

8789

N & S Robinson

Diag. Cht. No. 801

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. Office No. T-8789

LOCALITY

State MAINE

General locality EASTERN MAINE

Locality ST. CROIX RIVER

194 6-'49

CHIEF OF PARTY

R.A.Gilmore, Chief of Field Party.

T.B.Reed, Balto. Photo. Office

LIBRARY & ARCHIVES

DATE August 8, 1950

B-1870-1 (1)

8789

# DATA RECORD

T - 8789

Project No. (II): PH-11

Quadrangle Name (IV): Robbinston

Field Office (II): Calais

Chief of Party: Ross A. Gilmore

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: Thos. B. Reed

Instructions dated (II) (III):  
9 May and 18 September 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): 1.00

Date received in Washington Office (IV): 5-6-49 Date reported to Nautical Chart Branch (IV): 7-26-49

Applied to Chart No.

Date:

Date registered (IV): 6-20-50

Publication Scale (IV): 1:24,000

Publication date (IV):

Geographic Datum (III):  
North American, 1927

Vertical Datum (II):

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): INITIAL, 1909

Lat.: 45° 04' 19.407"

Long.: 67° 06' 23.127"

Adjusted

~~Unadjusted~~

Plane Coordinates (IV):

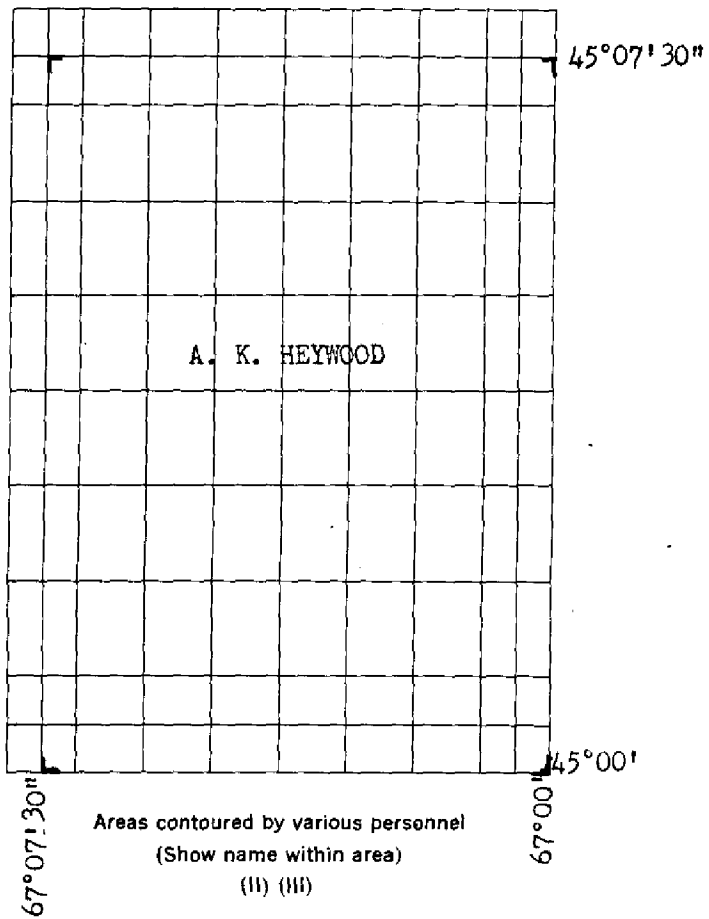
State: Maine Zone: East

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.



# DATA RECORD

Field Inspection by (II): Irving I. Saperstein  
Herschel G. Murphy

Date: Oct. 1946

Planetable contouring by (II):

Date:

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

Date: Sept. 1949

Mean High Water Location (III) (State date and method of location):  
Same as date of field inspection  
See Item No. 30

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

Date: Dec. 1947

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

Date: Dec. 1947

Control plotted by (III): Donald M. Brant

Date: Jan. 1948

Control checked by (III): Albert C. Rauck, Jr.

Date: July 1948

~~Radio Plot~~ or Stereoscopic Albert C. Rauck, Jr.  
Control extension by (III):

Date: Jan. 1948

Planimetry Albert K. Heywood  
Stereoscopic Instrument compilation (III):

Date: July 1948

Contours Albert K. Heywood

Date: July 1948

Manuscript delineated by (III): Mary L. Rosenberg

Date: Jan. 1949

Photogrammetric Office Review by (III):  
Albert K. Heywood

Date: April 1949

Elevations on Manuscript  
checked by (II) (III): Albert K. Heywood

Date: April 1949



U. S. Coast and Geodetic Survey Type "C"

Camera (kind or source) (III): 6" Metrogon Lens

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
46- C-459-C482	June '46	1510	1:6000	3' above MLW
46- C611-C618	May '46	935	1:20,000	4' above MHW
46- C672-C676	May '46	1045	1:20,000	2' above MHW
46- C677-C680	May '46	1105	1:20,000	2' above MHW
46- C731-C734	May '46	1220	1:20,000	16' above MLW

Tide (III)

Reference Station: Eastport, Me.

Subordinate Station: Robbinston (St. Croix River)

Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
1.0	18.2	20.7
1.1	19.2	21.8

Washington Office Review by (IV): C. Theurer

Date: 5-9-50

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 10

Shoreline (More than 200 meters to opposite shore) (III): 12 statute miles

Shoreline (Less than 200 meters to opposite shore) (III): 0.5 " "

Control Leveling - Miles (II): See item No. 5 Field Inspection Report

Number of Triangulation Stations searched for (II):

Recovered:

Identified:

Number of BMs searched for (II):

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): 10

Number of Temporary Photo Hydro Stations established (III): 23

Remarks:



MAP T-8789

PROJECT NO. PH-11(46)

SCALE OF MAP 1:8500

SCALE FACTOR 1.17647

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\psi$ -COORDINATE LONGITUDE OR $x$ -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
<del>+</del> LORING 1946	U.S. C&GS G P List	N.A. 1927	45 01 10.325 67 04 33.701			318.7 1533.5 737.9 575.8	374.9 1804.1 868.1 677.4
<del>+</del> (INITIAL) 1909 <del>BC</del> REF. MON. 246 <del>BC</del>	"		45 04 19.407 67 06 23.127			599.1 1253.1 505.9 806.6	704.8 1474.2 595.2 948.9
<del>+</del> LAMBS BLUFF, 1909 <del>BC</del>	"		45 05 51.912 67 07 02.782			1602.5 249.7 60.8 1251.2	1885.3 293.7 71.5 1472.0
<del>+</del> ROB, 1946 <del>BC</del>	"		45 04 43.153 67 06 29.643			1332.1 520.1 648.4 664.0	1567.2 611.8 762.8 781.2
<del>+</del> PIKE, 1909 <del>BC</del>	"		45 05 15.168 67 06 40.561			468.2 1384.0 887.0 425.1	550.8 1628.3 1043.5 500.1
<del>+</del> ROBBINSON, 1909 <del>Lost</del>	"		45 04 39.353 67 06 23.460			1214.8 637.4 513.1 799.2	1429.2 749.9 603.6 940.2
SUB. PT. SS INITIAL	"		45 04 67 06			627.3 1224.9 510.0 802.5	738.0 1441.0 600.0 944.1
SUB. PT. LAMBS BLUFF, 1909	"		45 05 67 07			1620.6 231.6 70.1 1241.9	1906.6 272.4 82.5 1461.0
SUB. PT. ROB. 1946	"		45 04 67 06			1371.3 480.9 601.0 711.4	1613.2 565.8 707.1 836.9
SUB. PT. PIKE, 1909			45 05 67 06			470.8 1381.4 895.0 417.1	553.9 1625.2 1052.9 490.7

1 FT. = 3048006 METER  
COMPUTED BY: *Henry P. Echert*

DATE 1946

CHECKED BY: E. L. Bauman

DATE 1946

M. 2388-12



MAP T-8789

PROJECT NO. Ph-11(46)

SCALE OF MAP 1:8500

SCALE FACTOR 1.371040

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\psi$ -COORDINATE LONGITUDE OR $\chi$ -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
NAVY BAR LIGHT- HOUSE, 1913 <b>IBC</b>	Spec. Pub. No. 46	N.A.	45 03 28.52	880.5 (971.7)	-23.7	856.8 (995.4)	
NORTH NAVY, 1894 <b>IBC</b>	"	"	67 02 08.24	180.3 (1132.5)	-2.9	177.4 (1135.4)	
	"	"	45 03 52.487	1620.3 (231.9)	-23.7	1596.6 (255.6)	
	"	"	67 03 54.452	1191.3 (121.4)	-2.9	1188.4 (124.3)	
NORTH BEACON, 1909 (U.S. & C.B.S.) <b>IBC</b>	"	"	45 04 15.971	493.1 (1359.1)	"	469.4 (1382.8)	
	"	"	67 04 06.018	131.6 (1180.9)	"	128.7 (1183.8)	
NORTHWEST BEACON, 1894	"	"	45 04 02.212	68.3 (1783.9)	"	44.6 (1807.6)	
	"	"	67 04 23.451	513.0 (799.6)	"	510.1 (802.5)	
ST. ANDREWS W. ENTRANCE, NW BEACON, 1887	Listed on another page	"	45 04 02.16	66.7 (1785.5)	"	43.0 (1809.2)	
	"	"	67 04 23.37	511.2 (801.4)	"	508.3 (804.3)	
ST. ANDREWS LIGHT- HOUSE, 1886	Beyond limits	"	45 04 05.855	180.8 (1671.4)	"	157.1 (1695.1)	
	"	"	67 02 51.584	1128.5 (184.1)	"	1125.6 (187.0)	
BEACON, W. SIDE OF ST. ANDREWS, 1863	Lost	"	45 04 16.186	499.7 (1352.5)	"	476.0 (1376.2)	
	"	"	67 04 06.436	140.8 (1171.7)	"	137.9 (1174.6)	
ST. ANDREWS TALLEST SP., BROWN, 1887	Beyond detail limits	"	45 04 36.14	1115.7 (736.5)	"	1092.0 (760.2)	
	"	"	67 03 03.32	72.6 (1239.8)	"	69.7 (1242.7)	
ST. ANDREWS TALL WHITE SPIRE, 1863	Beyond detail limits	"	45 04 36.959	1140.9 (711.3)	"	1117.2 (735.0)	
	"	"	67 03 15.382	336.4 (976.0)	"	333.5 (978.9)	
ST. ANDREWS SHORT WHITE SPIRE, 1863	Beyond detail limits	"	45 04 45.953	1418.6 (433.6)	"	1394.9 (457.3)	
	"	"	67 03 28.306	619.1 (693.2)	"	616.2 (696.1)	
ST. ANDREWS GRAY CH. SPIRE, 1913	Beyond detail limits	"	45 04 37.09	1145.1 (707.1)	"	1121.4 (730.8)	
	"	"	67 03 03.61	79.0 (1233.4)	"	76.1 (1236.3)	
ST. ANDREWS HOUSE ON BLUFF, CHY., 1863	Beyond Detail Limits	"	45 05 16.268	502.2 (1350.0)	"	478.5 (1373.7)	
	"	"	67 03 00.134	2.9 (1309.2)	"	0.0 (1312.1)	

1 FT. = 3048006 METER

COMPUTED BY: B. Wilson

DATE 11/14/49

CHECKED BY: A.K. Heywood

DATE 11/30/49

M-2388-12



MAP T. 8789

PROJECT NO. Ph-11(46)

SCALE OF MAP 1:8500

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\nu$ -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)
ARGYLE HOTEL, 1887	Spec. Beyond Pub. No. 46 detail limits	N.A.	45 04 24.81	765.9	(1086.3)	-23.7	742.2	(1110.0)	
IRON PIPE IN CAIRN, 1909 (U.S. & C.B.S.)	"	"	67 02 33.80	739.3	(573.1)	-2.9	736.4	(576.0)	
TANGENT TO NORTH CHY., 1909 (U.S. & C.B.S.)	"	"	45 04 38.029	1174.0	(678.2)	- "	1150.3	(701.9)	
G.B.S. (I.B.C.)	"	"	67 04 53.305	1165.9	(146.4)	- "	1163.0	(149.3)	
BLOCKHOUSE, 1863	"	"	45 04 38.14	1686.5	(165.7)	"	1662.8	(189.4)	
FINIAL CENTER WHITE WATER TR., 1909 (U.S. & C.B.S.)	"	"	67 05 01.201	26.2	(1286.0)	"	23.3	(1288.9)	
ALGONQUIN HOTEL TR., 1913	"	"	45 04 38.14	1177.4	(674.8)	"	1153.7	(698.5)	
SOUTH NAVY, 1894	"	"	67 04 54.92	1201.2	(111.1)	"	1198.3	(114.0)	
NAVY I. BARN, SW GABLE, 1887	"	"	45 04 55.890	1725.5	(126.7)	"	1701.8	(150.4)	
NAVY I. BEACON, 1863	"	"	67 05 02.080	145.5	(1266.7)	"	42.6	(1269.6)	
HALEY ROCK OR POINT, 1909 (U.S. & C.B.S.)	"	"	45 04 51.957	1604.0	(248.2)	"	1580.3	(271.9)	
JOES POINT, 1909	"	"	67 03 24.209	529.5	(782.8)	"	526.6	(785.7)	
REF. MON. 245, 1921 (I.B.C.)	"	"	45 03 16.246	501.5	(1350.7)	"	477.8	(1374.4)	
	"	"	67 02 38.732	847.5	(465.4)	"	844.6	(468.3)	
	"	"	45 03 21.74	671.1	(1181.1)	"	647.4	(1204.8)	
	"	"	67 02 47.46	1038.5	(274.4)	"	1035.6	(277.3)	
	"	"	45 03 28.236	871.7	(980.5)	"	848.0	(1004.2)	
	"	"	67 02 08.422	184.3	(1128.6)	"	181.4	(1131.5)	
	"	"	45 05 27.112	837.0	(1015.2)	"	813.3	(1038.9)	
	"	"	67 05 17.694	387.0	(925.1)	"	384.1	(928.0)	
	"	"	45 04 36.537	1127.9	(724.3)	"	1104.2	(748.0)	
	"	"	67 05 00.821	17.9	(1294.5)	"	15.0	(1297.4)	
	"	"	45 05 54.23	1674.1	(178.1)	"	1650.4	(201.8)	
	"	"	67 05 51.23	1120.4	(191.8)	"	1117.5	(194.7)	

M-2388-12

1 FT. = 3048006 METER  
COMPUTED BY: B. Wilson

DATE 11/14/49

CHECKED BY: A.K. Heywood

DATE

11/30/49



MAP T. 8789 PROJECT NO. Ph-11(46) SCALE OF MAP 1:8500 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\psi$ -COORDINATE LONGITUDE OR $\chi$ -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
RANGE MARK 1, 1919 (I.B.C.)	I.B.C. Report	N.A.	45 04 36.67 67 05 00.13	1132.0 (720.2) 2.9 (1309.5)	-23.7 -2.9	1108.3 (743.9) 00.00 (1312.4)	
RANGE MARK 2, 1919 (I.B.C.)	"	"	45 04 37.61 67 04 55.08	1161.0 (691.2) 1204.8 (107.6)	" "	1137.3 (714.9) 1201.9 (110.5)	
NAVY ISLAND, 1863	U.S.C. & G.S. OP List	N.A. 1927	45 03 17.054 67 02 40.390			526.5 (1325.7) 883.8 (429.1)	
PERRY, YELLOW HO., SE. CABLE, 1863	Spec. Pub. No. 46	N.A.	45 00 48.45 67 04 53.91	1495.5 (356.7) 1180.5 (133.4)	-23.8 -2.4	1471.7 (380.5) 1178.1 (135.8)	
TONGUE, 1946 (IBC)	?	N.A. 1927	45 03 44.419 67 00 48.151			1371.2 (481.) 1053.5 (259.4)	Same as Tongue Shoal L.H.
South Beacon (NW Beacon 1894) (ST Andrews W. Entrance NW Beacon - USCAGS) 1887		"	45 04 01.400 67 04 23.254				Same as "Niger Reef" Day beacon"
Bin, 1946 (IBC)			45 04 19.964 67 06 22.706	Near Ref Mon 246 (initial) 1909			Not Plotted
Joes, 1946 (IBC)			45 04 35.980 67 04 59.936	Near Range Mark 1, 1919			Not Plotted
Apple Pt, 1909 (IBC)			45 05 53.467 67 05 51.098	Near Ref Mon 245, 1921			Not Plotted
C-Sub, 1894 (IBC)			45 01 10.608 67 04 33.290	Near boring, 1946			Not Plotted
Bean, 1946 (IBC)			45 03 46.906 67 03 50.950	Not marked			
Holey, 1946 (IBC)			45 05 18.546 67 05 12.505				

1 FT. = 3048006 METER

COMPUTED BY: B. Wilson

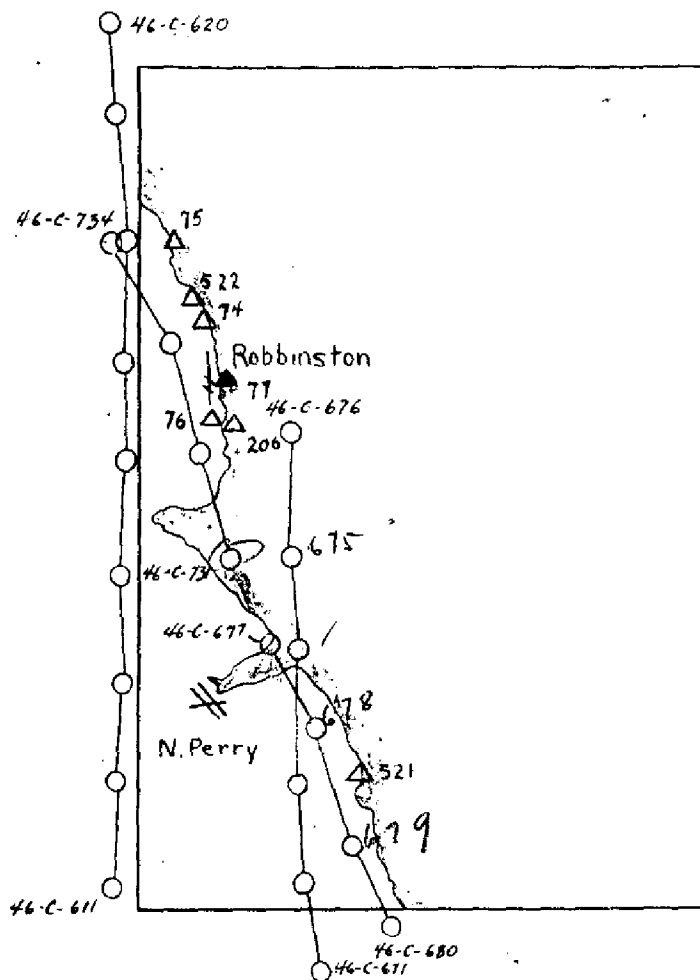
DATE 11/14/49

CHECKED BY: A.K. Heywood

DATE 11/30/49

M. 2388-12

74 Pike, 1909  
 75 Lambs Bluff, 1909  
 76 Initial, 1909  
 77 Robbinston, 1909 ~~Last~~  
 206 Ref. Mon., 246  
 521 Loring, 1946  
 522 Rob, 1946



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

PH-11(46)  
 T-8789  
SKETCH OF HORIZONTAL CONTROL  
 in the United States

FIELD INSPECTION REPORT

TO ACCOMPANY

QUADRANGLE 8789

PROJECT Ph-11(46)

OCTOBER 1946

1 - DESCRIPTION OF AREA:

This 7½ minute quadrangle is bounded on the north by N. Lat. 45°-07'-30", on the south by N. Lat. 45°-00'-00" and on the east and west by W. Long. 67°-00'-00" and 67°-07'-30" respectively. Only about one third of the area is land and half or more of that is in Canada. The area in the United States is in Washington County, Maine. The prominent water features are the St. Croix River which empties into Passamaquoddy Bay within the quadrangle limits, the two forming the International Boundary between the United States and Canada.

The principal cultural features are U. S. Highway No. 1 which parallels the St. Croix River in a northwesterly direction, traversing the quadrangle from south to north, and the villages of North Perry and Robbinston.

The vegetation is the type common to northeastern Maine and consists of softwoods such as pine, fir, spruce and hackmatack and hardwoods such as maple, birch, some elm and alder. Some cultivated areas are seen here and there. Blueberry Barrens are not so extensive in this quadrangle as some of the others, though a few may be found.

The shoreline, in general, is rocky with many ledges and 2 large coves.

2 - COMPLETENESS OF FIELD INSPECTION:

Interior Inspection was done of 1:20,000 scale single lens photographs Nos. 46 C 672, 674, 731 and 732. Woods were classified as to type and density, buildings to be compiled were encircled and roads labelled. The field inspection is complete.

3 - INTERPRETATION OF PHOTOGRAPHS:

This subject has been discussed in detail in other reports for the project. As photographic tones, etc., in this quadrangle are similar, reference is hereby made to the report for quadrangle 8797.

Filed in Div. of Ph & G - General Files

4 - HORIZONTAL CONTROL:

All known horizontal stations were searched for. This was 5 stations and 4 of them were recovered and identified on the photographs, using the substitute station method in each case. Exception to the above statement are those stations in Canada. No attempt was made to recover any station in Canadian territory.

Photographs on which control was identified are as follows:  
46 C 466, 733 and 734, all of which are 1:8500 scale ratio prints.

5 - VERTICAL CONTROL:

8 of the 9 bench marks known to exist in this quadrangle were recovered and identified on the 1:20,000 single lens photographs.  
*Seven bench marks recovered.*

The additional vertical control required was established by trigonometric methods running between established bench marks. All points established are within the accuracy requirements.

These level points are of a temporary nature. They are pricked and circled in blue on the front of the photographs and circled and numbered on the back. The letters RN prefix each such point.

Photographs used are: 46 C 673 and 674, both being 1:20,000 scale single lens.

6 - CONTOURS AND DRAINAGE:

Inapplicable.

7 - MEAN HIGH-WATER LINE:

The mean high water line was delineated on the photographs within 0.5mm of true position.

In general, a boat was used and sailed as far inshore as possible to identify the mean high water level.

Photographs on which shoreline and other field inspection appears are: 1:8500 ratio prints 46 C 674, 677, 679, 731 - 734 inclusive.  
Low altitude photographs (1:8500 reduced from 1:6000) 46 C 459 thru 482.

8 - LOW-WATER LINE:

Approximate low water line was delineated on the low altitude photographs when time of inspection was at or about low water.



9 - WHARVES AND SHORELINE STRUCTURES:

The only dock of any consequence is the one of the sardine factory at Robbinston.

10 - DETAILS OFFSHORE FROM HIGH-WATER LINE:

Wherever rocks or ledges were awash at or below MHW, a note was made on the photograph as to how much the rock or ledge bared, the time and date.

11 - LANDMARKS AND AIDS TO NAVIGATION:

The only landmark worthy of charting is the brick stack at Robbinston which is charted on chart 801. This landmark shall be retained. This has been reported on Form 567. *Chart letter 584(49)*

There are no permanent fixed aids to navigation within the limits of the quadrangle.

12 - HYDROGRAPHIC CONTROL:

Hydrographic signals were picked on the photograph for use of the hydrographer. These consist mainly of lone trees, or trees that stand out, such as on points of land. Also used for hydrographic signals were large boulders in the water, gables of houses and chimneys. Descriptions of hydrographic signals have been recorded in field sketch-book Vol. 9. An attempt was made to pick sufficient hydrographic signals, except in areas where it was impossible to pick signals with certainty.

In addition, recoverable topographic stations were established about 1 mile apart. Wherever possible, gables, cupolas or chimneys were used and picked direct on the photographs. Where no artificial objects were within the 1 mile radius, a marked station, using a standard topographic disc, was established and picked direct on the photograph.

Form 524 "Description of Recoverable Topographic Station" cards were submitted for all topographic stations".

13 - LANDING FIELDS AND AERONAUTICAL AIDS:

None.

14 - ROAD CLASSIFICATION:

Roads were classified according to current instructions.

15 - BRIDGES:

There are no bridges over navigable water within the limits of the quadrangle.

16 - BUILDINGS AND STRUCTURES:

Buildings and structures were indicated as a part of Interior Inspection. Those buildings to be compiled are circled in red ink on the photographs.

17 - BOUNDARY MONUMENTS AND LINES:

This is the subject of a special report submitted by Harold A. Duffy, Photogrammetrist. Filed in Div. of Phtgy - General Files

18 - GEOGRAPHIC NAMES:

Same as 17.

19 - SYMBOLS:

Symbols may be found on the back of photograph 732.

NOTE: Work on items 2, 5, 14, and 16 was done by Herschel G. Murphy, Eng. Aid.

Work on items 4, 7, 8, 9, 10, 11, 12, and 15 was done by Irving I. Saperstein, Engr. Drafts.

Respectfully Submitted:

Irving I. Saperstein *was*  
Irving I. Saperstein, Eng. Drafts

Herschel G. Murphy *was*  
Herschel G. Murphy, Eng. Aid

Approved and Forwarded: 12-26-46

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

COMPILATION REPORT

Project PH-11  
Survey T-8789

General methods used in the compilation of this quadrangle are adequately described in Project Report PH-11(46).

*Filed in Div. of Ptgy - General Files.*

More detailed descriptions of special applications of these methods appear under each item in the compilation report where applicable.

26. CONTROL

a) Vertical Control:

The edge of the water had to be used in several models for horizontalization. Glare from the water surface made it difficult to read and index properly.

b) Horizontal Control:

One short flight, 46-C-672-674, flown along the coast was scaled to pass points from the adjoining flight, 46-C-611-615. One triangulation stations, LORING, appeared in this area but was hard to identify. Model 673-674 contained 80% water area making a parallax solution difficult. *This area was tested by Field Editor. See report.*

27. RADIAL PLOT

None.

28. DETAILING

Model 46-C-674-675 in the vicinity of Lewis Cove could not be used by multiplex because of insufficient land area for the removal of parallax. Hypsography and culture in this area are to be completed during field edit. *Completed by Field Editor*

29. SUPPLEMENTAL DATA

None.

30. MEAN HIGH WATER LINE

Some small portions of the MHW line were shown by field inspection on photographs taken at low water, 46-C-465 and 46-C-467 (1:6000). This shoreline was transferred to the manuscript by the vertical projector holding multiplex detail points.

Photographs 46-C-674-675 could not be scaled by multiplex because of insufficient land area. The MHW line covered by this model was drawn by multiplex with monoscopic coverage using the adjacent model 46-C-675-676. Shoreline in this area should be checked by the field edit party.

*Shoreline checked and corrected.*

30. MEAN HIGH WATER LINE (Continued)

In the vicinity of Lewis Cove the MHW line was furnished by field inspection on photograph 46-C-677. Model 46-C-677-678 could not be oriented by multiplex because of poor quality photographs. Photographs 46-C-673-674, which cover the same area, were used during multiplex compilation and detail points plotted. These detail points could not be accurately transferred to field inspection photograph 46-C-677 due to glare and steep bluffs along the shoreline; consequently the MHW line was then transferred by the stereoscope from field inspection photograph 46-C-677 to photographs 46-C-673-674 and the MHW line drawn on the manuscript holding detail points furnished by multiplex. *Checked and corrected by Field Editor.* \*

31. LOW WATER AND SHOAL LINES

The approximate low water line was furnished by the field inspection party on low altitude flight 46-C-459-482 (1:6000) and transferred to the manuscript by vertical projector holding multiplex detail points. In some cases sufficient detail points could not be transferred to complete the low water line. *See Review Report*

32. DETAILS OFFSHORE FROM THE HIGH WATER LINE

Data believed to be complete.

33. WHARVES AND SHORELINE STRUCTURES

All have been shown and labeled.

34. LANDMARKS AND AIDS TO NAVIGATION

*See Review Report*

- a) All landmarks have been plotted
- b) Refer to item 11 of field inspection report

35. HYDROGRAPHIC CONTROL

See descriptions of photo hydro stations attached to Notes for Hydrographer.

The following photo (topographic) stations could not be plotted within the required limits of accuracy for the reasons noted:

- T.S. GABLE 8912 - Can't see.
- T.S. N. GABLE 8918 - Difficult to identify
- T.S. LORE 1946 - Can't see
- T.S. WINDMILL 8925 - Can't see

37. GEOGRAPHIC NAMES

An alphabetical list of geographic names has been prepared and accompanies this report.

The geographic names in this quadrangle are used as per recommendation of special report by Harold A. Duffy.

### 38. JUNCTIONS

Junctions have been made as follows:

To the north is St. Croix River which is the limits of  
Project PH-11(46) <sup>Canadian shoreline extended on T-8787 to junction</sup>  
To the east is St. Croix River which is the limits of Project  
PH-11(46) <sup>with this Quad.</sup>  
To the south with Survey No. T-8791  
To the west with Survey No. T-8788.

### 39. VERTICAL ACCURACY

In some cases due to diagonal flights along the shoreline, field elevations were not in sufficient quantity for all models. Where needed, multiplex elevations were evaluated and used in the compilation.

### 40. BOUNDARIES

The geographic positions of the International Boundary turning points were plotted using as a source the "Report, International Boundary Commission", Dept. of State, converted to the N. A. 1927 datum.

The boundary line between Robbinston and Perry is shown as per field inspection data.

### 44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

The comparison with the U. S. Geological Survey, Robbinston quadrangle was in good general agreement. The quadrangle was reprinted in 1945.

The hypsography did not agree well with the International Boundary Commission maps published in 1925.

### 45. COMPARISON WITH NAUTICAL CHARTS

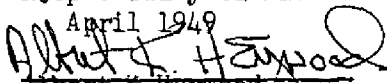
Comparison was made with the U. S. Coast and Geodetic Survey Chart No. 801, scale 1:40,000, dated 1919.

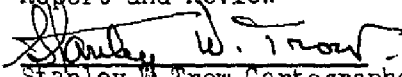
The general configuration of the shoreline is in good agreement. A small pond shown on the chart in the vicinity of Brooks Cove no longer exists.

The topographic and cultural detail of this map compilation is believed to be complete, and ~~upon completion of field edit and hydrography, should supersede all previously charted data.~~

Respectfully submitted

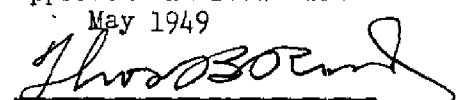
April 1949

  
Albert K. Heywood  
Engineering Draftsman  
Report and Review

  
Stanley W. Trow, Cartographer (Photo.)  
Supervisor

Approved and forwarded

May 1949



Thos. B. Reed  
Officer in Charge  
Baltimore Photogrammetric Office

Field Edit Report, T-8789

51. Methods.--All roads were ridden out by truck to check their classification, to edit vegetation classification, to reclassify buildings, and to visually inspect contours as to relief expression and planimetry.

The shoreline on the United States side was edited from a skiff running close inshore and at or near low-water, as was that of the Canadian side.

Standard planetable methods were used to run a vertical accuracy test and to complete contours in an area of about 1/3 sq. mile.

Five very old triangulation stations were visited to ascertain their existence. These stations were not previously described and Form 526 is being submitted for each.

One topographic station--QUIN, 1949--was established by theodolite, at approximate Lat.  $45^{\circ}01.6'$ , Long.  $67^{\circ}04.9'$ . This station could not be plotted. Control adequate without station.

Field edit information is shown on the following:  
(1) Discrepancy Prints, (2) Field Edit Sheets Nos. 1 and 2, (3) 1:8,500 scale ratio photographs 46 C 613, 615, 616, 618, 619, 672, 673, 676, 677, 733, and low altitude photographs 46 C 470, 471 and 473.

Red ink was used for additions and corrections; green for deletions. The letter "R" following a photograph number indicates a ratio print. No legend is shown.

52. Adequacy of compilation.--The area in the vicinity of Lat.  $45^{\circ}02.5'$ , Long.  $67^{\circ}06.5'$ , in which contours were completed by planetable, was vertically controlled by bench marks N-17 and M-65, the origin being at N-17 and termination at M-65. The error of closure was within 1.0 Ft. No adjustment was made. The work was done on 1:8,500 scale ratio photograph 46 C 677. Horizontal position was checked at numerous identifiable

topographic features. Error of position was negligible and no adjustment was made. The contours were compared with those on the map manuscript and it is believed the compiler will have no difficulty in affecting a junction and completing the area on the map manuscript.

After application of field edit data the compilation will be adequate and complete on the United States side. Since photographic coverage of the Canadian shoreline is incomplete the compilation is not adequate except for the nature of the foreshore which was inspected and noted on the photographs or the Field Edit Sheets.

53. Map accuracy.--A vertical accuracy test was run at approximate Lat.  $45^{\circ}00.6'$ , Long.  $67^{\circ}05'$ . Horizontal origin was at an intersection of a private driveway and road, and termination was at an identifiable topographic feature at the shore of a stream. The error of horizontal closure was 20 ft short. No adjustment was made.

Vertically the test originated at bench mark P-65. It was terminated at bench mark N-65. Error of vertical closure was 0.5 ft. high. No adjustment was made.

The test was run on 1:8,500 scale ratio photograph 46 C 672. The elevations were transferred to tracing paper along with planimetric features sufficient to orient the tracing and compared with a 1:8,500 scale print of the map manuscript. This comparison proved the contours to be within required mapping accuracy.

No other contours were tested by planetable but visual comparison proved them to be very good as to relief expression.

The accuracy of the horizontal position of the Canadian shoreline is questionable. The mean high-water line is drawn about 0.25 mm to the east of triangulation station RANGE MARK NO 1, 1919, at JOES POINT, when, as a matter of fact, the mean high-water line is about 15 meters to the west of the station. This would indicate that the horizontal position of the shoreline is in error by about 2 mm in longitude at this point. Triangulation station RANGE MARK NO. 1, 1919, and RANGE MARK NO. 2, 1919, which falls roughly 100 meters to the northeast, have been identified on photograph 46 C 676. Pricking cards are being submitted.

*This area recompiled.*

In the southeastern corner of quadrangle T-8787, approximately at its junction with quadrangle T-8789, triangulation station REFERENCE MON. 243, has been recovered and identified, by the sub-station method, on 1:8,500 scale ratio photograph number 46 C 619. The sub-station is on the mean high-water line. When this station is plotted on the map manuscript it will serve as a check on the horizontal position of the shoreline at that point.

The details of the Canadian shoreline are too generalized. It is believed that photographs 46 C 676 and 618 may be used to delineate the details more accurately with the help of these newly identified horizontal control stations. See Amendment to Addendum of the Compilation Report.

54. Recommendations.--No recommendations are offered.

55. Examination of proof copy.--Mr. Arthur T. Daggett, a Selectman and long time resident of Robbinston, Maine, has agreed to examine a proof copy of the map. His address is P. O. Box 35, Robbinston, Maine.

Geographic names.--The name ST. ANDREWS ISLAND is not known locally. For many years the island has been known as NAVY ISLAND. As it is in Canada, it is recommended that Canadian source material be further investigated before the map is published.

✓ Geog. Board Decision

No other geographical names discrepancies were noted.

Respectfully submitted,  
October 12, 1949

*George E. Varnadoe*  
George E. Varnadoe,  
Cartographic Engineer



# NOTES FOR HYDROGRAPHIC PARTIES

## Eastern Maine

Topographic Manuscript

Project PH-11(46)

Survey No. T-8789

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


No.	Photo. No.	Description	Ht. above MHW (feet)
8903	<del>732</del>	<del>Lone 20' spruce tree about 5 m W of MHWL and 10 m S of another 20' spruce on N side of * Mill Cove.</del>	<del>10</del>
✓ 8904	732	Center of small concrete highway bridge on E side.	8
✓ 8905		10' cedar about 20 m E of log cribbing and about 2 m W of a 15' spruce.	
✓ 8907		Center of perpendicular detached red ledge, baring 25' above MHW.	
✓ 8908	677	15' spruce, the most easterly of a group of spruces, on NE side of Lewis Cove and 5 m N of indentation in ledge	25
8910	<del>677</del>	<del>Lone 25' spruce on W side of small inlet on * NW side of Lewis Cove, 5 m W of MHW line. * Reject - too questionable - B.W. - 12-9-49</del>	<del>5</del>
✓ 8920	478	N. gable of shingled roof barn with 4 lightning rods.	50
✓ 8921	679	Lone 25' spruce tree 30 m NW of point and 2 m W of MHW line.	4
✓ 8922	679	Lone 35' spruce tree on N side of Loring Cove, at edge of earth bank about 4 m N of MHW line.	6
✓ 8923	679	E gable of boat shed at head of Loring Cove.	20
✓ 8924	679	Lone 20' spruce tree at W side of Loring Cove, about 100 m S of boat shed and 15 m W of MHW line.	7
8926	679	20' spruce tree, the most S of 3 spruces at edge of ledge bank.	10

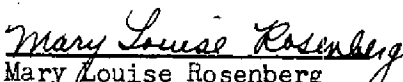
Notes for Hydrographic Parties  
Page 2

No.	Photo. No.	Description	Ht. above MHW (feet)
✓ 8931	467	Brick chy. in center of $1\frac{1}{2}$ story shingle-roofed dwelling with addition on E side.	40
✓ 8932	732	E gable of black tarpapered roof shed, with window under E gable, about 6 m W of MHW line	25
✓ 8933	465	E gable of Sardine Factory at Robbinston of the most E. building.	40
✓ 8935	464	Brick chy. in approx. center of 2 story shingled dwelling with pyramidal roof, about 75 m W of MHWL.	50
✓ 8937	733	E gable of shingle boat shed, about 75 m W of detached red ledge in cove.	25
✓ 8938	733	Lone 30' spruce tree, about 5 m <sup>SE</sup> of a 30' pine.	15
✓ 8939	733	Brick chy on S gable of $1\frac{1}{2}$ story cottage, with another chy in center of house.	75
✓ 8940	734	Brick chy. in center of 2 story dwelling with green roof on W side of Brooks Cove.	50
✓ 8941	734	Lone 25' spruce tree on N side of Brooks Cove and S of cleared field and 15 m N of MHWL.	
✓ 8942	734	NE gable of barn with window under S gable, about 200 m NW of MHWL.	80

Approved and forwarded  
10 May 1949

Respectfully submitted  
9 May 1949

  
Thos. B. Reed  
Officer in Charge  
Baltimore Photogrammetric Office

  
Mary Louise Rosenberg  
Cartographic Draftsman

ADDENDUM TO T-8789

The Canadian shoreline of the St. Croix River was taken from International Boundary Commission maps, Sheets No. 15 and 16.

*Deleted - See Review Report, # 28*

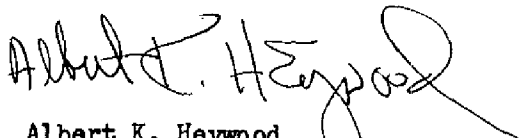
A small portion north of Latitude  $45^{\circ} 07'$  to the north limits of the sheet was delineated by Multiplex-model 46-C 618-619.

Refer to the Compilation Report T-8787 for additional information of the method used in the compilation of the area compiled by Multiplex.


The following geographic names are in Canada and have been added to the manuscript.

Joes Point	<i>See complete list</i>
Johnson Cove	<i>on Geog. Names sheet.</i>
Kimbell Cove	
St. Andrews Island	

Respectfully submitted  
19 July 1949

  
Albert K. Heywood  
Engineering Draftsman (Compiler)

Approved and forwarded  
19 July 1949

  
Thos. B. Reed,  
Officer in Charge,  
Baltimore Photogrammetric Office



AMENDMENT TO ADDENDUM TO T-8789

The addendum to T-8789 of 19 July 1949 regarding delineation of the Canadian shoreline is amended as follows:

South of latitude  $45^{\circ} 05' 30''$  and to approximate longitude  $67^{\circ} 03' 30''$  the shoreline was drawn monoscopically using one multiplex projector with diapositive 46-C-676. Shoreline prints on the American shore and Range Mark No. 1 were held to establish a scale and as control for the photograph. Foreshore inspection was furnished by the field edit party on this photograph.

In order to effect junction between the multiplex work and the IBC map, it was necessary to change the azimuth of the NW-SE road east of the shoreline.

The delineation of the Canadian shoreline east of longitude  $67^{\circ} 03' 30''$ , including Navy Island, was taken from USC&GS Chart 801 (scale 1:40,000). Chart 801 was chosen for this portion as it joined well with our work, whereas, a satisfactory tie with the IBC map sheet 15 here could not be made. See Review Report, #28. Information from the Chart + IBC map deleted.

Approved and forwarded  
10 January 1950

Respectfully submitted  
10 January 1950

Hubert A. Paton

Hubert A. Paton  
Officer in Charge  
Baltimore Photogrammetric Office

Henry P. Eichert

Henry P. Eichert  
Cartographer

LIST OF GEOGRAPHIC NAMES

- Back District Church ✓
- Brooks Bluff\* ✓
- Brooks Cove ✓
- Canada ✓
- Gin Cove ✓
- Hinton Point (pending with USBTN)
- Lewis Cove ✓
- Liberty Point ✓
- Loring Cove ✓
- Mill Cove ✓
- Mill Point ✓
- No<sup>orth</sup> Perry ✓
- Passamaquaddy Bay ✓
- Perry (district) ✓
- Pottle Brook ✓
- Robbinston (2) (village and district)
- Shore School ✓
- St. Croix River ✓
- South Robbinston (partly here)
- United States ✓
- Calais 2 not on this card
- U.S. No. 1 ✓
- Brewer Cemetery ✓
- First Congregational Church
- Washington County ✓
- Maine ✓

Names in Canada:

- St. Andrews Island ✓
- Soes Point ✓
- Kibell Cove ✓
- Johnson Cove ✓
- Western Gut ✓
- Niger Reef ✓
- St. Andrews ✓
- New Brunswick ✓  
(see above)

- Chamcook ✓
- " Hills ✓
- " Harbor ✓
- Minister Island ✓
- Hospital " ✓
- Hardwood " ✓
- Kitty Cove ✓
- St Andrew Point ✓
- North Point ✓
- Kitty Cove ✓
- CANADIAN PACIFIC (C.R.) ✓
- Craig Point ✓
- McCaum Cove ✓

Names preceded by •  
are approved. 6-15-49  
L. Heck

Review Report T-8789  
Topographic Map  
May 9, 1950

26. Control.--The only triangulation stations shown in Canada are along the edge of the detail limits. All stations that were reported lost or are beyond the detail limits were deleted. Several stations were not plotted since they are very close to stations already shown. Notes were added to the Form M 2388-12 indicating the status of each station.

Six USC&GS and one USGS bench marks were recovered in the field and are shown on the map manuscript.

28. Detailing.--Detail inshore from the MHW line in Canada is incomplete and has been neither field inspected nor edited and is shown only for the information of the Hydrographic Party. This detail is not to be published.

The MHW line in Canada between Latitudes 45°05'30" and 45°07'00" and part of the shoreline of St. Andrews Island was taken from T-1828, 1:10,000, 1866, because of inadequate photographic coverage. This shoreline was added so that the quadrangle can be completed but will not be shown on the registered copy.

31. Mean Low Water Line.--Low altitude photographs covering the entire shoreline on the United States side, were flown at low water. The approximate MLW line was compiled from these photographs and reconciled with the Hydrographic Surveys. The approximate MLW line in Canada was taken from the Hydrographic Surveys and symbolized in accordance with the Field Editors notes.

All information added from the Hydrographic Surveys has been shown in purple ink and will not appear on the registered copy. See attached letter, "History of Hydrographic Information," for sources.

34. Landmarks and Aids to Navigation.--Landmarks and Aids to Navigation in Canada were not inspected by the field parties. Three aids to navigation are shown in Canada within the detail limits of this map. The positions of these aids were previously determined by triangulation. Navy Island Lighthouse and Tongue Shoal Lighthouse are listed in the 1950 Canadian Light List. Niger Reef Day-beacon is listed in the 1940 edition of the Nova Scotia and Bay of Fundy Pilot. Two daybeacons, listed in the Pilot, marking Western Gut have been replaced by buoys; Canadian Notice to Mariners No. 30, 1948.

44. Comparison with Existing Surveys:

a) USGS Robbinston Quad 1:62,500	1931 Repr. 1945
b) T-1669	1:10,000 1885-88
T-1828	1:10,000 1866
T-1839	1:10,000 1865
T-1841	1:20,000 1866
T-1863	1:10,000 1888
T-1864	1:10,000 1888
T-1932	1:10,000 1889

This map supersedes these surveys in common area for nautical charting purposes.

47. Adequacy of the Compilation.--This map, T-8789, 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. See Paragraph 28 relative to detail in Canada.

48. Accuracy Tests.--The vertical accuracy test run on this quadrangle meets the project requirements. This map meets the National Standards of Map Accuracy.

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

Reviewed by:

Charles Theurer  
C. Theurer

Approved by:

L. V. Griffith  
Chief, Review Section E.H.M. [initials]  
Division of Photogrammetry

W. H. Edmonson  
Chief, Nautical Chart Branch  
Division of Charts

O. S. Reading  
Chief, Div. of Photogrammetry

W. M. Acaife  
Chief, Div. Coastal Surveys

# HISTORY OF HYDROGRAPHIC INFORMATION

T-8789

## Robbinston, Maine, Quadrangle

Hydrography was applied to the manuscript of this quadrangle in accordance with Division of Photogrammetry request of 26 July 1950, and with general specifications of 18 May 1949.

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

### USC&GS Hydrographic Surveys

H-1794 (1887)	1:10,000
H-1795 (1887)	1:10,000
H-4027 (1913)	1:20,000

### USC&GS Nautical Chart

801 (1949) 1:40,000

### B. A. Nautical Chart

1743 (1948) 1:12,150

Bottom contours are shown at 0 (represented by a dotted line), 6, 12, 18, 30, 60, and 120 feet.

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

*R. E. Elkins*  
R. E. Elkins, 19 Sept. 1950  
Nautical Chart Branch