8798 N

Diag. Cht. No.-~~8798~~ 1201

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

# DESCRIPTIVE REPORT

Type of Survey Topographic Survey

Field No. ..... Office No. T-8798

## LOCALITY

State Maine

General locality Washington County

Locality Grand Manan Channel, Moose Cove

1946-'49

## CHIEF OF PARTY

R.A.Gilmore, Chief of Party
T.B.Reed, Balto. Photo. Office

## LIBRARY & ARCHIVES

DATE March 1, 1950

B-1870-1 (1)

8798

Form T-1

DATA RECORD

T- 8798

**Quadrangle (II):** MOOSE RIVER

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

**Field Office:** Machias, Maine

**Chief of Party:** Ross A. Gilmore

**Compilation Office:** Baltimore, Md.

**Chief of Party:** Thos. B. Reed

Div. of Phtgy, Office Files.

**Instructions dated (II III):** 9 May 1946 and 18 Sept. 1946

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

**Completed survey received in office:** 8-17-49

**Reported to Nautical Chart Section:** 8-22-49

**Reviewed:** 1-16-50 **Applied to chart No.** **Date:**

**Redrafting Completed:**

**Registered:** 2-15-50 (N/2) **Published:**

(S/2 all water, not registered)

**Compilation Scale:** 1:8500 **Published Scale:** 1:24,000

**Scale Factor (III):** 1.000

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

**Reference Station (III):** MOOSE, 1883

**Lat.:** 44° 44' 33.487" **Long.:** 67° 04' 48.230" **Adjusted** ~~Unadjusted~~

**State Plane Coordinates (VI):** Maine East

**X =** **Y =**

**Military Grid Zone (VI)**

PHOTOGRAPHS (III)

| Number | Date | Time EST | Scale | Stage of Tide |
|---|---|---|---|---|
| 177 - 181 | 5-28-46 | 1315 | 1:20,000 | 8.2 ft. |
| 593- 596 | 5-30-46 | 0925 | " | 15.7 " (or 1' above MHW) |
| 654 - 657 | 5-30-46 | 1035 | " | 15.1 " (or at MHW) |

**Tide from (III):** MOOSE COVE

**Mean Range:** 14.8 ft. **Spring Range:** 16.9 ft.

**Camera: (Kind or source)**
U. S. C. & G. S. Type "C", 6-inch Metrogon Lens.

**Field Inspection by:** Lewis V. Evans III, Herschel G. Murphy, and Edward H. Taylor **date:** Aug. 1946.

**Field Edit by:** William H. Shearouse, John H. Gwaltney **date:** July 1949

**Date of Mean High-Water Line Location (III):** Aug. 1946.

**Projection and Grids ruled by (III)** H.R. **date:** 12-19-47

" " " **checked by:** H. R. **date:** 12-19-47

**Control plotted by:** Donald M. Brant **date:** 1-19-48

**Control checked by:** Albert K. Heywood **date:** 2-19-48

**Radial Plot by:** Albert C. Rauck **date:** May 1948
Bernice Wilson Aug. 1948

**Detailed by:** Henry P. Eichert, Donald M. Brant (Mult.) Bernice Wilson(Shoreline & 1:8500 compilation) **date:** Aug. 1948

**Reviewed in compilation office by:** Henry P. Eichert **date:** Sept. 1948

**Elevations on Field Edit Sheet checked by:** C. Theurer **date:** Jan 9, 1950

STATISTICS (III)

Land Area (Sq. Statute Miles): 4

Shoreline (More than 200 meters to opposite shore): 9

Shoreline (Less than 200 meters to opposite shore): 1

Number of Recoverable Topographic Stations established: 4

Number of Temporary Hydrographic Stations located by radial plot: 21

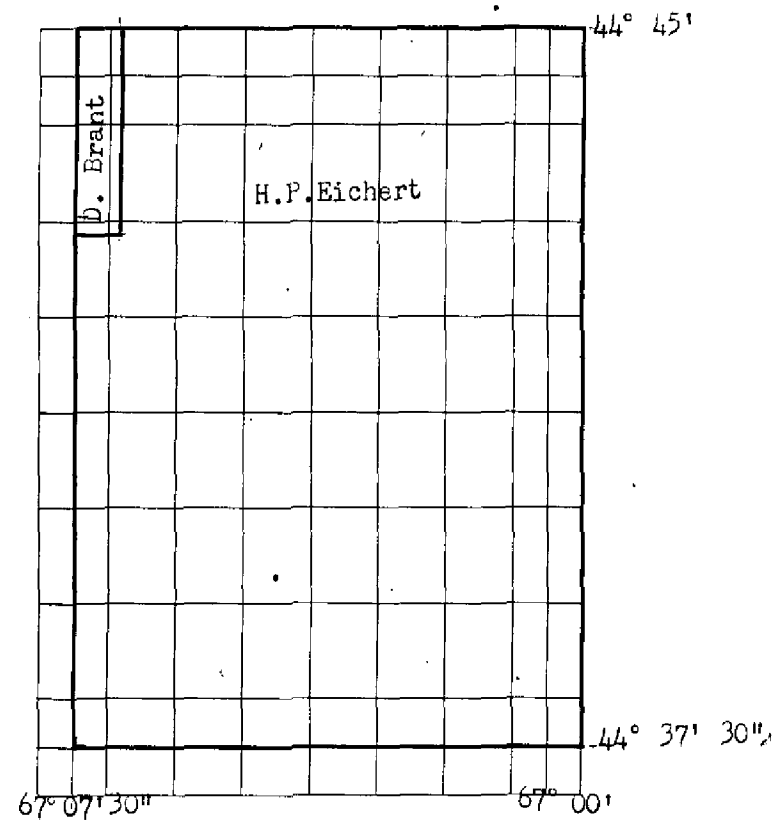
Leveling (to control contours) - miles: none

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).

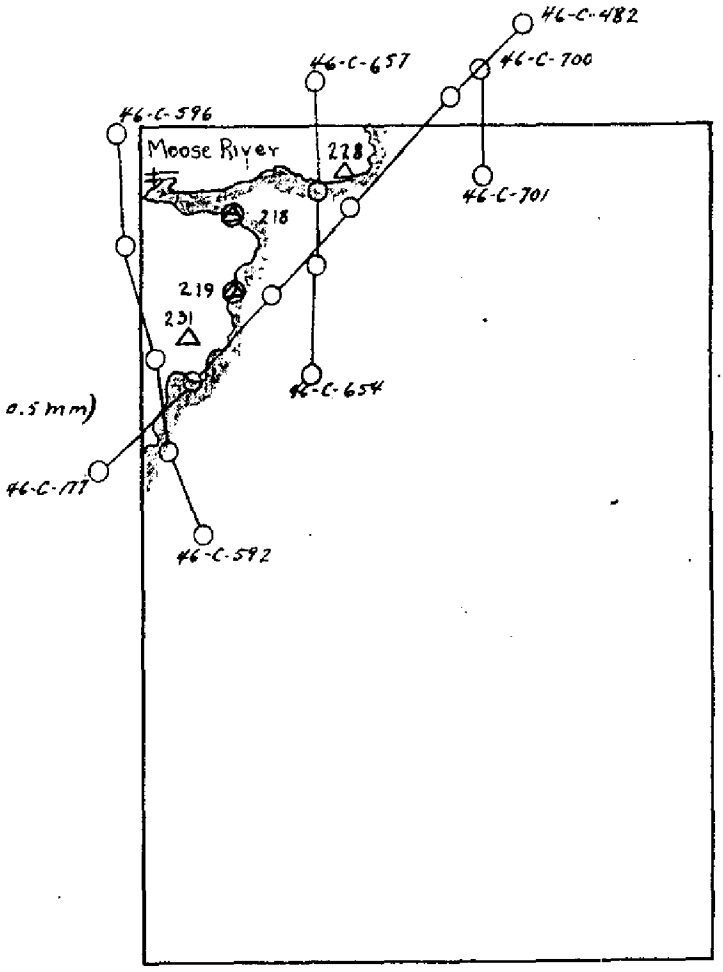
Remarks: ~~The Maine State Grid does not agree well with that on T-8797. The discrepancy is about 0.3 mm.~~

T-8798




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

218 Heath, 1853 (can't see)
219 Cliff, 1883 (can't see within 0.5 mm)
228 Moose, 1883
231 Bog Creek, 1869




△ Triangulation Sta-Identified + held in extension
◎ " " Not held
▲ " " Not identified

Ph-11(46)
T-8798

# SKETCH OF HORIZONTAL CONTROL

MAP T- 8798 PROJECT NO. PH-11(46) SCALE OF MAP 1:8500 SCALE FACTOR 1.17647

| STATION | SOURCE OF INFORMATION (INDEX) | DATUM | LATITUDE OR $y$-COORDINATE<br>LONGITUDE OR $x$-COORDINATE | DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS<br>FORWARD (BACK) | DATUM CORRECTION (meters) | N.A. 1927 - DATUM<br>DISTANCE FROM GRID OR PROJECTION LINE IN METERS<br>FORWARD (BACK) | FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS<br>FORWARD (BACK) |
|---|---|---|---|---|---|---|---|
| HEATH, 1883 | U.S.C.& G.S.Spec. Pub.No.46 | N.A. | 44 44 11.03 | 340.5 (1511.6) | -23.5 | 317.0 (1535.1) | 372.9 (1806.0) |
| | | | 67 06 20.19 | 444.3 (875.9) | -1.8 | 442.5 (877.7) | 520.6 (1032.6) |
| CLIFF, 1883 | " | " | 44 43 35.98 | 1110.6 (741.5) | -23.5 | 1087.1 (765.0) | 1278.9 (900.0) |
| | | | 67 06 13.95 | 307.0 (1013.4) | -1.8 | 305.2 (1015.2) | 359.0 (1194.4) |
| BOG CREEK, 1863 | U.S.C.& G.S. G.P. List | N.A. 1927 | 44 43 05.631 | | | 173.8 (1678.3) | 204.5 (1974.5) |
| | | | 67 06 53.215 | | | 1171.2 (149.4) | 1377.9 (175.8) |
| MOOSE, 1883 | " | " | 44 44 33.487 | | | 1033.7 (818.4) | 1216.1 (962.8) |
| | | | 67 04 48.230 | | | 1061.1 (258.9) | 1248.4 (304.6) |
| SUB STATION BOG CREEK, 1863, [illegible] | Comp. | " | 44 43 | | | 181.8 (1670.3) | 213.9 (1965.0) |
| | | | 67 06 | | | 1075.3 (245.3) | 1265.1 (288.6) |
| SUB STATION MOOSE, 1883 [illegible] | " | " | 44 44 | | | 1022.8 (829.5) | 1203.1 (975.8) |
| | | | 67 04 | | | 1061.0 (259.0) | 1248.2 (305.8) |

1 FT. = .3048006 METER

COMPUTED BY: H.P.Eichert DATE Winter 1946 CHECKED BY: E.L.Bauman DATE Winter 1946

M-2388-12

FIELD INSPECTION REPORT

TO ACCOMPANY

QUADRANGLE NO. 8798

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°-00'-00" and 67°-07'-30" respectively. The area covered is approximately 7 square statute miles.

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

The only important cultural feature is Maine Highway No. 191, which enters the northwestern edge of the area and runs generally northeast, leaving the area in the northwest corner.

The vegetation consists mainly of pine, spruce, fir, hackmatack, maple, birch, and alder. There are marshy areas along the stream beds 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 is discussed under item No. 19 in the report for quadrangle 8795.

The shoreline is composed of rock bluffs and ledges, the bluffs rising to about 50 feet maximum. Moose River bares at low water. Numerous rocks and boulders are in evidence in the mud flats at this stage of tide.

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. 1:20,000 scale contact photographs Nos. 46 C 594 and 656 were used.

3 - INTERPRETATION OF PHOTOGRAPHS:

See report for quadrangle No. 8795. Filed in ~~Div. Phtgy. General Files~~ Bureau Archives

4 - HORIZONTAL CONTROL:

All known horizontal control stations within this quadrangle were recovered and identified on the photographs. This control consists entirely of Coast and Geodetic Survey triangulation.

The following photographs were used for horizontal control identification: 1:8500 scale ratio prints Nos. 46 C 178, 179 and 656.

5 - VERTICAL CONTROL:

Only 3 bench marks were known to exist within the limits of the quadrangle. They were recovered and recovery notes executed.
Originals filed in Div. of Geodesy

No additional vertical control was requested or established.

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 178, 179, and 180.

8 - LOW-WATER LINE:

See report for quadrangle No. 8800. Filed in ~~Div. Phys. General files~~ Bureau Archives

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, time and date.

11 - LANDMARKS AND AIDS TO NAVIGATION:

There are no landmarks worthy of charting in this quadrangle.
There are no aids to navigation in this quadrangle.

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 sketchbook 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.

There are 5 topographic stations and 25 hydrographic signal sites in this quadrangle.

13 - LANDING FIELDS AND AERONAUTICAL AIDS:

None.

14 - ROAD CLASSIFICATION:

See report for quadrangle No. 8795. Filed in ~~Div. of Phtgy, General Files~~ Bureau Archives

15 - BRIDGES:

None.

16 - BUILDINGS AND STRUCTURES:

See report for quadrangle No. 8797. Filed in ~~Div. of Phtgy, General Files~~ Bureau Archives

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 Phtgy, General Files~~ Project Completion Report in Bureau Library

18 - GEOGRAPHIC NAMES:

Same as 17 in this report.

Note: Work on item 4 was done by Lt.(jg) Lewis V. Evans, III;
" " items 1,2,3,14,15, & 16 by Herschel G. Murphy, Eng. Aid;
" " " 5,7,8,9,10,11, & 12 by Edward H. Taylor, Eng. Aid.

Respectfully Submitted:

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

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

Edward H Taylor
Edward H. Taylor, Eng. Aid

Approved and forwarded:

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

COMPILATION REPORT

26. CONTROL

a) Horizontal control - Triangulation point CLIFF, 1883, could not be held within 0.5 mm. Identification, nevertheless, is doubtful as the station is located on a wooded slope. Control was otherwise adequate.

b) Vertical control - Poor for model 595-596 along line of flight. Model was leveled to ties from adjoining models in strip.

Refer to ~~compilation~~ project report for Project PH-11(46) which will be submitted at a later date. Filed in ~~Div. of Maps, General files~~ Project Completion Report in Bureau Library

27. RADIAL PLOT

Points along the shoreline from about 3/4 mile north of Bog Brook Cove to the south shore of Moose Cove could not be satisfactorily plotted with the multiplex. Light reflections on the water were troublesome in some areas, steep cliffs in others, and the heavy growth of trees along the shore in still other portions. Sufficient shoreline points were established by radial line intersection, using in addition, photographs 46-C-179 and 46-C-180, which pair could not be set up as a model with the multiplex because they did not contain sufficient land area for clearing parallax. Additional points were also established beyond the limits of the quadrangle and to Haycock Harbor which is in T-8793. Shoreline delineation checked by Field Editor.

28. DETAILING

All topography, except shoreline, was delineated with the multiplex plotting instrument. Roads have been reclassified according to instructions as amended 24 October 1947. All wooded areas have been carefully examined under the stereoscope in order to determine their proper limits

29. SUPPLEMENTAL DATA

None.

30. MEAN HIGH WATER LINE

The mean high water line was furnished by the Field Inspection Party on photographs 46-C-177 through 180. These photographs were taken at about half-tide. After careful examination, the compilation office has concluded that the MHW line as furnished on these photos is considerably in error. Changes have been made using photographs 46-C-594 thru 596 and 46-C-654 thru 657 which had been taken at MHW. These photographs were used under the stereoscope in pairs and also across-flight with the field inspection photographs 177 thru 180. The changes made in the compilation office have been shown in yellow pigment ink directly on the field inspection photographs.
Shoreline checked by Field Editor.

31. LOW WATER AND SHOAL LINES

All low water lines are approximate and as furnished on the field inspection photographs.
See Review Report.

32. DETAILS OFFSHORE FROM THE HIGH WATER LINE

Data are believed to be complete.
See Review Report

33. WHARVES AND SHORELINE STRUCTURES

Data are believed to be complete.

35. HYDROGRAPHIC CONTROL

Three (3) photo-hydro points have been rejected as they could not be plotted within the required limits of error.

37. GEOGRAPHIC NAMES

The geographic names appearing on this map are from the report of Harold A. Duffy.

38. JUNCTIONS

Junctions have been made as follows:
To the north with T-8793
To the west with T-8797
To the east and south is the Atlantic Ocean.

39. BOUNDARIES

The boundary between Trescott and Cutler has been shown. See report of Harold A. Duffy. Filed in ~~Div. of Plans, General Files~~ Project Completion Report in Bureau Library

40. MILITARY GRID

The military grid, as specified in the project instructions, has not yet been furnished.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

From visual comparison it appears that this map manuscript agrees well with the Cutler, Me., quadrangle of the U.S.G.S. edition of 1918, reprinted 1944, scale 1:62,500.

45. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with U.S.C.& G.S. chart No. 303 (4th edition) published March 1945, scale 1:40,000. Shoreline was in fair agreement but contours compared poorly.

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

Respectfully submitted
22 September 1948

Henry P. Eichert
Descriptive Report and Review

Bernice Wilson
Engineering Aid (Cartog)
Compilation

Stanley W. Trow, Supervisor

Approved and forwarded
September 1948

Thos. B. Reed
Officer in Charge
Baltimore Photogrammetric Office

NOTES
FOR
HYDROGRAPHIC PARTIES

EASTERN MAINE

TOPOGRAPHIC MANUSCRIPT SURVEY NO. T-8798

PROJECT PH-11(46)

Descriptions of photo-hydro stations, for use as hydrographic signal sites, are attached.

There are several offshore rocks that require further investigation. These appear on Chart No, 303. Their approximate positions have been encircled on the map with a black, dashed line and labeled Rk.

Respectfully submitted
22 September 1948

Henry P. Eichert
Photogrammetrist

Approved and forwarded

Thos. B. Reed
Officer in Charge
Baltimore Photogrammetric Office

| No. | Description | Photo. No. | Height above MHW |
|---|---|---|---|
| 9801 | Highest part of ledge separated from mainland at high tide. | 177 | 10' |
| 9802 | 15' spruce | 177 | 20' |
| 9803 | 10' spruce, no needles on top. | 177 | 15' |
| 9804 | 15' spruce, most easterly and tallest tree. | 177 | 25' |
| 9805 | 8' spruce, most easterly tree on ledge. | 178 | 18' |
| 9806 | 10' spruce on knoll, tree nearest shore. | 178 | 22' |
| 9807 | 10' spruce, most easterly of group at edge of grass line. | 178 | 17' |
| 9808 | Lone 15' spruce, 10 m from edge of grass line. | 178 | 20' |
| 9809 | 15' green spruce, very slender with full top. | 178 | 20' |
| 9810 | 15' spruce, most easterly tree of group | 178 | 25' |
| 9812 | 20' spruce at edge of grass line. Alders directly behind spruce. | 179 | 30' |
| 9813 | Tree | 179 | |
| 9814 | 10' spruce. | 179 | 20' |
| 9815 | 20' spruce, most southerly of two | 180 | 3' |
| 9816 | Highest point of ledge | 180 | 3' |
| 9817 | 20' spruce, most westerly tree on slope. | 180 | 35' |
| 9818 | 10' spruce at edge of grass line on top of steep cliff. | 180 | 45' |
| 9819 | 20' spruce on hill. A birch is to NE. | 180 | 25' |
| 9825 | Double 25' spruce, 5 m from MHW. | 595 | 30' |
| 9828 | 20' spruce | 595 | 35' |
| 9830 | 8' dead spruce. Only dead tree in vicinity. | 595 | 15' |

GEOGRAPHIC NAMES

T - 8798

(ATLANTIC OCEAN) — Gulf of Maine is preferable

. BOG BROOOK
. BOG BROOK COVE

• CUTLER (~~district~~) Town
• EASTERN HEAD
• EASTEIN HEAD LEDGES

• GRAND MANAN CHANNEL

• LITTLE LOOSE ISLAND

• MOOSE COVE
• MOOSE RIVER
• MOOSE RIVER SCHOOL

• NORSE POND

• SANDY COVE

• TRESCOTT (~~District~~ Town

. Maine No. 191

Names preceded by • are approved. 5-12-49 L. Heck

Field Edit Report, T-8798

51. Methods.--The roads were traversed by truck to check their classification, to edit vegetation classification, to reclassify buildings, and to visually inspect contours and planimetry.

Shoreline delineation, rocks and reefs were inspected at or near low-water from a skiff and outboard motor, running close inshore. Rocks and ledges or reefs were conventionally labeled as to height.

The planetable was used to locate additional rocks, ledges and fish weirs in Moose River. This work was accomplished on the Field Edit Sheet.

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 Sheet or on photographs 46 C 179 or 180, both 1:8,500 scale ratio prints.

52. Adequacy of compilation.--Woodland cover needs to be further ~~broken down~~. The large gray-colored portions of photograph 46 C 179, which appear open when compared with the dark, thickly wooded areas are just that--open land. Mostly they are blueberry barrens and the mottly appearance is caused by bushes which are cut every 2-3 years. Otherwise, compilation is adequate and will be complete after field edit data has been applied.

53. Map accuracy.--Neither vertical nor horizontal accuracy tests were specified.

The contours were visually inspected at several places and found to be very good as to relief expression. Two places have been indicated on the Field Edit Sheet where the 20 and 40 foot contours should coincide since the bluff is vertical.

54. Recommendations.--A more careful study of woodland delineation is the only recommendation offered.

55. Examination of proof copy.--Mr. C. D. Wallace, Cutler, Maine, has a thorough knowledge of the shoreline in this section of Maine and will examine a proof copy of the map.

No discrepancy was noted in geographic names.

Respectfully submitted,
July 21, 1949

George E. Varnadoe

George E. Varnadoe,
Cartographic Engineer

# HISTORY OF DEPTH CURVES

## T-8798

## Moose River Quadrangle, Maine

The depth curves are drawn at twenty foot intervals, referred to mean low water, and originate with the following hydrographic surveys by this bureau:

H-1691 (1886) 1:10,000
H-1692 (1886) 1:10,000

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

Curves compiled by: R. E. Elkins - 4/6/49

Curves checked by: G. F. Jordan - 4/13/49

R. E. Elkins

R. E. Elkins
4/15/49

26. Control.-Two USCGS and one USGS bench marks were recovered in the field and are shown on the map manuscript.

28. Detailing.-The woodland classification was re-examined as recommended in paragraph 52 of the Field Edit Report. Several areas were changed to cleared, S. of Moose River.

31. Mean-Low Water Line.-There are no low water photographs available for this area. The field inspector indicated an approximate low water line on a flight of photographs taken when the tide was 8 feet above M.L.L.W. The hydrographic surveys were compared with the low water line shown by the field inspector. The approximate MLW line shown on the map manuscript is a reconciliation of these two sources.

32. Details Offshore from the MHW Line.-Several offshore rocks have been added to the map manuscript from the original hydrographic surveys, accompanied by a note to the hydrographer. These rocks are not visible on the half-tide photographs and will not be shown on the registered copy. See "History of Hydrographic Information" for the Hydrographic Survey numbers.

44. Comparison with Existing Surveys.-

| | | | | |
|---|---|---|---|---|
| a) | USGS Cutler Quadrangle | 1:62,500 | 1918 | Repr. 1944 |
| b) | T-1664 | 1:10,000 | 1885 | |
| | T-1742 | " | 1886 | |

This map supersedes these surveys for nautical charting purposes.

45. Comparison with Nautical Charts.-

| | | | |
|---|---|---|---|
| Chart No. 1201 | 1:80,000 | 1943 | Corr. 1948 |
| 303 | 1:40,000 | 1945 | Corr. 1948 |

See paragraph 45 of the Compilation Report.

47. Adequacy of the Compilation.-This map, T-8798, 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.

48. Accuracy Tests.-No accuracy tests were run on this quadrangle. See Review Report for T-8797 and 8793 for results of tests on these adjacent quadrangles.

This map complies with the National Standards of Map Accuracy.

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

Reviewed by:

Charles Theurer
C. Theurer

APPROVED

L. V. Griffith
Chief, Review Section
Div. of Photogrammetry

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

O. S. Reading
Chief, Div. of Photogrammetry

Acting
K. A. Crosby
Chief, Div. of Coastal Surveys