

5623

on Diag. Ch. 1203

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Planimetric Air Photographic
Field No.	Office No. T-5623
LOCALITY	
State	Maine
General locality	Coast of Maine
Locality	Medomak River - Meduncook River
DATE OF PHOTOGRAPHS Oct. 20, 1941	
1943	
CHIEF OF PARTY	
Fred. L. Peacock	
LIBRARY & ARCHIVES	
DATE May 12, 1947	

B-1870-1 (1)

5623

applied before review by J.T.W. and re-examined with
corrections made after review by GTE - 9/17/46 Ch. Reconstr. 313

DATA RECORD

T- 5623

Quadrangle (II):

Waldoboro (15'), Maine

Project No. (II): CS-272

Sub-Project No. CS-272-C

Field Office:

Air Photographic Party No. 2
Baltimore, Maryland

Chief of Party:

Fred. L. Peacock

Compilation Office:

Air Photographic Party No. 2
Baltimore, Maryland

Chief of Party:

Fred. L. Peacock

Instructions dated (II III):

January 12, 1942; April 1, 1942

Copy filed in Descriptive
Report No. T- (VI)

Completed survey received in office:

12/1/43

Reported to Nautical Chart Section:

1/26/45

Reviewed:

3/19/45

Applied to chart No.

Date:

Redrafting Completed: ✓

5/3/46

Registered:

5/47

Published:

Compilation Scale: 1:9,700

Published Scale:

Scale Factor (III): 1,031

Geographic Datum (III): N. A. 1927

Datum Plane (III): Mean Sea Level

Reference Station (III): RACCOON, 1860, r.1934; r.1943

Lat.: $44^{\circ} 00' 31.910''$ (984.9m) Long.: $69^{\circ} 16' 58.890''$ (1311.9m) Adjusted
 ~~$31.912''$ (866.9m)~~ ~~$58.892''$ (24.7m)~~ Unadjusted

State Plane Coordinates (VI): Maine West Zone

X = 732,488.77 feet

Y = 429,712.05 feet

Maine East Zone

X = 293,997.44 feet

Y = 64,958.15 feet

Military Grid Zone (VI) ← Not to be shown.

Primary Grid
E.P.M.

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
7095 to 7098	10/20/41	10:45 a.m.	1:10,000	10.2' above M. L. W.
7138 to 7142	10/20/41	10:47 a.m.	1:10,000	9.2' above M. L. W.
7118 to 7122	10/20/41	11:16 a.m.	1:10,000	9.9' above M. L. W.
7149 to 7152	10/20/41	12:01 p.m.	1:10,000	8.8' above M. L. W.

Tide from (III): Predicted Tide Tables, Reference station Portland, Maine; with corrections to Broad Cove, Medomak River
 Mean Range: 8.8' Spring Range: 10.0'

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. Comdr. Henry O. Fortin date: Summer, 1943

Field Edit by: None date:

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

October 20, 1941

Projection and Grids ruled by (III) J. O'Neill date: 7/19 & 7/21/43

" " " checked by: B. R. C. date: 7/19 & 7/21/43

Control plotted by: Ada May Hobine date: 7/24/43

Control checked by: Abraham L. Goncharsky date: 7/26/43

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

Donald M. Brant (Western Section-Shore line & Detailed by: interior- rough draft) date: Aug. to Oct., 1943

Ruth M. Whitson (Eastern Section-Shore line & interior-Rough draft) Aug. to Nov., 1943
 Reviewed in compilation office by: James E. Sunderland date: Western Section-Sept.&Oct., 1943
 Eastern Section- Oct. & Nov., 1943

Elevations on Field Edit Sheet None
 checked by: date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 26

Shoreline (More than 200 meters to opposite shore): 18 Statute Miles

Shoreline (Less than 200 meters to opposite shore): 4 Statute Miles - measured
along center line

Number of Recoverable Topographic Stations established: Seven (7) - positions de-
termined by radial intersection

Number of Temporary Hydrographic Stations located by radial plot:
One hundred and eighty-four (184) - positions determined by radial intersection

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 twenty-five (25) U. S. Coast & Geodetic Survey triangulation stations, which have been shown with the conventional symbol. Three "Field Inspection Points" (F.I.P.'s), which have been shown with a small black acid ink square on the glossy side of the celluloid in conjunction with their names, have been substituted for three of the triangulation stations.

The following nine (9) U. S. Coast & Geodetic Survey Triangulation Stations fall within the detail limits of the Map Drawing:

- ✓ SQUARE YELLOW HOUSE CHIMNEY, 1860, r.1943 ✓
- ✓ BRIMSTONE HILL, 1866, no recovery in 1943 ✓
- ✓ *WALDOBORO CHURCH SPIRE, No. 1, 1860, 1934, r.1943 ✓
- ✓ SOUTH WALDOBORO, 1866, no recovery in 1943 ✓
- ✓ LONG WHITE HOUSE, CENTER CHIMNEY, 1859, r.1943 ✓
- ✓ DELANO, 1934, r.1943 (F.I.P. "Del") ✓
- ✓ HUNGRY, 1859, 1934, r.1943 ✓
- ✓ CUSHING CHURCH No. 2, 1860, r.1943 ✓
- ✓ RACCOON, 1860, r.1934, r.1943 (F.I.P. "RAC") → *Removed*

*The original established date of this station as listed in Special Publication No. 46, page 106, is 1859. The original established date was listed as 1860 by Lieut. Crosby in 1934. The date 1860 has been shown on the Map Drawing.

Review note on p 22, Vol 534 shows date to be 1859. Corrected on manuscript.

The following sixteen (16) U. S. Coast & Geodetic Survey Triangulation Stations fall just outside the detail limits of the Map Drawing:

- ONE STORY WHITE HOUSE, CHIMNEY, 1860, r.1943
- COMERY, 1860, no recovery in 1943
- GEEL, 1860, r.1934, r.1943
- STAHL, 1860, no recovery in 1943
- RED HOUSE, CENTER OF CHIMNEY, 1866, r.1943
- EASTERN BRANCH, 1866, no recovery in 1943
- HOWARD'S RED STORE, CENTER OF CHIMNEY, 1866;
- (Old cellar hole found in 1943)
- HAVENER'S HOUSE, CENTER OF CHIMNEY, 1860;
- (Hole in roof found in 1943)
- MILLERS ISLAND, 1866; no recovery in 1943
- BIRKMORE'S HOUSE, CENTER OF CHIMNEY, 1866; no recovery in 1943
- HEATH'S HOUSE, WEST CHIMNEY, 1866, r.1943
- HARRIS, 1866, no recovery in 1943
- BREMO, 1860, 1934, r.1943
- SMITH, 1860, r.1934, r.1943 (F.I.P. "TIMS")
- LOWER HUNGRY, 1866, no recovery in 1943
- HEATH, 1866, no recovery in 1943

See also special report "Classification of Horizontal Control CS-272 B&C", 1943 in the ~~review~~ ^{Division of Photogrammetry} section files.

26 CONTROL: (cont'd)

The positions of the triangulation stations and "Field Inspection Points" shown with symbols in black acid ink, have been plotted directly on the Map Drawing from geographic coordinates, and those shown with symbols in red acid ink have been transferred from adjoining Map Drawings. The dashed triangulation symbol indicates that the structures which were originally the stations have been destroyed and that the Field Inspection Party has identified them by holes in roofs and old chimney foundations, etc.

*such stations
as outside limits
of sheet.*

27 RADIAL PLOT:

The radial plot for the area of Survey No. T-5623 was laid by the radial method without the use of celluloid templates.

The identification of the triangulation stations and "Field Inspection Points" was adequate. The number of control stations and photographs was sufficient to control and lay the plot.

The positions of all the control stations and "Field Inspection Points" recovered and identified in 1943, flight lines, and common secondary points (positions established by previous plots for the areas of adjoining surveys), were held to satisfactorily. The error of closure of the radial intersections of secondary points located on the Map Drawing for the area of Survey No. T-5623 was negligible and no exceptional difficulties were encountered in adjustment.

The positions of secondary points and photograph centers (principal points) determined by radial intersection and resection respectively, are believed to be within the limits of satisfactory accuracy.

Upon authorization of the Washington Office, Survey No. T-5623 was compiled in two parts (eastern and western). Duplicate projections were furnished for the area. The projection used for the compilation of the Western Part has been marked "Original" by this Compilation Office, while the one used for the Eastern Part has been marked "Duplicate". The junction of the two parts is along the meridian at Longitude 69° 19' 00".

The reason for the above procedure was to obtain the best possible distribution of the work on hand among the available compilers who were, thereby, enabled to complete the detail of the Mean High-Water Line and offshore features and establish the positions of hydrographic signals, in order to meet in time the immediate needs of the operating hydrographic parties. Also, the full compilation was completed within a shorter period of time, thereby permitting the compilers either to complete other compilations previously started or to take up new assignments.

27 RADIAL PLOT: (cont'd)

The projection marked "Original" was used when the main radial plot was laid. The positions of triangulation stations, "Field Inspection Points", photograph centers and secondary points, all of which were at first shown on the original, were transferred to the duplicate by the method of matching common projection lines and pricking through.

Respectfully submitted:

Walter E. Schmidt
Walter E. Schmidt
Asst. Photogrammetric Engineer
Supervisor Planimetric
Mapping Unit

See also:

Report on Field Inspection of Air Photographs from Long 69°30' northeastward to Lat. 44°15' 1943 Proj 272-C; FL Pascoe

and Notes for Hydrographic Parties, from Long 69°30' northeastward to Lat 44°15', 1943; FL Pascoe. are in Division of Photogrammetry files.
~~in Revision section files,~~

DESCRIPTIVE REPORT
OF COMPILATION
FOR THE WESTERN PART
OF
MAP DRAWING,
SURVEY NO. T-5623

28 DETAILING:

The compilation of the Western Part of Map Drawing, Survey No. T-5623 is in accordance with the instructions written in the Director's letters dated January 12, 1942 and April 1, 1942, pertaining to Project No. CS-272.

The detail limits of the Western Part of Map Drawing, Survey No. T-5623 are Latitudes $44^{\circ} 00' 00''$ and $44^{\circ} 03' 45''$, and Longitudes $69^{\circ} 19' 00''$ and $69^{\circ} 22' 30''$.

All detailed planimetry has been shown by the conventional topographic symbols recommended by the Washington Office, and notes fully describing any deviation therefrom appear either on the Map Drawing or the accompanying Overlay Sheet.

The main bodies of water in the Western Part are the Medomak and Goose Rivers. The general character of the shore line is rocky. The interior consists of wooded areas grown with vegetation of the coniferous and deciduous species. There are also a few villages, none of which could be considered congested areas.

The positions of points radially plotted which are considered relatively strong have been shown with purple ink circles on the glossy side of the Map Drawing. Those considered relatively weak have been shown with green ink circles.

The scales of the photographs and Map Drawing were in good agreement. However, it was necessary to use the vertical projector in detailing the planimetry of a few small areas.

The classification of all roads has been shown by notes on the Map Drawing in accordance with the furnished field inspection data. The widths of all double line roads are to be considered 6.0 meters, unless otherwise shown by notes.

The classifications (2) and (3) according to instructions dated April 1, 1942, pertain to brush areas. The Field Inspection Party classified some areas as C-2, D-2 or C and D-2, and yet, according to examination of the photographs under the stereoscope the areas seemed to be grown with trees and not brush. It was a difficult matter in such instances to determine which conventional topographic symbols should be used to outline these areas, that is, with either the brush symbol () or tree symbol (either * or 3). *However, regardless of how such areas were symbolized, the classifications as recommended by the Field Inspection Party were shown by notes on the Map Drawing. In some areas of vegetation, no classifications were furnished, and therefore they were symbolized by this Compilation Office after their character had been determined by stereoscopy. The field inspection data for drainage areas were not complete, and therefore it was necessary to trace out some of the drainage also by stereoscopy. The courses of streams and ditches, which were not clearly definable on the photographs, were shown with a dashed

**Such areas are interpreted as having high dense brush and scattered trees. Note to this effect made on manuscript.*

28 DETAILING: (cont'd)

light-weight black acid ink line. The notes ("stream") or ("ditch") have been shown on the Map Drawing.

It is believed that all private and public buildings within the Western Part of Survey No. T-5623 have been shown on the Map Drawing.

30 MEAN HIGH-WATER LINE:

The Mean High-Water Line (firm ground) has been shown by a full heavy-weight black acid ink line the center of which is considered the true position. There is only one small marsh area which borders the Mean High-Water Line. The full light-weight black acid ink line which has been used to show the outer limits of this area does not necessarily indicate the position of the Mean High-Water Line. It only indicates the outer limits of vegetation visible on the photographs taken approximately at the time of high-water.

31 LOW-WATER AND SHOAL LINES:

Shoal lines removed from manuscript.

The approximate outer limits of shoal areas bordering the Mean High-Water Line have been detailed in accordance with the field inspection data, and have been shown with a light-weight dashed black acid ink line. The note "Shoal" has been shown on the Overlay Sheet. The approximate outer limits of rock ledges bordering the Mean High-Water Line have been shown with the conventional symbol. Both of the above mentioned limits are for the use of the Hydrographic Parties only and should not be accepted as the position of the low-water line.

32 DETAILS OFFSHORE FROM THE MEAN HIGH-WATER LINE:

The approximate limits of several probable offshore reefs covered at Mean High-Water were detailed on the Map Drawing in accordance with the *See review* field inspection data, and have been shown with dashed light-weight black acid ink lines. In addition to these, there were a few reefs definitely identified by the Field Inspection Party. The limits of these reefs were detailed on the Map Drawing and have been shown with the conventional symbol. Offshore rocks have also been detailed and shown with the conventional symbol. The extent to which the reefs and rocks bare at Mean High-Water or Mean Low-Water has been shown by notes on the Overlay Sheet.

33 WHARVES AND SHORE LINE STRUCTURES:

Piers, retaining walls, etc., have been detailed in accordance with the field inspection data. Descriptive notes have been shown on the Overlay Sheet calling attention to all such shoreline structures.

34 LANDMARKS AND AIDS TO NAVIGATION:

Only one landmark which is located on Hollis Point was recommended by the Field Inspection Party. Its position was determined by radial intersection and has been shown with a $2\frac{1}{2}$ mm. black acid ink circle on the dull side of the Map Drawing in conjunction with its name and the note "Landmark". Form No. 567 has been submitted. *check letter #824 (1943) dated Oct. 27, 1943* The name of the landmark is "South Dormer, of two story white house". This landmark is also a recoverable topographic station.

35 HYDROGRAPHIC CONTROL:

See 12 pages of descriptions following report.

The positions of 167 temporary Hydrographic Signals and six Recoverable Topographic Stations have been radially plotted and shown on the dull side of the Map Drawing with $2\frac{1}{2}$ mm. black acid ink circles. The names of the Recoverable Topographic Stations in conjunction with the note "Recoverable" have also been shown on the Map Drawing. The descriptions and numbers of the temporary Hydrographic Signals and the names, numbers and descriptions of the Recoverable Topographic Stations have been tabulated in a list and submitted as an appendix to this report. Two copies of the list have been previously submitted to the Washington Office. The numbers of the temporary Hydrographic Signals have also been shown on the Overlay Sheet.

Form No. 524 has been submitted for the following six Recoverable Topographic Stations: *Filed under T-5623*

- ✓ East Gable, two story unpainted house 1943 (d)
- ✓ North Gable, gray house "
- ✓ East Gable, boat house "
- ✓ West Gable, red barn with gray roof "
- ✓ South Dormer, of two story white house (landmark) "
- ✓ North Gable, gray building "
- East Gable, Unpainted Barn, 1943 (d)*
- Cupola on Red Barn, 1943 (d)*

37 JUNCTIONS:

Satisfactory junction of the shore line and interior planimetry was made with Map Drawing, Survey No. T-5997 to the west.

Junction of the shore line and interior planimetry was made with the Western Part of Map Drawing, Survey No. T-5624 to the north and is considered satisfactory.

Satisfactory junction of the shore line and interior planimetry was made with the Western Part of Map Drawing, Survey No. T-5622 to the South.

37 JUNCTIONS: (cont'd)

The junction of interior planimetry with the Eastern Part of Map Drawing, Survey No. T-5623 has been made and is in satisfactory agreement. There was no junction of shore line to be considered.

38 GEOGRAPHIC NAMES:

Data pertaining to the geographic names in the Western Part of Survey No. T-5623 were furnished by the Field Inspection Party. *WA 814*

Tabulated lists of the disputed and undisputed geographic names shown on the Map Drawing have been submitted herein.

39 RECOMMENDATIONS FOR FUTURE SURVEYS:

The shore line and interior planimetry shown on the Map Drawing is believed to be complete in all details of importance and no additional surveys are recommended.

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 0.5mm. and of inland radial points and details of importance, not greater than 1.0mm.

44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

"Waldoboro Quadrangle" (15'), Maine, U. S. Geological Survey; edition of 1915; reprinted 1940, scale 1:62,500

Because of the large differences in scale between the Map Drawing and the above mentioned quadrangle, planimetric detail could not be readily compared. However, planimetry common to both is in fair agreement.

45 COMPARISON WITH NAUTICAL CHARTS:

Chart No. 313; Published July 1933; Reissued August 1938; scale 1:40,000.

Chart No. 1203; published June 1936; Reissued April 1938; scale 1:80,000.

Chart No. 1204; Published March 1942; scale 1:80,000.

Because of the large differences in scales between the Map Drawing and the above mentioned charts, planimetric detail could not be readily compared. However, planimetry common to both is in fair agreement.

Respectfully submitted,
October 16, 1943

Donald M. Brant
Donald M. Brant
Sr. Engineering Aid

Compilation & Descriptive
Report Reviewed by:

James E. Sunderland
James E. Sunderland
Sr. Photogrammetric Aid

Supervised by:

Walter E. Schmidt
Walter E. Schmidt
Asst. Photo. Engineer

Approved & Forwarded:
Dec. 1, 1943

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

LIST OF GEOGRAPHIC NAMES

Undisputed

- | | |
|---|--|
| ✓ • Delano Cove | ✓ • Ledge School (abandoned) |
| ✓ • Delano Hill | ✓ • Long Cove |
| ✓ • Dutch Neck | ✓ • Locust Island |
| ✓ • Farnsworth Point | ✓ • Medomak River |
| Fransworth Brook. ✓ • Farnsworth School (abandoned) | ✓ • Pitchers Point |
| Friendship (county) | ✓ • Pitchers Cove |
| ✓ • Goose River | ✓ • Sampson Cove |
| ✓ • Goose River (village) | ✓ • South Waldoboro (village) |
| ✓ • Goose River School | ✓ • The Narrows |
| ✓ • Hollis Point | Waldoboro (county) |
| ✓ • Hungry Island | ✓ • Wharton Island |
| ✓ • Lawry (village) | ✓ • Wolsgrover Island |
| | • Wiley Cove |
| ✓ • Boot Neck | |
| ✓ • Brimstone Hill | |
| ✓ • State No. 220 | |

Friendship and Waldoboro are not county but "town" or district names, not usually placed on these sheets. Names are o.k. if it is desired to use them - Add also Cushing (town or district) for eastern half of T-5623, and a small portion of Bremen. The county names would be Knox Co. and Lincoln Co., which are both on this sheet.

Names preceded by • are approved.

5/20/46
L. Heck

LIST OF GEOGRAPHIC NAMES

Disputed

~~Back River~~
~~Back River Cove~~

✓ Back Cove (also includes NEly
arm)

✓ Havener Ledge

~~Narrows Rock~~

~~Havener Ledge~~

~~Woods Neck~~

Bickmore Neck ✓

Names underlined in red approved
by L. H. ECK on 5/20/46

LIST OF GEOGRAPHIC NAMES

Undisputed

- | | |
|--|------------------------|
| ✓ • Back River (flows northerly) | ✓ • Fresh Pond ✓ |
| ✓ • Back River (w. side Meduncook R.) | ✓ • Goose River ✓ |
| ✓ • Cushing (village) | ✓ • Meduncook River ✓ |
| ✓ • East Friendship (village) | ✓ • Waterman Brook ✓ |
| ✓ • Far Meadow | ✓ • Wentworth Corner ✓ |

All names preceded by •
are approved. 5/20/46
L. Heck

• State No. 220

DESCRIPTIVE REPORT
OF COMPILATION
FOR THE EASTERN PART
OF
MAP DRAWING,
SURVEY NO. T-5623

28 DETAILING:

The detail limits of the Eastern Part of Map Drawing, Survey No. T-5623 are considered to be from Latitude $44^{\circ} 00' 00''$ to Latitude $44^{\circ} 03' 45''$, and from Longitude $69^{\circ} 15' 00''$ to Longitude $69^{\circ} 19' 00''$. The planimetry as detailed and shown thereon is in accordance with the instructions set forth in the Director's letters dated January 12, 1942, and April 1, 1942, pertaining to Project No. CS-272.

All planimetric details, where possible, have been shown with the conventional topographic symbols as recommended by the Washington Office. Deviations from this method of symbolization have been fully described by notes lettered on this Map Drawing.

The Eastern Part of this Map Drawing consists mainly of land area, the larger portion of which is grown with vegetation of the coniferous and deciduous species. Bordering the highways are a few cultivated areas and several small villages. None of the villages could be considered congested urban districts. The only tidal waters appearing in the area are small portions of the Meduncook and Back Rivers, the shore line of which consists mainly of firm ground bordered by rock bluffs and a few marsh areas.

Relatively strong positions of points radially plotted, have been shown on the glossy side of this Map Drawing with purple ink circles. The positions of points considered relatively weak have been shown with green ink circles.

The number of photographs was sufficient for office detailing. The scales of the photographs and this Map Drawing were in fair agreement. However, it was necessary to use the vertical projector to detail the planimetry in some areas of the Eastern Part of this Map Drawing.

The classification of all roads has been shown by notes on this Map Drawing and is in accordance with the field inspection data. Contradictory overlapping field inspection data of a road will be found on field photographs Nos. 7152 and 7147. The data pertaining to the road in question, as shown on field photograph No. 7147, were accepted as correct, *← agree with USGS field.* and notes which call attention to the contradiction have been made on the above-mentioned field photographs by this Compilation Office. All roads, except trails, unless otherwise noted are to be considered 0.6mm. wide.

The field inspection data pertaining to perennial and intermittent streams, and swamp and marsh areas were incomplete. This was obvious from a study of the U. S. Geological Survey Waldoboro Quadrangle (15') Maine, which was used as a guide while a stereoscopic examination of the photographs was made to determine the location of the above-mentioned features. Therefore, the streams, and swamp and marsh areas as detailed and shown on this Map Drawing with conventional symbols are in accordance with both field inspection data and stereoscopic examination of the photographs.

28 DETAILING: (cont'd)

In general, the classification of vegetated areas as shown by notes on this Map Drawing, is in accordance with the field inspection data. However, there were a few such areas the classification of which was determined from stereopsis, because the Field Inspection Party failed to furnish complete data.

It is believed that all private and public buildings where visible on the photographs, have been detailed and shown on this Map Drawing. In order to preserve clarity of detail, fences and narrow strips of vegetation parallel and very close to the edges of the traveled roadways were not shown on this Map Drawing.

30 MEAN HIGH-WATER LINE:

The Mean High-Water Line (firm ground) has been detailed in accordance with the field inspection data, and shown on this Map Drawing with a full heavy-weight black acid ink line, the center of which is believed to be the true position. The outer limits of marsh areas bordering the Mean High-Water Line have been shown with a full light-weight black acid ink line. This light line is only an indication of the outer limits of vegetation visible on the photographs, which were taken at approximately the time of high-water, and is not to be considered the true position of the Mean High-Water Line.

31 LOW-WATER AND SHOAL LINES:

The approximate outer limits of shoal areas bordering the Mean High-Water Line have been detailed in accordance with the field inspection data, and have been shown on this Map Drawing with a dashed light-weight black acid ink line, accompanied by the note "Shoal".

Since no field inspection data pertaining to the outer limits of rock ledge bordering the Mean High-Water Line were furnished, such features have been detailed in accordance with office interpretation, and have been shown on this Map Drawing with a full light-weight black acid ink line, accompanied by a descriptive note.

Both of the above-mentioned limits are for the use of operating hydrographic parties only, and should not be accepted as the position of the low-water line.

32 DETAILS OFFSHORE FROM THE HIGH-WATER LINE:

All offshore features have been detailed and shown on this Map Drawing 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 this Map Drawing.

33 WHARVES AND SHORE LINE STRUCTURES:

It is believed that no wharves exist along the shores of the tidal waters shown on this Map Drawing. The only shore line structure to be considered is a bridge across the Meduncook River which is to be discussed in paragraph 40 of this report.

34 LANDMARKS AND AIDS TO NAVIGATION:

The Field Inspection Party did not recommend any landmarks or aids to navigation within the Eastern Part of this Map Drawing.

35 HYDROGRAPHIC CONTROL:

The positions of seventeen (17) temporary hydrographic stations, and one (1) recoverable topographic station have been determined by radial intersection, and shown on this Map Drawing with black acid ink circles $2\frac{1}{2}$ mm. in diameter. A list of the descriptions and numbers of the temporary hydrographic stations has been shown on this Map Drawing just outside the detail limits. The numbers of the temporary hydrographic stations also appear on this Map Drawing in the immediate vicinity of the radially plotted positions of the stations. The description and number of the recoverable topographic station accompanied by the note "Recoverable", have been shown on this Map Drawing.

Descriptions listed in margin of map manuscript.

Form No. 524 has been submitted for the recoverable topographic station, the name of which is "Cupola on red barn".

Filed under T-5623

37 JUNCTIONS:

Junction of planimetric details has been made with the Western Part of Map Drawing, Survey No. T-5623, and is in excellent agreement. Satisfactory junction of planimetric details was made with Map Drawing, Survey No. T-5622 to the south, and with Map Drawing, Survey No. T-5624 to the north. The compilation of Map Drawing, Survey No. T-8001, which is to the east, has not yet been undertaken. The junction of the two Map Drawings will be made at a later date.

Junction checked.

38 GEOGRAPHIC NAMES:

The geographic names shown on the Eastern Part of this Map Drawing are in accordance with the data furnished by the Field Inspection Party. They have been compiled in a list and submitted herein. None of the names were disputed.

*14
214*

39 RECOMMENDATIONS FOR FUTURE SURVEYS:

The shore line and interior planimetry shown on the Eastern Part of this Map Drawing are believed to be complete in all details of importance insofar as the furnished field inspection data are concerned, and no additional surveys are believed to be necessary.

It is believed, that the positions of radial points and of well-defined objects are within the limits of satisfactory accuracy.

40 BRIDGES:

There are four bridges shown on this Map Drawing. The bridge which crosses the Meduncook River is the only one of the four considered to be of navigational importance. The type, and vertical and horizontal clearances of all the structures have been shown by notes lettered on this Map Drawing. *Not listed in USE Bridge List*

44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

Waldoboro Quadrangle (15') Maine, U. S. Geological Survey, edition of 1915, reprinted 1940, scale 1:62,500.

Since the scale difference between this Map Drawing and the above mentioned quadrangle is large, comparison of small planimetric details could not be readily made. However, planimetry common to both is in fair agreement, with a few exceptions: The limits of swamp areas as shown on the quadrangle are not in agreement with those as shown on this Map Drawing. Several of the private roads (double dashed lines) shown on the quadrangle were shown on this Map Drawing as trails. In several instances, private roads shown on the quadrangle were not visible on the photographs, and therefore, were not shown on this Map Drawing.

45 COMPARISON WITH NAUTICAL CHARTS:

Chart No. 313, published July 1933, reprinted August 1938, scale 1:40,000.

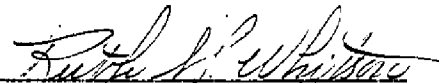
Chart No. 312, published May 1943, scale 1:40,000.

Chart No. 1203, published June 1936, reissued April 1938, scale 1:80,000.

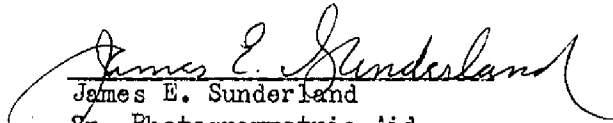
Chart No. 1204, published March 1942, scale 1:80,000.

Because of the large differences in scale between this Map Drawing and the above mentioned charts, small planimetric details could not be readily compared. However, planimetry common to both is in fair agreement.


Respectfully submitted,
November 30, 1943


Ruth M. Whitson
Sr. Engineering Draftsman

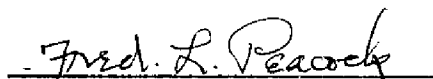
Compilation and Descriptive
Report Reviewed by:


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Approved and forwarded:
December 1, 1943


Fred. L. Peacock
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DESCRIPTIONS OF
TEMPORARY HYDROGRAPHIC SIGNALS, AND
NAMES AND DESCRIPTIONS OF RECOVERABLE TOPOGRAPHIC
STATIONS LOCATED BY RADIAL PLOT ON MAP DRAWING OF
SURVEY NO. T-5623 (WESTERN SECTION)
PROJECT NO. CS-272
SUB-PROJECT NO. CS-272-C

Total: 173 Stations
Listed by: Donald M. Brant
Copy Checked by: Mary R. Moore
Edwin Whittamore, Jr.

Notes:- The number in parentheses, such as (8'), included in the majority of the descriptive notes, indicates height above Mean High Water.

T-5623

SIGNAL NUMBER

DESCRIPTION

1075	(S. S.) Round boulder with green moss on top. (0')
1072	(S. S.) N. E. tip of granite outcrop. (Top) Forked oak 10 m. to S. W. Three very small patches of dark moss and grass close to tip (4')
1073	(S. S.) Tip of brush on rocky point (4')
1074	(S. S.) Tip of grass on point. (-1')
1071	(S. S.) S. Tip of offshore rock (4')
1069	(S. S.) Southerly of two lone tall pines in stumpy field. Pines are 60' tall. (6')
1068	(S. S.) 35' lone juniper tree. (5')
1070	West gab. of red barn with gray roof. (60') Recoverable Topographic Station.
1825	(S. S.) Three 35' birches on top of ledge. (4')
1067	(T. S.) Chy. in center of main part of unpainted house with composition roof. (40')
1065	(S. S.) Small clump of junipers 10 meters W. of 25' birch forked at base. Junipers are at base of rock outcrop running into water. (1')
1064	(S. S.) Tip of grass on point. (2')
1063	(S. S.) Lone clump of maples 10' tall growing off old stump. (2')
1062	(S. S.) Boulder on inshore side of break in ledge. Boulder is portion of ledge that has broken away. (0')

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SIGNAL NUMBERDESCRIPTION

1061	(S. S.) Tip of grass at inshore edge of granite ledge. Ledge is covered at M.H.W. (0')(Doubtful)
1060	(S. S.) Top of large offshore boulder (2')
1059	(T. S.) 20' lone pine on point. (6')
1058	(S. S.) 20' Spruce tree at edge of grass and on N. side of entrance to small opening in trees. Tall pines directly inshore. (0')
1057	(S. S.) N. tip of ledge covered partially with gray moss. 7120 . (3')
1056	(S. S.) Center of S.W. side of grass and moss on top of large granite outcrop. 7120 (10')
1066	(T. S.) N. gable of gray building on hill. White house just south of and slightly higher than gray building. 7120 (70') <i>Recoverable</i>
2019	50' Large scraggly pine N. E. of bight. 7120 (3')
2020	Tip of brush on point. 7120 . (0')
2021	Top center of whale-back white ledge N. W. of large sloping ledge at tree-line. 7120 (2')
2022	40' overhanging birch with large limb half-way to its top pointing E. 7120 (2')
1844	10' Scraggly spruce on point (1' rock at its base.) (2') (S. S.)
1845	(S. S.) Highest part of reef in cove. (3')
1846	(T. S.) S. gable of unpainted house with 7 windows in S. side. (35')

SIGNAL NUMBERDESCRIPTION

1847	(S. S.) Brown 4' rock W. of grass. (2')
1848	(S. S.) 5' white rock lying on ledge - N side of mouth of bight. (3')
1849	S. W. tip of small bushes on top of steep ledge. (S. S.) (4')
1850	(S. S.) 35' birch leaning over water another smaller one to the N. E. (0')
1851	(S. S.) Tip of brush on high part of ledge. 7119 (6')
1852	(S. S.) Top center of largest boulder (6') S of smaller rocks (1')
1853	(S. S.) 15' Evergreen tree E of opening in forest. (3')
1854	(S. S.) Brown 4' rock S. E. of dirt bank. (0') 7119
1822	(S. S.) Top of bare patch on ledge Id. (4')
1823	(S. S.) 6' Boulder W. of 2' rocks. (2')
1824	(S. S.) Tip of ledge which drops abruptly at waters edge and has many cracks. (2')
1825	(S. S.) Three 35' birches on top of ledge. (4')
1225	(S. S.) S. Tip of high water rocks of H.W.L. (3')
1862	(S. S.) 5' boulder 15 N. offshore from grass line (1')

<u>SIGNAL NUMBER</u>	<u>DESCRIPTION</u>
1863	(S. S.) W. tip of broken ledge which slopes down toward shore. It is N. of white ledge. It has a crack on N. side which also slopes down to E. (1')
1864	Top center of rounding ledge. It has a little white patch on top. The ledge is surrounded with grass. (0') (S. S.)
1865	(S. S.) N. tip of small bushes on pt. (3')
1866	(S. S.) 6' Spruce tree on low ledge N. of high ledge. (2')
1867	(S. S.) Top of offshore ledge sloping down to N. E. It has 3' rock on N. E. edge. (1')
1868	(S. S.) Tip of bank beneath old stump on pt. (1')
1869	(S. S.) White top center of rounding ledge on W. side of channel. (1')
1870	(S. S.) H. W. L. on tip of ledge with orange streaks. (0')
1871	(S. S.) 2' rock N. E. of pine tree on pt. It lies in the grass (3')
1872	(S. S.) Tip of vegetation on pt. N. of small bushy tree. (3')
1873	(S. S.) Top center of offshore ledge. (4')
1874	(S. S.) Top center of most S'ly hump of offshore ledge. (1')
1826	Old 18' spruce S of stump on S. E. side of Id. It has moss hanging from lower limbs. (4')

SIGNAL NUMBER

DESCRIPTION

1827	(S. S.) Most northerly 6' boulder in bight. (4')
1828	(S. S.) Top of camel humped ledge S. humped with white streaks. (2')
1829	White 3' rocks lying in gravel. (2')
1302	(S. S.) Top of large boulder 80 meters S high-water rock (2')
1303	(S. S.) Large gray boulder at M. H. W. line. (0')
1304	(S. S.) Top of high water rock. (2')
1305	(S. S.) S. W. tip of brush on round point (5')
1306	(S. S.) Tip of grass on N. tip of island. (4')
1307	(S. S.) Tip of brush and trees on N. E. point of island. (3')
1308	(S. S.) S. E. tip of white rock. (2')
1309	(S. S.) Tip of brush on point on N. W. side of cove. (4')
1310	(S. S.) 20' Spruce on pt. forming S. entrance to cove. (3')
1311	(S. S.) Most S'y of group of boulders. (2')
1312	(S. S.) S. E. tip of reef bare 1' at 2:50 7-16-43. 1.0' above M.L.W.
1313	(S. S.) 15' lone spruce on pt. (5')
1314	(S. S.) Top of H. W. rock (3')

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SIGNAL NUMBERDESCRIPTION

1315	(S. S.) Top of brown rock near head of cove. (0')
1316	(S. S.) Tip of white ledge (3')
1336	(S. S.) Grass patch on top of long rock point F. of bight. (3')
1335	(S. S.) Spruce tree 25' bare halfway up and bushy top. (3')
1337	(S. S.) Top of rock awash 10:00 A.M. 7/17/43 100' S. of sandy point (0') 0.3' above M.H.W.
1338	(S. S.) W'ly of grass on rounding pt small spruces just inshore. (2')
1339	(S. S.) N.W. pt of granite rock N. W. of three small shacks. (1')
1340	(S. S.) H. tip of island at H. W. mark. (0')
1341	(S. S.) 8' bushy spruce on N. end of island on edge of brush line (4')
1342	(S. S.) Tip of brush on S. end of island (2')
1343	(S. S.) Center of grass patch on top of rock (5')
1344	(S. S.) Lone 15' scrawly tree on 12' offshore rock; grass at base of tree. (4')
1345	S. tip of grass line on island 10' from bushes. W'ly (4')
1346	Patch of grass on rocky pt on N. E. tip of island. (3')
1347	(S.S.) Offshore rock W. of small island N.E. of house with red roof. (2')

<u>SIGNAL NUMBER</u>	<u>DESCRIPTION</u>
1359	(S. S.) Center of grass in hollow in rocks on point W. of bight. (0')
1358	(S. S.) N. tip of grass patch on S. side of long rocky L shaped point. (0')
1349	(S. S.) N. tip of rock on rounding point 2' tree growing out of E. side. (8')
1350	(T. S.) S. gable white house red roofed balcony on S. side. (35')
1351	(S. S.) Top of N. E. tip of rock connected to shore at L. W. grass to S. (2')
1352	(S. S.) 3' round boulder on top of sloping rock pt E. of two small boulders. (3')
1353	(S. S.) Tip of high rock on point. (3')
1354	(S. S.) 4' light boulder on rounding point on edge of H. W. line. (3')
1355	(S. S.) Flat white rock laying on ledge 5' from brush line. (3')
2007	(S. S.) Rock 150 m. off of a point. (0')
2006	(S. S.) Northwesterly of two rocks 110 m. off shore. (0')
2005	7' boulder on N. side of pt. E of grass. (2')
2004	E. gable of boat shed with white door. Recoverable Topographic Station. (15')
2003	(S. S.) White topped 4' rocks on M.H.W.L. on gravel beach S. of 5' boulder on pt. (2')

SIGNAL NUMBERDESCRIPTION

1975	(S. S.) Top of E. end of most southerly whale-back rock. (0')
1974	(S. S.) N. tip of ledge at (H. W. L.) S. of grass patch in bight. (0')
1973	(S. S.) Center of 4' rock. W. of broken ledges and on S. side of grass at head of cove. (1')
1971	(S. S.) 3' gray rock on ledge detached from shore (2')
1970	(S. S.) S. high part of ledge on pt S. of grass and E. of a high birch. (1')
1821	(S. S.) Tip of grass on small pt in bight. (1')
1820	(S. S.) Top brown ledge on pt, on the W. side it has a lava looking formation (1')
1819	(S. S.) 3' White rock N of 6' boulder. (3')
1818	(S. S.) Top center of whale back ledge 10 m. (offshore) from tree line. (-1')
1817	(S. S.) 6' Spruce on ledge. (10')
1816	Brown 7' boulder 25 m. S. of ledge.
1963	(S. S.) White 3' rock S. of group of rocks on brown ledge pt. (0')
1964	(S. S.) Tip of grass S. W. of small birch. Small bushes to S. E. of it. (1')
1965	(S. S.) Top center of offshore whale-back ledge N. of two other ones. (-1')

<u>SIGNAL NUMBER</u>	<u>DESCRIPTION</u>
1966	(S. S.) Large 50' pine tree on top of jagged ledge. (0')
1967	(S. S.) S. E. tip of ledge which has large spruce on top. (0')
1968	(S. S.) E. ledge at H. W. L. of two ledges on ptg of cove. (0')
1348	(S. S.) Center 6' square rock. 10' off shore. S of fallen birch tree. (3')
2032	End of steps at grass line. (1')
2033	Offshore rocks awash (1')
2034	Pointed 3' rocks on N. side of rounding point. (1')
2035	N. gable of white 2 story house. It is connected to a shed. (90') (T. S.)
2036	Tip of vegetation on grassy neck of land at H. W. L. (0')
2037	Base of dead 35' oak on N. side of head of bight. It is forked at base. (1')
2042	S. E. corner of pier. (2')
2043	Top of flat ledge W. of small rocky Id. (1')
2044	(T. S.) "S. dormer of two story white house" with green roof (40'). (Stone chimney on house) (Landmark) also recoverable topographic sta.
2045	50' Flag pole on pt. Weather vane on top. Base pricked. (5')

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<u>SIGNAL NUMBER</u>	<u>DESCRIPTION</u>
2046	Peak of roof on end of pier. (10')
2047	50' Flag pole on pt. Weather vane on top. Base pricked. (10')
1050-A	Large boulder at head of cove. (0') (S. S.)
1052	(S. S.) Tip of outcrop forming tip of point. (-2')
1053	(S. S.) Tip of low junipers at inshore end of long ledge forming point. (5')
1054	(S. S.) Tip of granite outcrop at M.H.W. (0')
1055	(S. S.) Highest point of low rock outcrop opposite point at head of cove. (0')
2024	Tip of brush at pile of rocks on S. end of Id. (1')
2023	Base of 18' overhanging spruce on pt. (1')
2025	S. most tip (of two) of grass on pt. (There is a V in grass just S. of pt.) (2')
2026	25' Spruce. It is the most W'ly spruce on E. side of entrance to stream. (1')
2027	S. tip of grass on offshore ledge. (1')
2028	Gray rough 4' rocks. A white one is to the S. and 3 white rocks to N. (1')
2029	Square 6' boulder N. of hugh birch. (0')
2030	N. tip of grass on pt with group of birches to the S. (1')

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<u>SIGNAL NUMBER</u>	<u>DESCRIPTIONS</u>
2031	50' Deciduous tree at head of bight W. of two tall spruces. (1')
1952	Top of rounding ledge N. W. of pointed rock (0')
1953	Top center rough ledge in center of bight. (S. S.) (1')
1954	(S. S.) N. tip of brush N. of birch trees. (2')
1955	(S. S.) Tip of grass on white ledge pt. (2')
1956	(S. S.) Top of rounding offshore ledge N. of Id. with bushes. (2')
1957	(S. S.) N. tip of brush on small pt. W. of larger pt. (1')
1958	N. gable of gray house with white wall on N. end. (Recoverable Topographic Station) (30')
1959	(S. S.) Door of brown boat shed with green roof (Base of door pricked) (3')
1960	(S. S.) Tip of vegetation on W end of bight (2')
1961	(S. S.) White knob on brown offshore ledge. (2')
1962	W. tip of ledge at N. W. L. in cove. (0')
1914	Top center of offshore rock E of small cove. (S. S.) (3')
1915	(S. S.) Largest 30' spruce on N end of Id. (8')
1916	(S. S.) Top center of brown ledge E. of another. (2')

SIGNAL NUMBER

DESCRIPTION

1830	Recoverable Topographic Station. E. gable of 2 story unpainted house with chimney in center (45')
1831	(S. S.) Ledge 50 m. from shore S end highest pt. (-2')
1832	(S. S.) Top brown ledge 20 m. from point (1')
1833	(S. S.) Tiny grass patch on pt. of ledge S. of another ledge. (-2')
1834	(S. S.) E. tip of brush line on W. side of mouth of cove. (3')
1835	(S. S.) 30' Spruce with tall stump to the W. (2')
1836	(S. S.) Top center of flat ledge 35 m. offshore (-2')
1837	(S. S.) S E corner of pier. (1')
1838	(S. S.) Top center S by hump of ledge 85 m. from shore.
1839	(S. S.) Top center of offshore HW rock.(4')
1840	(S. S.) Top of jagged ledge 20 m. from shore.(9')
1842	(T. S.) S. W. gable of boat house in bight. (15')
1843	(T. S.) S. gable of white boat house with light green trim. (20')
1841	Top center of whale back ledge. 40 m. from Pt. (S. S.) (-4')
1051	(S.S.) Lone large boulder (0')

Division of Photogrammetry
Review of Planimetric Map T-5623

Field Inspection and Detailing.

Numerous changes in shoreline were made on this manuscript during review. These are shown in red and green ink, as discussed in subsequent paragraphs.

As received from the photogrammetric office, the mean high water line had been compiled strictly in accordance with detailed field inspection photographs. However, in the summer of 1944, the hydrographic party reported that this shoreline was erroneous in many places and suggested that the previous topographic surveys in general gave a better interpretation. Office investigation indicated that the field inspection had been much too generalized and apparently in error in many cases as regards the identification of the high water line.

During the review, the compiled shoreline has been compared with the previous topographic surveys, the contemporary hydrographic survey, and the photographs. In many instances the old surveys did seem to give a better interpretation, the field inspection apparently having placed the mean high water line too far off shore. In such cases, the field inspection information has been disregarded and the shoreline corrected on the manuscript in red in accordance with reviewer's interpretation based on the above studies.

In 1944, the hydrographic survey was completed for this area. Although it was of little assistance in correcting the shoreline, it was of considerable help in determining the full extent of rock ledges and reefs. Such detail has been transferred from the hydro. survey and shown on the manuscript in green.

Mean High Water Line.

With reference to the preceding paragraphs, extensive changes were made in the mean high water line during this review. These changes are shown in red. They involve largely the movement of the high water line on rock ledges. The high water line was changed as much as 60 meters at latitude 44° 02.7' - longitude 69° 22'.

Major changes of this nature have been necessary on several of the manuscripts on project 272C. This condition is also discussed in the review of T-5622.

Comparison with Contemporary Hydrographic Surveys.

H-6964 1944 1:10,000

Since the photographs in this area were taken at approximately high water, the ledges, reefs, and rocks could be seen only partially. Therefore, the low water features were transferred from the hydro. survey wherever they seemed more complete. Such detail is shown in green on the manuscript. There is no conflict of other low features with plus soundings.

~~The high water line on the hydrographic survey is superseded by the shoreline as shown on the map manuscript wherever there is disagreement.~~

The high water line on the smooth hydrographic sheet was taken from T-5623 prior to this review. Because of the changes made on the manuscript T-5623 during review, as discussed in preceding paragraphs, high water line details between this manuscript and H-6964 are no longer in agreement. The high water line as now shown on T-5623 should be accepted as the best interpretation.

There are a number of small islands shown on the manuscript which do not appear on the hydro. survey. They are usually inside or close to the rock ledge line. The existence and shape of these small islands were determined after taking into account the data supplied by the field inspection party, their appearance on the photographs, and a comparison with the previous topo. survey. See for instance the small island at Lat. $44^{\circ}01.5'$ - Long. $69^{\circ}22.5'$.

Comparison with Previous Surveys.

T-1058 1866 1:10,000
T-1076 1867 1:10,000

The shoreline is in fair agreement in some places *and differs in others*. ~~Much of it shows that it has receded because of the destructive action of tides and weather. However, there is also much of the shoreline that has apparently advanced rather than receded,~~ as much as 50 meters at Lat. $44^{\circ}01'$ - Long. $69^{\circ}20.8'$. This is probably due to relatively low accuracy in the earlier survey *and to differences in interpretation on rock ledge.*

In the interior the main roads are in good agreement, but the rest of the detail shows considerable change. T-1076 and T-1058 are superseded except for the contours and the low water features such as reefs, rock ledges, etc.

Comparison with Nautical Charts.

No. 313	April 15, 1944	1:40,000
No. 312	May 19, 1944	1:40,000

The position of the only landmark in this area "House S. Dormer" was redetermined. It is described on form 567, chart letter No. 824 (1943). The detail of this survey, including the HWL, should be applied to the charts when they are reconstructed.

T-5623 was applied to chart 313 prior to this review. Changes made on the manuscript during review and shown in red and green ink affect the chart.

Bridge Data.

The data for two bridges over the Meduncook River are listed in the margin of the manuscript. These bridges are not described in the 1941 Bridge List of the U.S.E.

Reviewed by:

Reviewed under direction of:

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