

5989

Diag'd. on Diag. Ch. No. 1204-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Planimetric Air Photographic  
Type of Survey (Shoreline)

Field No. CS-272-B Office No. T-5989

LOCALITY

State Maine

General locality Coast of Maine

Locality Sheepscot River - Booth Bay

(Inset: The Sisters)

194 3

CHIEF OF PARTY

F.L. Peacock

LIBRARY & ARCHIVES

DATE April 13 - 1949

B-1870-1 (1)

5989

## DATA RECORD

T-5989

Quadrangle (II):  
Boothbay, Maine (U.S.G.S.)

Project No. (II):  
CS 272-B

Field Office:  
U.S.C.&G.S., Bath, Maine

Chief of Party:  
Henry O. Fortin

Compilation Office:  
Air Photographic Party No. 2  
Baltimore, Maryland

Chief of Party:  
Fred. L. Peacock

Instructions dated (II III):  
January 12, and April 1, 1942

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

Completed survey received in office: 19 June, 1943

Reported to Nautical Chart Section:

Reviewed: 26 July, 1945 Applied to chart No. <sup>238</sup><sub>314</sub> Date: 4 July, 1945  
11 Sept. 1946

Redrafting Completed: 26 Nov. 1947

Registered: ~~March 1947~~  
~~April 1948~~

Published: Shoreline (Vault copy only)

Compilation Scale: 1:9670

Published Scale: 1:10000

Scale Factor (III): 1.03413

Geographic Datum (III): N.A. 1927 Datum Plane (III): <sup>MHW</sup>~~Mean Sea Level~~

Reference Station (III): Griffiths Head, 1857, 1934, r. 1942

Lat.: 43° 46' ~~56.61"~~ 56.586" 1746.4m Long.: 69° 43' ~~16.99"~~ 19.014" 425.2m <sup>Adjusted</sup>  
~~1747.1m.~~ ~~424.6m.~~ <sup>Adjusted</sup>  
Unadjusted  
(Field)

State Plane Coordinates (VI): East Zone 2

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
7011	10-20-41	8:58 A.M.	1:10,000	9.4' above M. L. W.
7033	10-20-41	9:20 A.M.	1:10,000	9.9' above M. L. W.
7034 & 7035	10-20-41	9:21 A.M.	1:10,000	9.9' above M. L. W.
7036	10-20-41	9:22 A.M.	1:10,000	9.9' above M. L. W.
7041 & 7042	10-20-41	9:35 A.M.	1:10,000	10.1' above M. L. W.
7070 & 7071	10-20-41	9:58 A.M.	1:10,000	10.2' above M. L. W.
7078	10-20-41	10:35 A.M.	1:10,000	10.1' above M. L. W.
7106	10-20-41	10:55 A.M.	1:10,000	9.8' above M. L. W.
7107	10-20-41	10:57 A.M.	1:10,000	9.8' above M. L. W.

Tide from (III): Portland, Maine with time correction to Herman Harbor,  
 Sheepscot River, Maine  
 Mean Range: 8.5' Spring Range: 9.7'

Camera: (Kind or source) U. S. Coast & Geodetic Survey, nine lens camera  
 (focal length 8 $\frac{1}{4}$ "). All negatives are on file in the Washington Office.

Field Inspection by: Lieut. Henry O. Fortin date: Fall, 1942

Field Edit by: None date:

Date of Mean High-Water Line Location (III): October 20, 1941

Projection and Grids ruled by (III) W.D.H. date: Feb. 12, 1943

" " " checked by: John C. O'Neill date: Feb. 13, 1943

Control plotted by: Ruth M. Whitson date: Feb. 16, 17, 1943

Control checked by: Walter E. Schmidt date: Feb. 18, 1943

Radial Plot by: Walter E. Schmidt date: Feb. 1943

Detailed by: Ruth M. Whitson (Shoreline Rough-Draft) date: Feb. to June 1943

Reviewed in compilation office by: James E. Sunderland date: April to June 1943

Elevations on Field Edit Sheet  
 checked by: None date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 0.5

Shoreline (More than 200 meters to opposite shore): 21 statute miles

Shoreline (Less than 200 meters to opposite shore): 7.5 statute miles

Number of Recoverable Topographic Stations established: 7

Number of Temporary Hydrographic Stations located by radial plot: 65

Leveling (to control contours) - miles: none

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:



26 CONTROL:

The control plotted and control transferred from adjoining map drawings consists of twenty-five (25) U. S. Coast and Geodetic Survey Triangulation Stations and one (1) U. S. Engineers Triangulation Station. They have been shown with the usual triangulation symbol.

The following six (6) U. S. Coast and Geodetic Survey Triangulation Stations fall within the detailed limits of this map drawing:

- \* SQUIRREL ISLAND, SOUTHWEST END, BEACON, 1934, r. 1942.
- \* SQUIRREL ISLAND, CUPOLA, POLE, 1902, (recovery) 1942 incorrect.
- + CAPE NEWAGEN WATER TANK, 1934, r. 1942.
- \* THE CUCKOLDS LIGHT HOUSE, 1909, 1934, r. 1942.
- \* CUCKOLDS FOG SIGNAL, 1902, r. 1942.
- \* GRIFFITHS HEAD, 1857, 1934, r. 1942.

The following Triangulation Stations fall just outside the detail limits of this map drawing:

Nineteen (19) U. S. Coast and Geodetic Survey Triangulation Stations;

- \* PARKERS ISLAND, GENERAL BERRY'S HOUSE CHIMNEY, 1856, Partial recovery 1942.
- \* PARKERS ISLAND, WIDOW P. OLIVER'S HOUSE, 1856, r. 1942 doubtful.
- \* RED CHIMNEY, 1856, r. 1942.
- \* HEEL EDDY, CHIMNEY AT CENTER OF BROWN HOUSE, 1933, r. 1942.
- \* SOUTHPORT LEDGE, 1857, 1933, r. 1942.
- \* THE SISTERS BEACON, 1933, 1934, r. 1942. (in extended limits).
- \*\* HENDRICKS HEAD LIGHT, OLD TOWER, 1934, r. 1942.
- \*\* PARKERS ISLAND, 1855, r. 1942.
- \*\* SOUTHPORT ISLAND, NORTH END, STANDPIPE, 1934, r. 1942.
- \*\* BURNT ISLAND LIGHT HOUSE, 1902, r. 1942.
- \*\* LINEKIN NECK, RED CHIMNEY, 1857, (recovery) 1942 incorrect.
- \*\* WIN, 1909, (recovery) 1942 incorrect.
- \*\* RAM ISLAND LIGHT HOUSE, 1902, 1934, r. 1942.
- \*\* THE HYPOCRITES BEACON, 1934, r. 1942.
- \*\* JACK ROCK BEACON, 1904, 1933, r. 1942.
- \*\* DAMISCOVE COAST GUARD, EAST LOOKOUT TOWER, 1934, r. 1942.
- \*\* DAMISCOVE 2, 1902, 1933, r. 1942.
- \*\* DAMISCOVE COAST GUARD, WEST LOOKOUT TOWER, 1934, r. 1942.
- \*\* DAMISCOVE LOOKOUT, 1902.

One (1) U. S. Engineers Triangulation Station;

- \* STAGE, r. 1942.

\* Stations were plotted and have been shown with black acid ink triangles.



26 CONTROL: (CONT'D.)

+ Station shown on this map drawing with a dashed black acid ink triangle. (N.B.) Refer to report on radial plots, for the area represented on Map Drawings No. T-5985 to T-5994 inclusive, submitted as the appendix to the compiler's report on Map Drawing No. T-5986.

\*\* Stations have been transferred from adjoining map drawings and are shown with red acid ink triangles.

27 RADIAL PLOT:

(N.B.) A special report of the radial plots for map drawings numbers T-5985 to T-5994 inclusive, which includes this map drawing, has been submitted as the appendix to the compiler's report for map drawing number T-5986.  
Filed in Div. of Photogrammetry - General Files

28 DETAILING:

The shore line and immediate adjacent culture have been detailed on this map drawing in accordance with the Director's letters, dated January 12, 1942, and April 1, 1942, pertaining to this Project CS 272-B. Filed in Div. of Photogrammetry - Office Files

All detail on this map drawing has been shown by the standard symbols as recommended by the Washington Office, and notes fully describing any deviation therefrom have been made on the overlay sheet, in order that the planimetry may be clearly interpreted by those concerned.

The limits of this map drawing were extended by attaching a small piece of celluloid so as to include Latitude  $43^{\circ} 44' 0''$  to Latitude  $43^{\circ} 45' 0''$  and Longitude  $69^{\circ} 43' 0''$  to Longitude  $69^{\circ} 44' 0''$ . This was done so that the rocky islets known as The Sisters could be detailed. This area is not included on any other map drawing. Sun spots on the photographs made it difficult to identify objects as minor detail points on The Sisters on more than one photograph. Therefore, tangents were drawn from available photographs and were used to detail the above mentioned area. The location of these islets is considered relatively weak by this compilation office, and it is recommended that a check be made by plane table survey.

*The image of a rock shown on the Map Drawing at Approx. Lat.  $43^{\circ} 45' 20''$  and Long.  $69^{\circ} 43' 23''$  was also very difficult to see on the photographs. Location by two cut intersection. Rock's location doubtful.*  
The projector was used in detailing areas where there was an appreciable scale difference between the photographs and this map drawing. *Shown on manuscript but not carried over to vault copy.*

The field inspection party did not submit any data for either the identification of bluffs or the classification of roads along or adjacent to the shore line. The bluffs were detailed according to stereoscopic examination of the office photographs. Since the character of the bluffs, whether rock or soil, could not be ascertained satisfactorily by this examination, the rock bluff symbol was used only when the compiler was certain that it applied, otherwise the dirt bluff symbol was used. All roads shown have been classified by this office. *(Some road classifications were changed to agree with the 1944 edition of the Booth Bay Quadrangle)*



30 MEAN HIGH-WATER LINE:

The mean high-water line (firm ground) has been shown by a solid heavy-weight black acid ink line, the center of which should be taken as the true position.

31 LOW-WATER AND SHOAL LINES:

The approximate limits of shoal areas have been shown by a dashed light-weight black acid ink line. As all photographs covering this map drawing were taken approximately at the time of mean high-water, the limits of rock ledge could not be identified. Therefore, they were detailed in accordance with the field inspection data and have been shown with a dashed light-weight black acid ink line.

Notes have been made on the overlay sheet to assist in identifying the above mentioned areas. These limits are for use of the hydrographer only. They should not be accepted by any mapping agency as indicating the true position of the Mean Low-Water Line. *the limits of reefs and the low-water line shown on*

*Shoal and reef limits deleted from Map Drawing as Hydrographic Surveys Nos. 6805, 6839, 6840, 6844, and 6858 supersede these approx. limits.*

32 DETAILS OFFSHORE FROM HIGH-WATER LINE:

Rocks, fish-traps, old piling areas, etc., have been shown in accordance with the field inspection data. The extent to which rocks bare at Mean High-Water or Mean Low-Water has been shown by notes on the overlay sheet. *Transferred to map manuscript by reviewer*

The approximate limits of several reefs which were shown by the field inspection party on high-water photographs, have been detailed directly from the field inspection photographs and are shown by a light-weight dashed black acid ink line. Where reefs could be ascertained on the high-water photographs, the limits were shown by a light-weight solid acid ink line. Notes have been made on the overlay sheet to clarify these areas.

33 WHARVES AND SHORE LINE STRUCTURES:

Piers, docks, ~~a marine railway~~, etc., were detailed on this map drawing in accordance with the field inspection data.

34 LAND MARKS AND AIDS TO NAVIGATION:

The following Landmarks and Aids to Navigation have been shown on this map drawing and their geographic positions submitted on Form No. 567:

(No. 272)  
(No. 1228)

+ HOUSE, WHITE (shown on Form 567 and chart section 314-3 attached to Chart Letter 909 (1944))

+ FLAGPOLE, prominent white, in front of log lodge on east side of Southport Island, due West of South end of Squirrel Island.

\* THE CUCKOLDS LIGHT HOUSE (Δ)

\* THE SISTERS BEACON (Δ)

(No. 32) E. Goble

+ COLONIAL HOUSE (shown on Form 567 and chart section 314-3 attached to Chart Letter 909 (1944))

+ Landmark shown with a 2½ mm. black acid ink circle.

\* Aids to Navigation shown with black acid ink triangles.

CHART LETTER 909 (1944)



35 HYDROGRAPHIC CONTROL:

The positions of seven (7) recoverable topographic stations and sixty-five (65) temporary hydrographic stations have been established on this map drawing by radial intersection and shown with  $2\frac{1}{2}$  mm. and  $1\frac{1}{2}$  mm. black acid ink circles respectively. The numbers and descriptions of the recoverable topographic stations and fifty-nine (59) of the temporary hydrographic stations have been noted on the overlay sheet. These fifty-nine (59) stations were selected by the Field Inspection Party. Six (6) of the temporary hydrographic stations were selected by stereoscopic examination in this compilation office, and can be identified by the notation, "See Note A", on the overlay sheet in conjunction with their descriptions. The descriptions and the geographic positions of the following seven (7) recoverable topographic stations have been submitted on Form No. 524: Numbers 32, 260, 277, 284, 324, 486, 1228.

37 JUNCTIONS:

*Ldmk (E. Gable, Colonial Ho.)*

*Ldmk (Flagpole)*

Map Drawing No. T-5972, West side, junction in agreement.  
Map Drawing No. T-5988, North side, junction in agreement.  
Map Drawing No. T-5990, East side, no junction, water area.  
No contemporary survey to the south.

The detailed limits of this map drawing have been extended to Latitude  $43^{\circ} 44'$  between Longitude  $69^{\circ} 43'$  to  $69^{\circ} 44'$ , and have been shown on a small piece of celluloid attached to the map drawing.

39 RECOMMENDATIONS FOR FUTURE SURVEYS:

This map drawing is believed to be complete in all details of importance for charting and no additional surveys are recommended except as mentioned in paragraph 28. It is believed that the probable error in the positions of radial points and well-defined objects along the shore line, is not greater than 0.5 mm.

The error in the positions of inland radial points and details of importance probably does not exceed 1.0 mm.

It is recommended that the review section of the Washington Office refer to the report on the radial plots, (appendix of compiler's report for map drawing No. T-5986), concerning the area of which this map drawing is a part, for a more detailed discussion of the factors determining the probable accuracy.

40 BRIDGES OVER NAVIGABLE WATERS:

All necessary data pertaining to a bridge have been shown by notes on the overlay sheet.

44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

Boothbay Quadrangle, U. S. G. S.; scale 1:62,500;



44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES: (CONT'D.)

edition 1893, reprint 1941.

Due to difference in scale between this map drawing and the above mentioned quadrangle, small planimetric details could not be readily compared. In general, however, planimetric detail common to both is in fair agreement.

45 COMPARISON WITH NAUTICAL CHARTS:

\*\* Chart 314, scale 1:40,000 - date April 1942

\*\* Chart 1204, scale 1:80,000 - date March 1942

Due to difference in scale between this map drawing and the above mentioned charts, small planimetric details could not be readily compared. In general, however, planimetric detail common to both is in fair agreement.

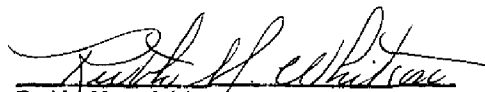
Reviewers note ↗

\* Booth Bay Quadrangle U. S. G. S. (15' series) scale 1:62,500 edition of 1944

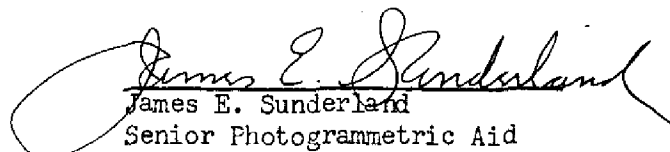
*The planimetric details shown on this quadrangle are in good agreement with those shown on Survey No. J-5989 with the exception of the marsh area shown on the Survey at approximately Latitude  $43^{\circ}47'00''$  and Longitude  $69^{\circ}43'35''$ . This marsh area does not appear on the Quadrangle.*

\*\* No marsh appears on the Charts in the vicinities of Little Pine and Griffith Cove.  
*and houses*  
More roads appear on ~~Charts~~ Survey.


Respectfully submitted  
June 8, 1943

  
Ruth M. Whitson  
Senior Engineering Draftsman

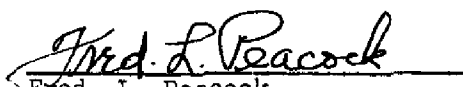
Compilation & Descriptive  
Report Reviewed by

  
James E. Sunderland  
Senior Photogrammetric Aid

Supervised by

  
Walter E. Schmidt  
Asst. Photogrammetric Engineer

Approved & Forwarded  
June 9, 1943

  
Fred. L. Peacock  
Chief, Air Photographic Party No. 2



-  
Geographic Names  
Undisputed

- ✓ • Booth Bay
- ✓ • Cape Island
- ✓ • Cape Harbor
- ✓ • Cape Newagen
- ✓ • Cat Ledges
- ✓ • Christmas Cove
- ✓ • Collector Ledge (Not Shown)
- ✓ • Cranberry Ledge (Not Shown)
- ✓ • Fog Island
- ✓ • Georgetown Island
- ✓ • Griffith Cove
- ✓ • Griffith Head
- ✓ • Griffith Head Ledge (Not Shown)
- ✓ • Herman Harbor
- ✓ • Hunting Island
- ✓ • Little River
- ✓ • Little River Ledges (Not Shown)
- ✓ • Lower Ledge (Not Shown)
- ✓ • Lower Mark Island
- ✓ • Middle Ledges (Not Shown)
- ✓ • Newagen (Village)
- ✓ • Outer Head
- ✓ • Phebe Island
- ✓ • Robinhood Cove
- ✓ • Sheepscot Bay

✓ • Pratt's Island

✓ • Dry Ledge

✓ • Sheepscot River

- ✓ • Sloop Ledge (Not Shown)
- ✓ • Southport Island
- ✓ • Spar Island
- ✓ • Squirrel Cove
- ✓ • Squirrel Island
- ✓ • Sunken Ledge (Not Shown)
- ✓ • The Ark
- ✓ • The Black Rocks
- ✓ • The Cuckolds
- ✓ • The Sisters

✓ • Little Good Harbor

✓ • Wood Island

✓ • Dry Point

✓ • Molly's Head

✓ • Squirrel Island (Village)



Geographic Names  
Disputed

- ~~North East~~ Ledge
- Pratts Island
- Sheepscot River

(U.S.B.G.N.)  
(U.S.B.G.N.)

- Dry Ledge
- ~~Pratt~~ Island (U.S.G.S.)
- ~~Sheepsout~~ River

Names preceded by • are  
approved, L. Heck  
10/2/47

GEOGRAPHIC NAMES



\* The difference between the two surveys is in all probability a difference of interpretation of the MHWL occurring on a wide, gently sloping sand beach. The MHWL on the field inspection photo was determined by a measured distance from an identifiable feature to a point on, what the field inspector determined to be, the MHWL.

Approximately 300 meters of shoreline is shown on T-6928a and the greatest difference is confined to about the first 100 meters immediately south of Griffith Head.

K.H.M. 4/12/49

# Division of Photogrammetry

## Review Report of

Shoreline Map Manuscript T-5989

*July 1945*

### 28. Detailing

Corrections to shoreline and other planimetric detail have been shown in red acetate ink. Explanatory notes were added wherever deemed necessary.

Roads shown with center line only were compiled previously for Nautical Charts and should not be smooth drafted unless noted otherwise. These roads were shown in red acetate ink on the map manuscript.

### 34. Landmarks and Aids to Navigation

Two landmarks "House, White" and "Colonial House" were not mentioned in the descriptive report for T-5989. These landmarks were noted on Form 567 and Chart Section 314-3 attached to Chart Letter 909 (1944) and shown on the map manuscript with a  $2\frac{1}{2}$  mm circle.

### 43. Comparison with Previous Surveys

T-666	1:10,000	1857-58
T-889	1:10,000	1862
T-961	1:10,000	1864-65
T-6928a	1:10,000	1942

\*There is a disagreement in the position of the mean high-water line along the beach just south of Griffith Head as shown on Graphic Control Survey T-6928a. The mean high-water line as shown on the field inspection photographs was used because of the later date of the field inspection.

These surveys are superseded by the map manuscript in their common areas for all common detail.

### Comparison with Contemporary Hydrographic Surveys

H-6805	1:10,000	1942
H-6839	1:10,000	1943
H-6840	1:10,000	1943
H-6844	1:10,000	1943
H-6858	1:20,000	1943

The position of the mean high-water line on the map manuscript supersedes the mean high-water line as shown on the hydrographic surveys since the position of the mean high-water line on the latter surveys was taken from the original compilation prior to review.

53. Application to Nautical Charts

The map manuscript has been applied to nautical charts prior to review.

Reviewed by:

Under the direction of:

M. G. Misulia  
Michael G. Misulia

S. Z. Griffith  
Chief, Review Section

B. G. Jones 3/49  
Technical Asst. to the Chief  
Division of Photogrammetry

H. C. Bowman  
Chief, Nautical Chart Branch  
Division of Charts

K. T. Adams  
Chief, Division of Photogrammetry

W. M. Saife  
Chief, Division of Coastal  
Surveys

## NAUTICAL CHARTS BRANCH

SURVEY NO. 75989

### Record of Application to Charts

[illegible]

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.



Low water details have been incorporated on H-6839.  
No changes or additions have been transferred to manuscript.

RH Canstano

3/28/45