

5990

Diag'd. on Diag. Ch. 1204

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric Air Photographic
(Shoreline & Interior)

Field No. Office No. T-5990

LOCALITY

State Maine

General locality Coast of Maine Booth Bay
FISHERMAN ISLAND - DAMARISCOVE ISLAND

Locality Damariscove Harbor - Fisherman Is.
Passage

AND VICINITY

DATE OF PHOTOS 10-20-41

1943

CHIEF OF PARTY

Fred. L. Peacock

LIBRARY & ARCHIVES

DATE

June 7 - 1948

B-1670-1 (1)

DATA RECORD

T- 5990

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 Survey Party No. 2
Baltimore, Maryland

Chief of Party:

Fred. L. Peacock

Instructions dated (II III):

January 12, April 1, 1942

Copy filed in Descriptive

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

Div. of Photogram. Office Files

Completed survey received in office: 1 May, 1943

Reported to Nautical Chart Section:

Reviewed: 21 Aug. 1945 Applied to chart No. 314 (Recon) Date: 11 Sept. 1946

Redrafting Completed: 5 Jan. 1947

Registered: ^{May} 13 Apr. 1948

Published: Shoreline (Vault copy)

Compilation Scale: 1:9670

Published Scale: 1:10000

Scale Factor (III): 1.03413

Geographic Datum (III): N.A. 1927 Datum Plane (III): Mean Sea Level
High Water

Reference Station (III): White Island 2, 1934 r. 1942

Lat.: 43° 47' 13.34" 411.7m. Long.: 69° 34' 26.90" 601.5m ~~Adjusted~~
Unadjusted (Field)

State Plane Coordinates (VI): West Zone (Maine)

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
7070 - 7071	10/20/41	9:58a.m.	1:10,000	10.8' above M. L. W.
7078	10/20/41	10:33a.m.	1:10,000	10.6' above M. L. W.
7106	10/20/41	10:55a.m.	1:10,000	10.1' above M. L. W.
7107	10/20/41	10:58a.m.	1:10,000	10.0' above M. L. W.
7108	10/20/41	10:59a.m.	1:10,000	10.0' above M. L. W.
7109	10/20/41	11:03a.m.	1:10,000	9.9' above M. L. W.
7110 - 7112	10/20/41	11:04a.m.	1:10,000	9.8' above M. L. W.

Tide from (III): Portland, Maine with time correction to East Boothbay,
Damariscotta River, Maine.

Mean Range: 9.1' Spring Range: 10.4'

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

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

Field Edit by: date:

Date of Mean High-Water Line Location (III):

October 20, 1941

Projection and Grids ruled by (III) J.C.O. Wash. Off. date: Feb. 12, 1943

" " " checked by: J.C.O. Wash. Office date: Feb. 13, 1943

Control plotted by: I. Scott Poehlman date: 2/16-18/43

Control checked by: Walter E. Schmidt date: Feb. 20, 1943

Radial Plot by: Walter E. Schmidt date: February, 1943

Detailed by: Dean E. White (Shoreline & Interior rough draft) date: 3/10-4/2/43

Reviewed in compilation office by: Michael G. Misulia date: 4/8-12/43

Elevations on Field Edit Sheet
checked by: date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 1.0

Shoreline (More than 200 meters to opposite shore): 16.6 Statute Miles

Shoreline (Less than 200 meters to opposite shore): 0.7 Statute Miles

Number of Recoverable Topographic Stations established:

4

Number of Temporary Hydrographic Stations located by radial plot:

31

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:

"Damariscove" 2, 1902, r 1933 is the same station as
"Damiscove" 1855 of the marked disc, therefore
the name "Damiscove" 1855 is retained as the
name of this triangulation station.

In the case of the two lookout towers, the proper
spelling of the locality, "Damariscove", is
to be the accepted spelling.

Geodesy, June, 1948

COMPILATION REPORT

26 CONTROL:

The control plotted and the control transferred from adjoining map drawings consist of seventeen U. S. Coast & Geodetic Survey triangulation stations. They have been indicated with the usual triangulation symbols.

The following list of control stations are within the detail limits of this map drawing:

8 U. S. C. & G. S. Triangulation Stations

- ✓ **The Hypocrites Beacon, 1934, r.1942
- ✓ **Ram Island Lighthouse, 1902, 1934, r.1942
- ✓ **White Island 2, 1934, r.1942
- ✓ **White Island, 1855
- DAMARISCOVE ✓ **Damiscove Coast Guard, W. lookout tower, 1934, r.1942 (G.P. p. 293)
- " " ✓ **Damiscove Coast Guard, E. lookout tower, 1934, r.1942 " "
- " " ✓ ~~**Damiscove 2, 1902, 1933~~ = Damiscove, 1855 (G.P. p. 134)
- " " ✓ **Damiscove Lookout, 1902

The following list of control stations fall just outside the detail limits of this map drawing:

9 U. S. C. & G. S. Triangulation Stations

- *Squirrel Island, Cupola Pole, 1902, r.1942 incorrect
- *The Cuckolds lighthouse, 1909, 1934, r.1942
- *Cuckolds Fog Signal, 1902
- *Squirrel Island, S.W. end Beacon, 1934, r.1942
- *Southport Ledge, 1857, 1933, r.1942
- *Burnt Island lighthouse, 1902, r.1942
- *Reed, 1859
- **Linekin Neck, red chimney, 1857, r.1942 incorrect
- **Win, 1909, r.1942 incorrect

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

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

27 RADIAL PLOT:

(NB) A special report of the radial plots for Map drawings Nos. T-5985 to T-5994 inclusive will be submitted with the compiler's report for map drawing No. T-5986.

Secondary control points, established to prove the plot, have been indicated on this map drawing with small double purple and green ink circles. Tertiary control points have been indicated on this map drawing with small single purple and green ink circles. Purple ink circles indicate points which have been established by the intersection

27 RADIAL PLOT: (cont'd)

of three or more radial lines and whose positions are considered relatively strong with respect to the basic control. Green ink circles indicate points which have been established by the intersection of two or three radial lines and whose positions are considered relatively weak with respect to the basic control. Tilt computations were not necessary.

28 DETAILING:

The shore line and immediate adjacent culture has been detailed on this map drawing in accordance with the Director's letter, dated January 12, 1942 and April 1, 1942 pertaining to this Project CS-272-B.

All detail indicated on this map drawing has been shown by the standard symbols as recommended by the Washington Office and any deviation therefrom has been properly noted on the overlay sheet in order that the planimetric details may be clearly interpreted by those concerned.

Due to the fact that there were no photographs east or south of Pumpkin Island, its position is considered relatively weak. The secondary and minor detail points in this vicinity were indicated with green ink circles. The photograph center No. 7109 has been indicated with a large green ink circle.

The detail of the southeastern and southwestern tips of Damariscove Island was partially controlled by points indicated by green ink circles. This area proved to be very difficult in establishing tertiary points due to sun glare on the photographs covering this area. The situation was further complicated by the rocky and irregular shoreline.

The projector was used in detailing areas where scale differences between the photographs and this map drawing were appreciable.

30 MEAN HIGH-WATER LINE:

The mean high water line (firm ground) has been indicated by a heavy-weight black acid line, the center of which should be taken as the true position. Most of the shore line consists of rock bluffs and ledge.

31 LOW - WATER AND SHOAL LINES:

Approximate limits of rock ledge have been indicated by a light-weight dashed black acid ink line and noted on the overlay sheet for use of the hydrographer only.

32 DETAILS OFFSHORE FROM HIGH WATER LINE:

Fish traps, rocks etc. have been detailed on this map drawing in accordance with the field inspection data and noted on the overlay sheet wherever it was thought necessary. The extent at which rocks bare at various stages of tide has also been noted on the overlay sheet.

33 WHARVES AND SHORELINE STRUCTURES:

Piers and cribbing were detailed on this map drawing and noted on the overlay sheet.

34 LANDMARKS AND AIDS TO NAVIGATION:

The following recommended landmarks and aids to navigation are U. S. Coast & Geodetic Survey triangulation stations which have been indicated on this map drawing by the triangulation symbols and their geographic positions have been submitted on form No. 567.

LIGHTHOUSE, Ram Island
BEACON, The Hypocrites
TOWER, Lookout, Damiscove Coast Guard, East
TOWER, Lookout, Damiscove Coast Guard, West

Chart #289 Letter (1943)

35 HYDROGRAPHIC CONTROL:

Four recoverable topographic stations and 31 temporary hydrographic stations have been established by radial line intersection on this map drawing and have been indicated with 2 $\frac{1}{2}$ mm and 1 $\frac{1}{2}$ mm black acid ink circles respectively. Descriptions of both classes of stations have been noted on the overlay sheet. The descriptions and the geographic positions of the four following ^{recoverable} topographic stations have been submitted on Form No. 524: Nos. 182, 194, 306, 328.

Rock Flagpole W. Chimney Cairn

37 JUNCTIONS:

Map drawing No. T-5991, north side, water area.

Map drawing No. T-5989, west side, water area.

No map drawings to the east or south.

38 ~~CABLE CROSSING AREAS:~~

Deleted - B.

~~The cable crossing area indicated on this map drawing by parallel dashed lines in red acid ink was transferred from Chart No. 314, scale 1:40,000, by use of the projector and the position is to be considered approximate.~~

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 below.

It is believed that the probable error of radial points and well-defined objects along the shoreline, is not greater than 0.5mm. The error of inland radial points and details of importance is not greater than 1.0mm.

This accuracy cannot be applied in the vicinity of Pumpkin Island. Plane table survey or rigid sextant fixes are recommended in order to establish a more accurate position of this island.

44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

Booth Bay Quadrangle USGS, scale 1:62,500; edition 1893, re-print 1936.

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

45 COMPARISON WITH NAUTICAL CHARTS:

Chart No. 313 - scale 1:40,000 - date July, 1933.

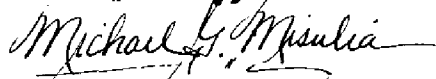
Chart No. 314 - scale 1:40,000 - date February, 1935.

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


Respectfully submitted
April 13, 1943,


Dean E. White
Asst. Engineering Aid

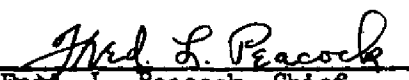
Compilation & Descriptive Report Reviewed by,


Michael G. Misulia
Jr. Topographic Engineer

Compilation & Descriptive Report Supervised by,


Walter E. Schmidt
Asst. Photogrammetric Engineer

Approved & Forwarded
April 21, 1943


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

LIST OF GEOGRAPHIC NAMES

Listed below are the disputed geographic names that pertain to the detailed limits of this map drawing:

- | | |
|---|------------------------------------|
| ✓ • Damariscove Harbor | Damiscove Harbor |
| ✓ • Damariscove Island | Damiscove Island |
| Damariscove Point (questionable) | |
| ✓ • Fisherman Island | Fishermans Island |
| Smedrick Ledge (or part of the Hypocrites) | |
| ✓ • The Hypocrites | Hypocrite Ledge |
| ✓ • White Island (s. island) | White Islands |
| | ✓ • Jenny Island (northern island) |

LIST OF GEOGRAPHIC NAMES

Listed below are the undisputed geographic names that pertain to the detail limits of this map drawing unless otherwise indicated.

- ✓ . Atlantic Ocean
- ✓ . Booth Bay
Dictator Ledge (not indicated on this map drawing)
- ✓ . Fisherman Island Passage
Gangway Ledge (not indicated on this map drawing)
- ✓ . Green Island
- ✓ . Heron Island South Ledges
- ✓ . Hypoorite Passage
- ✓ . Jenny Island
- ✓ . Outer Heron Island
Outer Heron Island Ledge (not indicated on this map drawing)
- Pulpit Rock (feature not located on map)
- ✓ . Pumpkin Island
- ✓ . Pumpkin Ledges
Pumpkin Island N. E. Ledge (not indicated on this map drawing)
- ✓ . Ram Island
The Motions (not indicated on this map drawing)
- ✓ . White Point
White Island Ledge (not indicated on this map drawing)
- ✓ . Wood End
Wylie Rock (not indicated on this map drawing)

Names preceded by - are
approved L. Heck
10/24/47

GEOGRAPHIC NAMES

Division of Photogrammetry
Review Report of
Shoreline Map T-5990

27. Radial Plot:

A satisfactory check was made of the radial plot for T-5990. A description of the main radial plot is given in the Descriptive report for T-5986.

28 Detailing and Field Inspection:

This map was drafted in accordance with the field inspection data. The stage of the tide, when the photographs were taken, averaged one foot above mean high water. ^{Most of the} ledge, rocks, and other offshore detail were, therefore, ^{exten}indiscernible. Where these features have been shown, their size is merely approximated.

The field inspection was adequate, considering the ~~above-mentioned~~ handicap. However, it is suggested that the shoreline be indicated by use of a thinner line - too much definition is lost by painting it in.

30 Mean High Water Line:

Detailed in accordance with the field data.

34 Landmarks and Aids to Navigation:

The landmarks and aids to navigation on T-5990 are all U.S.C. & G.S. triangulation stations and have all been previously charted.

42 Comparison with Previous Topographic Surveys:

T-1000	1:10000	1865
--------	---------	------

This survey indicates a great deal more ledge around the various islands than is detailed on T-5990. However, T-5990 supersedes the previous survey on all detail inside the mean high water line.

43. Comparison with Contemporary Hydrographic Surveys:

H-6840	1:10000	1943
H-6858	1:20000	1943
H-6923	1:10000	1943

As in the previous paragraph, these surveys indicate more offshore detail than is shown on T-5990. All rock ledge, rocks awash, and sunken rocks shown in red acetate ink have been transferred to T-5990 from H-6840.

44. Comparison with Quadrangles:

U.S.G.S. Boothbay, Maine. 15' ser. 1:62500 1944
^{the common features on}

Survey T-5990 supersedes this quadrangle in all common area.

45. Comparison with Nautical Charts:

313	1:40000	July 1943
314	1:40000	Feb. 1935
1204	1:80000	June 1945

At approximate position Lat. $43^{\circ} 46' 20''$, Long $69^{\circ} 36' 40''$ a small cove is shown on this map and directly north of it about 50 meters inshore a pond is shown. Neither of these features appear on the charts.

Several small islands just ^{west}~~east~~ of Pumpkin Island are shown as ledge on the charts. 2
KTA

On charts 313 and 314 two small islands are located between two larger ones in The Hypocrites. On chart 1204 one of these is shown as a rock awash and the other as a sunken rock. Neither is visible on the photographs, so they do not appear on T-5990.

The shape of Green Island as detailed on T-5990 disagrees entirely with the above-mentioned charts, as well as the previous topographic and contemporary hydrographic surveys. This island was detailed in accordance with the field inspection data.

This map manuscript has not been applied to nautical charts.

Reviewed by

Under the direction of

Harold R. Brooks
Harold R. Brooks, 21 Aug. 1945

R. M. Berry
R. M. Berry *RB*
Chief, Review Section

APPROVED:

Boj Jones 5/45
Technical Assistant to the
Chief, Div. of Photogrammetry

Butterling
Chief, Nautical Chart Branch
Division of Charts

K.T. Adams
Chief, Div. of Photogrammetry

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

NAUTICAL CHARTS BRANCH

SURVEY NO. T5990

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.