

8797 N&S

Cutler

Diag. Cht. No. 1201

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. Office No. T-8797

LOCALITY

State MAINE

General locality WASHINGTON COUNTY

Locality CUTLER

1946-'49

CHIEF OF PARTY

R.A.Gilmore, Chief of Field Party

T.B.Reed, Balto. Photo. Office

LIBRARY & ARCHIVES

DATE August 8, 1950

2628

DATA RECORD

T - 8797

Project No. (II):
PH-11(46)

Quadrangle Name (IV): Cutler

Field Office (II): Machias, Maine

Chief of Party: Ross A. Gilmore

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: Thos. B. Reed

Instructions dated (II) (III):

May 9, 1946 + Sept 18, 1946

Copy filed in Division of
Photogrammetry (IV)
Office Files

Method of Compilation (III): Air photographic (multiplex)

Manuscript Scale (III): 1:8500

Stereoscopic Plotting Instrument Scale (III): 1:8500

Scale Factor (III): 1.000

Date received in Washington Office (IV): 8-17-49 Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 7-17-50

Publication Scale (IV): 1:24000

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III):

LOOKOUT, 1863

Lat.: 44° 39' 23.540"

Long.: 67° 11' 57.451"

Adjusted
~~Unadjusted~~

Plane Coordinates (IV):

State: Maine

Zone: East

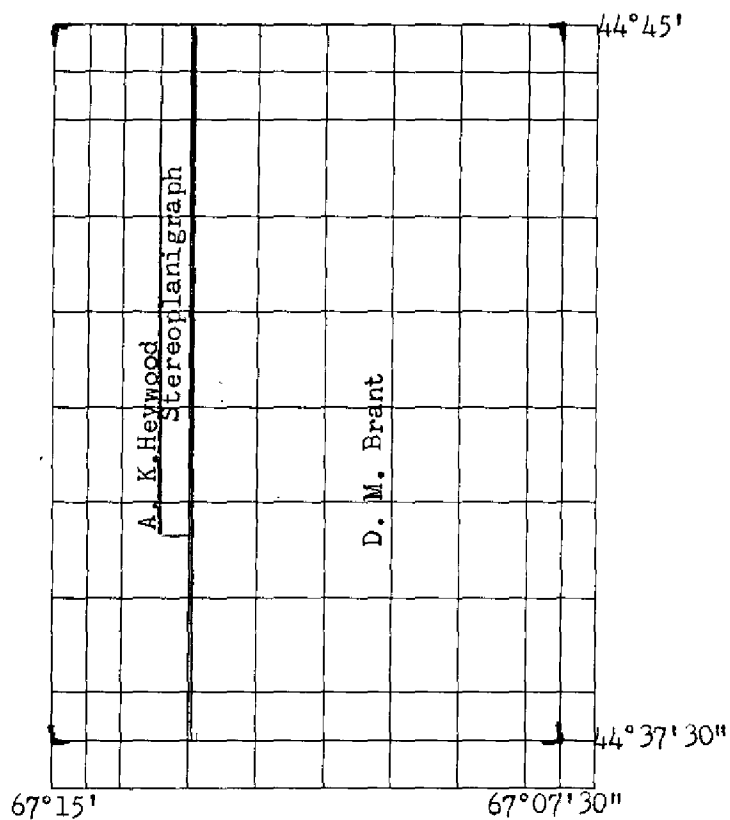
Y=

X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

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Areas contoured by various personnel
 (Show name within area)
 (II) (III)

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DATA RECORD

Field Inspection by (II): Herschel G. Murphy
Lewis V. Evans, III
Edward H. Taylor

Date: July, Aug. 1946

Planetable contouring by (II):

Date:

Completion Surveys by (II): George E. Varnadoe
William H. Shearouse
John R. Smith
John H. Gwaltney

Date: June, July
1949

Mean High Water Location (III) (State date and method of location):
July-1946, See item 30 of Descriptive Report

Projection and Grids ruled by (IV): H.R.

Date: 12-19-47

Projection and Grids checked by (IV): H.R.

Date: 12-19-47

Control plotted by (III): D.M.Brant, A.K.Heywood

Date: Feb. 1948

Control checked by (III): M.T.Jacob

Date: May 1948

~~Photogrammetric~~ Stereoscopic

Control extension by (III): A.C.Rauck, Jr.

Date:

Dec. 1947

Stereoscopic instrument compilation (III):
*Planimetry D.M.Brant
A.K.Heywood
*Contours D.M.Brant
A.K.Heywood

Date: April-June 1948
Sept. 1948
Date: April-June 1948
Sept. 1948

Manuscript delineated by (III): M.L.Rosenberg $\frac{N}{2}$
Bernice Wilson $\frac{S}{2}$

Date: March 1949

Photogrammetric Office Review by (II):
Henry P. Eichert

Date:

May, 1949

Elevations on Manuscript
checked by (II) (III): Henry P. Eichert

Date: May, 1949

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Camera (kind or source) (III):

Number	Date	Time (EST)	Scale	Stage of Tide
46C-81-85	5/23/46	9:55	1:20,000	1.4' above MLW
46-C-86-89	"	9:55 10:00	"	No tidal water
46-C-172-77	"	13:15	"	8' above MLW
46-C-178	"	13:15	"	No tidal water
46-C-370-75	5/29/46	13:55	"	About MLW
46-C-376-79	"	13:55	"	No tidal water
46-C-594-96	5/30/46	9:25	"	No tidal water
46-C-646-50	"	10:20	"	" " "
46-C-651-53	"	10:20	"	1.5' above MHW
48-C-16-28	5/4/48	---	"	---

Tide (III)

Reference Station: Eastport, Me.
Subordinate Station: Cutler, Little River
Subordinate Station: Moose Cove

Ratio of Ranges	Mean Range	Spring Range
1.0	18.2	20.7
0.8	13.9	15.9
0.8	14.8	16.9

Washington Office Review by (IV): C. Theurer

Date: Jan 19, 1950

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 39

Shoreline (More than 200 meters to opposite shore) (III): 3 statute miles

Shoreline (Less than 200 meters to opposite shore) (III): 16 statute miles

Control Leveling - Miles (II): 31.4

Number of Triangulation Stations searched for (II):

Recovered:

Identified:

Number of BMs searched for (II):

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): 16

Number of Temporary Photo Hydro Stations established (III): 44

Remarks:

* See item 28 for work done at the Washington Office

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MAP T. 8797

PROJECT NO. PH-11(46)

SCALE OF MAP 1:8500

SCALE FACTOR 1.176

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y-COORDINATE LONGITUDE OR X-COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
					FORWARD (BACK)		FORWARD (BACK)		FORWARD (BACK)	
MAKERS' HO. CHIMNEY, 1883	G.P. List	N.A. 1927	44 40	56.425	(Topographic Station)		1741.7	(110.4)	2049.1	(129.9)
			67 11	06.620			145.8	(1175.6)	171.5	(1383.1)
HUES, 1883	"	"	44 39	49.331			1522.7	(329.4)	1791.4	(387.5)
			67 10	37.575			827.8	(494.0)	973.9	(581.2)
SANDY PT., 1863	"	"	44 40	22.602			697.7	(1154.4)	820.8	(1358.1)
			67 09	25.404			559.6	(762.0)	658.4	(896.4)
LOOKOUT, 1863	"	"	44 39	23.540			726.6	(1125.5)	854.8	(1324.1)
			67 11	57.451			1265.8	(56.1)	1489.2	(66.0)
DAVIS, 1862	"	"	44 39	03.600			111.1	(1741.0)	130.7	(2048.2)
			67 13	15.252			336.1	(986.0)	395.4	(1160.0)
LEDGE, 1883	"	"	44 41	01.711			52.8	(1799.3)	62.1	(2116.8)
			67 11	38.767			853.8	(467.6)	1004.5	(550.1)
ACKLEY'S HO. CHIMNEY, 1883	"	"	44 39	15.742			485.9	(1366.2)	571.6	(1607.3)
			67 13	13.849			305.1	(1016.9)	358.9	(1196.4)
DENNISON, 1883	"	"	44 38	27.758			856.8	(995.3)	1008.0	(1170.9)
			67 14	10.932			240.9	(1081.4)	283.4	(1272.2)
DIVIDE, 1883	"	"	44 43	39.314			1213.6	(638.5)	1427.7	(751.2)
			67 08	08.213			180.7	(1139.6)	212.6	(1340.7)
HUNTLEY, 1883	"	"	44 39	15.724			485.4	(1366.7)	571.0	(1607.9)
			67 14	28.388			625.5	(696.5)	735.9	(819.4)
POND, 1883	"	"	44 42	18.625			574.9	(1277.2)	676.3	(1502.6)
			67 07	48.138			1059.7	(261.2)	1246.7	(307.3)
HILL, 1883	"	"	44 42	21.239			555.6	(1196.5)	771.3	(1407.6)
			67 09	15.103			332.5	(988.4)	391.2	(1162.8)

1 FT. = 3048006 METER

COMPUTED BY: Henry P. Eichert

DATE: Winter-1946-1947

CHECKED BY: Edwin L. Bauman

DATE: Winter 1946-1947

M-2388-12

-
- 46-C-90 46-C-980 46-C-644 46-C-648 46-C-178 46-C-592 46-C-653 46-C-371 46-C-171 46-C-81
- 232 258 234 233 235 241 261 240 238 259 237 260 242 239
- Cutler
- △ Triangulation Sta-Identified + held in extension
 △ " " Not held
 ⊙ " " Not identified

SKETCH OF HORIZONTAL CONTROL

✓

FIELD INSPECTION REPORT

TO ACCOMPANY

QUADRANGLE NO. 8797

PROJECT Ph-11(46)

AUGUST 1946

1 - DESCRIPTION OF AREA:

This 7½ minute quadrangle lies within Washington County in eastern Maine. It is bounded on the north by N. Lat. 44°-45'-00", on the south by N. Lat. 44°-37'-30", and on the east and west by W. Long. 67°-07'-30" and W. Long 67°-15'-00" respectively. The area covered is approximately 37 square statute miles.

Photogrammetric Field Inspection was accomplished in July and August of 1946, under the direction of Lieut. Comdr. Ross A. Gilmore, according to instructions dated 9 May 1946.

The principal cultural features are Maine Highway No. 191 which enters the southwestern edge of the area and runs generally southeast to the village of Cutler, and then runs generally northeast leaving the quadrangle around Moose River. Another road, called the Cutler-Whiting road, and which is now used only for logging operations, leaves highway No. 191 approximately one mile north of Cutler and runs through the center of the quadrangle in a general north and northeast direction. There is one small village named Cutler located in the southwestern corner of the quadrangle. This road does not run through.

The vegetation consists mainly of pine, spruce, fir, hackmatack, maple, birch, and alder. There are marshy areas along the streams and several peat bogs. Except for small garden spots, there is practically no cultivated land in the area. However, areas from which blueberries are harvested has been discussed under item No. 19 in the report for quadrangle 8795 and reference is hereby made to that report.

~~Filed in Div. of Photos, General Files.~~
Bureau Archives

The shoreline is rocky and rugged, being exposed across the width of the quadrangle. Solid rock bluffs rise to about 60 feet maximum. An occasional short, sandy beach may be found in the small coves. There are no marshy areas. along the shoreline.

2 - COMPLETENESS OF FIELD INSPECTION:

The field inspection is complete. All important features such as buildings, roads, bridges, and vegetation were identified or classified in accordance with current instructions.

Field inspection for quadrangle 8797 was done on the following
1:20,000 single lens photographs: 46 C 83, 84, 373, 374, 376, 377, 594,
649. 650.

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3 - INTERPRETATION OF THE PHOTOGRAPHS:

Photographic tone varies from the dense, smooth black of ponds and streams to the near white of plowed ground. Softwood areas generally have a heavy dark, somewhat grainy appearance, with the exception of hackmatack, a coniferous tree, which has a very small light green leaf giving almost the same appearance as birch or alder and other hardwoods. Mixed coniferous and deciduous trees (WM) present a more rough pebbly texture than mixed hackmatack and other conifers (WS).

Peat bogs have a powdery gray tone with the edges well defined, while blueberry barrens (See Item No. 19, report for quadrangle 8795) usually have the smooth gray tone mottled with lighter gray, and the edges of the area are generally ragged, except recently burned over areas which show as a dark gray and usually have sharply defined limits as the fires are controlled at property lines.

Marshy areas follow the irregular course of most streams and the tone is irregular white to gray, darker than that of peat bogs, depending on the relative amounts of dead marsh grass and alders or birch trees.

Ledge outcrops have a light tone criss-crossed by very angular darker lines giving the whole a hard, angular appearance.

4 - HORIZONTAL CONTROL:

A search was made for all known horizontal control stations consisting entirely of Coast and Geodetic Survey triangulations. All stations recovered were identified with the exception of the following: DIVIDE, 1883; HILL, 1883; POND, 1883; RAVINE, 1863; DENNISON, 1863; HUNTLEY, 1883; and OLD MAN, 1863. None of these stations were identified since, ^{lost} in each case, the stations were so located that identification would have required an excessive amount of time. The horizontal control requirements as specified on horizontal control index (Par. 7a(3) of the Instructions) were adequately met without these stations.

The following photographs were used for identification of horizontal control: 1: 8,500 scale ratio prints Nos. 46 C 173, 175, 176, & 373.
1:20,000 " contact " No. 46 C 375.

5 - VERTICAL CONTROL:

All vertical control stations of the Coast and Geodetic Survey and the Geological Survey were searched for and those stations recovered were identified on the photographs.

Additional temporary vertical control was established by trigonometric methods carrying elevations to the nearest tenth of a foot. No closures exceed the maximum allowable. The average error of closure was

less than one foot. A few short hand level lines were run where thickly wooded areas were found. These hand level lines were closed back on the trigonometric level lines, the average error closure being less than one foot. Level lines with a closure exceeding one foot were adjusted.

Level points were identified, pricked and circled on the front of the photographs. The points were then circled, numbered and the elevations noted on the back of the photographs, with the exception of tidewater closures. These were circled and numbered on the back but no elevation inked. The code letters CU prefix all spot elevations.

Elevations underscored by a solid line indicate the loop was closed on a previously determined elevation point or on a standard bench mark.

About 31.4 statute miles of 4th order levels were run. 39 temporary elevation points were established. The following 1:20,000 single lens contact prints were used: 46 C 83, 84, 85, 87, 88, 89, 374, 375, 377, 378, 593, and 649.

6 - CONTOURS AND DRAINAGE:

Inapplicable.

7 - MEAN HIGH-WATER LINE:

See report for quadrangle No. 8800.

The following 1:8500 scale ratio prints were used for shoreline inspection: 46 C 82, 84, 172, 173, 174, 175, 176, and 177.

8 - LOW-WATER LINE:

The 1:8500 scale enlargements were taken at or near low water. The low water line was identified on these using the symbol alternate dot and dash where identification was positive and dots alone where approximate.

9 - WHARVES AND SHORELINE STRUCTURES:

All wharves and shoreline structures have been indicated and labelled on the photographs.

10 - DETAILS OFFSHORE FROM HIGH-WATER LINE:

Wherever rocks or ledges were awash at, or below mean high water, a note was made on the photographs as to how much the rock or ledge bared,

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the time and date. In some instances the approximate location was sketched in and the forementioned notes affixed.

11 - LANDMARKS AND AIDS TO NAVIGATION:

There are no ~~additional~~ recommended landmarks for this quadrangle. The Little River Lighthouse is in this quadrangle, it has previously been located by triangulation and was recovered and identified on the 1:8500 ratio scale photograph. Form 567, Nonfloating Aids, has been completed and submitted under separate cover.

Ch Let. 584(49)

12 - HYDROGRAPHIC CONTROL:

An effort has been made to establish sufficient hydrographic control, although this was difficult in some areas because of dense woods along shore which made objects hard to identify and describe.

Objects suitable for hydrographic signals were pricked on the photographs for future use by the hydrographer and numbered in accordance with instructions, and a short description recorded in field sketch-book Vol. 4. The objects used consist of lone trees, or outstanding trees, points of ledge along shore, large boulders, corners of piers, chimneys of houses and gables.

In addition to the above, recoverable topographic stations were established at intervals not in excess of 1 mile. Where these stations could not be pricked directly on the photographs, the substitute station method was used. Description of Recoverable Topographic Station, Form 524, and control station identification cards for those stations employing a substitute station, have been executed.

Filed in Div. Photogr. General Files

There are 13 topographic stations and 64 hydrographic signals in this quadrangle.

13 - LANDING FIELDS AND AERONAUTICAL AIDS:

None.

14 - ROAD CLASSIFICATION:

Roads were classified in accordance with "General Instructions - Classification and Compilation of Roads" dated 30 June 1945.

The road running generally in a north, south direction in the center of the quadrangle, and known locally as the Cutler-Whiting road, is no longer useable for commercial traffic, and is only used for logging operations. A small bridge across Bogby Brook has been destroyed and never replaced.

15 - BRIDGES:

There are no bridges over navigable waters. The usual small bridges over creeks and branches have been indicated as a part of interior inspection.

16 - BUILDINGS AND STRUCTURES:

Buildings and structures were identified by encircling them with small red ink circles. Public buildings and isolated mills were labelled. Only those buildings worthy of being shown on the photographic compilation were circled.

17 - BOUNDARY MONUMENTS AND LINES:

This will be the subject of a special report to be submitted by Harold A. Duffy, Photogrammetrist. Filed in Div. of Phtg - General Files

18 - GEOGRAPHIC NAMES:

Same as 17 above.

Note: Work on items 1,2,3,5,14, and 16 was done by Herschel G. Murphy,
Eng. Aid;
" " item 4 was done by Lt.(jg) Lewis V. Evans, III;
" " items 7,8,9,10,11, and 15 was done by Edward H. Taylor,
Eng. Aid

Respectfully Submitted;

Herschel G. Murphy
Herschel G. Murphy, Eng. Aid

Lewis V. Evans
Lt.(jg) Lewis V. Evans, III

Edward H. Taylor
Edward H. Taylor, Eng. Aid

Approved and Forwarded:

Ross A. Gilmore
Ross A. Gilmore, Chief of Party

COMPILATION REPORT

TOPOGRAPHIC MANUSCRIPT

SURVEY NO. T-8797

The general methods of compilation, horizontal control extension and radial plots, including recommendations for future projects are fully discussed in compilation report for Project PH-11(46). Only items specifically applicable to this map and not included in the above are discussed in this report. Filed in ~~Div. of Hydrographic Charts~~ *Project Completion Report in Bureau Library*

26. CONTROL

Attached to this report is a "Sketch of Horizontal Control" for this map.

28. DETAILING

A reflight of photographs was necessary to complete a strip on the west portion of the manuscript. A gap was left between 46-C-84-89 and 46-C-374-379. This gap was closed at the Washington Office with the stereoplanigraph using the reflight of photograph 48-C-16-22. This work was submitted to the Baltimore Compilation Office on 1:8500 work sheets. Editing and adjustment were accomplished to close the gap. A reflight 48-C-23-28 to the east was not needed to close this gap.

The island "Old Man" was without stereoscopic coverage. Points for detailing the shoreline were established from a monoscopic image using model 46-C-82-83. As the island has contours they will have to be done in the field. Contoured by Field Editor.

29. SUPPLEMENTAL DATA

A photostat-Little River Light Station, Maine - surveyed 13 Sept. 1892, scale 1:1200, was furnished but not used.

30. MEAN HIGH WATER LINE

Some changes were made in the MHWL location as furnished on the field inspection photographs along the entire shoreline and particularly north of Cutler. Use was made of photographs 46-C-651-53 which were taken about one and one half feet above MHW, but on which no inspection was furnished. The stereoscope was used extensively during these operations. MHWL checked by Field Editor.

Refer, also, to item 28 for manner of locating MHWL for the island "Old Man". See Field Edit Report TP 53

31. LOW WATER AND SHOAL LINES

All low water lines are shown as approximate; these from field inspection, supplemented by office interpretation.
See Review Report.

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32. DETAILS OFFSHORE FROM THE HIGH-WATER LINE

Data are believed to be complete.

33. WHARVES AND SHORELINE STRUCTURES

Data are believed to be complete.

35. HYDROGRAPHIC CONTROL

The list of photo-hydro stations that could be established are attached as notes to the hydrographer.

The positions of all photo-topo stations have been established.

37. GEOGRAPHIC NAMES Approved list filed in Geographic Names Section.

An alphabetical list of geographic names appearing on this map accompanies this report. These are from the report of Harold A. Duffy.

38. JUNCTIONS

Junctions have been made as follows:

To the north with T-8792.

To the east with T-8798

To the west with T-8796

To the south is the ~~Grand Manan Channel~~. Gulf of Maine.

39. BOUNDARIES

The boundaries between Whiting and Cutler, and Trescott and Cutler are complete. See Special Report Boundaries for Project PH-11(46).

40. DISCREPANCY OVERLAY Filed in Div. of Patsy, General Files. Project Completion Report in Bureau Library

Discrepancy overlays have been prepared for each separate half of the quadrangle. Notations to the field edit party have been placed thereon.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

A visual comparison was made with the U.S.G.S. Cutler, 15 minute quadrangle, edition of 1918, reprinted 1944. Topography is in fair agreement. The numerous swamp areas shown on this quadrangle we do not believe to be in existence. See Review Report.

45. COMPARISON WITH NAUTICAL CHARTS

Upon visual comparison with U. S. Coast and Geodetic Survey chart No. 303 dated March 1945 (4th edition), agreement was found to be good. The following discrepancies are noted:

On the chart, Cape Wash I. is shown with a small island separated from the mainland on the east.


The pond northwest of Money Cove is shown to be much larger on the chart than on the map.

As on the U.S.G.S. quadrangle, there are numerous swamp areas which we do not believe to exist.


See Review Report.


~~Upon completion of the field edit and hydrographic survey, this compilation should supersede all previously charted information.~~

Respectfully submitted
6 May 1949


Photogrammetrist
Descriptive Report and Review

Approved and forwarded
10 May 1949


Officer in Charge
Baltimore Photogrammetric
Office


Supervisor

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Field Edit Report

T-8797

51. Methods.--All passable roads were ridden out to check their classification, to investigate areas in question, to reclassify buildings, to edit woodland classification, and to visually inspect contours and planimetry.

Shoreline delineation was checked by riding close inshore in a skiff and outboard motor. Rocks, reefs and ledges were inspected in the same manner, verified and labeled as to existence and height above low-water, or the height above high-water, if the feature remained uncovered at high-water. A plotted tide curve was used to reduce these heights. The tide curve was based on the predicted tide tables for Cutler, Little River (reference station, Eastport, Maine).

Standard planetable methods were used to check contours in the vicinity of Western Head at the entrance to Little River.

Red ink was used for additions and corrections; green for deletions. No legend is shown.

Additions and corrections have been made on the field edit sheets or on the photographs. Reference to the photographs on which work was done has been made on the field edit sheets. Where a 1:8,500 scale ratio photograph was used the letter "R" follows the number.

Many questions raised by the reviewer could be answered "Yes" or "No". These have been answered on the Discrepancy Prints. Other field edit information is shown on Field Edit Sheets Nos. 1, 2 and 2A and 1:8,500 scale ratio photographs 48 C 22, 46 C 83, 85, 159, 174, 176, 375, 595, 649, and 1:20,000 scale 48 C 27.

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52. Adequacy of compilation.--The map manuscript is adequately compiled. However, contours are not complete in the immediate area of triangulation station DIVIDE, 1883. An elevation has been established and identified on photograph 46 C 595, from which contouring may be completed. *Contouring completed in the compilation office.*

Compilation will be complete after field edit data has been applied.

53. Map accuracy.--One topographic station--Sitz, 1949--was established on Old Man Island as triangulation station OLD MAN, 1863, could not be recovered. Sitz, 1949, was located by theodolite fix from triangulation stations. It was identified on photograph 46 C 172 (1:8,500 scale). The computed position of this topographic station will serve as a check on the horizontal position of Old Man Island. (The shoreline of this island was found to be incorrectly delineated. See 1:8,500 scale photograph 46 C 159 for corrected shoreline.)

The planetable profile run across Western Head at the entrance to Little River, serves as a vertical accuracy test. This test originated vertically at bench mark L 68 in the village of Cutler and was terminated on tide water. Vertical error of closure was 0.8 ft. low. No adjustment was made. Horizontally this test began at an acute road intersection and ended at an identifiable topographic feature. Error of closure was negligible and no adjustment was made.

A planetable traverse was run across Little River Island. This test originated and terminated on tide water vertically. The closure was 0.5 ft. No adjustment was made. The horizontal origin was at topographic station GABLE, 1946, and the termination was at Little River Lighthouse. The closure was negligible. No adjustment was made.

The contours tested were proven to be within the required mapping accuracy.

Visual inspection of contours at a number of places proved them to be well-shaped as to relief expression.

54. Recommendations.--No recommendations are offered.

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55. Examination of proof copy.--Mr. C. D. Wallace, local lobster dealer and long time resident, is highly familiar with the water as well as the land area, will examine a proof copy of the map. Mr. Wallace's address is Cutler, Maine.

No discrepancies were noted in geographic names.

Respectfully submitted,
July 18, 1949

George E. Varnadoe
George E. Varnadoe,
Cartographic Engineer

NOTES FOR HYDROGRAPHIC PARTIES

EASTERN MAINE

TOPOGRAPHIC MANUSCRIPT

PROJECT PH-11(46)
Survey No. T-8797

The following are descriptions of photo-hydro stations to be used as hydrographic signal sites.

No.	Photo. No.	Description	Ht. above MHW (feet)
9698	82 ✓	High point of highest ledge on north side of gray ledge.	
9708	84 ✓	Chimney of white house with connecting shed and barn.	30
9710	84 ✓	20' spruce on top of knoll, most easterly of two trees.	
9711	173 ✓	20' spruce at edge of 5' cliff.	25
9713	173 ✓	Highest of two spruce, in thick clump of alders.	60
9715	173 ✓	East gable of white frame house on knoll, about 110m south of MHWL.	40
9716	173 ✓	West chimney of log cottage	25
9719	173 ✓	10' spruce, most northerly.	18
9721	173 ✓	South chimney of white house, black trim, connecting barn and shed to north.	20
9724	172 ✓	20' spruce at edge of treeline, small brush to seaward, dead snag to east.	28
9726	173 ✓	Dead 10' spruce at edge of grass line; 4' stump 1m NE	15
9727	173 ✓	10' spruce at point of grass line.	20
9728	173 ✓	10' spruce.	
9732	173 ✓	High point of rock, 3' x 3' yellow area.	50'
9733	173 ✓	15' spruce at point of trees at edge of grass line.	35
9735	173 ✓	12' spruce	30

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No.	Photo. No.	Description	Ht. above M.W. (feet)
9736	✓173	High point of rock	5
9738	✓173	Highest point of rock on east side of island.	13
9740	✓174	Bushy 10' spruce, leaning over water.	15
9741	✓174	Tallest of two spruces at south end of gravel beach.	8
9743	✓174	Lone 8' spruce, leaning northwest	28
9745	✓174	Lone 10' spruce on top of ledge.	23
9746	✓174	8' spruce, back in clearing, most easterly of small group.	20
9747	✓174	15' spruce, most easterly	25
9749	✓174	8' spruce on point, overhanging ledge and beach, most southerly tree.	13
9750	✓174	Lone 10' spruce at edge of grass line.	13
9751	✓174	Very green, bushy, 10' spruce at edge of grass line; same size tree along side.	15
9752	✓175	Lone, bushy, 15' evergreen, near edge of grass line.	25
9753	✓175	Tallest and most easterly spruce, on top of ledge.	30
9754	✓175	20' spruce at edge of grass line; tallest.	25
9755	✓175	Lone 8' spruce at edge of grass line.	28
9756	✓175	Lone 8' spruce, halfway up slope.	25
9758	✓176	10' spruce, tallest and most northerly, on edge of cliff.	30
9760	✓176	Tallest and most southerly tree.	23
9761	✓176	20' spruce, inshore, at base of slope	25
9762	✓176	Bushiest and most easterly of group of three trees on side of hill.	30

No.	Photo. No.	Description	Ht. above MHW (feet)
9764	176	25' spruce at edge of 20' cliff, only big tree in vicinity.	35
9766	176	20 ft. spruce at edge of grassline.	45
9768	177	15 ft. spruce with bushy round top.	25
9769	177	15 ft. spruce, most easterly of group of tall trees.	20
9770	177	10 ft. spruce at edge of grass and beach. 3' tree to east.	14
9771	177	10 ft. spruce at edge of grass line on top of 5' cliff back of gravel beach.	15
9772	177	15 ft. spruce on point on beach; few branches on tree.	23
9773	177	Brown and green colored spruce, most southerly.	15

Respectfully submitted
6 May 1949

Approved and forwarded
10 May 1949



Officer in Charge
Baltimore Photogrammetric Office

Barnice Wilson
Cartographic Aid

GEOGRAPHIC NAMES

T-8797

- Ackley Pond ✓✓
- Almore Cove ✓✓

- Bagley Brook ✓✓
- Black Ledges ✓✓
- Black Point ✓✓
- Black Pt. Brook ✓✓
- Black Pt. Cove ✓✓
- Bog Brook ✓✓
- Bog Brook Cove (not on this sheet)
- Bother Brook ✓✓

- Cape Wash Island ✓✓
- Cocoa Mountain ✓✓
- Compass Rock ✓✓
- Crotched Meadows (singular) ✓✓
- Cutler (2) (village and district) ✓✓
- Cutler Harbor *

- Deer Island ✓✓
- Dennison Point ✓✓

- Eastern Knubble * ✓✓
- Eastern Marsh Brook * ✓✓
- East Stream ✓✓

- Fairy Head ✓✓
- French Ridge ✓✓

- Great Head ✓✓
- Great Ridge ✓✓

- Harmon Heath ✓✓
- Holmes Cove ✓✓
- Holmes Cove Brook ✓✓
- House Cove ✓✓

- Little Machias ✓✓
- Little Machias Bay ✓✓
- Little River *
- Little River Island ✓✓
- Lively Brook ✓✓
- Long Point ✓✓
- Long Point Cove ✓✓

- Marsh Point ✓✓
- Money Cove * ✓✓

- Norse Pond ✓✓

- Old Man? ✓✓
- Otter Point ✓✓

- Pond Ridge ✓✓

- Schooner Brook ✓✓
- Spring Brook ✓✓
- Stone Hill ✓✓

- Trescott (district) ✓✓
- Turner Stream? ✓✓

- Warren Meadows ✓✓
- Western Head ✓✓
- Western Marsh Brook ✓✓
- Whiting (district) ✓✓

- State No. 191 ✓✓
- Gulf of Maine ✓✓
- Little River Ledge (pending with USBG)

* signifies decision of U.S.B.T.N.

Names preceded by • are approved. 5-19-49
L. HECK

- Old Cutler Cem.
- Head of The River 'CH.
- Bay View cem. ✓✓
- Little Machias SCH. ✓✓

HISTORY OF HYDROGRAPHIC INFORMATION

T-8797

Cutler, Maine, Quadrangle

Hydrography was applied to this manuscript in accordance with Division of Photogrammetry request of 26 January 1950, and with general specifications 18 May 1949. *5-1-50*

The depths are in feet at mean low water and originate with the following surveys and chart:

Hydrographic Survey 1690 (1886)	1:10,000 C&GS
Hydrographic Survey 1691 (1886)	1:10,000 C&GS
Nautical Chart 303 (1949)	1:40,000 C&GS
(corrected to 20 March 1950)	

The depth curves are shown at intervals of 20 feet in order to be in harmony with other quadrangles of this project.

The curves are omitted in offshore portions of this quadrangle because of sparse hydrography.

The hydrography was compiled by R. E. Elkins and checked by G. F. Jordan.

R. E. Elkins
R. E. Elkins
27 March 1950
Nautical Chart Branch

Review Report T-8797
Topographic Map
January 19, 1950

26. Control.--Eleven USC&GS and two USGS bench marks were recovered in the field and are shown on the map manuscript.

One tidal bench mark, recovered at Cutler, was added to the map manuscript during review.

28. Detailing.--An inset including "Old Man" was added to the map manuscript. This island would extend one minute beyond the limit of the quadrangle if shown in its true, relative position.

31. Mean Low Water Line.--The approximate mean low water line was detailed on the map manuscript from the photographs, supplemented by the hydrographic surveys. In two tidal flat areas in Little River and Little Machias Bay, the low water line was taken from the hydrographic surveys. In these areas it is impossible to determine a low water line on the photographs. See attached letter "History of Hydrographic Information" for sources. Information added from the hydrographic surveys does not appear on the registered copies.

44. Comparison with Existing Surveys:

a) USGS Cutler Quadrangle 1:62,500 1918 Repr. 1944
The pond shown on the USGS Quad N.E. of Cutler is considerably smaller.
The road shown on the quadrangle running N. from Cutler is no longer passable to Whiting.

b) T-1664 1:10,000 1885
T-1665 1:10,000 1885
This map supersedes these surveys for nautical charting purposes.

45. Comparison with Nautical Charts:

Chart No. 303 1:40,000 1945 Corr. 1948

A rock awash, SE. of Dennison Point, is shown as ✓
a sunken rock on the chart.

47. Adequacy of the Compilation.--This map, T-8797, is a complete topographic map and has been compared and reconciled with all hydrographic and topographic surveys of record in this Bureau and is, therefore, the most complete and accurate topographic map of record in the area covered.

47

48. Accuracy Tests.-Profiles were run across the peninsula S. of Little River and across Little River Island where the compiler doubted the accuracy of the contours. The elevations were tabulated and the contours proved to be within the required accuracy.

A position was obtained in the field for an identified point on Old Man, thus fixing the position of that island and Black Ledges. A Form 524 card has been submitted for this station.

This map complies with the National Standards of Map Accuracy.

49. Overlays.-An overlay was prepared showing the border information, road classifications, route numbers, triangulation stations, bench marks and selected spot elevations that are to be shown by the draftsman.

Reviewed by:

Charles Theurer
C. Theurer

APPROVED BY:

A. V. Griffith
Chief, Review Section R.H.M.
Division of Photogrammetry

H. C. Munro
Chief, Nautical Chart Branch
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O. S. Reading
Chief, Div. of Photogrammetry

W. M. Acaife
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