

5993

Diag'd. on Diag. Ch. 1204-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric Air Photographic
(Shoreline)

Field No. _____ Office No. T-5993

Date of Photos: Oct. 1941

LOCALITY

State Maine

General locality Coast of Maine

Locality Damariscotta River

Bristol & Vicinity

~~Salt Marsh Cove - Dodge Upper Cove~~

194 3

CHIEF OF PARTY

Fred. L. Peacock

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DATE May 24 - 1948

5993

DATA RECORD

T- 5993

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, April 1, 1942

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

Completed survey received in office: 2 June 1943

Reported to Nautical Chart Section:

Reviewed: 7/31/46

Applied to chart No. ³¹⁴_(Acmet) Date: 9 Sept. 1946

Redrafting Completed: 30 Dec 1947

Registered: 14 April, 1948

Published: Shoreline (Vault copy)

Compilation Scale: 1:9,670

~~Published~~ Scale: 1:10000

Scale Factor (III): 1.03413

Geographic Datum (III): N.A. 1927

Datum Plane (III): Mean Sea Level

Reference Station (III): Edgecombe 1855, r 1933, 1934, r 1942

Lat.: 43° 57' 13.102" (404.4 m.) Long.: 69° 36' 18.372" (409.7 m.) Adjusted
~~Unadjusted~~

State Plane Coordinates (VI): Maine West Zone

X = 647,885.84 ft.

Y = 408,838.59 ft

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
7018	10-20-41	9:04 A.M.	1:10,000	0.7 ft. above M.H.W.
7019	10-20-41	9:05 A.M.	1:10,000	0.7 ft. above M.H.W.
7025	10-20-41	9:16 A.M.	1:10,000	0.9 ft. above M.H.W.
7026 and 7027	10-20-41	9:17 A.M.	1:10,000	1.0 ft. above M.H.W.
7028	10-20-41	9:18 A.M.	1:10,000	1.0 ft. above M.H.W.
7047	10-20-41	9:38 A.M.	1:10,000	1.4 ft. above M.H.W.
7048	10-20-41	9:39 A.M.	1:10,000	1.4 ft. above M.H.W.
7049 and 7050	10-20-41	9:40 A.M.	1:10,000	1.4 ft. above M.H.W.
7061 and 7062	10-20-41	9:48 A.M.	1:10,000	1.5 ft. above M.H.W.
7083	10-20-41	10:38 A.M.	1:10,000	1.6 ft. above M.H.W.

Tide from (III): Tables of predicted tides; reference station Portland, Maine; with time and tide corrections for New Castle, Damariscotta River, Maine. Mean Range: 8.5 ft. Spring Range: 9.7 ft.

Camera: (Kind or source) U. S. Coast and Geodetic Survey nine lens camera focal length 8.25". All negatives are on file at the 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) John C. O'Neill date: Feb. 11, 1943

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

Control plotted by: Frederick W. Hildebrand date: Feb. 16 & 17, 1943

Control checked by: Walter E. Schmidt date: Feb. 19, 1943

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

Detailed by: Scott Poehlman (Shore line) date: 3/17/43 to
& Ada May Hobine (Rough draft) 4/30/43

Reviewed in compilation office by: Henry P. Eichert date: 5/17/43 to
5/31/43

Elevations on Field Edit Sheet checked by: date:

STATISTICS (III)

Land Area (Sq. Statute Miles):

Shoreline (More than 200 meters to opposite shore):

14 statute miles

Shoreline (Less than 200 meters to opposite shore):

5 statute miles (Scaled along center line)

Number of Recoverable Topographic Stations established:

5

Number of Temporary Hydrographic Stations located by radial plot:

83

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 the control transferred from adjoining map drawings consists of thirteen (13) U. S. Coast and Geodetic Survey triangulation stations and nine (9) U. S. Geological Survey primary traverse stations. They have been shown with the usual triangulation symbols.

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

Seven (7) U. S. Coast and Geodetic Survey Triangulation Stations

- * Aris, 1860, 1934, r 1942
 - * Beech, 1860
 - * Edgecombe, 1855, r 1933, 1934, r 1942
 - * Haggett 1, 1855, 1857, 1934, r 1942
 - * Haggett 2, 1857, r 1942
 - * Harrington house chimney, 1860, r 1942
 - * Norwood, 1860, 1934, r 1942
- East of east limit
of printed map*

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

Six (6) U. S. Coast and Geodetic Survey Triangulation Stations

- ** Cochran, 1934, r 1942
- * Dunhams Hill, 1857
- ** Hitchcock, 1860, 1934, r 1942
- ** North Edgecombe, white spire, 1934, r 1942
- ** Sheepscot, east side, square barn, center, 1857
- * White, 1860

Nine (9) U. S. Geological Survey Primary Traverse Stations

- ** 2127, 1940, r 1942
- ** 2128⁺, 1940, r 1942
- ** 2133⁺, 1940, r 1942
- ** 2136⁺, 1940, r 1942
- ** 2138⁺, 1940, r 1942
- ** 2140A, 1940, r 1942
- ** 2141⁺, 1940, r 1942
- ** 2142⁺, 1940, r 1942
- ** 2144⁺, 1940, r 1942

* The positions of these stations have been plotted and are shown with black acid ink triangles.

** The positions of these stations have been transferred from adjoining map drawings and are shown with red acid ink triangles.

27 RADIAL PLOT:

(N.B.) A report, covering the radial plots of the area represented on map drawings Nos. T-5985 to T-5994 inclusive, has

27 RADIAL PLOT: (Cont'd.)

been submitted as the appendix to the descriptive report for map drawing No. T-5986.

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, No. C² 272-B.

All detail has been shown with the standard symbols recommended by the Washington Office and notes fully describing any deviation therefrom appear on the overlay sheet in order that the planimetry may be clearly interpreted by those concerned.

Purple or green ink circles indicate relatively strong or weak positions respectively of points located by radial intersection.

The field inspection party of 1942 did not submit any data to assist the compiler in identifying bluffs along the shore line. Therefore, they were detailed from stereoscopic examination of the office photographs. Since their character, whether rock or soil, could not be ascertained satisfactorily by stereoscopic examination, the dirt bluff symbol was used throughout.

All roads shown on this map drawing have been classified by this compilation office.

The number of photographs was sufficient for detailing. However, in some areas, difficulty was encountered in the identification of the M.H.W. line on the photographs due to deep shadows, relief displacement, and dense vegetation.

The stereoscope and projector were used advantageously.

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. The limits of marsh areas have been shown by a solid, light-weight black acid ink line in conjunction with the conventional marsh symbol. This light-weight line indicates the limits of navigation and not necessarily the M.H.W. line.

31 LOW-WATER AND SHOAL LINES:

The approximate limits of mud and shell areas, rock ledge, and shoal areas not classified by the field inspection party have been shown with a dashed light-weight black acid ink line. The classified areas, as submitted by the field inspection party, have been shown by notes on the overlay sheet. Notes calling attention

*Changed to & added
respectively during
review.*

31 LOW-WATER AND SHOAL LINES: (Cont'd.)

to unclassified areas have also been shown on the overlay sheet, recommending investigation by the hydrographic party.

32 DETAILS OFFSHORE FROM THE HIGH-WATER LINE:

Numerous rocks, two beacons, and the approximate limits of piling and reef areas, have been shown on this map drawing in accordance with the field inspection data. The extent to which rocks bare at M.H.W. has been shown on the overlay sheet. } *transferred to Mms*

33 WHARVES AND SHORE LINE STRUCTURES:

The permanent sections of piers have been shown in accordance with the field inspection data.

34 LANDMARKS AND AIDS TO NAVIGATION:

The positions of the following two aids to navigation, shown on this map drawing with $2\frac{1}{2}$ mm black acid ink circles, have been submitted on Form 567:

BEACON, black spindle, just S.E. of Merry Island = *Merry Island Beacon*
BEACON, red barrel, on W. edge of Glidden Ledge = *Glidden Ledge Beacon*
Chart letter No. 335 (1943)

35 HYDROGRAPHIC CONTROL:

The positions of five (5) recoverable topographic stations and eighty-three (83) temporary hydrographic stations have been established by radial intersection and are shown on this map drawing with $2\frac{1}{2}$ mm and $1\frac{1}{2}$ mm black acid ink circles respectively. The descriptions of both classes of stations appear on the overlay sheet *and an appendix to this report.*

The positions and descriptions of the following five (5) recoverable topographic stations have been submitted on Form 524:

Nos. 921, 981, 987, 1061, and 1073. } *See review report for names*

37 JUNCTIONS:

Map drawing No. T-5994, north side, junction in agreement.
Map drawing No. T-5998, east side, no junction possible at this date. *OK*
Map drawing No. T-5992, south side, junction in agreement.
Map drawing No. T-5986, west side, land area only - no junction necessary.

38 RECOMMENDATION FOR FUTURE SURVEYS:

The planimetry shown on this map drawing is believed to be complete in all details of importance for charting and no additional surveys are recommended.

It is believed that the probable error in the positions of radial points and details of importance along the shore line is not

38 RECOMMENDATION FOR FUTURE SURVEYS: (Cont'd.)

greater than 1.0 mm. (N.B.) Refer to the appendix of the descriptive report submitted for map drawing No. T-5986.

44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

Boothbay Quadrangle, U. S. G. S., Scale 1:62,500;
edition 1893; reprint 1941.

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

45 COMPARISON WITH NAUTICAL CHARTS:

Chart No. 313; Scale 1:40,000; dated July 1933 and reissued August 1938.

This chart was enlarged by projection to the scale of the map drawing and planimetry compared. No pronounced disagreements were noted.

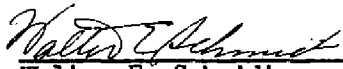
Respectfully submitted by:
5/31/43


Ada May Robine
Jr. Photogrammetric Aid

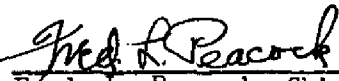
Compilation & Descriptive
Report Reviewed by:


Henry P. Eichert
Jr. Photogrammetric Engineer

Supervised by:


Walter E. Schmidt
Asst. Photogrammetric Eng.

Approved & Forwarded:


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

Division of Photogrammetry

Review of Planimetric Survey T-5993 Proj. 272-B

This is a shoreline survey intended primarily for use by the Hydrographic Survey Party. The hydrography in this area has been completed; the inked smooth sheets are now available.

28. Detailing:

The nine lens photographs and the field inspection data were used in correction of the manuscript during review. Corrections to the shoreline and other details were made in red ink.

The information on the overlay was transferred to the manuscript and the overlay discarded.

29. Supplemental Data:

Two hydro surveys H-6842 & H-6843 (1943) 1:10,000 were used to supplement the photographs in detailing some of the low water features. A note to this effect is printed on the manuscript. The dashed shoal line has been removed and the Mean Low Water line transferred from the hydro surveys. It is shown with a dotted red line and marked "MLW".

There is a discrepancy in the elevation of the rock at $\lambda 43^{\circ} 58'$ $\phi 69^{\circ} 34.4'$. The Field Inspection Party marked it as awash at MHW. H-6842 shows it as baring two feet at MHW; the elevation is in red and in parenthesis indicating that it was transferred from the topographic survey. This is incorrect; the elevation of the rock to the north or the rock to west was probably confused with the elevation of this rock.

During review, the rock ledge at $\lambda 43^{\circ} 56\frac{1}{2}'$ $\phi 69^{\circ} 34\frac{3}{4}'$ was extended slightly. The extension does not interfere with any plus soundings on H-6843. There are no other discrepancies.

35. Hydrographic Control:

The names of the recoverable topographic stations are:

No. 921 Highest pt. on <u>ledge</u>	(d) 1942
No. 981 Merry Island Beacon	(d) 1942
No. 987 S. end of island	(d) 1942
No. 1061 Glidden Ledge Beacon	(d) 1942
No. 1073 Gray 4' <u>boulder</u>	(d) 1942

The names are also found on the manuscript.

43. Comparison with Previous Topographic Surveys:

This survey supercedes: T-994 (1865) 1:10,000 except for contours and other inland detail.

45. Comparison with Nautical Charts: :

This survey has been applied to Chart 314 prior to review. There are no corrections or additions made during review that affect this chart.

This survey should be applied to Charts 313 & 1204 when they are reconstructed.

Applied 3/8, Sept. 1946

48. Accuracy Tests:

~~There are no accuracy tests on this map.~~ It is believed that this map complies with the National Standard Map Accuracy Requirements.

*Inspected
S. V. Griffin
Chief, Review Section*

Reviewed by,

Jack L. Rihn 31 July 46

APPROVED:

B. Jones 5/48 Levinson
Technical Assistant to the Chief, Nautical Chart Branch
Chief, Div. of Photogrammetry Div. of Charts

K. T. Adams C. R. Green
Chief, Div. of Photogrammetry Chief, Div. of Coastal Surveys

APPENDIX

Descriptions of

Hydrographic Signals & Signal Sites

Located by Radial Plot on Map Drawing

Survey T-5993

Project CS-272 - Coast of Maine

(see # 35)

There are shown on the
manuscript but not on the
registered copy Bgg

(98)

<u>Signal Number</u>	<u>Description</u>
920.	Top center of yellow boulder awash at high water off shore. (Signal Site)
921.	(Signal Site) Highest part of white rock ledge on inshore end of ledge (around knob). <i>fm. 524</i> <i>A rounded</i>
X 922.	South gable of yellow cottage with patch roof.
923.	(Signal Site) High Water mark on rounded gravel point.
924.	(Signal Site) Grey peaked off shore boulder, (two white ones on shore South of it. Dont' confuse).
925.	Top center of grass on rounded white rock point, off white berch tree.
926.	Grassline on white rock point just South of small 13 foot spruce.
927.	High point on white rounded ledge off cove.
928.	Top center, brown rock ledge off grass at head of bight.
929.	High point on huge rock on North side of bight (Signal Site). <i>West</i>
930.	Tip of peaked yellow rock West side of bight. (Signal Site). <i>South of rounded ledge,</i>
931.	Top center of high rounded white knob on white rock point (Signal Site).
932.	High point of yellow-white Island ledge just South East of small Island in Prentiss Cove.
933.	North tip of Island at grassline.
934.	(Signal Site) Top of large dark boulder on East side of Island .

<u>Signal Number</u>	<u>Description</u>
935.	Top center of white rock point North of tall pine (Signal Site).
936.	Outer end, center of pier in inner cove.
937.	12 Foot spruce near end of fence on grassy point.
938.	Top center of gently rounded flat white ledge West of huge 35 foot pine.
963.	High part of rocky knob just South of vegetation, (Signal Site).
964.	Edge of soil line on top of rocky point.
965.	14 Foot evergreen on North edge of swath on West side of bight. Biggest in vicinity and nearest to water's edge at that point.
966.	Top of off-lying white rock ridge awash at High Water.
967.	Squarish yellow 4 foot boulder 20 feet off of boulder beach.
968.	Foot of white clay bank at East end of small island (Signal Site).
969.	15 Foot pine, tallest of all in field, just inshore from brick strewn beach (Banner Site).
970.	Large grey oblong boulder South of three white boulders near fireplace, (Signal Site).
971.	Top center of brown ledge on point between two small branches of bight, (Signal Site).
972.	8 Foot bushy light pine on North end of point.

<u>Signal Number</u>	<u>Description</u>
973. ((Signal Site) Top center of grey peaked boulder on East tip of point.
974.	(Banner Site) In crevasse ^{asse} 6 feet back from High Water mark. Crevasse between two rock ledges.
975.	High part of greybanded ledge South of brick beach in small bight (Signal Site).
976.	(Banner Site) Small 7 foot bushy pine just East of larger 20 foot one West of beach.
977.	Top of black rock boulder on dark ledge (Signal Site). May be white from gull droppings.
X 977a.	Outer end center of fixed pier.
978.	(Signal Site) Dark stained northern tip of yellow ledge at High Water level. ^{long}
979.	Edge of vegetation on flat rock point, "yellow white". (Banner Site).
980.	(Signal Site) High banded rock ledge on side of point towards Island; Top center.
981. fm. 524	Black spindle beacon.
X 982.	East end of East end of small shack on islet; flat roof.
983.	High part of white rocky point just South of grass line (Signal Site).
X 984.	Outer end center of long green fixed pier.
985.	Grey rock point of Salt Marsh Cove (Signal Site) at grass line. ^{at south entrance}
986.	(Signal Site) Top center of white ledge just off small bushy birch tree at edge of field.
987. fm. 524	South of end of grassy Island of grass line (Signal Site). ^{at}

Signal Number

988. North ^agable of grey shingle privy.
989. Top of peaked white boulder in small grassy bight.
990. Top center of high peaked white boulder on West side of cove at water line ~~medium~~ ^{Mean} High Water.
991. Center line outer end of fixed pier.
992. Top center (Signal Site) of grey off shore boulder awash at High Water.
- ~~997. Outer end center of fixed pier.~~
1029. South gable of barn (white) with ~~cupola~~ ^{cupola} North of head of cove.
1036. South tip of grass on gravel-covered white rock point (Signal Site).
1037. High part of yellow portion of ledge off grassy bight.
1038. White top of boulder behind reef on point. Bullet shaped. ~~Not~~ one in grass to South. (Signal Site).
1039. Top of dark pile of rocks just North of white birch on point, Awash at high tide. (Signal Site).
1040. Top center of dark rounded rough rock North of grassy narrows at South end of cove.
1041. Bush by culvert near road at South end of inner cove. (Signal Site).
1042. Center of grass patch on North end of Island ledge in center of cove. (Signal Site).
1043. Yellow boulder off shore from boat shack.

DescriptionSignal Number

1044. Door of tarpaper shack in small bight.
1045. East end center of pyramid roofed boat house on West side of bight.
1046. Southeast corner of rock fill on North shore of cove.
1047. Western-most of two pines of about equal size, (12 foot), on water's edge.
1048. South tip of grass in cleft between two white rock ledges. (Signal Site).
1049. East gable of 2 story brown house with white trim on West side of River. ^{shingle}
1050. (Signal Site) Top center of yellow rock ^{at} of High Water line.
1051. South tip of grass line on rock point South of large birch tree (Signal Site).
1052. Grass line on point just West of flat bush North of birch (Signal Site).
1053. White tip of yellow rock ledge ^{at} of High Water line. (Several white rocks to South) (Signal Site).
1054. Tip of grassline on white rounded rocky point (Southern-most of two tips of grass).
1055. 15 Foot spruce on North ~~East side of cove~~ field near fence (Signal Site). ^{edge of}
1056. (Signal Site) Between two posts on brick pile on North ~~East~~ side of cove.
1057. 10 Foot pine at High Water mark near dead ~~brush~~ pile (Banner Site).
1058. Top of black rock ledge with stick in it. (Signal Site).

<u>Signal Number</u>	<u>Description</u>
1059.	(Banner Site) Maple tree on ledge at head of cove High Water line.
1060.	Edge of grass on North Western most tip of black rock rounded point.
1061.	Red barrel beacon.
1062.	Outer most white reef High Water level, <i>fm. 524</i> Top center (Signal Site).
1063.	North West or West edge of brush on outer edge of island (Signal Site).
1064.	White door of shack on old brick fill.
1065.	Edge of grass line on brick beach at point where strip of white boulders touches grass.
1066.	Top center of grey rock ledge off grassy point (Signal Site).
1067.	Top of white rock boulder West of grass-covered, boulder strewn point. <i>North</i>
1068.	Tip of white ledge (?) just awash at High Water off mouth of grassy bight (Signal Site) small tip.
1069.	Top of stone light house on small point.
1070.	Outmost of two large white boulders lying off small point. Remains of flimsy old dock to shore (Signal Site).
1071.	Large square white boulder on point just West of dark boulder and East of white rock ledge (Signal Site).
1073.	Unmarked station site, grey 4 foot loose boulder just around to eastward of north tip of <i>Whitey</i> point. <i>fm. 524</i>

Geographic Names
Undisputed

- • Briar Cove
- • Bristol (Village)
- • Damariscotta River
- • Dodge Lower Cove
- • Dodge Point
- • Dodge Upper Cove
- • Fitch Cove
- • Fitch Point
- • Glidden Ledge
- • Kelsey Ledge (not shown)
- • Kelsey Point
- • Lower Fitch Point
- • Merry Island
- • Pemaquid River
- • Prentiss Cove
- • Salt Marsh Cove
- • Upper Narrows
- • Whitey Cove
- • Whitey Point

- • Sherman Lake
- • Prentiss Island
- • Bennett Neck
- • State No. 130
- • Pools Landing
- • Lowes Cove

Geographic Names
Disputed

Mear, Cove

— • Mears Cove

Names preceded by • are
approved. L. Heck
10/6/47

GEOGRAPHIC NAMES

NAUTICAL CHARTS BRANCH

SURVEY NO. T5993

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.