo (Topographic) Stations. Descriptions have been furnished for all of the above stations.

14. ROAD CLASSIFICATION:

No roads were classified within the area of this survey.

18. GEOGRAPHIC NAMES: *BY*

No investigation.

COMPILATION REPORT

MAP MANUSCRIPT, SURVEY NO. T-8554

COAST OF MAINE

PROJECT NO. CS-272

26. CONTROL:

Nineteen Horizontal Ground Control Stations have been shown on the Map Manuscript. They are as follows:

13 stations within the detail limits

<u>Name of Station</u>	<u>Type of Station</u>	
*BACK, 1945	Theodolite	<i>fm 5-24 (No. 2071)</i>
*BLACK, 1944	Theodolite	" "
*BUSH, 1944	Theodolite	" "
COLBY LEDGE BEACON, 1934	Triangulation	" <i>5-26</i>
DOUGLAS, 1945	Triangulation	" "
ISLE AU HAUT, 1854	Triangulation	" "
*IT, 1944	Theodolite	" <i>5-24</i>
*MARSHALL ISLAND, 1907	Triangulation	" <i>5-26</i>
*MASON, 1944	Theodolite	" <i>5-24</i>
POPPLE, 1945	Triangulation	" <i>5-26</i>
*SADDLE, 1944	Theodolite	" <i>5-24</i>
*WHITE LEDGE, 1907	Triangulation	" <i>5-26</i>
*YORK ISLAND, 1868	Triangulation	" "
<i>Mark Island, 1907, no r. 1945 (desc. inadequate), and not on map manuscript.</i>		
6 stations just outside the detail limits		
*BILLS, 1945	Triangulation	
*BUSTER, 1945	Triangulation	
HALIBUT ROCKS LIGHT, 1944	Theodolite	
ISLE AU HAUT CHURCH SPIRE, 1868	Triangulation	
*SPRUCE ISLAND, 1868	Triangulation	
*TURNIP, 1945	Triangulation	



26. CONTROL: (Cont.)

\*Identified by a well-defined Substitute Station. The positions of these stations have been shown on the Map Manuscript with very small black acid ink circles, accompanied by the note "Sub. Station".

All of the horizontal stations were used to control the radial plot.

27. RADIAL PLOT:

The compilation of Map Manuscript, Survey No. T-8554 is in accordance with the written instructions pertaining to Project CS-272-E.

The radial plot for the area of Map Manuscript, Survey No. T-8554 is part of a combined plot made with slotted steel templates. Satisfactory results were obtained. For a complete discussion of the Radial Plot, see Radial Plot Report for the Southwestern Portion of Project CS-272-E which includes Surveys Nos. T-8551 to T-8555 inclusive, submitted to the Washington Office July 19, 1946.

28. DETAILING:

The horizontal (control) stations and horizontal pass points available for the compilation of this survey were adequate. The field data and the photographic coverage were not adequate.

The field data relative to the location of the Mean Low-Water Line was incomplete along some portions of Isle Au Haut and Burnt Island.

The photographic coverage in the areas of McGlathery Island, Burnt Island, Black Ledge, White Ledge, Drunkard Ledge, and a portion of Isle Au Haut was inadequate due to insufficient side overlap resulting in many of the detail points being determined by the intersection of only two radials, some of which were very slim angle intersections. However, it is believed that these points are all within the required limits of accuracy.

Only the area in the vicinity of the shoreline was delineated, with the exception of McGlathery, Burnt, and Fog Islands, the detail of which has been shown in its entirety.

30. MEAN HIGH-WATER LINE:

Delineated in accordance with the field data and shown with a continuous heavy-weight black acid ink line. There were no marsh areas bordering the Mean High-Water Line.

31. MEAN LOW-WATER LINE:

Delineated in accordance with the field data. The definite position of the Mean Low-Water Line has been shown with a light-weight dash and dot black acid ink line and the indefinite position has been shown with a dotted black acid ink line. Portions of the Mean Low-Water Line were not identified by the Field Unit. No attempt has been made by the Compilation Office to complete the delineation.

31-A. SHOAL LINES:

Delineated in accordance with the Compilation Office interpretation of the photographs and shown with a long dashed ~~black~~ acid ink line accompanied by the note "Shoal".

31-B. REEF LINES:

Delineated in accordance with the Compilation Office interpretation of the photographs and shown with a short dashed black acid ink line accompanied by the note "Reef". *None on sheet*

31-C. FORESHORE AREAS:

The foreshore areas shown consist of rock ledge, boulders, detached rocks, gravel, and sand. Delineated in accordance with the field data and careful interpretation of the photographs by the Compilation Office. The extent to which some rocks or boulders bare at Mean High-Water or uncover at Mean Low-Water has been shown on the Map Manuscript with notes which are in accordance with the field data.

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

The offshore features include rock ledge areas, rocks and several small rock islets. Such features have been delineated in accordance with the field data.

The extents to which the offshore features bare at Mean High-Water or uncover or cover at Mean Low-Water have been shown on the Map Manuscript with notes in accordance with the field data.

33. WHARVES AND SHORELINE STRUCTURES:

The only shoreline structures within the area of this survey are several cribbing which have been delineated on the Map Manuscript in accordance with the field data.

34. LANDMARKS AND FIXED AIDS TO NAVIGATION:

One previously charted Non-Floating Aid to Navigation, "COLBY LEDGE BEACON", located by triangulation in 1934, falls within the area of the Map Manuscript. No new landmarks or Non-Floating Aids to Navigation were recommended.

Form No. 567 has not been submitted.

35. HYDROGRAPHIC CONTROL:

- 6 Theodolite Stations (*See p. 7 this report*)
- 11 Recoverable Photo (Topographic) Stations
- 35 Temporary Photo (Topographic) Stations

*Nos in attached list.*

709	2069
718	2076
722	2082
730	2088
2002	2088
2068	2088

A Descriptive List of all the stations is attached to this report. Two additional copies have been furnished for use of the Hydrographic Parties. Form No. 524 has been submitted for each of the Theodolite and Recoverable Photo (Topographic) Stations.

37. GEOGRAPHIC NAMES:

*214 ✓*

*Filed in Div. of Photogrammetry  
General Files.*

Taken from Nautical Chart No. 308.

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

*Approved by Geog. Name Section*

38. JUNCTIONS:

Junctions with Map Manuscript, Survey No. T-8555 to the north and Map Manuscript, Survey No. T-8553 to the south have been made and are in agreement.

The junctions with Map Manuscripts, Survey Nos. T-8570 to the north and T-8571 to the east pass through an all water area.

The junctions with Map Manuscripts, Survey Nos. T-8551 and T-8051 to the west will be made when those surveys have been compiled.

*Done*

*Done*

39. POSITION ACCURACY OF IMPORTANT PLANIMETRIC DETAILS:

Believed to be within 0.5 mm.

40. RECOMMENDATIONS FOR FUTURE SURVEYS:

Map Manuscript, Survey No. T-8554, 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 the next Hydrographic Survey. These features have been noted in "Notes to Hydrographic Parties" attached to this report, and indicated on a section of Nautical Chart No. 308, also attached to this report.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

United States Geological Survey, Deer Isle, Maine, Quadrangle, 15' series, scale 1:62,500, edition of April 1904, reprinted 1940.

Details common to the Map Manuscript and to the quadrangle are, in general, in good agreement.

Minor differences in land features are mentioned in the accompanying "Notes for Reviewer" and offshore features for which data were lacking, have been mentioned in the "Notes to the Hydrographic Party", attached to this Descriptive Report.

45. COMPARISON WITH NAUTICAL CHARTS:

Chart No. 308, published at Washington, D. C., December 1942, scale 1:40,000, corrected to April 20, 1946, North American 1927 datum.

Details common to the Map Manuscript and to the Chart are, in general, in good agreement.

Minor differences in land features are mentioned in the accompanying "Notes for Reviewer". Offshore features for which data were lacking, have been mentioned in the "Notes to the Hydrographic Party", attached to this Descriptive Report.

Respectfully Submitted:  
July 22, 1946

Florence M. Senasack  
Florence M. Senasack  
Photogrammetric Aid

Map Manuscript and Descriptive  
Report Reviewed By:

Harry R. Rudolph  
Harry R. Rudolph  
Photogrammetric Engineer

Compilation of Map Manuscript  
Supervised By:

Harry R. Rudolph  
Harry R. Rudolph  
Photogrammetric Engineer

Approved and Forwarded:  
July 31, 1946

William F. Deane  
William F. Deane  
Officer-in-Charge  
Baltimore Photogrammetric Office

GEOGRAPHIC NAMES

(Undisputed)

- |                                 |                             |
|---------------------------------|-----------------------------|
| • Airy Ledge (not shown)        | • Marshall Ledge            |
| • Birch Point                   | • Mason Ledge               |
| • Black Ledge                   | • McGlathery Island         |
| • Blue Hill Rock (not on sheet) | • Merchant Row              |
| • Boxam Cove                    | • Mouse Island              |
| • Boxam Ledge                   | • North Popplestone Ledge   |
| • Burnt Island                  | • Pell Island               |
| • Burnt Island Harbor           | • Pond Point                |
| • Burnt Ledge                   | • Popplestone Cove          |
| • Channel Rock                  | • Rabbits Ear               |
| • Cod Ledge                     | • Richs Cove                |
| • Colby Ledge                   | • Richs Ledge               |
| • Colby Pup (not on sheet)      | • Richs Point               |
| • Devils Head                   | • Ringtown Island           |
| • Doliver Island                | • Round Island              |
| • Douglas Cove                  | • Saddleback                |
| • Drunkard Ledge                | • Sand Cove                 |
| • Eastern Fog Island Ledges     | • South Popplestone Ledge   |
| • Fog Island                    | • Southern Mark Island      |
| • Gooseberry Island             | • Spirit Ledge              |
| • Green Ledge                   | • Sprague Ledge (not shown) |
| • Isle <sup>au</sup> Haut       | • Three Bush Island         |
| • Jericho Bay                   | • Torrey Ledge (not shown)  |
| • Jobs Ledge (not shown)        | • Western Fog Island Ledges |
| • Little McGlathery Island      | • Wheat Island              |
| • Long Point                    | • White Ledge               |
| • Lookout                       | • Yellow Ledge              |
| • Lower Head                    | • York Island               |
| • Marshall Island               | • York Ledges               |

Names preceded by • are approved.  
1/9/48. L. Heck

1944-1945  
 IDENTIFICATION REPORT  
 HORIZONTAL CONTROL  
 MAP MANUSCRIPT, SURVEY NO. T-8554

Project No. CS-272

<u>Station</u>	<u>U.S.G.S. Quadrangle</u>	<u>Recovery Date</u>	<u>Pricking Data</u>
*BLACK, 1944	Swan Island	8/29/44	Positive
*BUSH, 1944	Deer Isle	9/9/44	Positive
*IT, 1944	Deer Isle	9/7/44	Positive
*MARSHALL ISLAND, 1907	Deer Isle	9/4/44	Positive
*MASON, 1944	Swan Island	9/4/44	Positive
*SADDLE, 1944	Deer Isle	9/6/44	Positive
*BACK, 1945	Deer Isle	8/23/45	Positive
DOUGLAS, 1945	Deer Isle	8/1/45	Positive
ISLE AU HAUT, 1854	Deer Isle	8/2/45	Positive
MARK ISLAND, 1907	Deer Isle	Not Found	
POPPLE, 1945	Deer Isle	9/24/45	Positive
*WHITE LEDGE, 1907	Deer Isle	8/10/45	Positive
*YORK ISLAND, 1868	Deer Isle	8/6/45	Positive
COLBY LEDGE BEACON, 1934	Deer Isle	8/10/45	Positive

\* Station identified by a Substitute Station. The positions of the Substitute Stations have been shown on the Map Manuscript with very small black acid ink circles accompanied with the note "Sub. Station".

NOTES

FOR

REVIEWER

COAST OF MAINE  
MAP MANUSCRIPT, SURVEY NO. T-8554  
Project No. CS-272

All details have been shown with the usual symbols.

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

The 2½ millimeter black acid ink circles are the positions of the selected hydrographic control. Such circles, accompanied with a name and date (1944 or 1945) are the positions of Theodolite Stations and the Recoverable Photo (Topographic) Stations. All other such circles, accompanied with a number only, are the positions of the Temporary Photo (Topographic) Stations. A list of all of the hydrographic control stations is attached to this report.

The very small black acid ink circles accompanied by the note "Sub. Station" are the positions of the Substitute Stations.

The photographs contain no appreciable tilt or differential distortion.

The scales of the photographs and the Map Manuscript are in good agreement.

The approximate limits of shoal areas have been delineated according to office interpretation of the photographs and are shown with a long dashed black acid ink line accompanied with the note "Shoal".

The approximate limits of reef areas have been delineated according to office interpretation of the photographs and are shown with a short dashed black acid ink line accompanied by the note "Reef".

A feature located at Lookout just south of Birch Point, for which field data were lacking, has been interpreted by the Compilation Office as a probable standpipe. This feature has been shown on the Map Manuscript with a small black acid ink circle accompanied by the note "Probable standpipe".

Few discrepancies between the Map Manuscript and the U. S. Geological Survey, Deer Isle, Maine and Swan Island, Maine, Quadrangles were found.



The following features shown on the Map Manuscript do not appear on the Quadrangles:

A number of small islands, ledges, bare rocks and boulders and a great deal of rock ledge, boulders, and gravel along the entire shoreline of the survey.

Several buildings.

Several cribbing.

Three entrance roads on Isle Au Haut.

Fish trap between McGlathery Island and Round Island.

Geographic names Airy Ledge, Blue Hill Rock, Boxam Ledge, Burnt Ledge, Channel Rock, Cod Ledge, Colby Ledge, Colby Pup, Drunkard Ledge, Eastern Fog Island Ledges, Jobs Ledge, Long Point, Marshall Ledge, Mouse Island, Pond Point, Popplestone Cove, Rabbits Ear, Richs Cove, Richs Ledge, Sprague Ledge, Torrey Ledge, Western Fog Island Ledges, Wheat Island, Yellow Ledge, and York Ledges.

Shown on the Map Manuscript but not charted:

Rock ledge around McGlathery Island, Gooseberry Island, Isle Au Haut, and Southern Burnt Island.

All buildings.

All cribbing.

Three entrance roads on Isle Au Haut.

Fish trap between McGlathery Island and Round Island.

The following charted features were not definitely revealed by photography:

Stream west of Douglas Cove.

Several stretches of bluff.

Colby Pup, Airy Ledge, Torrey Ledge, Blue Hill Rock, Jobs Ledge, and Sprague Ledge.

All floating Aids to Navigation within the area of the Survey.

Two rocks awash east of McGlathery Island.

Two sunken rocks offshore from Richs Cove.

One rock awash southwest of Richs Ledge.

Features in disagreement with the Nautical Chart:

Shoreline at Fog Island has been changed considerably.

Shoreline at Gooseberry Island has been changed considerably.

The following charted rocks awash have been shown on the Map Manuscript as ledge or reef areas:

One rock at Channel Rock.

Four rocks at Burnt Ledge.

Two rocks just south of Richs Cove.

One rock just west of Richs Ledge.

Five rocks awash northwest of York Ledges.

One rock east of York Island.

Numerous rocks in the waterway between York Island and Isle Au Haut, some of which are shown on the Map Manuscript as small islets.

One rock west of Fog Island.

One rock south of Fog Island.

Three rocks on Drunkard Ledge.

Three rocks west of North Popplestone Ledge.

Nine rocks north of White Ledge.

Six rocks at Boxam Ledge.

Two rocks at Yellow Ledge.

Four rocks north of Saddleback.

One rock southwest of Burnt Island.

One rock in Burnt Island Harbor.

One rock at Eastern Fog Island Ledges.

One rock at Marshall Ledge.

Respectfully Submitted:  
July 22, 1946

Florence M. Senasack  
Florence M. Senasack  
Photogrammetric Aid

Approved and Forwarded:  
July 31, 1946

William F. Deane  
William F. Deane  
Officer-in-Charge  
Baltimore Photogrammetric Office.

NOTES  
FOR  
HYDROGRAPHIC PARTIES  
COAST OF MAINE  
MAP MANUSCRIPT, SURVEY NO. T-8554  
PROJECT NO. CS 272

The  $2\frac{1}{2}$  millimeter black acid ink circles are the positions of the selected Photo (Topographic) Stations and Theodolite Stations. Such circles accompanied by a name and date (1944 or 1945) are the positions of Theodolite Stations. Circles accompanied by a name, date (1945), a small "d" for "described", and a number are the positions of the Recoverable Photo (Topographic) Stations. All other such circles, accompanied by a number only, are the positions of the Temporary Photo (Topographic) Stations. Two copies of the list of descriptions of all of the Theodolite Stations and Photo (Topographic) Stations have been furnished for your use.

The very small black acid ink circles accompanied by the note "Sub. Station" are the positions of substitute stations. A brief description of the substitute stations may be found on the printing cards, Form No. M-982-1, submitted to the Washington Office.

The alternate dot and dash ink line is the definite position of the Mean Low-Water Line. The dotted line is the approximate position of the Mean Low-Water Line.

The outline of shoal and reef areas shown are approximate and are for your advance information only. They are shown with long dashed and short dashed black acid ink lines respectively, accompanied by the note "Shoal" or "Reef".

The following charted features were not definitely revealed by photography and should be investigated during the next hydrographic survey:

Colby Fup, Airy Ledge, Torrey Ledge, Blue Hill Rock, Jobs Ledge, and Sprague Ledge,

All floating Aids to Navigation within the area of the Survey.

Two rocks awash east of McGlathery Island.

Two sunken rocks offshore from Richs Cove.

One rock awash southwest of Richs Ledge.

Features in disagreement with the Nautical Chart:

Shoreline at Fog Island has been changed considerably.

Shoreline at Gooseberry Island has been changed considerably.

The following charted rocks awash have been shown on the Map Manuscript as ledge or reef areas:

One rock at Channel Rock.  
Four rocks at Burnt Ledge.  
Two rocks just south of Richs Cove.  
One rock just west of Richs Ledge.  
Five rocks awash northwest of York Ledges.  
One rock east of York Island.  
Numerous rocks in the waterway between York Island and Isle Au Haut, some of which are shown on the Map Manuscript as small islets.  
One rock west of Fog Island.  
One rock south of Fog Island.  
Three rocks on Drunkard Ledge.  
Three rocks west of North Popplestone Ledge.  
Nine rocks north of White Ledge.  
Six rocks at Boxam Ledge.  
Two rocks at Yellow Ledge.  
Four rocks north of Saddleback.  
One rock southwest of Burnt Island.  
One rock in Burnt Island Harbor.  
One rock at Eastern Fog Island Ledge.  
One rock at Marshall Ledge.

Note: A section of Nautical Chart No. 308 has been attached to this report. The location of the charted features, not definitely revealed by photography, have been indicated thereon with a red ink line around the area in which they fall. The location of those features in disagreement have been indicated by a green ink line around the area in which they fall.

Respectfully submitted:  
May 13, 1946

*Florence M. Senasack*  
Florence M. Senasack  
Photogrammetric Aid

Approved and Forwarded:  
July 31, 1946

*William F. Deane*  
William F. Deane  
Chief of Party, C. & G. Survey  
Officer-in-Charge  
Baltimore Photogrammetric Office.



COAST OF MAINE  
PROJECT NO. CS-272

DESCRIPTIONS OF THEODOLITE STATIONS, RECOVERABLE PHOTO  
(TOPOGRAPHIC) STATIONS AND TEMPORARY PHOTO (TOPOGRAPHIC)  
STATIONS FOR THE AREA OF MAP MANUSCRIPT, SURVEY NO. T-8554.

NUMBER OF THEODOLITE STATIONS ..... 6  
NUMBER OF RECOVERABLE PHOTO (TOPOGRAPHIC) STATIONS .....11  
NUMBER OF TEMPORARY PHOTO (TOPOGRAPHIC) STATIONS.....35  
TOTAL NUMBER OF STATIONS.....52

LISTED BY: Florence M. Senaseck  
Florence M. Senaseck  
Photogrammetric Aid

CHECKED BY: Ruth E. Rudolph  
Ruth E. Rudolph  
Photogrammetric Aid

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

T-8554

Number	Name	Photo	Method of location	Description
002		J-676	Cuts	High Rock projection
002a		J-675	Detail	High part of rock, bares 2' at MHW
003		J-675	RP	High part of 2 ft. rock
004		J-675	Cuts	High part of large boulder on beach
005		J-675	Detail	Projecting nob on seaward face of bluff
006		J-675	Detail	More southerly of 2 bushes on point
007		J-675	RP	SE chimney on top of large house with light colored roof ( <del>location may be weak</del> )
008		J-674	RP	Large standing evergreen.
009		J-673	Detail + cut	Seaward evergreen of group.
010		J-673	Detail	Small lone tree
010a		J-673	RP	White boulder
011		J-673	RP	Tall narrow evergreen
012		J-673	RP	Bluff face at center of point
013		J-671	RP	Highest part of rock, bares 4' at MHW.
014		J-671	Detail	Top and end of bare ledge, making South from east end of breakwater.
015		J-671	Detail	Top, center, end of steep sided rectangular rock projection out from HWL on ledge.
016		J-670	Detail	HWL end of long rock arm just east of deep crack.
017		J-670	Detail	Seaward end of prominent tall twin conifers
018		J-672	Detail	High point of very large detached rock
019		J-672	RP	Top of rock which bares 5' at MHW



709 - "COOL, 1945" - Station is bronze disc stamped "COOL, 1945" cemented in drill hole in center of large grey boulder at north end of field on north end of island. Station is largest boulder on top of bluff. Station is at the northernmost tip of Marshall Island. Recoverable Photo (Topographic) Station. *fm. 524*

710 - Base of a 12' short, cut-off, roundy topped evergreen at edge of grass line.

711 - Base of a 20' evergreen tree growing on northwest tip of point. This tree is 2 meters in from edge of grass line.

712 - Base of a 20' evergreen tree on edge of grass line. Another small tree of same kind only shorter growing along side of it about 2' away from it.

713 - Base of a 25' evergreen tree on edge of grass line. This tree is about 50' south of another about the same size and about 20' west of a 30' evergreen tree.

714 - Base of the larger of two 25' evergreen trees growing at edge of grass line in small clearing on point. This tree is also the northwesterly of the two, and the trees are about 2' apart.

715 - Top center of white topped boulder setting on grass line. There is a patch of shrubbery directly inshore from this boulder. Largest boulder in vicinity.

716 - Pointed topped white boulder setting by itself. There is a  $1\frac{1}{2}$  story unpainted house several hundred feet to the south of this boulder.

717 - Top center of an 8' high large boulder. This is setting by itself on point. Boulder is about on Mean High-Water Line.

718 - "SHOE, 1945" - Station is a bronze disc stamped "SHOE, 1945" cemented in drill hole in ledge located on the north tip of Ringtown Island. Five meters northeast of northeast tree on island. Recoverable Photo (Topographic) Station. *fm. 524*

- 719 - Base of a 10' evergreen tree growing at edge of grass line. This tree has a round bushy top and is blazed to aid recovery.
- 720 - Base of lone 6' evergreen tree growing 5 meters northwest from a blazed 60' twin evergreen.
- 721 - Base of the most northerly 4' evergreen tree. Top tip of this tree has been cut off to aid in recovery.
- 722 - "TURK, 1945" - Station is a bronze disc stamped "TURK, 1945" cemented in drill hole in flat top ledge, 1 meter southeast of a 12' (three trunk) evergreen. Station is located 8 meters from shoreline about midway of Devils Head on the west side of Marshall Island. Recoverable Photo (Topographic) Station. from 524
- 723 - 8' evergreen, lower branches cover boulders like green moss. Odd shaped tree.
- 724 - 20' evergreen, half dead.
- 725 - 20' evergreen (lone, blazed) on point.
- 726 - 18' evergreen, center of three in a group.
- 727 - Base of a bushy, twin-trunked 25' evergreen with a roundy top. Base of tree blazed to aid recovery.
- 728 - Base of a twin-trunked 40' evergreen. Single trunk goes up about 15' then branches off into another trunk. Tree growing on side of cliff ledges.
- 729 - Base of an 18" diameter trunked evergreen tree with a projecting root that is growing at edge of grass line. This tree has three trunks growing out from tree up about 4' on main trunk of tree,
- 730 - "YANK, 1945" - Station is bronze disc stamped "YANK, 1945" cemented in drill hole in white top boulder located at the southwestern end of Marshall Island. Station is in center of boulder projecting 4" above ground. This boulder is 70 meters in from Mean High-Water Line and is 8 meters northwest of a 3' diameter trunk evergreen tree that is about 35' high. Recoverable Photo (Topographic) Station. "

- 731 - Base of a lone straight 40' evergreen with no lower branches. This tree sets on a slightly raised part of ledge.
- 732 - Brownish colored evergreen tree growing on edge of ledge. Tree is about 18' high.
- 733 - Base of the leaning tree; the second from west in line of four. This tree leans to the west.
- 734 - 15' evergreen on edge of ledge. There is a small island of ledge to the southwest of this 15' evergreen.
- 2001 - Large white boulder on dark ledge, very conspicuous. Three meters to Mean High-Water Line.
- 2002 - "CHIMNEY, 1945" - Station is red brick chimney in center of single story, white weatherboard house. Station is located at the head of Douglas Cove on the northwest side of Isle au Haut. Recoverable Photo (Topographic) Station. fm. 524
- 2003 - Tallest evergreen on tip of point.
- 2004 - Red brick chimney on green pyramid-shaped house.
- 2005 - Lone evergreen on island.
- 2006 - South evergreen on point.
- 2007 - 35 ' lone evergreen.
- 2019 - Lone evergreen. (40')
- 2020 - North gable of yellow weatherboard house.
- 2068 - "WINDMILL, 1945" - Station is a windmill on top of a round building located in Lookout on the northern tip of Isle au Haut. Recoverable Photo (Topographic) Station. "
- 2069 - "WINK, 1945" - Station is bronze disc set in drill hole in white boulder in grass about 12 meters southeast of clump of evergreens. Mean High-Water Line is 20 meters northeast. Station is located on Richs Point on the northwestern tip of Isle au Haut. Recoverable Photo (Topographic) Station. "

- 2070 - Large conspicuous rock.
- 2071 - "BACK, 1945" - Station is a bronze disc set in drill hole in south east edge of Channel Rock covered by 2' of water at Mean High-Water. Station is approximately 1 1/2 miles northeast of Isle au Haut and one mile southeast of Gooseberry Island. Theodolite Station. fm. 524
- 2073 - Big bushy evergreen about 30' tall.
- 2074 - White boulder on grass.
- 2075 - Large white boulder in grass.
- 2076 - "PLAN, 1945" - Station is bronze disc stamped "PLAN, 1945" cemented in drill hole in top center of northerly of two large boulders on south end of Fog Island. Boulders are close together and very prominent, the southerly being the larger. Station is 160 meters northeast of south end of island and 51 meters from Mean High-Water Line southeast. Recoverable Photo (Topographic) Station. fm. 524
- 2077 - Lone 40' evergreen on south tip of island.
- 2082 - "PLUM, 1945" - Station is standard disc stamped "PLUM, 1945" cemented in drill hole in top center of largest white top boulder on east point of Round Island. Smaller white top boulder is very close on east side. Station is 12 meters off grass line and 5 meters outside Mean High-Water Line. Recoverable Photo (Topographic) Station. "
- 2083 - "SPUD, 1945" - Station is standard bronze disc stamped "SPUD, 1945" cemented in drill hole in top center of very large prominent boulder at Mean High-Water Line on most northeasterly point of McGlathery Island. Recoverable Photo (Topographic) Station. "
- 2085 - "KITE, 1945" - Station is standard bronze disc stamped "KITE, 1945" cemented in drill hole in top center of large conspicuous white boulder on the northern shore of Gooseberry Island about 1/4 mile southeast of McGlathery Island. 4 1/2' above grass and at line where grass meets ledge at shore. Recoverable Photo (Topographic) Station. "

"BLACK, 1944" - Station is located on Black Ledge which is about one mile south of Marshall Island. Station is about one meter south of the highest point of the ledge and east of a large fissure that runs the length of the ledge in a north-northwest and south-southeast direction. Marked by a standard disc stamped "BLACK, 1944". Theodolite Station.

*from 524*

"BUSH, 1944" - Station is located on the northern side of Three Bush Island, which is about  $\frac{1}{2}$  mile northwest of Marshall Island, in about the center of the northern side, about one meter south at the grass line and 62 feet east of a large conspicuous white boulder. Mark is a standard topographic disc stamped "BUSH, 1944" set in ledge rock about 3" above the general ground surface. Theodolite Station.

"IT, 1944" - Station is on northwest end of higher part of ledge, a short distance northwest of most northerly clump of grass. Large water-filled stagnant depression in ledge is 36.6 meters southeast. Station is on Spirit Ledge which is approximately one mile south west of Marshall Island. Theodolite Station.

"MASON, 1944" - Station is on Mason Ledge which is about  $\frac{1}{2}$  mile east of the southern tip of Marshall Island, on about the center of the western side of high ridge which runs in a north and south direction, about one meter in from western edge of ridge and about equal distance from the north and south ends. Mark is set in the only flat rock ledge outcrop in the immediate vicinity. Mark is a standard topographic disc stamped "MASON, 1944". Theodolite Station.

"SADDLE, 1944" - Station is located on the Saddleback, which is about one mile west of Marshall Island in Jericho Bay, on the center of the northern half, about 30 meters south of the High-Water Line on the northern point, and in the southern end of a long narrow ledge outcrop. Mark is a standard disc stamped "SADDLE, 1944". Theodolite Station.

Division of Photogrammetry  
Review Report of  
Shoreline Map Manuscript T-8554

Subject numbers not used in this report have been adequately covered in other parts of the descriptive report.

28. Detailing.-

Notes referring to land features were moved from the water area where possible.

Descriptive notes were added to recoverable topographic stations.

The note "Probably Standpipe" was changed to "Tank" since examination of the photographs indicates that to be the nature of the feature.

31. Low Water and Shoal Lines.-

The low water line as shown on the map manuscript is not in accordance with the specifications in Field Memorandum No. 1, 1938. It would be difficult to remove the incorrect symbol for the low water line without removing part of the ledge or sand and boulder symbols, since they coincide.

A dashed shoal line was added to the map manuscript enclosing areas containing shoals visible on the photographs.

32. Details Offshore from the High Water Line.-

Symbols for rocks awash, small islands and their elevations were changed in accordance with Photogrammetric Instructions No. 3, 1946.

43. Comparison with Hydrographic Surveys.-

H-7152	1:10,000	1946
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The shoreline on the hydrographic survey was taken from the map manuscript.

The hydrographic survey and the map manuscript are in excellent agreement in the positions of ledges, shoal areas and rocks awash with the following exception:

The rock awash north of South Popplestone Ledge is not visible on the photographs.

44. Comparison with Existing Topographic Surveys.-

USGS, Deer Isle, Me; 15' Quadrangle, 1:62,500, 1941-42  
USGS, Swan I., Me; 15' Quadrangle, 1:62,500, 1942-43

T-1383c	1:10,000	1874
T-1351	1:10,000	1874
T-1311	1:10,000	1872

The planimetry common to the surveys and the map manuscript is in fair agreement with the following exceptions:

Houses and roads shown on Marshall Island on the old surveys are not evident on the photographs.

Several small islands shown on the map manuscript west of York Island are not shown on the surveys.

Marsh areas adjacent to the mean high water line on the Quadrangles have not been identified as such on the photographs by the field inspector.

45. Comparison with Nautical Charts.-

Chart No.	1202	1:80,000	1932
	308	1:40,000	1943 Corr. 1947
	309	1:40,000	1943 Corr. 1946
	227	1:20,000	1944

The nautical charts are in good agreement with the map manuscript with the following exceptions:

The bridge and road on Birch Pt. is not shown on Chart 308.

A small island east of Pond Pt. is not shown on Charts 308 and 309.

Roads that are shown on Marshall Island on Charts 308 and 1202 and roads shown on McGlathery Island on Chart 227 cannot be distinguished on the photographs.

Rocks awash shown on the map manuscript southwest of Green Ledge are not shown on Chart 309.

Minor changes in shoreline are evident over the entire area covered by the map manuscript.

The map manuscript has been partially applied to nautical charts.

Reviewed by:

Charles Theurer  
C. Theurer  
10-31-47

Reviewed under direction of:

S. V. Griffith  
S. V. Griffith  
Chief, Review Section

APPROVED BY:

B. J. Jones  
Technical Assistant to the  
Chief, Div. of Photogrammetry

A. Edmonston  
Chief, Nautical Chart Br.  
Division of Charts

K. T. Adams  
Chief, Div. of Photogrammetry

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

30 April 1954

Shoran Station SHCR, 1953, at  $44^{\circ}04'40.01''$  ~~44~~ 1234.9m. located by the  
 $68^{\circ}36'07.01''$  156.0m.  
STERNI, and its position reported to Coastal Surveys in a letter dated  
1 Aug. 1953, shown on this sheet by a red ink circle.

Plotted by G. B. Willey *GBW*  
Checked by E. H. Ramey *ER*



