

# 8571

Diag'd. on diag.ch. No. 1202

Form 504

U. S. COAST AND GEODETIC SURVEY  
DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

~~ADDITIONAL WORK~~

Type of Survey Planimetric Air Photographic  
(Shoreline)

Field No. \_\_\_\_\_ Office No. T-8571  
~~†Southeastern and Western portions.~~

### LOCALITY

State Maine

General locality Coast of Maine

Locality Long Island, John Island, Harbor  
Island, Meron Island, and vicinity

1946

CHIEF OF PARTY

Fred. L. Peacock

LIBRARY & ARCHIVES

DATE

Jan 2 - 1948

B-1870-1 (11)++

# 1258 8571

## DATA RECORD

~~Southeastern and Western Portion of Map Manuscript,~~  
Survey T-8571

Quadrangle (II): *Swan Island, Me. (15' series)* Project No. (II): CS-272

Field Office:

Chief of Party: Fred. L. Peacock

Air Photographic Party No. 2

Compilation Office:

Chief of Party: Fred. L. Peacock

Baltimore Photogrammetric Office

Instructions dated (II III):

Copy filed in *Div. of Photogrammetry*  
Descriptive *Office Files*  
Report No. ~~T-~~ (VI)

April 1, 1942 (Additional)

July 10, 1943 (Horizontal Control Requirements)

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

August 10, 1944 (Additional); August 26, 1944 (Amendment to Additional  
Completed survey received in office: *4-19-46* Instructions)

Reported to Nautical Chart Section:

Reviewed: *1-2-9-47* *Partially* Applied to chart No. *302* Date: *9-19-45*  
*1202* *2-14-46*

Redrafting Completed:

Registered: *12-15-47* (*valid print*) Published:

Compilation Scale: 1:10,000

Published Scale:

Scale Factor (III): 1.0000

Geographic Datum (III): N.A. 1927

Datum Plane (III): *MSL*

Reference Station (III): PROCTOR 1934, r. 1944

Lat.: 44° 07' 36.631"

Long.: 68° 20' 50.662"

Adjusted

1223.2 meters

1126.2 m. ~~Unadjusted~~

State Plane Coordinates (VI):

X =

Y =

Military Grid Zone (VI)

~~Data Record For Northeastern Portion of T-8571~~

- 2 -

\* PHOTOGRAPHS (III)  
(Unmounted Single Lens)

<u>Number</u>	<u>Date</u>	<u>E.S.T. Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
1300 to 1303, Incl.	5-26-44	12:30 P.M.	1:10,000	9.2' above M.L.W.
1376 to 1379, "	5-29-44	10:15 A.M.	1:10,000	1.0' " "
1385 to 1388, "	5-29-44	10:30 A.M.	1:10,000	1.0' " "
1389 to 1392, "	5-29-44	10:45 A.M.	1:10,000	1.1' " "
1763 to 1769, "	6- 5-44	11:30 A.M.	1:10,000	8.1' " "
1770 & 1771	6- 5-44	11:45 A.M.	1:10,000	7.5' " "
2098 & 2099	6-23-44	11:00 A.M.	1:10,000	8.6' " "

\*Ratioced Prints

Tide from (III); Predicted Tide Tables, Atlantic Ocean 1944. Reference Station Eastport, Maine, with corrections to Mackerel Cove, Blue Hill Bay, Maine.  
Mean Range: 10.2 Spring Range: 11.7

Camera: (Kind or source) U. S. Coast and Geodetic/<sup>Survey</sup> 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: Aug. to Sept., 1944

Field Edit by: *None*

date:

Date of Mean High-Water Line Location (III): As of the photographs taken on May 26, May 29, June 5, and June 23, 1944. Supplemented by the field inspection data obtained during August and September, 1944.

Projection and Grids ruled by (III) H.W.B. (Washington Office) date: Jan. 8, 1945

" " " checked by: Unknown date: Unknown

Control plotted by: A. LaFave date: January, 1945

Control checked by: H. Eichert date: January, 1945

Radial Plot by: W. E. Schmidt & L. C. Lande date: January, 1945

Detailed by: H. R. Rudolph *and J. J. Komatsky* (Shoreline & immediate adjacent culture - rough draft) date: Feb. 24, 1945, to March 7, 1945

Reviewed in compilation office by: W. E. Schmidt *and H.R. Rudolph* date: March 8, 1945

Elevations on Field Edit Sheet checked by:

date:

STATISTICS (III)

Land Area (Sq. Statute Miles);  $1\frac{1}{2}$

Shoreline (More than 200 meters to opposite shore);  $15\frac{21}{4}$  Statute Miles.

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

Number of Recoverable Topographic Stations established; 412

Number of Temporary Hydrographic Stations located by radial plot; 28

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  
SURVEY No. T-8571

COAST OF MAINE  
LONG ISLAND, HARBOR ISLAND, AND VICINITY  
Project No. CS-272

1. DESCRIPTION OF THE AREA:

According to Instructions, dated August 10, 1944, Map Manuscript, Survey No. T-8571, is a shoreline survey and covers an area of Long Island, Harbor Island, and vicinity.

The terrain immediately adjacent to the mean High-Water Line is, in general, very rocky. The foreshore area is commonly rock ledge with stretches of sand, gravel, and boulders in the coves.

The interior is hilly and mostly tree covered with the elevation rising from sea level to a maximum of 205 feet.

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 discernable on the photographs.

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 previously established horizontal stations were recovered in good condition and accurately identified by substitute stations.

Five new theodolite stations were established by the field Unit operating in 1944. All of the theodolite stations are identified by substitute stations.

Form No. 526 has been submitted to the Baltimore Compilation Office for each of the previously established horizontal control stations.

Form No. 524 has been submitted to the Baltimore Compilation Office for each of the theodolite stations.

Forms ~~526~~ 524 are filed in Div. of Photogrammetry  
General Files

5. VERTICAL CONTROL:

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

6. DRAINAGE:

Drainage was not 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 point.

Alongshore rocks, 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.

Offshore rocks and reef areas, revealed by photography, which are covered at Mean High-Water have been identified on the field photographs with the amount to which they cover or uncover at Mean Low-Water noted.

8. MEAN LOW-WATER LINE:

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

The Mean Low-Water Line, along the southern shore of Long Island head, along the southern shore of Long Island between West Cove and Deep Cove, along Deep Point, along the western shore of Long Island in the vicinity of Gooseberry Point, around all of John Island, all of John Island Dry Ledge, all of Baker Islands, all of Scrag Island, all of Green Island, all of Brimstone Island, all of Heron Island, all of Heron Island Point Ledge, and most of the southern shore of Harbor Island (the Harbor Island on the western side of the map manuscript) has been identified in its true position and is indicated by a dot and dash green ink line on the field photographs.

The position of the rest of the Mean Low-Water Line has been identified somewhat approximately and has been indicated on the field photographs by a dotted green ink line.

9. WHARVES AND SHORELINE STRUCTURES:

A few piers and cribbings in the most southwestern part of Lunt Harbor have been identified on the field photographs. There are no other piers or shoreline structures within the area of this Survey.

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

Details outside the foreshore area revealed by photography include several rocks and rock ledge areas that uncover at Mean Low-Water or bare at Mean High-Water, small rocky islets, large sand and gravel areas, also gravel boulder and ledge areas.

The character of the foreshore area has been indicated on the field photographs. The extent to which several prominent rocks and 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. The height of each of the small islets above Mean High-Water has also been noted.

11. LANDMARKS AND AIDS TO NAVIGATION:

There are no charted Landmarks or Non-Floating Aids to Navigation or Aeronautical Aids within the area of the Survey.

12. HYDROGRAPHIC CONTROL:

7 Recoverable Photo (Topographic) Stations.  
56 Temporary Photo (Topographic) Stations.

Descriptions have been furnished for all stations.

Form No. 524 has been submitted to the Baltimore Compilation Office for each of the Recoverable Photo (Topographic) Stations.

14. ROAD CLASSIFICATION:

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

18. GEOGRAPHIC NAMES: 814 ✓

No investigation.

*Compilation*  
DESCRIPTIVE REPORT

NORTHEASTERN PORTION OF MAP DRAWING, SURVEY NO. T-8571  
COAST OF MAINE - VICINITY OF LONG ISLAND

*The northeastern section of T-8571 was compiled and reviewed some months ahead of the remainder of the manuscript thus two compilation and review reports*

The Map Drawing for Survey No. T-8571 covers an area in the approaches to Blue Hill Bay along the Coast of Maine.

In accordance with the written instructions, only the northeastern part of the Survey has been compiled at the present time. The compiled area includes about two-thirds of the shoreline of Long Island, all of the Sister Islands, and immediate adjacent islets and reefs.

*See Descriptive Report for southeastern and western portions filed in Division of Photogrammetry General Files. Attached to this Desc. Report.*

26 CONTROL:

There are eleven horizontal ground control stations shown on the Map Drawing for Survey No. T-8571. They are as follows:

<u>Name of Station</u>	<u>Type of Station</u>
(a) BURNT COAT L.H., 1875, r. 1944	Intersection
(a)(b) TOWNSEND, 1875, r. 1944	Triangulation
(a) HARBOR ISLAND, 1875, s. 1944	Triangulation
(b) EAST SISTER ISLAND 1908, r. 1944	Triangulation
(a)(b) SCRAG ISLAND, 1875, r. 1944	Triangulation
(b) PROCTOR, 1934, r. 1944	Triangulation
(b) Deep, 1944	Topographic
(b) Goose, 1944	Topographic
(b) Green, 1944	Topographic
(b) John, 1944	Topographic
(b) Sally, 1944	Topographic

(a) Station falls just outside the detail limits of the Map Drawing, Survey No. T-8571

(b) Station identified by well defined picture point connected to station by 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."

27 RADIAL PLOT:

The Map Drawing Projection and the unmounted single lens photographs were prepared in the usual manner.

The radial plot was laid in accordance with approved photogrammetric methods. The results obtained were satisfactory.



27 RADIAL PLOT:(Continued)

The facts concerning the radial plot for the area of Map Drawing Survey No. T-8571, have been fully brought out in the Radial Plot Report for the areas of Surveys Nos. T-8554 to T-8556, inclusive, T-8568 to T-8573, inclusive, and T-8586, ~~attached to the Descriptive Report for Map Drawing, Survey No. T-8572 previously submitted.~~ *Filed Div of Photogrammetry General Files*

28 DETAILING:

The compilation is in accordance with the written instructions pertaining to Sub-Project No. CS-272-E. *Filed in Div. of Photogrammetry Office Files*

The photography, field data, and horizontal control available for the compilation were adequate. No difficulties were encountered.

30 MEAN HIGH-WATER LINE:

The Mean High-Water Line has been detailed in accordance with the field data.

31 LOW-WATER LINE:

The approximate position of the Mean Low-Water Line has been detailed in accordance with the field data and shown on the Map Drawing with a dotted black acid ink line.\* No definite position was furnished by the Field Unit. *\* Since the offshore limit of the rocky ledges is the approximate mean low water line the dotted line is shown only in areas where there is no ledge.*

31-A SHOAL LINES:

The approximate position of the outer limits of shoal areas bordering the Mean High-Water Line has been detailed in accordance with the office interpretation of the photographs and shown on the Map Drawing with a lightweight short dashed, black acid ink line, accompanied by the note "Shoal". No off-shore shoal areas were visible on any of the photographs.

31-B FORESHORE AREAS:

The foreshore areas shown consist of rock ledge, boulders, rocks (including detached rocks), and sand and gravel beaches. Such features have been detailed in accordance with the field data.

The extent to which detached rocks and high spots of ledge within the foreshore area bare at Mean High-Water or uncover at Mean Low-Water have been shown on the Map Drawing by notes which are in accordance with the field data and the Hydrographic Manual.

*Changed to conform with Photogrammetry Instructions No 3, 1946  
See Review Report.*

32 DETAILS OFFSHORE FROM THE MEAN HIGH-WATER LINE:

The offshore features shown consist of two small reefs, a rock awash, and a small rocky islet. Such features have been detailed in accordance with the field data.

The extents to which the offshore features bare at Mean High-Water or uncover at Mean Low-Water have been shown on the Map Drawing by notes which are in accordance with the field data and the Hydrographic Manual.

*See Review Report*

33 WHARVES AND SHORELINE STRUCTURES:

Situated in the most southwestern part of Lunt Harbor are a few cribbings and piers. These have been detailed in accordance with the field data. There are no other wharves, piers, or any other shoreline structures within the compiled area of the Map Drawing.

34 LANDMARKS, FIXED AIDS TO NAVIGATION, AND AERONAUTICAL AIDS:

There were no charted landmarks, fixed aids to navigation, or aeronautical aids within the compiled area of the Survey as of the data of field examination.

35 HYDROGRAPHIC CONTROL:

- 8 Recoverable Topographic Stations - (5 located by ground methods and 3 by radial plot.
- 28 Temporary Hydrographic Stations- All located by radial plot.

A descriptive list of all the hydrographic control stations has been compiled and attached to this report. Two additional copies of the list have been furnished for use of the hydrographic parties.

Form No. 524 has been submitted for the eight Recoverable Topographic Stations appearing on the Map Drawing. *Filed - Div. of Photogrammetry General Files*

37 GEOGRAPHIC NAMES:

*414 Filed in Div. of Charts - Geographic Names Section.*

As instructed, no geographic names investigation was made by the Field Unit.

The geographic names appearing on the Map Drawing have been taken from Nautical Chart No. 308. A list of the names is attached to this report.

38 JUNCTIONS:

The junctions with T-8572 to the north and northeast and with T-8570 to the northwest pass through an all water area.

The areas immediately to the south and to the east are all water areas.

The junctions between T-8570 to the north and T-8554 to the west, with the uncompiled portion of T-8571, will be considered when those areas are compiled.

*Checked during review.*

39 POSITION ACCURACY OF PLANIMETRIC DETAILS:

The positions of the Mean High-Water Line, Recoverable Topographic Stations, Temporary Hydrographic Stations, and all other details of importance are considered to be within 0.5 mm of their true positions.

40 RECOMMENDATIONS FOR FUTURE SURVEYS:

The compiled area of the Map Drawing is believed to be complete with respect to all details necessary for charting except those mentioned as incomplete under Side Heading No. 45 and a few noted for further investigation during hydrography.

44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

United States Geological Survey Quadrangle, Swan Island, Maine (15' series), scale 1:62,500, edition of 1904, reprinted 1943.

Sunken Money Ledge does not appear on the quadrangle.

(a) A road which now exists and which is situated just inshore from the Mean High-Water Line in the southwestern portion of Lunt Harbor does not appear on the quadrangle.

(a) Several existing trails and two stagnant ponds at approximately Latitude  $44^{\circ} 07' 25''$  and Longitude  $68^{\circ} 20' 48''$  do not appear on the quadrangle. In the same vicinity a small marsh area, a small pond, and a stream appear on the quadrangle. They have not been shown on the Map Drawing because they were neither identified by the Field Unit nor visible on any of the photographs.

(a) A road, which appears on the quadrangle and which is situated on the narrow strip of land connecting Long Island Head with Long Island, was not shown on the Map Drawing. The feature was neither identified by the Field Unit nor visible on any of the photographs.

Eastern Beach Ledge does not appear on the quadrangle.

A building situated in the northwestern portion of West Sister Island has been shown on the Map Drawing. It does not appear on the quadrangle.

More buildings have been shown on the Map Drawing in the village of Frenchboro than appear on the quadrangle.

(a) The Mean High-Water Line shown on the Map Drawing is more irregular.

(a) Applies also to Nautical Chart No. 308.

*See Review Report for additional differences*

45 COMPARISON WITH NAUTICAL CHARTS:

Chart No. 308, scale 1:40,000, published at Washington, D. C. December 1942, corrected to April 12, 1944.

In the areas known as Sunken Money Ledge, Sister Ledge, and Eastern Beach Ledge only the rock ledge symbol has been shown on the Map Drawing. Rocks awash signify the ledge on the chart.

None of the building shown on the Map Drawing appear on the chart.

None of the charted features below Mean Low-Water, except a few shoal lines, were shown on the Map Drawing because they were neither identified by the Field Unit nor visible on any of the photographs.

The charted pier and cribbing situated in the southwestern portion of Lunt Harbor still exist. The Field Unit, however, reported the existence of two additional piers and six additional cribbings within the area. All of the structures have been shown on the Map Drawing.

The charted rock awash situated on Otter Ledge has not been shown on the Map Drawing. The rock was neither identified by the Field Unit nor visible on any of the photographs.

*See. Review Report for additional differences.*

For other comparisons, see items marked (a) under Side Heading No. 44.

GEOGRAPHIC NAMES

Compiled Area of  
Map Drawing, Survey No. T-8571

Undisputed

- ✓ Crow Island
- ✓ Dry Money Ledge
- ✓ East Point
- ✓ Eastern Beach Ledge
- ✓ Frenchboro (village)
- ✓ Harbor Island
- ✓ Long Island
- ✓ Long Island Head
- ✓ Northeast Point
- ✓ Richs Cove
- ✓ Sister Islands
- ✓ Sister Ledge
- ✓ Sunken Money Ledge

Disputed

- ✓ Lunt Harbor (Nautical Chart No. 308)  
Lunts Harbor (U. S. Geological Survey Quadrangle,  
Swan Island, Maine (15' series))

Names preceded by ✓ are  
approved. 2/2/78  
L. Heck

(see other list)

*Compilation*

DESCRIPTIVE REPORT  
SOUTHEASTERN AND WESTERN PORTIONS OF  
MAP MANUSCRIPT, SURVEY No. T-8571  
COAST OF MAINE  
LONG ISLAND, HARBOR ISLAND AND VICINITY  
Project No. CS-272

26. CONTROL:

For data pertaining to the horizontal control, see Descriptive Report for Northeastern Portion of map Manuscript, Survey No. T-8571, submitted to the Washington Office on March 23, 1945.

27. RADIAL PLOT:

For facts relative to the radial plot, see Descriptive Report for Northeastern Portion of map Manuscript, Survey No. T-8571, submitted to the Washington Office on March 23, 1945.

28. DETAILING:

The compilation is in accordance with the written instructions pertaining to Project No. CS-272-E. *Filed in Div. of Photogrammetry Office Files*

The photography, field data, and horizontal control available for the compilation were adequate. No difficulties were encountered.

30. MEAN HIGH-WATER LINE:

The Mean High-Water Line has been delineated in accordance with the field data and has been shown with a solid heavy-weight black acid ink line.

There are no marsh areas bordering the Mean High-Water Line.

31. LOW-WATER LINES:

The position of the Low-Water Line has been delineated according to the field data. The somewhat approximate position of the Mean Low-Water Line has been shown with a dotted black acid ink line.

The position of the Mean Low-Water Line, accurately identified by the Field Unit, has been shown with an alternate dot and dash black acid ink line. For a discussion of the areas in which the Mean Low-Water Line was accurately located, see Side heading No. 8 of the Field Report included in this Report.

*See Review Report*

**31-A. SHOAL LINES:**

The approximate position of the outer limits of shoal areas bordering the Mean High-Water Line has been delineated in accordance with the office interpretation of the photographs and shown on the Map Manuscript with a light-weight short dashed, black acid ink line, accompanied by the note "Shoal".

**31-B. REEF LINES:**

The approximate outline of reef areas was delineated 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".

**31-C. FORESHORE AREAS:**

The foreshore areas shown consist of rock ledge, boulders, rocks (including detached rocks) and sand and gravel beaches. Such features have been delineated in accordance with the field data.

The extent to which detached rocks and high spots of ledge within the foreshore area bare at Mean High-Water or uncover at Mean Low-Water have been shown on the Map manuscript by notes which are in accordance with the field data.

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

The offshore features consist of several small reefs, rocks awash, and small rocky 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 at Mean Low-Water have been shown on the map manuscript by notes which are in accordance with the field data.

**33. WHARVES AND SHORELINE STRUCTURES:**

There are no wharves or other shoreline structures in the southeastern or western portions of this Map Manuscript.

**34. LANDMARKS, FIXED AIDS TO NAVIGATION AND AERONAUTICAL AIDS:**

There are no charted landmarks, Fixed Aids to Navigation, or Aeronautical Aids contained within the area of the Survey as of July 1945.

35. HYDROGRAPHIC CONTROL:

4 Recoverable (Photo) Topographic Stations.  
28 Temporary Hydrographic Stations - All located by Radial Plot.

A descriptive list of all the hydrographic control stations has been compiled and are attached to this Report. Two additional copies of the list have been furnished for use of the Hydrographic Parties.

Form No. 524 is being submitted for each of the four Recoverable Photo (Topographic) Stations appearing on the southeastern and western portions of this Map Manuscript.

38. GEOGRAPHIC NAMES:

*314* ✓ Approved names are filed in Div of Charts, Geographic Names Section

As instructed, no geographic names investigation was made by the Field Unit. The geographic names appearing on the map Manuscript have been taken from Nautical Chart No. 308. A list of names is attached to this Report.

39. JUNCTIONS:

The junction with Map Manuscript for Survey No. T-8570 to the northwest has been made and is in agreement.

The junction with Map Manuscript for Survey No. T-8554 to the west will be made when that survey is compiled. The only detail common to the two surveys is the approximate limits of a reef area at Heron Island.  
*Junction checked during Review.*

For the remaining junctions, see Side Heading No. 38 of the Descriptive Report for the Northeastern Portion of Map Manuscript for Survey No. T-8571, submitted to the Washington Office March 23, 1945.

40. HORIZONTAL ACCURACY:

The position of all detail of importance is believed to be within 0.5 millimeters.

41. RECOMMENDATIONS FOR FUTURE SURVEYS:

The southeastern and western portions of Map Manuscript, Survey No. T-8571 is complete with respect to all known details necessary for charting, except for 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 attached to this report.



44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

U. S. Geological Survey Swan Island, Maine (15' series) Quadrangle, scale 1:62,500, edition of 1904, reprinted 1943.

In general, the planimetry common to the Map Manuscript and the Quadrangle are in good agreement.

The minor differences in land features are mentioned in "Notes to the Reviewer" and in offshore features, for which delineating data were lacking, have been mentioned in "Notes to Hydrographic Parties".

*See Review Report for additional differences*

45. COMPARISON WITH NAUTICAL CHARTS:

U. S. Coast and Geodetic Survey Chart No. 308, scale 1:40,000, published at Washington, D. C., December 1942, corrected to April 7, 1945.

In general, the planimetry common to the Map Manuscript and the Nautical Chart are in good agreement except Beach Ledge, southwest of House Point; and Sally Prude Ledge, northwest of John Island Dry Ledge have not been shown on the Map Manuscript.

The minor differences in land features are mentioned in "Notes to the Reviewer" and in offshore features, for which delineating data were lacking, have been mentioned in "Notes to Hydrographic Parties".

*See Review Report for additional differences*

Respectfully Submitted,  
April 11, 1946

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Leo J. Kornetsky,  
Engineering Aid

Compilation Supervised and  
Reviewed By:

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*Harry R. Rudolph*  
Harry R. Rudolph,  
Photogrammetric Engineer

Approved and Forwarded:  
April 19, 1946

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

GEOGRAPHIC NAMES  
COMPILED AREA OF  
SOUTHEAST AND WEST PORTIONS OF  
MAP MANUSCRIPT, SURVEY No. T-8571

(Disputed)

Nautical Chart  
U.S.C. & G.S. No. 308

✓ John Island

✓ • John Island Dry Ledge

U.S.G.S. Quadrangle  
Swan Island, Maine, 15' Series

~~Johns Island~~

~~Johns Island Dry Ledge~~

GEOGRAPHIC NAMES  
COMPILED FROM  
SOUTHEAST AND WEST PORTIONS OF  
MAP MANUSCRIPT, SURVEY No. F-8571

(Undisputed)

- ✓ Atlantic Ocean
- ✓ Baker Islands
- Beach Ledge (not on manuscript)
- ✓ Brimstone Island
- ✓ Deep Cove
- ✓ Gooseberry Point
- ✓ Green Island
- ✓ Harbor Island
- ✓ Heron Island
- ✓ Heron Island Point Ledge
- ✓ House Point
- ✓ John Island Sunken Ledge
- Sally Prude Ledge (not on manuscript)
- ✓ Scrag Island
- Seal Ledge ( " " " )
- ✓ Southwest Point
- ✓ West Cove

Names preceded by •  
are approved. 2/3/48  
L. Heck

(see other list)

1944  
**IDENTIFICATION REPORT**  
**HORIZONTAL CONTROL**  
 Map Drawing, Survey No. T-8571

<u>Name</u>	<u>Type Station</u>	<u>U.S.G.S. Quadrangle</u>	<u>RECOVERY Data</u>	<u>PRICKING Data</u>
(a) BURNT COAT L.H. 1875	Intersection	Swan Island	Recovered	Positive
(a)(b) TOWNSEND 1875	Triangulation	Swan Island	Recovered	Positive
(a) HARBOR ISLAND 1875	Triangulation	Swan Island	Recovered	Not pricked*

\* Nothing to use as an initial - Not listed as an essential station.

(b) EAST SISTER ISLAND, 1908	Triangulation	Swan Island	Recovered	Positive
(b) PROCTOR, 1934	Triangulation	Swan Island	Recovered	Positive
(a)(b) SCRAG ISLAND, 1875	Triangulation	Swan Island	Recovered	Positive
(b) Deep, 1944	Topographic	Swan Island	New Station	Positive
(b) Goose, 1944	Topographic	Swan Island	New Station	Positive
(b) Green, 1944	Topographic	Swan Island	New Station	Positive
(b)(c) John, 1944	Topographic	Swan Island	New Station	Positive
(b) Sally, 1944	Topographic	Swan Island	New Station	Positive

- (a) Station falls just outside the detail limits of Map Drawing, Survey No. T-8571.
- (b) Station identified by well defined picture points connected to station by short traverse. The positions of the substitute points have been shown with very small black acid ink circles, accompanied by the letters "F.I.P."
- (c) Station marked with a standard triangulation disc. All other 1944 stations were marked with a standard topographic disc.

Respectfully Submitted:  
March 8, 1945

Walter E. Schmidt  
Walter E. Schmidt,  
Photogrammetric Engineer

Compilation Supervised and  
Reviewed By:

Walter E. Schmidt  
Walter E. Schmidt,  
Photogrammetric Engineer

Approved and Forwarded:  
March 23, 1945

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

NOTES  
for  
HYDROGRAPHIC PARTIES  
Northeastern Portion  
MAP DRAWING, SURVEY No. T-8571

The center of the full heavy-weight black ink line as shown on the Map Drawing is considered to be the true position of the Mean High-Water Line.

The positions of all the hydrographic control stations (shown with  $2\frac{1}{2}$  mm. black ink circles), and all of the details of importance shown are considered to be within 0.5 mm. of their true positions.

Two copies of the descriptive list for the hydrographic control stations have been furnished for use of the Hydrographic Party.

The very small black ink circles appearing on the Map Drawing are the positions of well defined picture points which were used to supplement the basic ground control. They were used only for radial plot purposes.

The positions of the outer limits of shoal areas bordering the Mean High-Water Line shown with light-weight dashed black ink lines were detailed in accordance with the office interpretation of the photographs. They have been shown solely for the purpose of indicating approximately where shoal areas might be encountered.

The charted rocks awash situated on Sister Ledge, Sunken Money Ledge, and Eastern Beach Ledge have not been shown on the Map Drawing. Only the rock ledge symbol has been shown. Investigation is recommended of the high spots of the rock ledge in those areas during hydrography.

The Mean High-Water Line of four very small detached islets has not been fully identified. The approximate Mean High-Water Line has been shown on the Map Drawing with dashed heavy-weight black ink lines. Verification during hydrography is recommended. The largest of these is situated off the shore of Long Island just east of hydrographic signal No. 1084. The other three lie off the north and northeast shores of Crow Island.

The following charted features have not been shown on the Map Drawing. Investigations by the Hydrographic Party are recommended.

Rock awash situated on Otter Ledge	-	Crow Ledge
Beaumont Ledge	-	Northeast Ledge

Respectfully submitted:  
March 8, 1945

*Walter E. Schmidt*  
Walter E. Schmidt  
Photogrammetric Engineer

NOTES  
FOR  
HYDROGRAPHIC PARTIES

COAST OF MAINE  
SOUTHEASTERN AND WESTERN PORTION OF  
MAP MANUSCRIPT, SURVEY No. T-8571  
Project No. CS-272

The  $2\frac{1}{2}$  millimeter black acid ink circles are the positions of the selected Recoverable Photo (Topographic) Stations and the Temporary Photo (Topographic) Stations. Such circles, accompanied by a name and date (1945) 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 Photo (Topographic) Stations have been furnished for your use.

The very small black acid ink circles, accompanied by the note "Sub. Sta." are the positions of substitute stations. A brief description of the substitute stations may be found on the pricking 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 somewhat approximate position of the Mean Low-Water Line.

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, accompanied by the note "Shoal" or "Reef".

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

Beach Ledge, Sally Prude Ledge and Seal Ledge.

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

Four rocks awash in the vicinity of Scrag Island.

One rock awash southeast of Harbor Island and north of Scrag Island.

One rock awash northwest of Baker Islands.



- 735 "STOP - 1945" - Bronze disc set in top of a pointed rock 7 meters south of a 20' evergreen that is surrounded by small boulders. This station is 25 meters in from the Mean High-Water Line. Station is in line with tree and a deep cut in ledge at low-water mark. Station is on southwest shore of Long Island Head. Recoverable Photo (Topographic) Station.
- 736 "BEAR - 1945" - Station is a bronze disc stamped "BEAR, 1945" cemented in drill hole in ledge 1.5 meters southwest of small group of four closely grown evergreens six feet tall. Station is on a 50' bluff with a vertical drop about two feet south of station. There is a 60' bluff about 30 meters east of station. 19 meters to Mean High-Water Line. Station is on south shore of Long Island, just west of West Cove. Recoverable Photo (Topographic) Station.
- 737 Base of a 15' evergreen growing on edge of ledges. A tall bent tree just north of tree.
- 738 Lone 10' evergreen at edge of grassline about 100 yards northeast of an old wreck of a hull.
- 739 Southwesterly evergreen in group of evergreens at the north edge of a row of boulders running from south end of field out to this group of trees.
- 740 Base of 7' evergreen growing in sharp ridge of ledge. There is a 4' evergreen right below this tree in same sharp ridge of ledge.
- 741 12' lone evergreen at edge of grassline setting in between two groups of evergreens. Small flat field just north of this tree.
- 742 In shore end of black strip 3' wide running north and south along ledge. At small evergreen at end of strip.
- 743 Base of a 20' bushy evergreen growing in ledges. This tree is farthest east of the group.
- 744 Base of a 20' bushy evergreen on small nubble of land just off from edge of grassline. White topped boulder about 30' south of tree.
- 745 Lone bushy 6' evergreen at edge of rocks on shoreline. There is a large flat boulder alongside of it.
- 746 Most southerly 15' evergreen tree on point.
- 747 The most southwesterly 15' evergreen tree before a gap in the tree line running back into the woods.
- 748 Base of lone 6' evergreen at edge of grassline and the most westerly of several setting in a small field.

- 749 Most northwesterly 5' evergreen with a bushy top.
- 750 Most northerly clump of trees on Island. This is a clump of three trees with flat tops.
- 751 "DRAG, 1945" - Station is a bronze disc, stamped "DRAG, 1945" cemented in a drill hole in top center of large 5 foot high white boulder at edge of grassline on north end of island, 17 meters in from Mean High-Water Line. This is largest boulder in vicinity. Station is on the most northerly part of Heron Island. Recoverable Photo (Topographic) Station.
- 752 Top of a very large boulder on shoreline. Largest boulder in vicinity. Boulder is at edge of grassline.
- 753 "SHUT, 1945" - Station is a bronze disc stamped "SHUT, 1945", cemented in a drill hole in top of large, low, flat, white boulder. Station is two feet north of south end of boulder. Boulder is lying flat against the ground in a small open field and is 28 meters in from the Mean High-Water Line. Station is located on the southeast part of the southerly and larger of the two Baker islands. Recoverable Photo (Topographic) Station.
- 754 Base of a 30' evergreen growing on the side of a small banking surrounded on the northeast and northwest side by ledges. This tree has projecting roots and is on a slight tip of grass. Base of tree has been blazed.
- 755 Largest tree in group on north end of island. Tree approximately 25' tall.
- 756 Base of a 7' evergreen. This is most northerly in group on point.
- 757 The most northwesterly tree in group at north end of island. This tree is about 25' tall.
- 759 Base of most southerly 30' leaning evergreen on point. This tree has no branches on the northeast side of it. The tree leans toward the southward.
- 760 Most westerly 30' evergreen tree on point.
- 829 Most southwesterly 20' tree on point.
- 830 Base of a 25' evergreen at northeast end of beach. This tree is growing in ledge.
- 831 The most northwesterly gnarled looking evergreen on ledge. Tree about 25' tall.
- 832 Base of a twin topped evergreen tree about 25' east of a leaning uprooted evergreen tree.

- 833 Base of a tall gnarled 35' evergreen setting on piece of ledge with grass on it, sticking out over edge of grassline slightly.
- 834 Base of a 50' evergreen tree with four branches growing off top of it. Largest tree in vicinity.
- 835 Most southerly of two lone evergreens growing on side of hill. This evergreen is a twin evergreen with another growing from same roots. Trees are about 15' tall.

- 1077 Inshore end of long streak of black prominent ledge where it intersects with tree line.
- 1078 "Cross in Boulder" - Station is a chiseled cross about one inch deep in the top of a white topped granite boulder projecting 2 feet above surface of ground, located on northeast tip of Long Island Head, 9 meters south of a group of isolated evergreen trees, 60 meters south of M.H.W.L. on point, 55 meters from M.H.W.L. to northeast and 60 meters from M.H.W.L. to northwest, and 10 meters north of general tree line, and in a small wet marshy area. Boulder is the most conspicuous in the immediate vicinity. Recoverable Topographic Station.
- 1079 Base of evergreen approximately 35 feet tall.
- 1080 Base of 30 feet bushy evergreen halfway up grass bluff from boulder line.
- 1081 Low bushy evergreen on point.
- 1082 Larger low bushy evergreen on narrow waist of land.
- 1082½ Evergreen.
- 1083 20 feet evergreen, surrounded by ledge.
- 1084 25 feet evergreen tree, isolated from forest by grass and ledge.
- 1085 Small evergreen growing in rock ledge.
- 1086 Centerline of trail at tree line.
- 1087 Larger of two evergreens at line between gravel beach and vegetation between two stagnant ponds.
- 1088 35 feet evergreen tree at corner of forest, edge of small clearing.
- 1089 "NORTHWEST CORNER OF PIER" - Station is the northwest corner of a log and rock fill pier (good, permanent construction) with road leading up hill into woods, located on the eastern side Lunt Harbor on the northwestern side of Long Island, 800 meters from the head of the bay, 400 meters south of Harbor Island, and about due east of the tip of the point on the western side of Lunt Harbor. Recoverable topographic Station.
- 1090 "SPEEPL, LUNT HARBOR CONGREGATIONAL CHURCH" - Station is the Cross on the steeple of the Lunt Harbor Congregational Church in Lunt Harbor (Frenchboro) on the western side of Long Island. Church is located about 100 meters from Head of Harbor on eastern side. It is on eastern side of road. Recoverable Topographic Station.

- 1091 10 feet pole in center of offshore end of cribbing with small shingled building on it.
- 1092 Northeast corner of square rock filled cribbing.
- 1093 20 feet bushy evergreen about 10 meters north of rock foundation, 3 meters inshore from M.H.W.L.
- 1094 30 foot evergreen at west tip of evergreens at corner of ledge and clearing.
- 1095 Larger of two small bushy evergreens on point.
- 1096 25 foot evergreen at north end of gravel beach.
- 1097 Center of water filled depression in ledge. Marked by small pieces of ledge thrown in loosely to aid in recovery.
- 1098 25 foot evergreen, bushy, near point.
- 1099 3 foot evergreen (surrounded by ledge) nearest to point.
- 1100 Center of only grass spot on Island.
- 1101 Evergreen on south end of East Sister Island.
- 1102 15 foot evergreen, larger of four on grass bluff.
- 1103 Bushy umbrella shaped evergreen on point.
- 1104 Evergreen tree at edge of ledge.
- 2263 Northwest corner offshore end of pier.
- 2264 Northwest corner offshore end of pier.

"DEEP 1944" - Standard topographic disc set in drill hole in ledge on extreme west side of point at grass line. Station is 6 meters west of most s.w. evergreen on west side of point. About 15 meters in from H.W.L. and set so Gooseberry Point is clearly visible from ground. Recoverable Topographic Station.

"JOHN 1944" - Station is located on the highest part of John Island, which is about one mile southwest of Swan Island and one mile east of Long Island. Mark is set in ledge rock outcrop that extends NNW and SSE, is about 10 feet above surrounding ground and 5 meters from northwest end of ledge. Mark is a standard triangulation disc stamped "JOHN 1944". Recoverable Topographic Station.

"GOOSE 1944" - Station is located on Gooseberry Point on the western side of Long Island which is about  $1\frac{1}{2}$  miles southeast of Swan Island. Station is on a large boulder on top of the

boulder strewn shoreline, about 15 meters southeast of where shoreline turns to southeast, 5 meters outside grassline, 20 meters inside Mean High-Water Line, 25.7 meters southwest of a small bushy evergreen tree on center of point and 50.2 meters from small evergreen tree of inner edge of boulder beach to north. Mark is a standard topographic disc stamped "Goose 1944" cemented in drill hole in boulder. Recoverable Topographic Station.

"GREEN 1944" - Station is located on Green Island which is on the southern side of Swan Island, on a prominent rock ledge outcrop on the northeastern side of the top of the island, about 50 meters south of the northern side of island, and rock ledge is about 3 feet higher than surrounding grass area. Mark is a standard Topographic disc stamped "Green 1944". Recoverable Topographic Station.

"SALLY 1944" - Station is located in the center of the highest part of John Island Dry Ledge on the easterly part that is about 2 feet above Mean High Water. John Island Dry Ledge is about 3/4 mile southwest of John Island and about 2 miles south of Swan Island. Mark is a standard disc stamped "Sally 1944". Recoverable Topographic Station.

The following charted features are in disagreement with the Map Manuscript and should also be investigated during the next Hydrographic Survey:

A charted rock awash southeast of John Island has been shown as a ledge area.

Four charted rocks awash in the vicinity of Baker Islands have been shown as ledge areas.

Two charted rocks awash in the vicinity of Scrag Island have been shown as ledge areas.

Two charted rocks awash in the vicinity of Heron Island have been shown as ledge areas.

Rock ledge shown all around Green Island. None appears on the chart.

The shoreline in the small cove north of Gooseberry Point is in disagreement.

NOTE: For location, see section of Chart No. 308 attached to this report. The charted features not shown on the Map Manuscript have been indicated by a red ink line around the areas in which they fall. The charted features in disagreement have been indicated by a green ink line around the areas in which they fall.

Respectfully Submitted:  
April 11, 1946

Harry R. Rudolph  
Harry R. Rudolph,  
Photogrammetric Engineer.

Approved and Forwarded:  
April 19, 1946

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





Northeastern Portion T-8571

DESCRIPTIONS OF RECOVERABLE TOPOGRAPHIC  
STATIONS AND TEMPORARY HYDROGRAPHIC STATIONS  
SHOWN ON THE MAP DRAWING FOR SURVEY No. T-8571

NUMBER OF RECOVERABLE TOPOGRAPHIC STATIONS.....	8
NUMBER OF TEMPORARY HYDROGRAPHIC STATIONS.....	<u>28</u>
TOTAL NUMBER OF STATIONS	36

Listed By: H. R. Rudolph  
H. R. Rudolph

Checked By: W. E. Schmidt  
W. E. Schmidt

COAST OF MAINE  
Project No. CS-272

DESCRIPTIONS OF THE RECOVERABLE PHOTO  
(TOPOGRAPHIC) STATIONS FOR THE SOUTHEAST AND  
WEST PORTIONS OF MAP MANUSCRIPT, SURVEY No. T-8571

NUMBER OF RECOVERABLE PHOTO (TOPOGRAPHIC) STATIONS.....	4
NUMBER OF TEMPORARY PHOTO (TOPOGRAPHIC) STATIONS.....	<u>28</u>
TOTAL NUMBER OF STATIONS	32

Listed By: Leo J. Kornetsky,  
Engineering Aid.

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

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Review of T-8571

(Not complete west of longitude  $68^{\circ} 23'$ )

*See complete Review Report in Descriptive Report for Southeastern and western portions of T-8571. Filed in Div. of Photogrammetry General files. <sup>^</sup> attached to this report.*

Radial Plot and Detailing

No attempt was made to check the single lens radial plot which forms the basis for this compilation.

Several small rocks appearing on the photographs, but not noted by the field inspection, were added to the sheet during office review. These rocks are shown as being above mean high water which conclusion is reached by comparison with similar features in the areas that were noted by field inspection. These rocks should be investigated by the Hydrographic Party. The clearances of nine rocks above datum were found to be in error, probably due to erroneous calculations of heights of tides. These were recomputed by the reviewer and changed on the manuscript. The outer limit of the rock ledge symbol is to be taken as representing the mean low water line. A dotted line has been used to indicate mean low water lines in areas where no ledge is shown.

Comparison with previous Topographic Surveys

T-1397a, 1:10,000, (1875)

A ledge is shown on this old survey at approximately  $44^{\circ} 08.7'$ - $68^{\circ} 21.8'$  which could not be identified on the photographs. Therefore, it is not shown on T-8571. With this exception T-8571 supersedes T-1397a throughout the common area.

There are no contemporary Hydrographic Surveys in this area.

Comparison with Nautical Charts is disclosed adequately in the preceding report.

Reviewed April 18, 1945 by Harlan E. Rees under the direction of Ralph M. Berry.

Examined by B. G. Jones

*B.G. Jones 12/47*

Examined and approved:

Division of Photogrammetry  
Review Report of  
Shoreline Map Manuscript T-8571

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

28. Detailing.-

Names of ledges that do not appear on the map manuscript were deleted.

The field photographs covering the area in the northeast section of the map manuscript were not available. This area was reviewed at an earlier date by H. E. Rees. (Report filed in the descriptive report ~~for the northeastern portion of T-8571~~)

31. Low Water and Shoal Lines.-

<sup>symbol for the</sup>  
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 without removing part of the ledge or boulder symbols, since they coincide.

32. Details Offshore from the High Water Line.-

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

44. Comparison with Existing Topographic Surveys.-

USGS Swans Island Quadrangle	1:62,500	1945
T-1396	1:10,000	1875
T-1397a	1:10,000	1875
T-1351 bis	1:10,000	1877

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

A small island southeast of Scrag Island on the Quadrangle, is shown as a rock awash on the map manuscript.

Five piers in Lunt Harbor on the map manuscript are not shown on the surveys.

There are minor differences in shoreline and extent of reefs over the entire area.

45. Comparison with Nautical Charts.-

Chart No. 308	1:40,000	1942 Corr. 1947
1202	1:80,000	1932 Corr. 1946

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

Rocks awash, shown on the charts southeast of John Island, south of Harbor Island and at Otter Ledge are not shown on the map manuscript.

Shoreline at Lunt Harbor, Heron Island, Brimstone Island, and northwest of Frenchboro.

A small island and rock awash south of Harbor Island are not shown on the charts.

The map manuscript has been partially applied to nautical charts.

Reviewed by:

Reviewed under direction of:

*Charles Theurer*

C. Theurer  
12-9-47

*S. V. Griffith*

S. V. Griffith  
Chief, Review Section

APPROVED:

*B. J. Adams 12/47*  
Technical Asst. to the  
Chief, Div. of Photogrammetry

*J. R. ...*  
Chief, Nautical Chart Br.  
Division of Charts

*K. T. Adams*  
Chief, Div. of Photogrammetry

*C. K. Green*  
Chief, Div. of Coastal Surveys

# NAUTICAL CHARTS BRANCH

SURVEY NO. T 8571

## Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
9/19/45	308	Benson	Before <del>After</del> Verification and Review <i>Partially</i>
2/14/46	1202	Pisegani	Applied thru 308. Examined for critical information only.
			Before After Verification and Review
10/28/46	308	J. Walker	Before <del>After</del> Verification and Review <i>Partially</i>
			<i>Re-examined - additional rocks &amp; reefs added</i>
4/8/57	Reconst 308	J. Walker	<del>Before</del> After Verification and Review <i>Completely</i>
			Before After Verification and Review
			Before After Verification and Review
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			Before After Verification and Review

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.