

8569

8569

Diag'd. on Diag. Cjt. No. 1202

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Photographic Shoreline

Field No. CS-272 Office No. T-8569

LOCALITY

State Maine

General locality Blue Hill Bay

Locality Pond, Opeches & Black Islands

1944

CHIEF OF PARTY

D. E. Sturmer

LIBRARY & ARCHIVES

DATE Dec 15 - 1949

## DATA RECORD

T-8569

Quadrangle (II): Swan Island, Maine  
(Northwest portion)

Project No. (II): CS-272

Field Office:  
Air Photographic Party No. 2

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

Compilation Office:  
Baltimore Photogrammetric Office

Chief of Party: Fred. L. Peacock

Instructions dated (II III):

April 1, 1942 (Additional)

July 10, 1943 (Horizontal Control Requirements)

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

Completed surveys received in office:

August 10, 1944 (Additional)

August 26, 1944 (Amendment to Additional Instructions)

Reported to Nautical Chart Section:

Copy filed in *Division of*  
Descriptive  
~~Report No. T~~ ~~(VI)~~

*Photogrammetry*  
*Office Files.*

Reviewed: *7/26/45* Applied to chart No. *308* Date:  
(*partially*)

Redrafting Completed: —

Registered: *11/23/49*

Published:

Compilation Scale: 1:10,000

Published Scale:

Scale Factor (III): 1.0000

Geographic Datum (III):

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

North American, 1927

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

Lat.:  $44^{\circ}12'06.395''$  197.4m Long.:  $68^{\circ}27'16.616''$  368.9m. Adjusted  
~~Used~~ ~~adjusted~~ ~~x~~

State Plane Coordinates (VI):

X =

Y =

Military Grid Zone (VI)

(Unmounted - Single lens ratioed prints)

**PHOTOGRAPHS (III)**

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
		E.S.T.		
C-1395 to C-1397				
Incl.	5-29-44	10:45 A.M.	1:10,000	1.2' above M.L.W.
C-1443 to C-1445				
Incl.	5-29-44	11:30 A.M.	1:10,000	2' above M.L.W.
C-1792	6-5-44	3:30 P.M.	1:10,000	0.5' above M.L.W.
C-2097	6-23-44	10:45 A.M.	1:10,000	8' above M.L.W.

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

**Camera:** (Kind or source) U.S. Coast & Geodetic 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:** August, Sept. 1944

**Field Edit by:** **date:**

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

**Projection and Grids ruled by (III) S. R. (Wash. )** **date:** January 7, 1945  
 (Office)

" " " **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:** R. M. Whitson (Shoreline and Interior **date:** March 14, 1945  
 Rough-draft) **date:** April 19, 1945

**Reviewed in compilation office by:** W. E. Schmidt **date:** April 23, 1945

*Map Manuscript*  
**Elevations on ~~Field Edit Sheet~~**  
**checked by:** *Not applicable* **date:**

STATISTICS (III)

Land Area (Sq. Statute Miles): 2½

Shoreline (More than 200 meters to opposite shore): 14 Statute miles

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

Number of Recoverable Topographic Stations established: 6\*

Number of Temporary Hydrographic Stations located by radial plot: 26

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:

\* The positions of three were determined by the radial plot. The positions of the remaining three were determined by ground-survey methods.

FIELD REPORT  
SURVEY No. T-8569  
COAST OF MAINE -- VICINITY OF OPECHEE ISLAND

1. DESCRIPTION OF THE AREA:

Survey No. T-8569 covers an area lying between Blue Hill Bay, and the junction of Jericho Bay and Eggemoggin Beach, Maine. The main land features contained within the area of the Survey consist entirely of islands. The off-lying features consist of islets, rock ledge, rocks, and reefs. The more important features are Opechee Island, Black Island, and Pond Island.

The shoreline consists mainly of ledge rock, with ledge rock, boulders, gravel, and mud flats, in the foreshore area. The interior areas of the island are, in general, hilly, and for the most part are covered with tall coniferous trees. There are a few grass, brush, and rock outcrop areas.

There are no prominent bluffs or cliffs situated within the area of the Survey.

2. COMPLETENESS OF FIELD INSPECTION:

The field inspection of the shoreline and offshore features is complete, except for off-lying reefs and rocks awash not visible on the photographs. The charting detail for these features will become available during contemplated hydrography.

3. INTERPRETATION OF FIELD INSPECTION:

The Field Units have made sufficient notes on the field inspection photographs to enable the compiler to make additional interpretations of the photographs by analogy where necessary.

4. HORIZONTAL CONTROL:

The intersection triangulation station SHIP AND BARGES LEDGE, NORTH BEACON, 1934, was recovered. The pricked position of the station, however, on field photograph No. 44-C-2097 is doubtful. The image of the beacon was not visible on any of the photographs. Stereoscopic transfer of the pricked position of the station on photograph No. 44-C-2097 to overlapping photographs was doubtful because it was quite impossible to select definite points of correspondence. The station could not be held to in the radial plot.

*See Review Report*

Additional horizontal ground control was established in accordance with instructions for Project No. CS-272-E, dated August 10, 1944, and Additional Instructions, dated August 26, 1944.

All observing was done with a 7" theodolite, except for station Song, 1944. Observations for that station were taken with a 4" theodolite. In most cases, 6 D/R were observed, but occasionally where isolated stations had a strong three-point fix, only 3 D/R were observed with the 7" theodolite. A few cuts to natural objects were taken using the theodolite as a direction instrument and observing two rounds, direct and reverse. A check angle was observed on all three-point fixes where conditions permitted.

All of the additional stations were marked with standard topographic station discs.

The additional horizontal ground control stations, established by the Field Unit, appearing on the Map Drawing for Survey No. T-8569 are as follows:

Ten Recoverable Topographic Stations:

- (a) Eagle, 1944
- (a) Pec, 1944
- (a) Pond, 1944
- Been, 1944
- Duky, 1944
- Hon, 1944
- Lop, 1944
- Pla, 1944
- Round, 1944
- Song, 1944

- (a) Stations fall within the detail limits of the Map Drawing. All other stations listed above fall just outside the detail limits.

7. MEAN HIGH-WATER LINE:

All of the Mean High-Water Line was inspected either from a dingy kept close to shore or by traversing on foot. The greater part was done from dingy. Where the Mean High-Water Line could not be identified on the photographs, reference measurements were taken or the distance estimated from the grass line, tree line, or some other well defined picture reference point. In some instances the Mean High-Water Line was measured out, the distance then scaled on the photographs and the intervening shoreline drawn in similar to the method used with a planetable.

Alongshore rocks, and offshore rocks and islets above the plane of Mean High-Water revealed by photography have been shown on the field photographs. The elevation above Mean High-Water has been noted.

8. MEAN LOW-WATER LINE:

The Mean Low-Water Line was inspected at or near Mean Low-Water whenever it was practical to do so.

On photographs taken at or near Mean Low-Water the approximate position of the Mean Low-Water Line was put on the field prints at the office with the aid of a simple viewing stereoscope. The line as delineated was then checked in the field whenever it was practical to do so, with such changes being made as necessary.

The position of the Mean Low-Water Line for the area of Survey No. T-8569 is approximate.

9. WEARVES AND SHORELINE STRUCTURES:

There are no shoreline structures. The ruins of a pier have been identified on field print No. 44-C-1396.

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

As many offshore rocks and reefs between the planes of Mean Low-Water and Mean High-Water were inspected as was practical. The extents to which they uncovered or bared at the time of inspection, with the time and date, have been noted on the field prints.

11. LANDMARKS AND FIXED AIDS TO NAVIGATION:

One new landmark "CHIMNEY" situated on Pond Island.

Two previously charted fixed aids to navigation, SHIP AND BARGES LEDGE NORTH BEACON, and SHIP AND BARGES BEACON.

12. HYDROGRAPHIC CONTROL:

Six Recoverable Topographic Stations.  
Twenty-Six Temporary Hydrographic Stations.

Descriptions have been furnished.

16. BUILDINGS AND STRUCTURES:

Six buildings - two situated on Pond Island, and four on Opechee Island.

18. GEOGRAPHIC NAMES:

No investigation.

COMPILATION REPORT  
Map Drawing, Survey No. T-8569  
Coast of Maine  
Project No. CS-272

Although the area of this Map Drawing lies entirely within the area where shoreline surveys only are instructed, the areas of the islands involved were considered small and have, therefore, been completely detailed.

26 CONTROL:

The horizontal ground control shown consists of seventeen stations. They are as follows:

Six stations within detail limits:

<u>Name of Station</u>	<u>Type of Station</u>
BOWES, 1934, r. 1944	Triangulation
Eagle, 1944 (d)	Topographic
Pec, 1944 (d)	Topographic
Pond, 1944 (d)	Topographic
SHIP AND BARGES BN., 1908, r. 1944	Intersection
SHIP AND BARGES LEDGE, NORTH BN. 1934, r. 1944	Intersection ✓

Eleven stations just outside detail limits:

<u>Name of Station</u>	<u>Type of Station</u>
BAR ISLAND 2, 1934, r. 1944	Triangulation
Been, 1944 (d)	Topographic
BLUE HILL BAY L.H., 1864, r. 1944	Intersection
Duky, 1944 (d)	Topographic
EGG ROCK BN., 1907, r. 1944	Intersection
Hon, 1944 (d)	Topographic
Lop, 1944 (d)	Topographic
Pla, 1944 (d)	Topographic
PLACENTIA ISLAND, 1908, r. 1944	Triangulation
Round, 1944 (d)	Topographic
Song, 1944 (d)	Topographic

27 RADIAL PLOT:

The radial plot for the area of this Survey was made at the Washington Office and is part of a combined plot laid with celluloid templets.



The control density, control identification (except for stations Song, 1944, and SHIP AND BARGES LEDGE, NORTH BEACON, 1934) and the photographic coverage were adequate. Field Identification of Station Song, 1944, erroneous, was satisfactorily reidentified on the photographs from its description and was held to in the radial plot. Station SHIP AND BARGES LEDGE, NORTH BEACON, 1934, unsatisfactorily identified in the field and could not be held to in the radial plot.

The results obtained from the radial plot were satisfactory.

The facts concerning the radial plot 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 the area of Map Drawing, Survey No. T-8572 previously submitted.

28. DETAILING:

The photography, horizontal ground control, and the additional radially plotted control points available for the compilation were adequate. The field data, except for drainage, were also adequate. The drainage shown has been detailed in accordance with the Compilation Office interpretation of the photographs.

30 MEAN HIGH WATER LINE:

Detailed in accordance with the field data and shown with a continuous heavy weight black acid ink line.

31. MEAN LOW-WATER LINE:

Detailed in accordance with the field data and shown with a dotted black acid ink line. The position is approximate.

31-A LIMITS OF SHOAL AREAS:

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

*Areas detached from MHWL are shoals or reefs; areas bordering and continuous with the MHWL line are termed "shallow".*

31-B REEF LINES:

Detailed in accordance with the Compilation Office interpretation of the photographs and shown with a short dash black acid ink line, accompanied by either of the notes "Reef", or "Submerged Ledge". They have been shown for the advance information of the Hydrographic Parties only.

31-C FORESHORE AREAS:

The foreshore details consist of rock ledge, rocks awash; bare rocks, a few boulder and gravel areas, and mud flats.

Detailed in accordance with the field data and shown with conventional symbols, accompanied by pertinent notes.

32 DETAILS OFFSHORE FROM THE MEAN HIGH-WATER LINE:

The offshore details consist of rocks, reefs, rocky islets, and shoal areas. They are complete to the extent that the field inspection data and stereoscopic examinations of the photographs were made possible.

33 WHARVES AND SHORELINE STRUCTURES:

A small pier in ruins situated on the east shore of Opechee Island has been shown, accompanied by a pertinent note.

34 LANDMARKS AND FIXED AIDS TO NAVIGATION:

One new landmark, "CHIMNEY", situated on Pond Island. Form No. 567 has been submitted.

Two charted fixed aids to navigation, SHIP AND BARGES BEACON, and SHIP AND BARGES LEDGE, NORTH BEACON, situated on Ship and Barges Ledge. Positions determined by triangulation in 1908 and 1934, respectively.

35. HYDROGRAPHIC CONTROL:

Six Recoverable Topographic Stations - three located by ground-survey methods; three located by the radial plot. Form No. 524 has been submitted.

Twenty-six Temporary Hydrographic Stations - all located by the radial plot.

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

37 GEOGRAPHIC NAMES:

The geographic names shown have been taken from Nautical Chart No. 308.

38 JUNCTIONS:

Junction of details with Map Drawing, Survey No. T-8570, to the south has been made and is in agreement.

\*

Since the eastern and western detail limits of the Map Drawing pass through all water areas, no junction of details need be considered.

39 POSITION ACCURACY OF PLANIMETRIC DETAILS:

The Mean High-Water Line, Recoverable Topographic Stations, temporary hydrographic stations, and all other well defined planimetric details of importance are believed to be within 0.5 mm of their true positions.

40 RECOMMENDATIONS FOR FUTURE SURVEYS:

The compilation is complete with respect to all details necessary for charting, except those not obtainable from the photographs and which will become available through contemplated hydrographic surveys. A list of these is included in "Notes for the Hydrographic Parties". One copy is attached to this report and two additional copies have been furnished for use of the Hydrographic Parties.

44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

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

Map Drawing - Several small ponds situated in a marsh area in the northern part of Pond Island have been shown.

Quadrangle - None.

Map Drawing - Pier in ruins shown on the eastern shore of Opechee Island.

Quadrangle - None

Map Drawing - Two buildings shown on Pond Island - four on Opechee Island.

Quadrangle - One on Pond Island.

Map Drawing - Several small threads of drainage have been shown.

Quadrangle - None.

\*Junction of details with Map Drawing, Survey No. T-8568, to the north has been made and is in agreement.

45 COMPARISON WITH NAUTICAL CHARTS:

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

The following charted features have not been shown on the Map Drawing, because they were neither identified by the Field Unit nor visible on any of the photographs. The areas in which those features are situated have, in general, been shown on the Map Drawing with either the rock ledge symbol or reef outline.

Two rocks awash just south of Johns Island.

Rock awash south of Opechee Island and lying between Black and Johns Islands.

Rock awash at latitude  $44^{\circ} 11.6'$  and longitude  $68^{\circ} 28.1'$ .

Rock awash lying between Sheep and Eagle Islands.

Three sunken rocks just north of E. Barge.

Rock awash between Trumpet and Ship Islands.

Detached bare rock area - offshore from the western shore of Opechee Island and north of Johns Island.

Two rocks awash - east of Eagle Island.

Rock awash - just south of Black Island.

Two rocks awash and one sunken rock - west of the western shore of Opechee Island.

No buildings appear on the chart. Six buildings have been shown on the Map Drawing.

Several trails have been shown on the Map Drawing. None appear on the chart.

Several small ponds situated in the northern portion of Pond Island have been shown on the Map Drawing. Only two appear on the chart.

Additional drainage has been shown on the Map Drawing.

The ruins of a pier on the eastern shore of Opechee Island has been shown on the Map Drawing. Not shown on the chart.

45 COMPARISON WITH NAUTICAL CHARTS: (Continued)

The extents of the rock ledge areas shown on the Map Drawing are greater than those charted.

Additional rocks awash and detached bare rock areas have been shown on the Map Drawing.

The charted cable crossing area has not been shown on the Map Drawing. No field data were furnished.

No bluffs have been shown on the Map Drawing. Several stretches of the charted Mean High-Water Line are accompanied by the bluff symbol. The Field Unit reported no prominent bluffs within the area of the Survey. Stereoscopic examination of the photographs did not reveal any prominent bluffs.

2-3-4

Drainage shown has been detailed in accordance with the Field Office interpretation of the photographs.

Respectfully Submitted,  
April 25, 1945

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Walter E. Schmidt  
Photogrammetric Engineer

8069

Form 567  
April 1945

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED } STRIKE OUT ONE  
TO BE DELETED } ~~TO BE DELETED~~

Baltimore, Maryland April 21, 1945

I recommend that the following objects which have (~~have been~~) been inspected from seaward to determine their value as landmarks be charted on (~~deleted from~~) the charts indicated.  
The positions given have been checked after listing by \_\_\_\_\_

Fred. L. Peacock Chief of Party.

STATE	POND ISLAND, MAINE		SIGNAL NAME		* POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
	CHARTING NAME	DESCRIPTION	LATITUDE	LONGITUDE	D.M. METERS		D.P. METERS	DATUM						
					° ' "	° ' "								
	CHIMNEY, east, house (2-story)		44 13	68 28	512 <del>922</del>	922 <del>512</del>	N.A. 1927		Air Photo Compilation	Field Inspection Aug. 9, 1944				307 308 1202
									* Position scaled from Map Drawing, Survey No. T-8569.					
					Scaled by:				Ruth M. Whitson Engineering Draftsman					
					Checked by:				Walter E. Schmidt, Photogrammetric Engineer					

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by

GEOGRAPHIC NAMES

(Undisputed)

Black Island •  
Blue Hill Bay \*  
Casco Passage •  
Eagle Island •  
East Barge •  
Johns Island \*  
Lamp Island •  
Opechee Island \*  
Pond Island •  
Sheep Island •  
Ship and Barges Ledge •  
Ship Island •  
Trumpet Island •  
West Barge •

• = correct name

\* = Decis. of BGN

Names approved 11-23-49

a. j. w.



REVIEW REPORT FOR SURVEY T-8569

27. RADIAL PLOT AND CONTROL:

The radial plot for this survey was satisfactory.

The control was adequate and held very well, except for station "Ship and Barges Ledge, North Beacon, 1934". The identification of this station by the field party was unsatisfactory.

28. DETAILING:

The topography of this area has been very well depicted by the compiler.

30. MEAN HIGH-WATER LINE:

This feature has been detailed in accordance with the field data.

38. JUNCTIONS:

To the east, south and west junctions are complete and satisfactory. Survey No. T-8568, to the north, is still in the Compilation Office at this date and it will be necessary to complete that junction when it arrives in Washington <sup>Junction</sup> ~~completed~~. A small area in the vicinity of Ship Island on T-8569 could not be reviewed, since the photographs were needed for the compilation of T-8568.

43. COMPARISON WITH PREVIOUS TOPOGRAPHIC SURVEYS:

T-1397b 1:10,000 1875  
*This map supersedes T-1397b for nautical charting purposes.*

44. COMPARISON WITH QUADS:

U.S.G.S. Swan Island, Maine 15', 1:62,500 1945

Discrepancies noted have been listed in the Compilation Descriptive Report.

45. COMPARISON WITH NAUTICAL CHARTS:

This map was not applied to charts before review.

227	1:20,000	Feb. 1944
307	1:40,000	Aug. 1943
308	1:40,000	Dec. 1942
1202	1:80,000	May 1932

Discrepancies noted between the map and charts have been listed in the Compilation Descriptive Report. Additions *to the manuscript* in red ink were found during review.

Reviewed by:

Reviewed under direction of:

Harold R. Brooks  
Harold R. Brooks *K.H.M.*  
July 26, 1945

R. M. Berry  
Ralph Moore Berry *R.M.B.*  
July 27, 1945

APPROVED BY:

B.G. Jones 12/49  
Technical Assistant to the  
Chief, Div. of Photogrammetry

H. R. Edmouglon  
Chief, Nautical Chart Branch  
Division of Charts

O. S. Reading  
Chief, Div. of Photogrammetry

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

1944  
 IDENTIFICATION REPORT  
 HORIZONTAL CONTROL  
 MAP DRAWING, SURVEY No. T-8569

	<u>Type Station</u>	<u>U.S.G.S. Quadrangle</u>	<u>Recovery Data</u>	<u>Pricking Data</u>
BOWES, 1934	Triangulation	Swan Island	Recovered	Positive
Eagle, 1944	Topographic	Swan Island	New Station	Positive
Pec, 1944	Topographic	Swan Island	New Station	Positive
Pond, 1944	Topographic	Swan Island	New Station	Positive
SHIP AND BARGES BEACON, 1908	Intersection	Swan Island	Recovered	Positive
SHIP AND BARGES LEDGE, NORTH BEACON, 1934	Intersection	Swan Island	Recovered	Doubtful
BAR ISLAND 2, 1934	Triangulation	Mount Desert	Recovered	Positive
Been, 1944	Topographic	Swan Island	New Station	Positive
Blue Hill Bay L.H., 1864	Intersection	Swan Island	Recovered	Positive
Duky, 1944	Topographic	Mount Desert	New Station	Positive
EGG ROCK BEACON, 1907	Intersection	Deer Isle	Recovered	Positive
Hon, 1944	Topographic	Deer Isle	New Station	Positive
Lop, 1944	Topographic	Swan Island	New Station	Positive
Pla, 1944	Topographic	Swan Island	New Station	Positive
PLACENTIA ISLAND, 1908	Triangulation	Swan Island	Recovered	Positive
Round, 1944	Topographic	Swan Island	New Station	Positive
Song, 1944	Topographic	Swan Island	New Station	Positive

NOTES  
FOR  
REVIEWER

MAP DRAWING, SURVEY No. T-8569  
Coast of Maine  
Project No. CS-272

All detail has been shown with the conventional symbols.

The small single blue ink circles are the positions of well defined picture points determined by the intersection of three or more radials considered very strong.

The small green ink circles are the positions of well defined picture points determined by the wide angle intersection of two radials or the slim angle intersection of three or more radials considered fairly strong and within the satisfactory limit of accuracy.

The large blue ink circles are the very strong positions of the photograph centers determined by the radial plot. The large green ink circles are the fairly strong positions of the photograph centers determined by the Radial plot considered to be within satisfactory limit of accuracy.

The  $2\frac{1}{2}$  mm. black acid ink circles are the positions of the Recoverable Topographic Stations, and the positions of the temporary hydrographic stations. Circles accompanied by a three or four letter name and date (1944) are the positions of Recoverable Topographic Stations located by ground-survey methods during the 1944 field season. The positions of all other hydrographic control stations were determined by the radial plot.

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

The limits of shoal areas and reef areas shown are approximate and have been detailed in accordance with Field Office interpretation of the photographs.

All charted features not shown on the Map Drawing (see Side Heading No. 45 - Descriptive Report for Map Drawing, Survey No. T-8569) have been called to the attention of the Hydrographic Party in the "Notes for Hydrographic Parties" for the area of this Survey.

The photographs contain no appreciable tilt or differential distortions.

Respectfully Submitted,  
May 1, 1945

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Walter E. Schmidt  
Photogrammetric Engineer

Approved and Forwarded  
May 1, 1945

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

No. 1139 - Center of small water filled depression in ledge. 7" x 8" log placed across depression and weighed down with pieces of ledge to aid recovery. (3')

No. 1140 - CHIMNEY  
Station is the easterly chimney of a two-story, L-shaped, unpainted house, located just south of the highest part of Pond Island in southern Blue Hill Bay. House is very conspicuous in all directions except North. (100')

Recoverable Topographic Station. Also landmark

No. 1141 - West gable of small shack on point. (15')

No. 1142 - Tall evergreen at edge of line of vegetation. (50')

No. 1143 - Top of northernmost of two large black boulders on beach. Top of boulder is about 12 ft. high. Approximately 10 meters offshore from High Water Line. (10')

No. 1144 - 20 ft. evergreen standing along on hill

No. 1145 - 10 ft. bushy evergreen

No. 1146 - Black piece of ledge one meter above and one meter inshore from High Water Line, about 20 meters west of small point.

No. 1147 - 12 ft. evergreen

No. 1148 - 25 ft. evergreen

No. 1149 - Point of grass, pieces of ledge piled to aid recovery.

No. 1150 - Center of opening in brush on brush line. 4' x 8" log with pieces of ledge piled around to aid recovery. 6 meters to H.W.L. (4')

No. 1151 - 12 ft. evergreen

No. 1152 - Point formed by dead marsh grass which is higher high water mark. Pieces of ledge piled on point to aid recovery.

8569

No. 1154 - Large Boulder

Station is a huge boulder about 10 ft. high on the southern tip of Sheep Island in southern Blue Hill Bay. Station is 50 meters from M.H.W.L. at southern tip of island and 6 meters west of M.H.W.L. (15')

Recoverable Topographic Station

No. 1155 - Huge outcrop of ledge about 7 ft high on north center of Sheep Island in Blue Hill Bay. 66 meters to H.W.L. (20')

No. 1156 - Chimney at North Gable of House

Station is the chimney near the north gable of 1½ story, unpainted house, located on the southern side of a small cove on the eastern side of Opechee Island in southern Blue Hill Bay, 290 meters northwest of most easterly point of Island, 80 meters east of <sup>head of</sup> cove and 10 meters south of Mean High Water Line. Chimney is 3 ft. south of north gable and 3 ft. east of ridge of roof. (30')

Recoverable Topographic Station

No. 1157 - Large white top, outcrop of ledge

No. 1300 - 15 ft. evergreen (20')

No. 1301 - 20 ft. evergreen (30')

No. 1302 - 6 ft. evergreen (16')

No. 1303 - Center of depression in rock ledge with ledge piled around stick to aid recovery (6')

No. 1304 - also 1153 - (identical stations)  
15 ft. evergreen (25')

No. 1305 - 30 ft. evergreen (40')

No. 1306 - 6 ft. evergreen (16')

No. 1391 - Evergreen (10')

No. 1392 - Evergreen (10')

No. 1393 - Evergreen (5')

No. 1394 - Evergreen (5')

8569

8569

POND, 1944

Station is located on the northeast point of Pond Island in southern Blue Hill Bay, about 90 meters east of most northerly point; is set so Blue Hill Bay L.H. can be seen past the N.E. tip of Lamp Island, and is about 18 meters north of tree line. Mark is a standard disc stamped "POND, 1944". Located by ground survey methods.

Recoverable Topographic Station.

EAGLE, 1944

Station is on the east side of Eagle Island, which is in the southwest part of Blue Hill Bay, about midway of east side of Island, 8 meters west of M.H.W. Line, 5 meters outside tree line and 2.5 meters N.W. of black boulder (about 3 ft. long) on ledge. Station is a standard topographic disc stamped "EAGLE, 1944". Located by ground survey methods.

Recoverable Topographic Station.

PEC, 1944

Station is a standard topographic disc, stamped "PEC, 1944" set in a drill hole in ledge rock. Ledge is a small island just off the northwest tip of Opechee Island in the N.E. part of Jericho Bay. The area inshore from the Island bares at low water. Station is about 13 meters west of most northerly and westerly tip of grass point. Located by ground survey methods.

Recoverable Topographic Station.

8569



# NAUTICAL CHARTS BRANCH

SURVEY NO. T 8569

## Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
9/11/45	308	Benson	<del>Before</del> After Verification and Review <i>Partially</i>
2/14/46	1202	Riccardi	<i>Applied thru Chrt 308. Examined for critical information only.</i> <del>Before</del> After Verification and Review
10/23/46	308	J. J. Walker	<del>Before</del> After Verification and Review <i>Partially</i> <i>Re-examined-additional rocks &amp; reefs added</i>
4/4/57	Reconst 308	J. J. Walker	<del>Before</del> After Verification and Review <i>Completely</i>
1/7/62	308 Recon.	Norfolk Office	<del>Before</del> After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

# NAUTICAL CHARTS BRANCH

SURVEY NO. T 8569

## Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
9/11/50	227	J. J. Walker	<del>Before</del> After Verification and Review <i>Partially</i> (added one rock awash west of Johns I.)
1-25-52	227	M. Madros	<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
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

COAST OF MAINE  
PROJECT NO. CS - 272

Descriptions of Recoverable Topographic Stations and  
temporary hydrographic stations for the area of Map Drawing  
Survey No. T-8569.

Number of Recoverable Topographic Stations -----	6
Number of temporary hydrographic stations ----	<u>26</u>
Total number of Stations -	32

The notations such as (15') in the descriptions denote the  
approximate elevation of the station above the high water  
mark.

Listed by: Ruth M. Whitson

Checked by: Walter E. Schmidt

NOTES  
FOR  
HYDROGRAPHIC PARTIES

MAP DRAWING, SURVEY No. T-8569  
Coast of Maine  
Project No. CS-272

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

The limits of shoal areas and reef areas shown with dashed lines (the dash of the shoal line is longer than the dash of the reef line) are approximate. Detailed in accordance with the Compilation Office interpretation of the photographs for your advance information.

The position of the Mean Low-Water Line (dotted line) is approximate. Detailed in accordance with the field data.

All important details shown are considered to be within 0.5 mm. of their true positions.

Details of the following charted features (Chart No. 308) could not be obtained from the air photographs and, therefore, should be obtained during hydrography.

Two rocks awash - just south of Johns Island.

Rock awash - south of Opechee Island and lying between Black and Johns Islands.

Rock awash - at latitude  $44^{\circ} 11.6'$  and longitude  $68^{\circ} 28.1'$ .

Rock awash - lying between Sheep and Eagle Islands.

Three sunken rocks - just north of E. Barge.

Rock awash - between Trumpet and Ship Islands (no detail has been shown on the Map Drawing).

Detached bare rock area - offshore from the western shore of Opechee Island and north of Johns Island.

Two rocks awash - east of Eagle Island.

Two rocks awash and one sunken rock - west of the western shore of Opechee Island.

## Notes for Hydrographic Parties

The charted cable crossing between Lopaus Point on Mt. Desert Island to Swans Island has not been shown on the Map Drawing, because no field data were furnished. The point at which the cable comes ashore at Lopaus Point might well be verified by the Hydrographic Party, if practicable.

Respectfully Submitted,  
April 25, 1945

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Walter E. Schmidt,  
Photogrammetric Engineer

T-8569

20 W  
80 ft  
83 ft  
70 ft  
78 ft  
23  
JAN 22 AM 9 00

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
SOUTHEASTERN DISTRICT HEADQUARTERS  
ROOM 418, U. S. POST OFFICE BUILDING  
NORFOLK 10, VIRGINIA

19 January 1951

To: The Director  
U. S. Coast and Geodetic Survey  
Department of Commerce Bldg.  
Washington 25, D. C.

Subject: Shoal Soundings, Casco Passage, Maine - Chart No. 227.

*78 - insert this letter in Desc. Report T8569*

Recently when I visited the Washington Office Mr. B. G. Jones, of the Division of Photogrammetry, made inquiry about two shoal soundings in Casco Passage, Maine on Chart No. 227. One of these soundings, indicating a depth of 8 feet, was located in Latitude 44° 11.65' Longitude 68° 28.50', and the other, indicating a depth of 3 feet, was in Latitude 44° 11.75' Longitude 68° 28.30'. *insert*

*T-8569  
C5272-E*

These soundings were reported by the Ship GILBERT during the past season while making hydrographic surveys in Casco Passage area, but on the field inspection photographs it had been noted that there were rocks awash at MLW. Consequently, the notes made by the field inspection party were difficult to reconcile with the reports made by the Ship GILBERT.

The smooth plotting of the hydrographic sheet for these spots has been completed in this office, and in the position of the 8 ft. sounding the final reduction gives 7 ft., and in the case of the 3 ft. sounding the reduced sounding is 3½ ft. In the descriptive report for this sheet the following note is given for the 8 ft. sounding where a charted rock was formerly shown: "This charted rock awash does not exist. The area was examined at MLW. Close development shows a depth of 8'." In the report where the 3 ft. sounding is now charted and where formerly a rock ledge had been charted, there is the following note: "The chart shows a rock ledge here, bare at MLW. There is a rock ledge here, but it is not bare at MLW. The area was examined at MLW. Close development shows 3½ ft. as the least depth."

*The 10/23/50 rep. of Chart 227 gives the 8' & 3' sounding figures only.*

*T-8569 registered copy revised (Jan. 29, 1950) LTS*

The hydrographic investigation of these two spots has been discussed with Lieut. Woodcock, who assisted in this work, and he stated definitely that both spots had been carefully examined at a time when the tide was approximately -1.0 ft. and that there was no indication of a rock in either place. Inquiry was also made of him as to whether there were any white-wash signals in this area which would facilitate further investigation, and he stated that there was.

*3ft. shoal: o.k.  
7ft. Shoal:  
Sunken rock plotted.  
H-7834, Review par 1a(2)  
5/22/51  
G.F.J.*

*Earl O. Heaton*  
Earl O. Heaton  
Captain, USC&GS  
Supervisor, SE Dist.

EOH:m