

**REPORT**  
**INTERNATIONAL BOUNDARY COMMISSION**  
**REVISION ON THE 1927 NORTH AMERICAN DATUM**  
**AND MAINTENANCE OF THE BOUNDARY BETWEEN**  
**CANADA AND THE UNITED STATES**  
**SOURCE OF THE ST. CROIX RIVER TO THE ATLANTIC OCEAN**



**SPECIAL REPORT NO. 3**

**1962**

INTERNATIONAL BOUNDARY COMMISSION

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JOINT REPORT

UPON THE MAINTENANCE OF THE BOUNDARY BETWEEN  
CANADA AND THE UNITED STATES  
UNDER THE PROVISIONS OF ARTICLE IV OF THE TREATY  
SIGNED AT WASHINGTON, FEBRUARY 24, 1925

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SPECIAL REPORT NO. 3

REVISED DATA FROM THE SOURCE OF ST. CROIX RIVER  
TO THE ATLANTIC OCEAN AND MAINTENANCE  
ON THIS SECTION FROM 1925 to 1961

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COMMISSIONERS

FOR CANADA

J. D. CRAIG 1925-1931  
N. J. OGILVIE 1931-1947  
J. M. WARDLE 1947-1950  
J. L. RANNIE 1950-1951  
J. E. R. ROSS 1951-1957  
A. F. LAMBERT 1957-

FOR THE UNITED STATES

E. L. JONES 1925-1929  
J. H. VAN WAGENEN 1929-1935  
T. H. RIGGS 1935-1945  
J. A. ULINSKI 1945-1953  
SAMUEL L. GOLAN 1953-1961  
EDWARD J. KING 1961-



INTERNATIONAL BOUNDARY COMMISSION

CANADA AND THE UNITED STATES

Washington, April 12, 1962

The Honourable  
The Secretary of State  
for External Affairs of Canada,  
Ottawa.

The Honourable  
The Secretary of State  
of the United States,  
Washington.

Sirs:

We have the honour to submit herewith to each Government two signed originals of the Commissioners' joint report upon the maintenance work done on the International Boundary Line from the Source of the St. Croix River to the Atlantic Ocean subsequent to the year 1925, under the provisions of Article IV of the Treaty between His Britannic Majesty in respect of Canada and the United States, signed at Washington, February 24, 1925.

Respectfully submitted,

*A. F. Lambert*

A. F. Lambert  
Canadian Commissioner

*Edward J. King*

Edward J. King  
United States Commissioner



Cherry Island, Passamaquoddy Bay, Range 17, Bell  
Tower and Lighthouse in 1961.

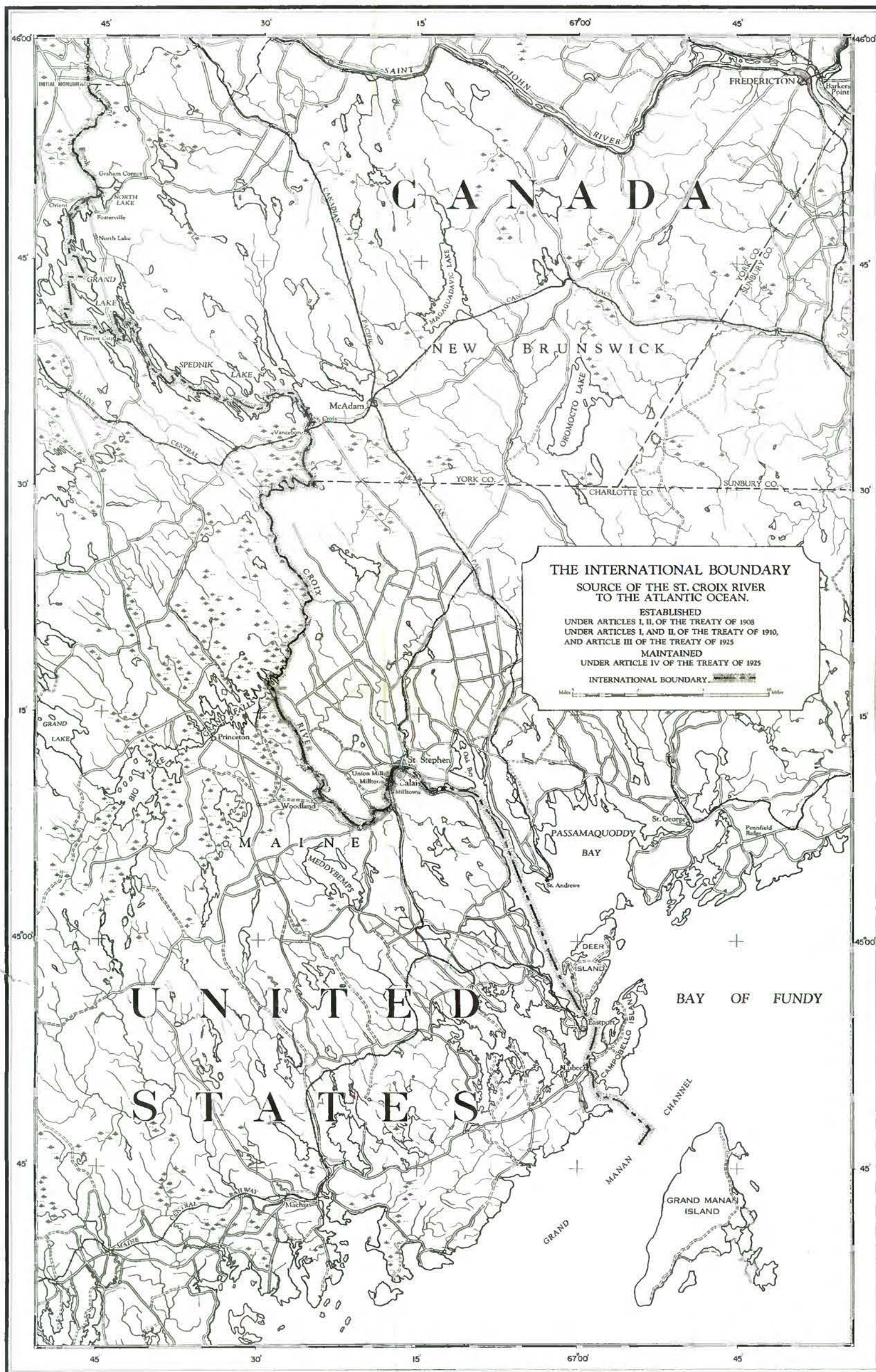
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## INTRODUCTION

Article IV of the treaty between the United States and His Britannic Majesty in respect of Canada, signed at Washington, February 24, 1925, which provides for the "maintenance of an effective boundary line between the United States and the Dominion of Canada and between Alaska and the Dominion of Canada," stipulates:

"The said Commissioners shall submit to their respective Governments from time to time, at least once in every calendar year, a joint report containing a statement of the inspections made, the monuments and buoys repaired, relocated, rebuilt, moved, and established, and the mileage and location of vistas opened, and shall submit with their reports, plats and tables certified and signed by the Commissioners, giving the locations and geodetic positions of all monuments moved and all additional monuments established within the year, and such other information as may be necessary to keep the boundary maps and records accurately revised."

This is a joint report submitted by the Commissioners under the above provisions of the Treaty of February 24, 1925. The report contains a complete account of boundary inspections and the maintenance work performed by this Commission along the water boundary from the Source of the St. Croix River to the Atlantic Ocean, from 1925 to 1961, inclusive. The original report of the International Boundary Commission upon the establishment of the boundary from the Source of the St. Croix River to the Atlantic Ocean, under the terms of Articles I and II of the Treaty of 1908, Articles I and II of the Treaty of 1910 and Article III of the Treaty of 1925, was submitted by the Commissioners to their respective Governments in 1934. In the succeeding twenty-seven years many monuments have been lost or damaged and new monuments and marks have been established on this section of the boundary. In addition, the re-survey and improvement of much of the control triangulation has been effected, and the positions of the boundary turning points, reference monuments, reference marks and range marks have been re-computed upon the 1927 North American datum which has now largely replaced the North American datum upon which the geographic positions in the original report were based. This special report, therefore without in any way changing the actual location of the boundary as laid down under the terms of the Treaties of 1908, 1910 and 1925, presents the geographic positions of boundary turning points, monuments and other marks on a more recent and more useful datum, and as already noted gives an account of the work of the Commission in maintaining this section of the boundary from 1925 onwards.

## APPOINTMENTS OF THE COMMISSIONERS

In the years 1925 to 1961, covered by this report, six successive Commissioners have held appointments for Canada and six for the United States. The Commissioners, and the years during which they served are as follows:

### FOR CANADA

J. D. Craig, 1925-31  
 Noel J. Ogilvie, 1931-47  
 J. M. Wardle, 1947-50  
 J. Leslie Rannie, 1950-51  
 J. E. R. Ross, 1951-57  
 A. F. Lambert, 1957-

### FOR THE UNITED STATES

E. Lester Jones, 1921-29  
 James H. Van Wagenen, 1929-35  
 Thomas Riggs, 1935-45  
 John A. Ulinski, 1945-53  
 Samuel L. Golan, 1953-61  
 Edward J. King, 1961-

The appointments of all the Commissioners have been published from time to time in the official reports of the International Boundary Commission except for the last-named Canadian and United States Commissioners. Their appointments are therefore included in this report



Reference Monument 45 on Grand Lake in 1946.



MR. ALFRED FREDERICK LAMBERT FOR CANADA

(signed) Vincent Massey

Great Seal of Canada

CANADA

(Signed) W. R. Jakkett,  
Deputy Attorney General  
CANADA

ELIZABETH THE SECOND, by the Grace of God of the United Kingdom, Canada and Her other Realms and Territories QUEEN, Head of the Commonwealth, Defender of the faith.

To  
ALFRED FREDERICK LAMBERT,  
Esquire,

GREETING:

KNOW YOU, that reposing trust and confidence in your loyalty, integrity, and ability, We did, on the third day of October, in the year of Our Lord one thousand nine hundred and fifty-seven and in the sixth year of Our Reign, constitute and appoint you the said Alfred Frederick Lambert to be

INTERNATIONAL BOUNDARY COMMISSIONER

TO HAVE, hold, exercise and enjoy the said office of International Boundary Commissioner unto you the said Alfred Frederick Lambert with all and every the powers, rights, authority, privileges, profits, emoluments and advantages unto the said office of right and by law appertaining during Our pleasure.

IN TESTIMONY WHEREOF, We have caused these Our Letters to be made Patent and the Great Seal of Canada to be hereunto affixed.

WITNESS: Our Right Trusty and Well-beloved Counsellor, Vincent Massey, Member of Our Order of the Companions of Honour, Governor General and Commander-in-Chief of Canada.

AT OUR GOVERNMENT HOUSE, in Our City of Ottawa.

BY COMMAND,

(Signed) C. Stein,

UNDER SECRETARY OF STATE



MR. EDWARD J. KING FOR THE UNITED STATES

JOHN F. KENNEDY

President of the United States of America

To all who shall see these Presents, Greeting:

KNOW YE, That reposing special trust and confidence in the Integrity and Ability of EDWARD J. KING, of Massachusetts, I do appoint him Commissioner on the part of the United States on the International Boundary Commission, United States and Canada, and do authorize and empower him to execute and fulfill the duties of that Office according to law and to have and to hold the said Office with all the powers, privileges, and emoluments thereunto of right appertaining unto him the said EDWARD J. KING, during the pleasure of the President of the United States for the time being.

IN TESTIMONY WHEREOF, I have caused these Letters to be made Patent and the Seal of the United States to be hereunto affixed.

DONE at the City of Washington this twenty-second day of September, in the year of our Lord one thousand nine hundred and sixty-one, and of the Independence of the United States of America the one hundred and eighty-sixth.

JOHN F. KENNEDY

(Seal)

By the President:  
Signed CHESTER BOWLES,  
Acting Secretary of State

## ESTABLISHMENT OF THE BOUNDARY UNDER THE TREATY OF 1908

Under the terms of the Boundary Treaty of April 11, 1908, the establishment of the boundary between the two countries from the Source of the St. Croix River to the Atlantic Ocean was assigned to the International Boundary Commission. The international boundary line had never been definitely located in this section of the boundary, although earlier commissions had selected the present St. Croix as the river referred to in the treaty of 1794, had mapped it in 1798 and had set a wooden post to mark its source in 1817, replacing this with an iron post in 1843.

The United States Coast and Geodetic Survey had executed geodetic surveys and some hydrographic work in these boundary waters from 1857 to 1863 inclusive, in 1867, from 1887 to 1893 inclusive, and in 1910. The results of this work were used by the Commission as the basis of their work under the treaty of 1908.

The field operations of the Commissioners under the treaty included a careful determination of the course of the thalweg on the St. Croix River, the laying down of the boundary courses through Passamaquoddy Bay, the establishment of boundary reference monuments along the river and range marks along the bay, the accurate location of the same, and the mapping of a narrow strip along each side of the boundary.

In 1908, a reconnaissance was made along the river to recover old triangulation stations and some new stations were located as control points. In 1909 two parties, one from each section of the Commission, under J. E. McGrath and A. J. Brabazon, D. L. S., executed a small scheme of triangulation from the mouth of the river to the vicinity of Baring, Me., and Upper Mills, N. B. In 1910, these parties extended the triangulation to Woodland, Me., and connected several marked points on the river between that village and Vanceboro, Me., to primary stations of the United States Coast and Geodetic Survey by traverses. A start was made on the establishing of triangulation along Spednic and Grand Lakes in 1911 after completion of the traverses below Vanceboro.

In 1912, the triangulation was completed along the lakes and a traverse run along Monument Brook at the head of the St. Croix River and along the streams connecting the lakes. In 1913 the two parties did triangulation along Passamaquoddy Bay to establish locations for the boundary range marks.

In 1917, a United States party with H. C. O. Clarke as chief of party set and located reference monuments from the source of the St. Croix River to Vanceboro, and mapped the territory nearly to Vanceboro. This party also laid down the boundary line through the narrow stream at Forest City.





International Boundary Bridge and Customs House,  
The Thoroughfare in 1946.

Another party with Nelson W. Smith as chief of party executed a traverse from Vanceboro nearly to Woodland, built a number of towers to locate points along this traverse from the primary triangulation, mapped the territory nearly to Woodland, and set and located reference monuments over the same territory. In 1918, the latter party completed the above work to Milltown, and did considerable hydrography to locate the boundary past the islands in the river. A small party with F. H. Brundage as chief did some hydrography in vicinity of Milltown, to determine the boundary past an island at that point.

In 1919, the range marks, ranging the boundary line through Passamaquoddy Bay, were built of concrete and located from existing triangulation stations by a party in charge of Jesse Hill of the United States section. In 1921 a United States party in charge of Nelson W. Smith, with John A. Pounder as Canadian representative, laid down the boundary line in the field through Monument Brook, North Lake, the Thoroughfare, and the main river from Vanceboro to Milltown.

They also set and located the reference monuments from Calais, Me., to the mouth of the river. Canadian parties in charge of John A. Pounder and Garnet T. Prinsep completed the mapping of the area near St. Andrews, N. B., and the Canadian Islands in Passamaquoddy Bay, and set the last reference monuments near Milltown in 1921 and 1922.

The office work, nearly completed by 1924, consisted of the preparation of the boundary maps and the adjustment of the triangulation and traverses and the determination of the geographic positions of range marks, reference monuments and boundary turning points. The report was published in 1934, with the geodetic positions based on the North American datum.

#### DESCRIPTION OF TERRITORY

From the Initial Monument at the source of the St. Croix River, Monument Brook, which is some  $13\frac{1}{2}$  miles in length, flows southward to enter North Lake through swampy country, difficult to work in during rainy seasons. From North Lake the Thoroughfare, a short passage bordered by low swampy land, leads to Grand Lake which is some 19 miles long. With the closing of the dam at Forest City at the outlet of Grand Lake, water is backed up for several miles in Monument Brook, flooding the woods and swamps on either side and at the Thoroughfare. The comparatively higher banks of the two lakes however, prevents any marked change in their size in times of high water.

In 1921 when the boundary was being laid down, Monument Brook, as a result of long periods without rain, was mostly dry for a few miles near its source, and its lower reaches and the Thoroughfare were narrow and shallow. This made the laying down of the boundary much easier.



From Forest City a small stream leads to Mud Lake which is about two miles long and from this another small stream leads to Spednik Lake which is some 19 miles in length. These two streams and Mud Lake vary considerably in depth and width with flood conditions, and Spednik Lake itself is directly affected by the dam across its outlet at Vanceboro. When the dam is closed, the lake is much enlarged, with flooding occurring back into low valleys adjoining its shores. At such times, small motor boats pass easily through the various narrows throughout its length. At times of low water, however, the lake shrinks considerably and only the smallest motor boats can pass through the crooked channels which mark the various narrows. On the shores of the lake are large rocks, some the size of a small house, which form part of the beach at low water, but which are isolated at high water, and most of the survey stations are located on these. While roads give access to Grand Lake in several places, the only good road to Spednik Lake is at Vanceboro, although logging roads reach it at two places near its upper end, east of Forest City.

From Vanceboro the St. Croix River flows southward for about forty miles to Woodland, Me. Throughout much of its course it flows through swamps and can be reached by very few roads. There are numerous rapids or rips, as they are called locally, with several falls. There is now a dam at Grand Falls some 9 miles above Woodland, and the back water from this dam nearly covers Spednik Falls at the head of the Grand Falls flowage lake, and floods the side valleys between, and also the valleys up the West Fork past Princeton, Me. Navigation is thus largely a one way trip with at least two portages and considerable risk is involved in running some of the rips. This is specially so during the spring drive. From the Woodland dam to Calais, a distance of about ten miles, the river is shallow, with a few rips and dams and navigation is limited largely to canoes. On the river below Vanceboro, canoes, canoe boats and bateaux are used.

Tide water reaches up the river to the rapids a little above the International bridge between Calais, Me., and St. Stephen, N. B., and small ships can reach these villages at high tide. The river attains considerable width below Oak Bay. In the lower reaches of the river is small Dohet Island, where the finding of the remains of De Monts first settlement determined which river was the historic St. Croix.

There is considerable variation in the tide through Passamaquoddy Bay, which consists of a number of large bays joined by narrows through which the tidal current is very strong at times. There are numerous islands, some of which are of considerable size.



Survey station "Floyd" and North Lake, 1946.



## MAINTENANCE WORK

The main item in maintaining the boundary through the St. Croix River is the inspection, repair and occasionally the relocation of the reference monuments and other survey stations. Through the lakes and in places along Monument Brook and the main river below Vanceboro, the reference monuments are on rocks and some of these are liable to displacement by flood conditions or ice action. This necessitates an occasional check up in some sections by triangulation to be sure of the location of the reference monuments and hence of the true position of the turning points in the boundary.

Along Passamaquoddy Bay it is necessary to inspect the range marks and make any necessary repairs. The only vista clearance required in this section of the boundary is along the upper reaches of Monument Brook and around the range marks so that they may be seen from the boundary turning points which they range in the bay.

In the office, computations of the positions of new or relocated reference monuments have to be made and the result of these computations reported in the Annual Report of the Commissioners, or in case of numerous changes, in a special report.

## SURVEY STANDARDS

Standards maintained in engineering work have changed considerably in the last 50 years. The positions of and azimuths between first-order geodetic stations and other stations located from them along the St. Croix River and Passamaquoddy were not questioned in 1908 and all new work was based on them. Many of these secondary stations, especially along Passamaquoddy Bay have recently been found to be poorly located stations, for hydrographic use only. Ties between the boundary triangulation and the first-order stations were often slim, poorly shaped, and single triangles, and too far apart for control by today's standard. Thus, to bring the positions of this part of the International Boundary up to the standard of geodetic work now done by this Commission and all other geodetic surveys, it was found necessary in 1946 to make a resurvey of several parts of this section of the boundary, and to make better and closer ties between the boundary triangulation and first-order geodetic stations. Probable changes in reference monuments on rocks subject to flood or ice was a large contributing factor in this decision.

A list of some twenty errors found in the 1934 printed report has been kept and these are being corrected in the present report. The 1934 report was on the North American datum, which is no longer in general use. The present



report is on the 1927 North American datum which in this area differs from the old datum by about 75 feet in latitude and a lesser amount in longitude. Many azimuths were considered good only to minutes and positions to hundredths of a second and were thus printed in the 1934 report. After the careful field work of 1946 and the new adjustment made thereafter on the 1927 datum, it has been possible in this report to give these values uniformly to three decimal places in position and to seconds of azimuth. The policy, uniform in geodetic work, of publishing only one uncertain figure has been followed in this report. Azimuths between boundary turning points were accurately computed by two sides and included angle where possible, instead of by an inverse computation between positions as was done in the original report.

There has been a similar change in standards of making maps. Fortunately this was discovered in time to have the field plane table surveys made in this section fully as accurate as any made now, and the resulting maps meet modern requirements for accuracy.

All hydrographic work was very carefully done. Each elevation of the river bed was carefully read and the result shown on plane table sheets of sufficient scale to give an accurate thalweg of the river.

#### TYPES OF SURVEY ON ST. CROIX RIVER BOUNDARY

- (1) Monument Brook. This work was by transit and tape traverse and this determined the method of listing.
- (2) North Lake. The field work was supplemented by triangulation in 1946 and accurately tied to the second-order work.
- (3) The Thoroughfare. A very small scheme tied to second-order stations at each end with a measured base near its center.
- (4) Grand Lake. Many stations were second-order, the other stations and reference monuments mainly located directly from these second-order stations.
- (5) Near Forest City. Triangulation tied directly to the second-order work.
- (6) Mud Lake. Triangulation tied directly to second-order work, with a short traverse at the end connecting well-located third-order stations.
- (7) Spednik Lake. A well executed third-order scheme of triangulation, frequent lines and stations of which





Difficult observing on Spednik Lake in 1946.

were also in the second-order scheme.

- (8) Vanceboro to Woodland. A transit and tape traverse connecting second-order stations located at intervals of three to five miles along the river. The reference monuments are located from the traverse stations.
- (9) Woodland to Calais. A scheme of small third-order triangulation executed in 1909 and 1910 with a few traverse stations. Several of these third-order stations were also stations of the second-order work of 1909 and 1946.
- (10) Below Calais. Good third-order triangulation of the year 1909 with several ties to the first-order scheme, executed in 1946.
- (11) Northern Passamaquoddy Bay. Second-order triangulation by the International Boundary Commission in 1946 with various stations located by the United States Coast and Geodetic Survey largely in the nineteenth century. All were adjusted on the 1927 datum by this Commission.
- (12) Western Passamaquoddy Bay. Triangulation executed in nineteenth and twentieth centuries in the western parts of the bay by the United States Coast and Geodetic Survey and adjusted by this Commission.
- (13) Vicinity of Eastport. Triangulation of the International Boundary Commission with some United States Coast and Geodetic stations with numerous second-order ties. Adjusted by this Commission.
- (14) Southern Passamaquoddy Bay. Triangulation of this Commission and the United States Coast and Geodetic Survey with ties to first-order work of the United States and of Canada. Adjusted by this Commission.

#### DESCRIPTION OF FIELD WORK

Inspections and field surveys in the section of the International Boundary from the Source of the St. Croix River to the Atlantic Ocean have been made as shown below.

##### 1931 St. Croix River

The Canadian Commissioner, Mr. Noel J. Ogilvie, inspected Reference Monuments over about 10 miles of the river and found them in good condition.



1935 St. Croix River

The two Commissioners inspected the boundary in the St. Croix River between Milltown and the St. Stephen - Calais bridge. They recommended marking the bridges.

Passamaquoddy Bay

The two Commissioners inspected the 48 boundary range marks. They recommended clearing the vista between these marks.

1936 St. Croix River

A United States party with J. G. Hefty in charge, with Engineer to the Commission, Mr. John A. Pounder, as Canadian representative located the points where the boundary lines intersect the rails of the bridges across the river and marked the same with standard bridge markers.

Passamaquoddy Bay

The same party inspected the range marks, cut the vistas between the front and rear ranges and checked one mark on Treat Island that had been moved during construction of a dam. A complete account of this work is given in the Annual Report for 1936, pages 7 to 14, inclusive.

1939 St. Croix River

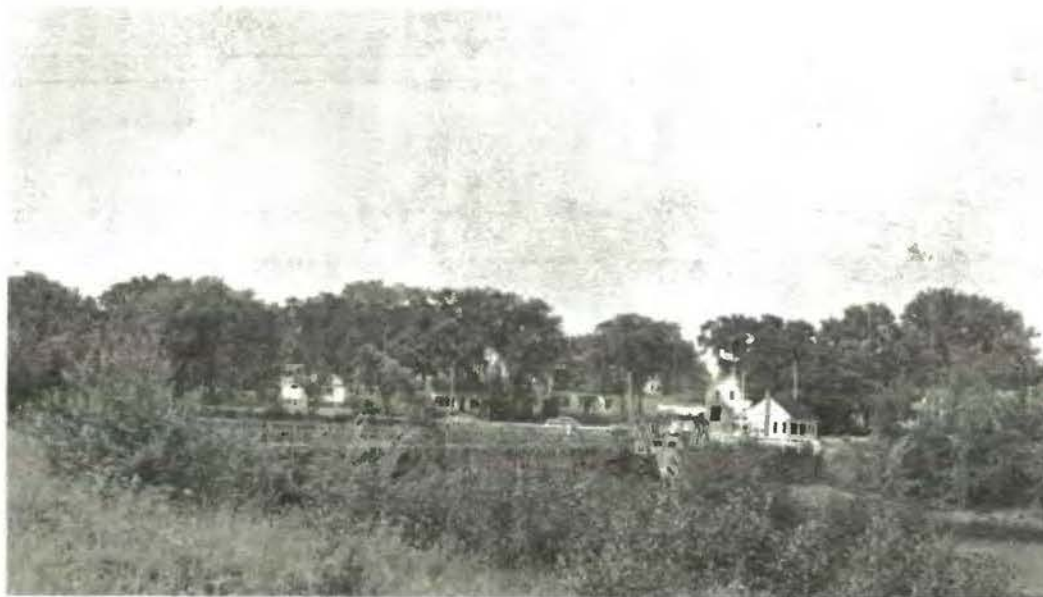
A United States party, in charge of Engineer to the Commission Jesse Hill, made a thorough inspection of the whole length of the St. Croix River. Reference monuments out of place were relocated, 6 unmarked bridges were marked and the vista cut in the upper reaches of Monument Brook. A complete record of this work is given in the Annual Report for 1939, pages 15 to 27, inclusive.

1945 St. Croix River

The two Commissioners made a joint inspection of points along this section of the boundary.

1946 St. Croix River

A United States party in charge of Nelson W. Smith,



Broken bridge over St. Croix River between Calais,  
Maine and Union Mills, New Brunswick, 1961.



with Garnet T. Prinsep as Canadian representative, made a thorough inspection and in many places a complete re-survey of the whole length of the river. The traverse stations and reference monuments along Monument Brook were recovered, necessary repairs made and a checked location of station "Poplar Mountain" obtained from the Primary triangulation. A complete geodetic re-survey was made of North Lake, the Thoroughfare and Grand Lake with numerous ties to the primary stations in both lakes and at the ends of the Thoroughfare. A new scheme of triangulation was executed through the Thoroughfare and a base measured about its center.

The reference monuments along the narrow stream at Forest City were located by triangulation and two ties made to the main scheme. Two stations on Mud Lake were located from the primary and all other stations on this lake and its outlet inspected carefully. A complete geodetic re-survey was made of Spednik Lake, the lake triangulation being well tied in with the primary work every two to three miles.

All reference monuments and marked stations were recovered and necessary repairs made from Vanceboro down the main river to Grand Falls. This section was well tied to the primary triangulation in 1917 and 1918 and no extra triangulation was done this year. Time did not permit an inspection of stations from Grand Falls to Woodland. The reference monuments and all survey stations between Woodland and Passamaquoddy Bay were inspected. The few old ties to the primary scheme were strengthened and several new ties made in this section.

#### Passamaquoddy Bay

There was no geodetic connection between the boundary triangulation at the mouth of the St. Croix River and that around Deer Island and Eastport, Me. Observations in recent years had shown a one minute twist in azimuth in this distance. Many of the stations around Eastport and Lubec were located for hydrographic purposes only by a single observation direct and reverse. This year a scheme of triangulation was executed from the mouth of the St. Croix River to Eastport, well connected to primary stations. Several old lines below Eastport were reobserved together with several new lines. This eliminated all twist in azimuth and gave good control for all local boundary triangulation in the area. Further details of the work along the St. Croix River and Passamaquoddy Bay is given in the Annual Report for 1946, pages 17 to 26, inclusive.



Inspection - St. Croix River and Passamaquoddy Bay

The two Engineers to the Commission, Mr. Hill and Major McCallum, inspected the work of the above party in Spednik Lake, at the bridges crossing the river, and some of the range marks along the bay.

1947 Passamaquoddy Bay, St. Croix River

The U. S. Commissioner and the U. S. Engineer to the Commission, Jesse Hill, inspected some of the range marks, especially the one on the breakwater at Lubec, Me., and some points along the St. Croix River. Search was made for several old survey stations from new stations established in 1946.

1950 Passamaquoddy Bay, St. Croix River

The Commissioners inspected bridge tablets on the bridge at Calais, Me. - St. Stephen, N. B., and some range marks along Passamaquoddy Bay, with special reference to No. 27 on the breakwater at Lubec, Me.

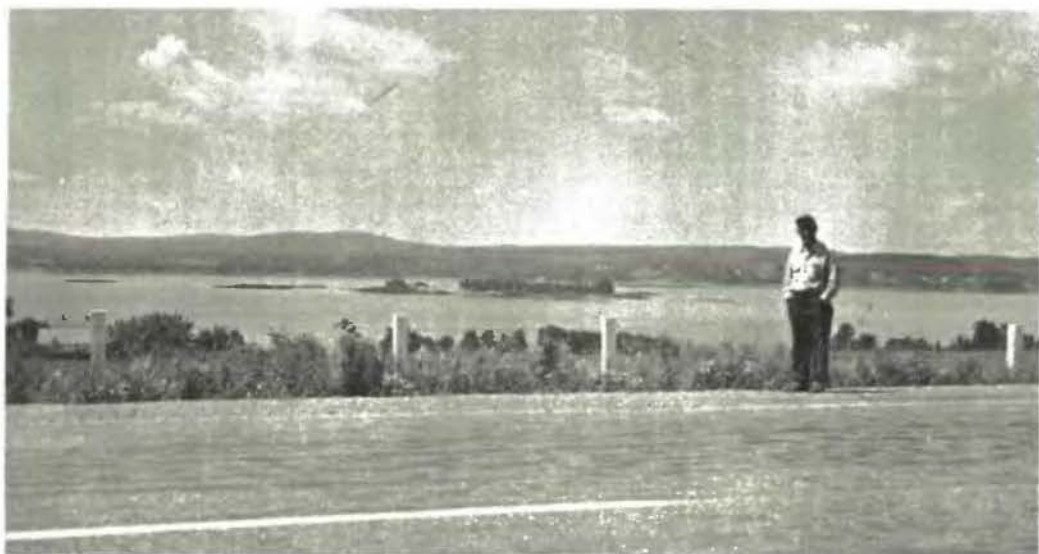
1954 Passamaquoddy Bay

A United States party in charge of R. K. Lynt cut the vista around and between the 24 pairs of range marks so the range lines could be seen from the turning points which they ranged in the bay.

1955 Passamaquoddy Bay

The Commissioners made an inspection of Range No. 27, a pyramidal concrete monument, located on the breakwater at Lubec, Me. It was decided that this monument which had shown steady deterioration at the base in recent years, could best be improved when proposed dredging operations in the nearby channel were completed and subsequent to the building of a new wall for the breakwater. Range No. 28, which with No. 27 ranges boundary course 7-8, was in good condition but was obscured from view of ships by two frame buildings, one on either side of it. Later in the season the Engineer to the United States section placed a temporary wooden mark at this range to restore its usefulness. Nineteen of the remaining 42 range marks were also inspected and found in good condition.

Recovery was made of stations "FRIARS HEAD" and "FRIARS HEAD 2" on Campobello Island. These had long been considered lost, but a careful search, following



Dochet Island from Canadian shore in 1955. Site of DeMonts' winter camp in 1604-1605.



computations based on the position of "FRIARS HEAD 3", resulted in their recovery.

#### 1957 St. Croix River

Mr. N. W. Smith, Engineer to the United States Section, arrived at Calais, Me., on September 18 to locate the intersections of the boundary line with the rails of the new bridge and set the bridge tablets. The Congregational Church Spire had been removed and a lower section built. Also the old triangulation stations were gone for a mile downstream and all those upstream were in woods, hence a new triangulation scheme had to be established and connected to the boundary by adjusted computations to locate the sites for the bridge tablets. This work was completed on September 24.

#### 1958 St. Croix River and Passamaquoddy Bay

On July 3, before commencing a joint inspection of the work of the Commission's field parties on the Maine-New Brunswick boundary, the Canadian Commissioner made an inspection of the new tablets on the Calais, Me.-St. Stephen, N. B. bridge. An inspection was also made of Ranges 1 and 2 at Joe's Point, N. B., of Range 8 at Eastport, and of Range 28 at Lubec, Me. Range 27 on the rock breakwater had been overturned and lost during operations to extend the breakwater.

#### 1960 Passamaquoddy Bay

The Commissioners visited Lubec, Maine on July 11, where Range 28 was inspected. It was decided that the new range mark should be placed behind the breakwater in a protected position. Ranges 33 and 34 on Charley's Point, Campobello Island were inspected. Ranges 15 and 16 were also inspected and Range 17 was clearly visible on Cherry Island.

#### 1961 Passamaquoddy Bay

The Engineer to the United States Section of the Commission built Range 27 behind the breakwater using 14 tons of concrete and about 20 tons of large rock to protect the base. Over 30 tons of rock were placed around base of Range 13, five Ranges largely rebuilt, all others thoroughly repaired, a superstructure placed on Range 34 and a metal extension placed over Range 28. All lines from ranges to turning points were cleared to ground level. The new Range 27-61 was inspected by the two Commissioners. A new bridge from Lubec to Campobello Island is being erected.

## OFFICE WORK

Before 1945, the office work connected with this section of the boundary consisted chiefly of computing the geodetic positions of new bridge tablets and reference monuments on the North American datum, and listing this data and the results of inspections in the annual reports of the Commissioners.

In 1945, a start was made in placing the work on the 1927 North American datum. Investigations were made into the old triangulation on which the boundary was based. This revealed the fact of insufficient triangulation ties to the first-order stations and the poor location of some of the stations used. These facts, together with the possible movement of many of the reference monuments due to ice and flood conditions, necessitated the field work of 1946.

During the winters from 1946 to 1948, the triangulation covering the entire length of the river and bay was re-adjusted, using the observations of 1946 and the original observations taken between 1908 and 1922 and of changes made since 1922 in bridge tablets and reference monuments. Other necessary work prevented the re-computation of the boundary turning points on the 1927 North American datum until 1950-1951, when about 350 of these were computed, using the original field observations. In the few cases where the difference in position, azimuth or distance was greater or less than the average change due to change of datum would indicate, careful investigations of both old and new work were made to ascertain the reason, so that avoidable errors would not be carried into this report.

Preparation of the first two special reports of the Commissioners delayed work on the turning points of this section until early in 1954. Work was then resumed and completed early in 1955. Preparation of this special report of the Commissioners on the boundary from the Source of the St. Croix River to the Atlantic Ocean followed the sending of the two previous reports to the photolithographer for printing. The extensive re-survey along the St. Lawrence River, made necessary by the Seaway, and the associated computational load in the office has delayed the completion of this report until the present time.





New Range 27-1961, Breakwater Lubec,  
Maine, Passamaquoddy Bay.

## SUMMARY OF PERSONNEL ENGAGED

Year	Location of Work	Section	Engineer in Charge
1936	St. Croix R. near Calais Passamaquoddy Bay	United States	J. G. Hefty
		Canadian	J. G. Hefty
1939	Initial Mon. to Atlantic Ocean	United States	J. Hill
1946	Initial Mon. to Atlantic Ocean	United States Canadian	N. W. Smith
1954	Passamaquoddy Bay	United States	R. K. Lynt
1955	Passamaquoddy Bay	United States Canadian	N. W. Smith
1957	St. Croix R. at Calais	United States	N. W. Smith
1958	Passamaquoddy Bay	Canadian	
1960	Passamaquoddy Bay	United States Canadian	
1961	Passamaquoddy Bay	United States Canadian	N. W. Smith



IN THE FIELD WORK,		
Triangulation	Monumenting	Inspection
J. G. Hefty J. A. Pounder J. G. Hefty	J. G. Hefty J. G. Hefty	J. A. Pounder J. A. Pounder
J. Hill	J. Hill	J. Hill
N. W. Smith  G. T. Prinsep	N. W. Smith	J. Hill N. W. Smith G. H. McCallum G. T. Prinsep
		R. K. Lynt
N. W. Smith	N. W. Smith	S. L. Golan J. E. R. Ross
N. W. Smith	N. W. Smith	N. W. Smith
		A. F. Lambert
		S. L. Golan A. F. Lambert
	N. W. Smith	S. L. Golan A. F. Lambert



West Quoddy Head Lighthouse, 1961.



Most easterly point in continental United States,  
West Quoddy Head in 1955.



## DESCRIPTIONS OF TRIANGULATION STATIONS AND BOUNDARY REFERENCE MONUMENTS

The boundary reference monuments along this section of the boundary are, unless otherwise specified, manganese bronze posts and the part projecting above the rock or concrete base is 2 inches square and 8 inches high, leveled on top. In raised letters on the three sides are the words "Ref. Mark", "Int. Bdry." and "Canada" or "U. S." as the case may be. On the fourth side is stamped the number of the reference monument.

Through Passamaquoddy Bay the boundary range marks are truncated concrete pyramids on a triangular base 6 feet to the side which extends 1 foot above ground. The pyramids are 6 feet high above the base and end in a flat top whose area is about 1 square foot. The front exactly faces the turning point which it ranges and bears a plate giving the country, the number and the point ranged.

The following descriptions are by the International Boundary Commission in 1946 and 1955 and by the United States Coast and Geodetic Survey.

### MONUMENT BROOK

**POLE HILL (U.S.C. & G.S.)** (Maine, Aroostook County; C.H. Boyd, 1889; J.L.R., 1916; N.W.S., 1946)--In Amity Township, on the low knob known as Pole Hill. It is about 100 meters W of the International Boundary, and about 0.8 mile N of INITIAL MONUMENT at the source of the St. Croix River. The station is on the highest part of the open hill, on a gray sandstone boulder, the visible part of which is 6 by 3 feet, and 2 feet above the ground. It is near the S end of the hilltop and about 60 feet W of the N-S fence along the top of the hill.

Station mark is a bronze disk lettered "U.S. & C.B. Survey" set in a hole drilled in the boulder and surrounded by a triangle cut in the rock.

**TRANSIT (U.S.C. & G.S.)** (New Brunswick, Carlton County; C.H. Boyd, 1889; 1913)--Very near the boundary line at a point 1,400 meters N of INITIAL MONUMENT and about 5 meters S from Boundary Monument No. 1-B. It is on the E flank of Pole Hill, NE from POLE HILL station, and on the highest ground along the boundary between monuments 1 and 2, and the only point along the line from which monuments 1 and 2 can both be seen.

Station mark is a drill hole in a boulder 2.4 feet by 2 feet and 1.5 feet high.



KENNEDY (U.S.C. & G.S.) (New Brunswick, York County; C.H. Boyd, 1889; J.L.R., 1916; P.L.B., 1941; N.W.S., 1946)--In North Lake Parish, on the summit of an open hill about 3 miles E of INITIAL MONUMENT at the head of the St. Croix River and 14 miles SSE of Houlton, Me., on property of D. H. Kennedy. To reach the station by the best road available, go E 6.9 miles from Houlton, Me., on Highway 2, crossing the boundary, to Richmond Corners, N.B.; turn S and continue on this road 15.5 miles to the green shingled residence of D. H. Kennedy, with glass-enclosed porch; turn right on a farm road 0.3 mile, past a barn and to top of the hill; turn right across a field. Station is about 200 feet NW of the wire fence soon encountered.

Station mark is a standard C. & G.S. disk set in a drill hole in a boulder about 2 feet by 3 feet, projecting about 8 inches above ground at its highest point, about 100 feet S of a grove of spruce trees and the E and W rail fence; unstamped.

Reference mark 1 is a standard C. & G.S. reference disk set in outcropping bedrock SE of station, about 2 feet lower in elevation; stamped "KENNEDY NO 1 1941".

Reference mark 2 is a standard C. & G.S. reference disk set in a boulder SW of the station, about 1 foot lower in elevation; stamped "KENNEDY NO 2 1941".

Object	Distance	Direction
GREEN MOUNTAIN (U.S.C. & G.S.)	feet	0° 00' 00" 0
R. M. 2	43.898	50 43 07
R. M. 1	26.942	308 14 07

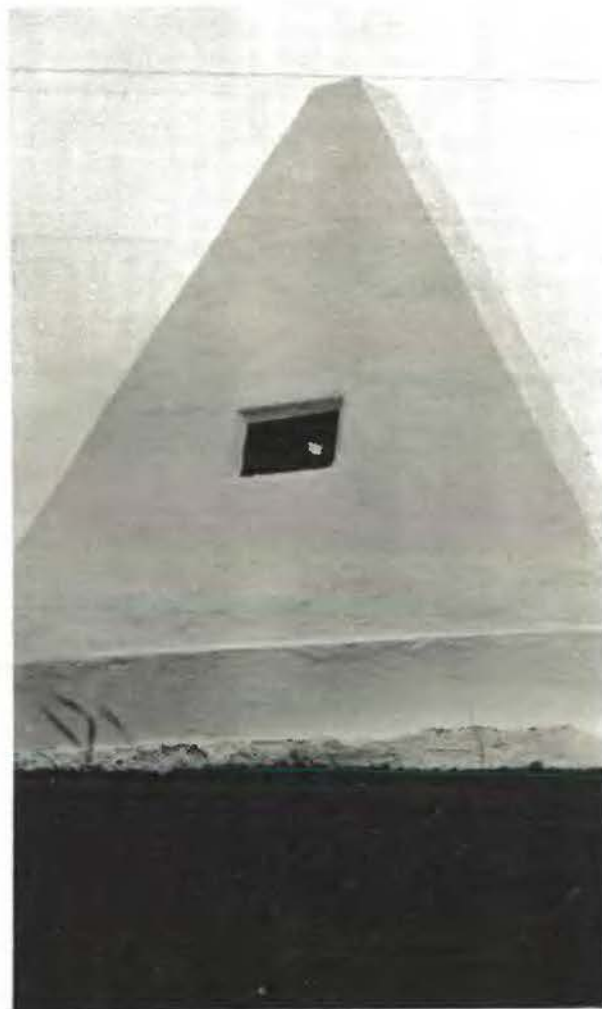
MONUMENT 1 (INITIAL MONUMENT) (Maine, Aroostook County; New Brunswick, York County; C.H. Boyd, 1889; J.L.R., 1916; N.W.S., 1946) This is International Boundary Monument No. 1, also known as INITIAL MONUMENT, at the head of the St. Croix River and the S end of the North Line. Monument comprises a 5-foot square concrete base, 5 feet high surmounted by a cast iron shaft 12-inches square at base, 6-inches square at the top and 5.4 feet high. In 1946 shaft leaned 0.24 foot W and 0.40 foot S.

Station mark is the center of the iron shaft where it joins the concrete base.

REFERENCE MONUMENT 2 (Maine, Aroostook County; J.E. McGrath, 1913; 1921; J.H., 1939)--Three-fourths of a mile downstream from INITIAL MONUMENT, 2 meters S. of the Monument Brook, at the first big bend from a S to an E course.

Station mark is a boundary reference post set in a concrete base.





Range 7, Passamaquoddy Bay, before and after repairing and painting two coats, 1961.

FURZE WINDMILL (U.S.C. & G.S.) (Maine, Aroostook County; C.H. Boyd, 1889)--In the E part of the town of Hodgden, on the S side of the road leading from Hodgden Corner to the Union Corner (on the boundary line) at the White settlement and  $\frac{3}{4}$  mile W from the "Line". The axis of the windmill was observed on. The windmill is built upon the shed connecting the house and barn of Thomas Furze. It is high enough to show over the other buildings nearby.

TRAVERSE STATION 2 (New Brunswick, York County; A.J. Brabazon, 1912; 1921; J.H., 1939)--On the Canadian shore in the bend of Monument Brook, where it first turns toward the E below INITIAL MONUMENT. The station is about 24 meters E of the brook where it runs S and 23 meters N of the brook where it runs E.

Station mark was a copper disk set in a drill hole in a rock about 10 by 14 inches in cross section and projecting about 8 inches above the ground; shank only remained in 1939. Three trees are blazed facing the station: A 20-inch birch, 3.2 meters distant; a 10-inch maple, 2.1 meters distant; and a 10-inch birch, 1.3 meters distant.

TRAVERSE STATION 5 (Maine, Aroostook County; A.J. Brabazon, 1912; 1921; J.H., 1939)--On the outside of the elbow of Monument Brook, at its second decided turn from the S to the E below INITIAL MONUMENT. The station is about 5 feet from the brook.

Station mark is a copper disk set in a drill hole in the top of a rock about 20 by 30 inches by 36 inches set in the ground so that its exposed surface is about 12 by 18 inches and the top slightly lower than the surface of the ground. Three trees are blazed facing the station: An 18-inch spruce, 4.1 meters distant; a 6-inch spruce, 4.3 meters distant; and a 10-inch spruce, 5.6 meters distant.

TRAVERSE STATION 6 (New Brunswick, York County; A.J. Brabazon, 1912; N.W.S., 1921)--On the Canadian side of Monument Brook where the brook turns from a SE to a S course, about  $1\frac{1}{2}$  miles below INITIAL MONUMENT. The station is 1.8 meters from the brook.

Station mark is a copper disk set in a drill hole in a large rock projecting slightly above ground. Two trees are blazed facing the station: A 20-inch birch, 8.5 meters SE of station, and an 18-inch cedar, 3.7 meters NE of station.

REFERENCE MONUMENT 3 (Maine, Aroostook County; A.J. Brabazon, 1912; 1921; J.H., 1939)--On Monument Brook, about  $1\frac{1}{2}$  miles below INITIAL MONUMENT, and 5.2 meters S of the brook, at



the third big bend of the brook from a S to an E course.

Station mark is a standard 8-inch manganese-bronze reference post set in a concrete base. Four trees are blazed facing the monument. A 12-inch ash, 8.63 meters distant; a 14-inch cedar, 3.41 meters distant; an 18-inch cedar, 3.32 meters distant; and a 12-inch ash, 3.23 meters distant.

SPRING HILL (U.S.C. & G.S.) (Maine, Aroostook County; C.H. Boyd, 1889; J.L.R., 1916)--Station lost. All rocks removed and the field covered with potatoes in 1946.

SPRING HILL 2 (U.S.C. & G.S.) (Maine, Aroostook County; P.L. Bernstein, 1941; N.W.S., 1946)--Located on the summit of what is locally known as Spring Hill. It is at the SE corner of a rectangular plot of ground which is uncultivated and has numerous small piles of rocks. It is about 75 yards E of the edge of the woods, 100 yards NE of a large circular pile of rocks in a cultivated field, about  $\frac{1}{2}$  mile W of U.S. Highway 1, and on the N edge of a track road leading from the highway to the woods, on the property of G. H. Benn of Houlton, Me. It is by air line about 14 miles S of Houlton and 6 miles N of Orient.

Station is reached from the intersection of U.S. Highways 1 and 2 in Houlton by going S on U.S. Highway 1 for 16.0 miles (about 3 miles S of Amity) to a small unoccupied house and barn on the W side of the road on the top of a hill and at the S edge of woods. About 500 yards S of this point there are houses and barns on both the E and W sides of the road opposite each other. Turn W on a farm lane (azimuth mark here) and go between house and barn and continue W across cleared field for  $\frac{1}{2}$  mile to station.

Surface mark is a C. & G.S. bronze disk, set in concrete and stamped "SPRING HILL 2, 1941".

Reference mark 1 is a bronze disk wedged in a drill hole in a boulder in the cultivated field to the SW of the station, about on range with the station and the E edge of the circular pile of rocks. It is stamped "SPRING HILL 2 1941".

Reference mark 2 is in the weeds in the uncultivated plot of ground NW of the station. It is stamped "SPRING HILL 2 1941".

Azimuth mark is on the S side of a farm lane leading to the station, 27 feet W of the center of U.S. Highway 1, 5 feet W of telephone line, 35 feet S of telephone pole No. 623, and about  $\frac{1}{2}$  mile E of the station. It is stamped "SPRING HILL 2 1941".



Campobello survey station and two Ranges Campobello Island with Eastport in the background, 1946.



Object	Distance		Direction		
	meters	feet	0°	00'	00"0
KENNEDY					
Azimuth Mark			24	16	40.0
R.M. 1	55.629	182.51	118	44	57
R.M. 2	19.351	63.49	206	02	23

Height of telescope above station mark - 64 feet.

In 1946 the owner said he expected to clear this strip of land, but would preserve the station.

MITCHELL MOUNTAIN (U.S.C. & G.S.) (Maine, Aroostook County; P.L. Bernstein, 1941; N.W.S., 1946)--Located about 2 miles N of Haneyville, about 19 miles SSW of Houlton, near the State Forest Service fire lookout tower on Mitchell Mountain

To reach station from the bridge in Haneyville, go N on U.S. Highway 2A for 1.8 miles to a T-road leading right (E), turn right on T-road and go 1.4 miles, turn left on farm road and follow telephone line for 0.3 mile to lookout tower and station.

Station mark is a bronze disk set in a square block of concrete projecting about 2 inches above the ground, about 24 meters E of the center of the fire lookout tower; stamped "MITCHELL MOUNTAIN 1941". Underground mark is a bronze disk in a block of concrete.

Reference mark 1 is a bronze disk set in a square block of concrete, projecting about 3 inches above the ground, SSE of station, stamped "MITCHELL MOUNTAIN NO 1 1941".

Reference mark 2 is a bronze disk set in a drill hole flush with the ground, about 15 feet N of center of fire lookout tower, between tower and wooden shed; stamped "MITCHELL MOUNTAIN NO 2 1941".

Azimuth mark is a bronze disk set in a drill hole in a boulder which projects  $1\frac{1}{2}$  feet above ground, 0.3 mile S of station; stamped "MITCHELL MOUNTAIN 1941". It is about 300 feet S from where the telephone line makes a sharp turn left from farm road to lookout tower; 10 feet E of center of lane leading to azimuth mark.

Object	Distance		Direction		
	meters	feet	0°	00'	00"0
MAY MOUNTAIN					
Azimuth Mark S	0.3 mile		227	16	48.5
R.M. 1 S	21.056	69.082	229	02	56
Mitchell Mountain					
Fire L.O		24.0	334	16	41
R.M. 2 W	22.687	74.430	348	17	57

Height of instrument above station mark - 11.2 meters.

WILLIAMS (U.S.C. & G.S.) (Maine, Aroostook County; J. Hergeshiemer, 1891)--In the town of Amity, on the shed back of or on the E side of the main barn of Daniel Williams. The station is marked by four galvanized tacks.



CROMWELL (U.S.C.&G.S.) (Maine, Aroostook County; J. Hergeshiemer, 1890)--In the settlement of Amity about a mile S of Spring Hill and on the bank on the W side of the Houlton Road, in front of the house of Mr. Cromwell. The station is close to a maple tree and is marked by a hole drilled in the rock, projecting about 8 inches above the ground.

ORIENT CHURCH (U.S.C.&G.S.) (Maine, Aroostook County; J. Hergeshiemer, 1890)--On the N side of the main road, a short distance below or E from William McAllister's. The station is the apex of the cupola of the Methodist Church.

TRAVERSE STATION 8 (Maine, Aroostook County; A. J. Brabazon, 1912; 1921; J. H., 1939)--In a bend of Monument Brook, about 1-7/8 miles below INITIAL MONUMENT, and about 9 meters S of the brook.

Station mark is a copper disk set in a drill hole in a boulder, whose dimensions are about 0.6 by 0.7 by 1.2 meters, with the top slightly above ground level. Three trees are blazed facing the station: A 12-9inch ash, 1.8 meters distant; a 14-inch cedar, 3.4 meters distant; and a 14-inch cedar, 3.7 meters distant.

TRAVERSE STATION 10 (Maine, Aroostook County; A. J. Brabazon, 1912; N. W. S., 1921)--On the W bank of Monument Brook, about 2-1/4 miles below INITIAL MONUMENT. The station is about 3 meters SW of the bank of the brook.

Station mark is a copper disk set in a drill hole in a rock, whose dimensions are 20 by 30 by 36 inches, set in the ground with its top projecting about 6 inches above the surface. Three trees are blazed facing the station: A 1-foot double birch, 5.8 meters distant; a 1-foot spruce, 7.6 meters distant; and a 14-inch cedar, 11.6 meters distant.

TRAVERSE STATION 11 (Maine, Aroostook County; A. J. Brabazon, 1912; N. W. S., 1921)--On the E side of Monument Brook, about 2-1/2 miles below INITIAL MONUMENT. The station is about 23 meters SE of the mouth of a small stream flowing into the brook from the N.E.

Station mark is a copper disk set in a drill hole in a boulder, whose dimensions are 2 by 3 by 3 feet, sunk in the ground with its top projecting about 3 inches above the surface. Four trees are blazed facing the station: A 1-foot spruce, 11.0 meters distant; a 14-inch cedar, 9.4 meters distant; a 10-inch birch, 5.3 meters distant; and a 7-inch spruce, 2.9 meters distant.

REFERENCE MONUMENT 4 (New Brunswick, York County; J. E. McGrath, 1913; N. W. S., 1921)--On the E bank of Monument Brook, about 3 miles below INITIAL MONUMENT, and about 1/8 mile below the





Holey Rocks on St. Croix River below St. Stephens,  
New Brunswick, in 1946.

most easterly bend of the brook between INITIAL MONUMENT and the mouth of Glendenning Brook.

Station mark is a standard 8-inch manganese-bronze reference post set in a concrete base. REFERENCE MONUMENT 5 is nearly due S and just across the brook on the United States side, 29.70 meters distant.

Not recovered in 1939, due to backwater from beaver dams.

REFERENCE MONUMENT 5 (Maine, Aroostook County; J.E. McGrath 1913; N.W.S., 1921)--This monument is S 0°34'W, 29.70 meters from REFERENCE MONUMENT 4.

Station mark is a standard 8-inch manganese-bronze reference post set in a concrete base.

Not recovered in 1939, due to backwater from beaver dams.

MITCHELL MOUNTAIN FIRE TOWER (U.S.C. & G.S.) (Maine, Aroostook County; P.L. Bernstein, 1941; N.W.S., 1946)--This intersection station is located about 2 miles N of Haneyville, about 19 miles SSW of Houlton, on the mountain known locally as Mitchell Mountain. It is a wooden structure about 20 feet high used as a lookout tower for the State Forest Service. Center of the tower is the point located.

TRAVERSE STATION 14 (Maine, Aroostook County; A.J. Brabazon, 1912; N.W.S., 1921)--On Monument Brook, about 9 meters W of the bank of the stream. The station is about 1 mile upstream from the mouth of Glendenning Brook and 518 meters E of Bartlet, or Glendenning Landing.

Station mark is a copper disk set in a drill hole in a rock whose exposed surface is 1 by 3 feet and which projects about 4 inches above the surface of the ground. Three trees are blazed facing the station: A 10-inch ash, 5.2 meters distant; an 8-inch ash, 15.8 meters distant; and an 8-inch spruce, 6.5 meters distant.

REFERENCE MONUMENT 6 (Maine, Aroostook County; J.E. McGrath, 1913; 1921; J.H., 1939)--On Monument Brook, about  $\frac{3}{4}$  mile above the mouth of Glendenning Brook. The station is S 40° E, 26.46 meters distant, from TRAVERSE STATION 16 at Glendenning Landing, 7.3 meters from the stream, and on the W side of the road.

Station mark is a standard 8-inch manganese-bronze reference post set in a concrete base.

Nearly covered by backwater from beaver dams in 1939.

REFERENCE MONUMENT 7 (New Brunswick, York County; J.E. McGrath, 1913; 1921; J.H., 1939)--On Monument Brook, across the brook and S 40° E, 29.78 meters, from REFERENCE MONUMENT 6.

Station mark is a standard 8-inch manganese-bronze reference post set in a concrete base.

Covered by backwater from beaver dams in 1939.



TRAVERSE STATION 16 (Maine, Aroostook County; A.J. Brabazon, 1912; 1921; J.H., 1939)--On Monument Brook, about 3/4 mile above the mouth of Glendenning Brook. The station is 33.5 meters from the brook and 14.6 meters W of the road at Bartlet, or Glendenning Landing.

Station mark is a copper disk set in a drill hole in a rock, whose exposed surface is 12 by 14 inches, set with its top nearly level with the ground. Three trees are blazed facing the station: A 10-inch cedar, 6.5 meters distant; an 8-inch ash, 4.6 meters distant; and an 18-inch spruce, 4.0 meters distant.

TRAVERSE STATION 17 (New Brunswick, York County; A.J. Brabazon, 1912; N.W.S., 1921)--On Monument Brook, about 1/3 mile below Bartlet Landing, and nearly the same distance above the mouth of Glendenning Brook. The station is about 14 meters S of the shore of Monument Brook. A meadow extends along the brook for some distance upstream on the opposite side.

Station mark is a copper disk set in a drill hole in a rock, whose exposed surface is about 1 by 2 feet, set with its top projecting about 4 inches above the ground. Two trees are blazed facint the station: An 8-inch dead tree, 3.7 meters distant and an 8-9nch spruce, 9.5 meters distant.

TRAVERSE STATION 18-F (New Brunswick, York County; N.W. Smith 1921)--On Monument Brook, about 122 meters below the mouth of Glendenning Brook, on the Canadian shore.

Station mark is a bronze disk set in a drill hole in the top of a boulder 8 feet in diameter and 3 feet high.

TRAVERSE STATION 18 (Maine, Aroostook County; A.J. Brabazon, 1912; N.W.S., 1921)--On Monument Brook, about 1/4 mile below the mouth of Glendenning Brook, and about 1/3 mile below the upper dam. The station is just on the upper edge of a bight in the brook where it broadens below swift water.

Station mark is a copper disk set in a drill hole in a rock whose surface dimensions are about 1.8 by 2.4 meters. A rock 0.6 by 1.2 meters, projecting 0.5 meter out of water, is abreast of the station, in the stream 3.7 meters distant. Three trees are blazed facing the station: A 14-inch birch, 11.3 meters distant; an 8-inch ash, 10.7 meters distant; and an 8-inch ash, 7.0 meters distant.

TRAVERSE STATION 19-B (Maine, Aroostook County; N.W. Smith, 1921)--On Monument Brook, about 1/2 mile below the mouth of Glendenning Brook. The station is on the largest flat rock

in the center of the stream, about 9 meters upstream from a sharp point on the Canadian side, and is at the head of a long stretch of dead water.

Station mark is a bronze disk set in a drill hole in the top of the rock about 12 inches above the bed of the stream.

REFERENCE MONUMENT 8 (Maine, Aroostook County; A. J. Brabazon, 1913; 1921; J. H., 1939)--On Monument Brook, about  $\frac{1}{4}$  mile NE of Poplar Mountain. Poplar Mountain is the first prominent hill near Monument Brook below its source at INITIAL MONUMENT, and though only 80 feet high above the brook it appears prominent in a rather flat country. The station is about 1.5 meters E from the edge of the stream.

Station mark is a standard 8-inch manganese-bronze reference post set in a concrete base.

In 1939 this monument had heaved and was lowered into the ground.

REFERENCE MONUMENT 9 (New Brunswick, York County; J. E. McGrath, 1913; 1921; J. H., 1939)--In Monument Brook, 9.8 meters from the stream, and just opposite REFERENCE MONUMENT 8.

Station mark is a standard 8-inch manganese-bronze reference post set in a concrete base.

POPLAR MOUNTAIN (New Brunswick, York County; J. E. McGrath, 1912; 1917; N. W. S., 1946; 1955)--On the highest point of a low wooded hill about 105 meters from Monument Brook and about midway between its source and its mouth. The station is 15 feet SE from a large balsam fir tree in which the station flag was placed in 1946. Cleats were nailed to the tree and the boughs on S side removed, a few feet of top removed, and the flag on end of a 24-foot pole hoisted and nailed and wired to top of tree.

The station was remarked with a standard I.B.C. disk wedged in the drill hole in the rock, whose surface dimensions are 12 by 20 inches, set flush with the ground. A 2-foot cairn was built over the station. Top of fallen tree over cairn in 1955.

AVERNUS TABLET (New Brunswick, York County; J. E. McGrath, 1912; 1921; 1939; 1955)--On Monument Brook, just W of the long straight E-W course of the brook along the base of Poplar Mountain. The station is on a rock, back in the woods, 6.7 meters S of the stream.

Station mark is a bronze disk set in a drill hole in the top of a rock and surrounded by a triangle cut in the rock. The rock is approximately 1.3 by 0.4 meters in cross section and 0.7 meter high.



**ACHERON TABLET** (New Brunswick, York County; J.E. McGrath, 1912; 1921; 1939; N.W.S., 1955)--At the head of 100 feet of rocky rips, at the head of a small island at lower end of the long pool of dead water below Poplar Mountain. The station is on a black rock 4 feet by 2.5 feet, rising 1 foot above the water. Bushes are now growing on the S side of the rock.

Station mark is a bronze disk set in a drill hole in the rock and surrounded by a triangle cut in the rock.

**DAM TABLET** (New Brunswick, York County; J.E. McGrath, 1912; 1921; 1946; 1955)--On Monument Brook, about 46 meters below the lower, or Eaton, dam, and about  $3/8$  mile below Poplar Mountain. The station is at the edge of the water, on a block of gneiss, 2.0 meters long, 1.1 meters wide, parallel to the water, and 0.5 meter high.

Station mark is a bronze disk set in a drill hole in the rock and surrounded by a triangle cut in the rock.

**CHUB TABLET** (New Brunswick, York County; J.E. McGrath, 1912; 1921; 1946; 1955)--On Monument Brook, about 300 meters below the lower, or Eaton, dam, and about 2 miles above the mouth of Greenleaf Brook. The station is in the woods, back about 30 meters from the stream.

Station mark is a bronze disk set in a drill hole in a grayish-blue stone whose exposed dimensions are 1.0 by 0.8 by 0.26 meter high. The disk is surrounded by a triangle cut in the rock.

**SUCKER TABLET** (New Brunswick, York County; J.E. McGrath, 1912; N.W.S., 1921; 1946; 1955)--On Monument Brook, about  $3/8$  mile below the lower, or Eaton, dam, and a little less than 2 miles above the mouth of Greenleaf Brook. The station is on the edge of the bank of the brook, about 30 meters below a small but decided oxbow bend of the brook.

Station mark is a bronze disk set in a drill hole in a rock 2.5 by 1.7 meters in a cross section and 0.75 meter high. The disk is surrounded by a triangle cut in the rock.

Station is on lower part of rock and half the disk is gone.

**PICKEREL TABLET** (Maine, Aroostook County; J.E. McGrath, 1912; 1921; 1946)--On Monument Brook, about  $1\frac{3}{4}$  miles above the mouth of Greenleaf Brook. The station is on a rock whose exposed cross section is about 0.8 by 1 meter and 0.15 meter above the surface of the ground. It is about 20 meters W of the brook.

Station mark is a bronze disk set in a drill hole surrounded by a triangle cut in the rock.



REFERENCE MONUMENT 10 (New Brunswick, York County; H.C.O. Clarke, 1917; 1921; 1946; 1955)--On Monument Brook,  $1\frac{3}{4}$  miles above the mouth of Greenleaf Brook, and 20 feet back from the bank of the brook. REFERENCE MONUMENT 11 is directly across the stream.

Station mark is a boundary reference post set in a concrete base nearly flush with the ground.

REFERENCE MONUMENT 11 (Maine, Aroostook County; H.C.O. Clarke, 1917; 1921; 1946; 1955)--On Monument Brook, about  $1\frac{3}{4}$  miles above the mouth of Greenleaf Brook, 1.5 meters from the edge of the water, on a rock that measures 2.3 by 1.7 by 0.9 meters. PERCH TABLET is set in the same rock, 0.8 meter E of the monument.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the highest point of the rock.

PERCH TABLET (Maine, Aroostook County; J.E. McGrath, 1912; 1921; 1946; 1955)--On Monument Brook, about  $1\frac{3}{4}$  miles above the mouth of Greenleaf Brook. This station is on the same rock as REFERENCE MONUMENT 11 and is 0.8 meter to the E of that station. The rock is 1.5 meters from the edge of the water and measures 2.3 by 1.7 by 0.9 meters.

Station mark is a bronze disk set in a drill hole in the rock. A triangle is cut in the rock near it. Tablet is countersunk.

TROUT TABLET (New Brunswick, York County; J.E. McGrath, 1912; 1921; 1946; 1955)--On Monument Brook,  $1-5/8$  miles above the mouth of Greenleaf Brook, on a sharp right-angle bend of the brook, the vertex of the angle pointing S. The station is at the edge of the water in the stream, on a rock 0.8 by 0.6 meter and 0.6 meter above the water level.

Station mark is a bronze disk set in a drill hole surrounded by a triangle cut in the rock.

CAMP COLLIER MARK (Maine, Aroostook County; J.E. McGrath, 1912; 1921; 1946; 1955)--On Monument Brook, about 1.6 miles above the mouth of Greenleaf Brook, 60 meters below a sharp-angle turn, the vertex of the angle pointing N. It is in the middle of the stream. The station is on a rock about 0.4 by 0.9 meter, nearly level with the water.

Station mark is a drill hole surrounded by a triangle cut in the rock. A bronze disk now wedged in the drill hole.

TWIST TABLET (Maine, Aroostook County; J.E. McGrath, 1912; 1921; 1946; 1955)--On a rock in the water, about 10 feet from the United States shore of Monument Brook; about  $1\frac{1}{2}$  miles above the mouth of Greenleaf Brook. The rock is about 3 by  $2\frac{1}{2}$



feet in cross section, with the top about 6 inches above high water, and is dark in colour.

Station mark is a bronze disk set in a drill hole surrounded by a triangle cut in the rock.

CURVE TABLET (TURNING POINT 469) (Maine, Aroostook County; New Brunswick, York County; J.E. McGrath, 1912; 1921; 1946; 1955)--On the boundary line in the middle of Monument Brook, about  $1\frac{1}{2}$  miles above the mouth of Greenleaf Brook. It is on a dark-colored rock about 3 by 4 feet in cross section and the top is nearly a foot under high water. The rock is not quite perpendicular and may have tipped slightly.

Station mark is a bronze disk set in a drill hole surrounded by a triangle cut in the rock.

HORNET 2 TABLET (New Brunswick, York County; J.E. McGrath, 1912; 1921; 1946; 1955)--About 1.4 miles above the mouth of Greenleaf Brook, in a right-angle bend of Monument Brook, when its course changes from SW to SE. Station is 46 meters due E from the point in the angle of the bend, 18 meters S of the brook at its nearest point, about the center of the point, and on the line where the alders on the point meet the larger timber on the higher ground inshore. At this point there is a noticeable bay just below the station, and a sharp indentation in the United States shore with a small stream flowing in from the NW.

Station mark is a bronze disk set in a drill hole in a gray-blue rock 4 feet across and 1 foot high, with a triangle cut in its top. The rock is only partly visible, as it is in a depression in the ground, with a tree growing over part of it. In 1955, tree had fallen and brush was over the tablet.

SPRING TABLET (New Brunswick, York County; J.E. McGrath, 1912; 1921; N.W.S., 1946)--The rock containing the bronze disk has slipped down the bank and is now flat on the bottom of the brook. Lost.

ROAD (Maine, Aroostook County; J.E. McGrath, 1912; 1921; 1946; 1955)--On Monument Brook, about 1.3 miles above the mouth of Greenleaf Brook, at the river end of a wood road that extends to the town of Amity. The station is on the N bank, 1.6 meters from the water's edge.

Station mark is a bronze disk set in the top of a granite post which is 8 inches square and  $2\frac{1}{2}$  feet long and is set in a concrete foundation. Post projected about 8 inches above ground in 1946.

LEY (New Brunswick, York County; J.E. McGrath, 1912; 1921; 1946; 1955)--On Monument Brook, about  $1\frac{1}{4}$  miles above the mouth of



Greenleaf Brook, and about 3.5 meters S from the water line of the stream.

The subsurface mark is a half-pint bottle filled with sand placed 3 feet below the surface of the ground. The surface mark is a bronze disk set in the top of a granite post 8 inches square and  $2\frac{1}{2}$  feet long set and centered over the subsurface mark and nearly flush with the ground. The letters "U.S.R.M." are carved, one letter on each of the four faces of the post.

Granite post 2 inches above ground in a group of large spruce trees, 4 feet above high water, in 1946.

DAN (New Brunswick, York County; J.E. McGrath, 1912; 1921; 1946; 1955)--On Monument Brook, a little more than a mile above the mouth of Greenleaf Brook, abreast of a little cove on the Canadian shore. The station is about 4 meters back from the water's edge.

The subsurface mark is a pint bottle filled with sand placed  $2\frac{1}{2}$  feet below the surface of the ground. The surface mark is a bronze disk set in the top of a granite post 8 inches square and  $2\frac{1}{2}$  feet long, centered over the subsurface mark. On the vertical faces of the post are cut the letters "U.S.C.B.", one letter on each face.

Station 2 feet above high water, in an open spot among cedar and birch trees in 1946. Top of post 8 inches above ground.

REFERENCE MONUMENT 12 (Maine, Aroostook County; J.E. McGrath, 1912; 1921; 1946; 1955)--About 1 mile above the mouth of Greenleaf Brook, about 10 feet west of the tree line and the high water in Monument Brook, near the SE corner of the site where an old log building had stood. It is about one foot above high water and in a poplar grove with a few cedar trees on the S.

Station mark is a boundary reference post set in a concrete base.

REFERENCE MONUMENT 13 (New Brunswick, York County; J.E. McGrath, 1912; 1921; 1946; 1955)--On Monument Brook about 1 mile above the mouth of Greenleaf Brook. The station is on the opposite shore from REFERENCE MONUMENT 12 and 6.4 meters back from the shoreline.

Station mark is a standard 8-inch manganese-bronze reference post set in a concrete base. In 1921 the post was broken off and only the shank of the post was left in place to mark the station.

Monument is 2 feet above high water in open woods in 1946.



JOE (New Brunswick, York County; J.E. McGrath, 1912; 1921; 1946; 1955)--On Monument Brook, about 0.9 mile above the mouth of Greenleaf Brook, and about 15 meters E of the brook. The station is on the bend of the brook about 76 meters above a large slough or backwater coming in from the United States side.

The subsurface mark is a pint bottle filled with sand set  $2\frac{1}{2}$  feet below the surface of the ground. Surface mark is a bronze disk set and centered over the subsurface mark in a granite post 8 inches square and  $2\frac{1}{2}$  feet long. On the vertical faces of the post are cut the letters "U.S.C.B." one letter on each face.

In 1946 station was in thick brush about 25 feet from high water. A 15-inch dead birch is on the bank of the brook directly out from the station. In 1955 top of post 8 inches above ground.

TOM (New Brunswick, York County; J.E. McGrath, 1912; 1921; 1946; 1955)--On Monument Brook, about  $\frac{4}{5}$  mile above the mouth of Greenleaf Brook. The station is about 23 meters E of the brook, just below a slough or backwater coming in from the United States side.

The subsurface mark is a 2-ounce Sal Hepatica bottle filled with sand and set  $2\frac{1}{2}$  feet below the surface of the ground. The surface mark is a bronze disk set and centered over the subsurface mark in a granite post 8 inches square and  $2\frac{1}{2}$  feet long. On the vertical faces of the post are cut the letters "U.S.C.B.", one letter on each face.

In 1946, a deep bay extended into the Canadian shore near the station, which, at high water, is only 15 feet from the head of this bay and directly E of the grassy point at the N side of the entrance to the bay. Post is slightly tipped. Top of post a foot above ground in 1955.

PHIL (Maine, Aroostook County; J.E. McGrath, 1912; 1921; 1946; 1955)--On Monument Brook, at the edge of the stream,  $\frac{3}{4}$  mile above the mouth of Greenleaf Brook.

The subsurface mark is a pint bottle filled with sand set  $2\frac{3}{4}$  feet below the level of the ground. The surface mark is a bronze disk set and centered over the subsurface mark in a granite post 8 inches square and  $2\frac{1}{2}$  feet long. On the vertical faces of the post are cut the letters "U.S.C.B.", one letter on each face of the post.

In 1946, station was 4 feet from the high water at back of a small bay. Top of post 4 inches above ground in 1955.

PETE (New Brunswick, York County; J.E. McGrath, 1912; 1921; 1946; 1955)--About 7 feet from the high water of Monument Brook, about  $\frac{3}{5}$  mile above the mouth of Greenleaf Brook, and at



the first bend above Drybush Cove. It is 7 feet N of the logging road to the river at this point.

Station mark is a bronze disk set in the top of a granite post 8 inches square and  $2\frac{1}{2}$  feet long. The letters "U.S.C.B." are cut in the vertical faces of the post, one letter in each face. The post is set in a concrete base which rests on rock  $2\frac{1}{2}$  feet below the surface of the ground. Top of post 6 inches above ground in 1955.

DRYBUSH TABLET (Maine, Aroostook County; J.E. McGrath, 1912; 1921; 1946; 1955)--On the higher and more northerly of two brown rocks, 12 feet outside the shoreline of Monument Brook at high water, about 100 feet below the mouth of a small brook, and  $\frac{2}{5}$  mile above the mouth of Greenleaf Brook.

Station mark is a bronze disk set in a drill hole surrounded by a triangle cut in the top of the pyramid-shaped rock whose top is 20 inches above high water.

LEAF (Maine, Aroostook County; J.E. McGrath, 1912; 1921; 1946; 1955)--About 53 meters W of Monument Brook at medium water level, 200 meters above the mouth of Greenleaf Brook, on a tiny knoll in the midst of the swamp. In 1946 when brook was high, the water came to the edge of the bushes on the point about 35 feet from the station, which is at the NW edge of a grove of cedar trees about 30 feet high on the highest part of the knoll.

The subsurface mark is a pint bottle filled with sand set about  $2\frac{1}{2}$  feet below the surface of the ground. The surface mark is a bronze disk set and centered over the subsurface mark in a granite post 8 inches square and  $2\frac{1}{2}$  feet long. The letters "U.S.C.B." are cut in the vertical faces of the post, one letter in each face.

The post was leaning in 1946 and restored to place. Post heaved some in 1955 and concrete added in 1946 broken off.

REFERENCE MONUMENT 14 (Maine, Aroostook County; J.E. McGrath, 1912; 1921; 1946; 1955)--About 70 feet inside the timber line, which is on the high-water line of Monument Brook, opposite the head of the deep bay 300 feet below Greenleaf Brook, where the brook bends to the E. The station is on a triangular block of gneiss whose sides are 8 by 8 by 5 feet and whose height is about  $1\frac{1}{2}$  feet. The rock was covered by leaves, moss, and a growth of small cedars in 1946. These were removed. It is about 50 feet W of an old boat landing, and 150 feet upstream from a newer landing with an old road leading inland.

The station mark is the boundary reference post set in a drill hole surrounded by a triangle cut in the rock.



REFERENCE MONUMENT 15 (New Brunswick, York County; J.E. McGrath, 1912; 1921; 1946; 1955)--On the opposite shore of Monument Brook from REFERENCE MONUMENT 14, just below and across from the mouth of Greenleaf Brook, 100 feet back from the bed of Monument Brook, 40 feet inside the tall timber and surrounded by thick brush. There is a clump of large cedar 20 feet S and a 10-inch balsam and a 12-inch birch in a line W of station, 10 feet and 15 feet distant, respectively. The monument is nearer the stream below than above Greenleaf Brook and on line with first reach of this brook.

Station mark is a boundary reference post set in a concrete base.

ROCKMAPLE TABLET (Maine, Aroostook County; J.E. McGrath, 1912; 1946; 1955)--On a dry knoll 68 meters S of Monument Brook, 1/8 mile below the mouth of Greenleaf Brook. It is in dense underbrush in the midst of a group of huge dead birch trees with fir trees growing up around them. It is directly inshore from the old boat landing at the head of the bay 300 feet below Greenleaf Brook.

Station mark is a bronze disk set in a drill hole surrounded by a triangle cut in a granite rock about 6 by 7 feet by 4 feet high.

HARDWOOD TABLET (Maine, Aroostook County; J.E. McGrath, 1912; 1921; 1946; 1955)--On a big bend of Monument Brook, about 1/2 mile down the brook from the mouth of Greenleaf Brook. Station is about 15 meters from the stream on the E edge on point of a hardwood knoll of some prominence, known as Hardwood Point.

The station rock is about 6 by 7 feet and flush with the ground on the W edge of the old logging road running parallel with the river, 45 feet N of the N end of the old log landing, 25 feet inside the edge of the timber which is on the high bank along brook, and about in line with the S shore of the brook above the station where it flows W.

Station mark is a bronze disk set in a drill hole surrounded by a triangle cut in the rock.

MOOSE TABLET (Maine, Aroostook County; J.E. McGrath, 1912; 1921; 1946; 1955)--On Monument Brook, about 60 meters back from the stream, about 3/5 mile below the mouth of Greenleaf Brook, on the outer end of the first point below Hardwood Point. The station is on a rock approximately 0.6 by 1.2 meters in cross section and 0.4 meter high.

In 1946 it was 75 feet upstream from the extreme point of trees on the point and 25 feet W of the old logging road parallel to the river. The moss covering the rock was removed.



Station mark is a bronze disk set in a drill hole surrounded by a triangle cut in the rock.

NESS TABLET (Maine, Aroostook County; J.E. McGrath; 1912; 1921; 1946; 1955)--About 100 feet W of the bed of Monument Brook, about 75 feet from the bushes on high-water line, about 600 feet below the old Eastern Maine Railroad embankment, and  $\frac{3}{4}$  mile below the mouth of Greenleaf Brook. It is about on a line with the marsh to N and S of the point it is on at high water. It is on S side of the path leading to the water on the point and on the river side of the small open field where a cabin once stood. Several inches of grass and debris were removed from the site in 1946.

Station mark is a bronze disk in a drill hole surrounded by a triangle cut in the granite rock whose exposed dimensions are  $1\frac{1}{2}$  by 3 feet by  $1\frac{1}{2}$  feet high.

REFERENCE MONUMENT 16 (Maine, Aroostook County; J.E. McGrath, 1912; 1921; 1946; 1955)--On Monument Brook about 2 miles above North Lake. The station is on the bank of the brook, at the foot of the slope of the high land. At this point the highlands close in on either side of the brook, making a narrow valley for  $\frac{1}{2}$  mile downstream. One of the old "Collier" lumber camps is on the Canadian shore opposite the station.

In 1946 the station was 15 feet inside the tree line which is at the edge of high water. Two huge yellow birches, one of them dead, are on the bank just outside the station.

Station mark is a boundary reference post set in a concrete base.

REFERENCE MONUMENT 17 (New Brunswick, York County; J.E. McGrath, 1912; 1921; 1946; 1955)--About 49 meters from the bed of Monument Brook, but 3 feet inside the high-water line and 8 feet outside the tree line of the swamp at edge of marsh grass, and 2 miles upstream from North Lake. It is opposite REFERENCE MONUMENT 16, just above an old Collier lumber camp, 150 feet upstream from a brushy point, and 100 feet below the upstream end of the trees on S side of the bay above the station at high water. In 1955, station was 150 feet upstream from an open campsite.

Station mark is a boundary reference post set in a drill hole in a rock about 4 feet by 4 feet.

BIRCH TABLET (Maine, Aroostook County; J.E. McGrath, 1912; 1921; 1946; 1955)--On the W side of Monument Brook, about 2 miles above North Lake. The station is S 66°30'W, 15.6 meters, from REFERENCE MONUMENT 16, and opposite an old "Collier" lumber camp. It is 8 feet W of the path along the brook



and nearly straight inshore from the monument. A 30-inch dead birch tree is 30 feet SE.

The station mark is a bronze disk set in a drill hole surrounded by a triangle cut in a gray granite rock whose exposed dimensions are 1 by 2 feet.

**NORTH STUMP** (New Brunswick, York County; H.C.O. Clarke, 1917; 1921; 1946)--The stump has rotted and the nail gone. Station lost.

**RASPBERRY** (Maine, Aroostook County; J.E. McGrath, 1912; 1921; 1946; 1955)--About 30 feet W of Monument Brook at high water, 10 feet downstream from the end of the fir-covered point opposite and slightly above the Cropley road. It is at the foot of the lower edge of a hogback or low ridge that parallels the brook about 1.7 miles above North Lake, and in a fir grove about 300 feet below a log landing.

The subsurface mark is a pint bottle filled with sand set  $2\frac{1}{4}$  feet below the surface of the ground. The surface mark is a bronze disk set and centered over the subsurface mark in a granite post 8 inches square and  $2\frac{1}{4}$  feet long. The letters "U.S.C.B." are cut in the vertical faces of the post, one letter in each face. The top of the post is 10 inches above the ground.

**CROPLEY** (New Brunswick, York County; J.E. McGrath, 1912; 1921; 1946; 1955)--In the edge of the bushes 6 feet from high water in Monument Brook,  $1\frac{1}{2}$  miles above North Lake. It is 10 feet downstream from the extreme point at high water and 100 feet upstream from the Cropley farm road to the river.

Station mark is a bronze disk set in the top of a granite post 8 inches square and 30 inches long, firmly planted in the ground, and projecting 14 inches above the surface. The letters "U.S.C.B." are cut on the vertical faces of the post, one letter on each face.

**LANDING TABLET** (New Brunswick, York County; J.E. McGrath, 1912; 1921; 1946; 1955)--On Monument Brook, 1.4 miles above North Lake, near the lower end of an old clearing at what is called Cropley Landing. Station is 20 feet from high water. A larger rock is 15 feet upstream, near center of the clearing.

Station mark is a bronze disk set in a drill hole surrounded by a triangle cut in a granite boulder which is about 1 meter long, 0.4 meter wide, and 0.3 meter high as exposed above the surface of the ground.

**CEDAR** (Maine, Aroostook County; J.E. McGrath; 1912; 1921; 1946; 1955)--About 25 feet from Monument Brook at high water,  $1\frac{1}{2}$  miles above North Lake, on first point on United States



shore above "The Narrows". It is 30 feet upstream from the SE corner of the rounding point.

The subsurface mark is a pint bottle filled with sand set 3 feet below the surface of the ground. The surface mark is a bronze disk set and centered over the subsurface mark in a granite post 8 inches square and  $2\frac{1}{2}$  feet long. The letters "U.S.C.B." are cut in the vertical faces of the post, one letter in each face. The top of post is 4 inches above ground.

NARROWS TABLET (Maine, Aroostook County; J.E. McGrath, 1912; 1921; 1946; 1955)--About 25 feet W of Monument Brook, in a thick fir grove, about a mile above North Lake, at "The Narrows". The station is N 55°W, 8.6 meters, from REFERENCE MONUMENT 18 and on the N side of a small hollow.

Station mark is a bronze disk set in a drill hole surrounded by a triangle cut in a granite rock about 2 feet in diameter.

REFERENCE MONUMENT 18 (Maine, Aroostook County; J.E. McGrath, 1912; 1921; 1946; 1955)--About 15 feet from high water in Monument Brook, at "The Narrows", about a mile above North Lake, and 15 feet inside the tree line. It is about the center of the United States point at "The Narrows", about 75 feet either way. NARROWS TABLET is N 55°W, 8.6 meters distant, from the monument.

Station mark is a boundary reference post set in a concrete base.

REFERENCE MONUMENT 19 (New Brunswick, York County; H.C.O. Clarke, 1917; 1921; 1946; 1955)--About 20 feet inside the brush line which is at high-water line of Monument Brook, 50 feet upstream from the extreme point on the Canadian side of "The Narrows", and about a mile above North Lake.

Station mark is a boundary reference post set in a drill hole in a large boulder 4 by 2 feet by 6 inches above ground.

FAWN (Maine, Aroostook County; J.E. McGrath, 1912; 1921; 1946)--On Monument Brook, about  $\frac{2}{5}$  mile above North Lake, on the outer end of a tree-covered point extending out toward the river from the firm land. The station is about 68 meters from the brook at the nearest point.

The station mark is a bronze disk set in the top of a granite post 7 inches square and 2 feet long, set in a concrete base. The letters "U.S.R.M." are cut on the vertical faces of the post, one letter on each face.

In 1946, the site was covered by dense brush waist high, and high water came up to site, hence station was not recovered.



CALF (New Brunswick, York County; J.E. McGrath, 1912; 1921; 1946; 1955)--On Monument Brook, about  $\frac{1}{2}$  mile above North Lake, on a point in the marsh a little above the general level, about 45 meters from the stream.

Station mark is a bronze disk set in a granite post 7 inches square and 2 feet long, set in a concrete base. The letters "U.S.R.M." are cut in the vertical faces of the post, one letter in each face.

Found leaning in 1946 and straightened. One foot above water in 1955.

DEER (Maine, Aroostook County; J.E. McGrath, 1912; 1921; 1946)--On Monument Brook, about 150 meters from the brook, and about  $\frac{1}{4}$  mile from North Lake. The station is at the edge of the swamp 25 meters from a "horseback" or natural dike.

Station mark is a bronze disk set in the top of a granite post 8 inches square and 3 feet long, set firmly in the ground. The letters "U.S.C.B." are cut in the vertical faces of the post, one letter in each face.

A triangle was cut in a blaze facing the station on a birch tree 2 feet in diameter, is 15.12 meters distant from the station, and a second reference mark consisting of a drill hole surrounded by a triangle cut in a wedge-shaped granite boulder is 15.8 meters from the station.

Water too high to get to the station in 1946.

DEER MARK (Maine, Aroostook County; J.E. McGrath, 1912; 1921; 1946)--This is the second reference mark for station DEER (see above) and could not be reached for recovery in 1946.

DOE (New Brunswick, York County; J.E. McGrath, 1912; 1921)--On Monument Brook, 0.2 mile from North Lake, and about 35 meters from the brook.

Station mark is a bronze disk set in the top of a granite post 8 inches square and 3 feet long firmly set in the ground.

The reference mark is a drill hole surrounded by a triangle cut in a block of granite whose exposed surface is 1.2 meters by 0.9 meter, which bears S 35°E, 14.3 meters from the station.

This station could not be found in 1921, but the reference mark (called "DOE MARK" in table of positions) was found.

BUCK (New Brunswick, York County; N.W. Smith, 1921; 1946; 1955)--On a small willow-covered island at high water, off the first Canadian point on Monument Brook, about 300 meters above North Lake.

Station mark is a bronze disk set in a drill hole in the only large rock along this part of the stream, 5 feet in diameter and rising 2 feet above high water.



NORTH LAKE

McINELLY (U.S.C. & G.S.) (New Brunswick, York County; C.H. Boyd, 1889; 1917; 1946)--In North Lake Parish, on land owned by Leonard Gould, about 250 meters W of the timbered summit of the hill back of the Grahamville schoolhouse, and 125 feet WNW of the highest ledge on the ridge extending W from this summit. To reach the station, follow the road W from the schoolhouse 0.3 mile, or 150 feet W of the W line fence of the lot the school property is part of, to a house on S side of road, thence directly S across an open field to the fence in edge of woods at foot of the ridge, thence 125 meters directly up the ridge to the station on its crest, in timber 50 feet high.

Station mark is a bronze disk lettered "U.S. & C.B. Survey" set in a drill hole surrounded by a triangle cut in rock. A large cairn is built over the station.

FLOYD (New Brunswick, York County; N.W. Smith, 1946; 1955)--On the farm of Floyd Smith, on the slope at NW end of the ridge extending along the S side of the road W of the Grahamville School in North Lake Parish. It is about midway between this schoolhouse and the E end of North Lake. It is just inside the brush at the NW corner of the wooded hill, the nearest point of the woods to Mr. Smith's house. It is 2 feet outside the meadow on the N and 12 feet on the W. Station mark is a wooden hub.

Floyd tablet is an I.B.C. bronze disk wedged in a rounded rock outcrop showing 1 foot by 2 feet and 2 inches above ground, 25 feet into the woods from the meadow on the N and 60 feet from the meadow on the W.

Object	Distance	Direction
GREEN MOUNTAIN	feet	00 00' 00" 0
FLOYD TABLET	(slope) 46.01	240 35 10

NORTH (New Brunswick, York County; N.W. Smith, 1946; 1955)--On the W of the two points on the N side of the narrows between the E and W parts of North Lake. It is near the W end of this flat point and 3 feet back from the top of the 6-foot bank of the lake.

Station mark is an I.B.C. bronze disk wedged in a drill hole in a solid triangular rock showing 2 feet on a side and 10 inches above ground.

Reference mark 1 is a drill hole in a pointed rock 4 by 3 feet by 2 feet high, E of the station, and 15 feet inland from the lake.

Reference mark 2 is a drill hole in a tent-shaped rock 2 by 1½ feet by 1 foot high, W of station, and 10 feet inland.



Object	Distance	Direction
GREEN MOUNTAIN	feet	0° 00' 00" 0
R.M. 2	35.81	77 27 50
R.M. 1	53.10	231 02 35

WALL (Maine, Aroostook County; J.E. McGrath, 1912; N.W.S. 1946; 1955)--On the W shore of North Lake, about 240 meters S of the mouth of Monument Brook, on a narrow dike which is about 1 meter wide at the station. The dike is locally known as the "Sea Wall".

The subsurface mark is a pint bottle filled with sand set  $2\frac{3}{4}$  feet below the surface of the ground. The surface mark is a bronze disk set and centered over the subsurface mark in a drill hole in the top of a granite post 8 inches square and 3 feet long. The letters "U.S.C.E." are cut in the vertical faces of the post, one letter in each face.

Found leaning and straightened in 1946. O.K. in 1955.

REFERENCE MONUMENT 20-46 (New Brunswick, York County; J.E. McGrath, 1912; 1917; 1946; 1955)--On the N shore of North Lake, on the point 250 meters E of the mouth of Monument Brook. The ground on this point is about 18 inches above high water, with trees growing about 25 feet W of the station and bushes 75 feet W along the narrow neck of land showing at high water.

Station mark is a boundary reference post set in a concrete base near the N side of the narrow neck of land.

The rock containing the reference mark is gone or under water. Station at the end of the cedar trees in 1955.

REFERENCE MONUMENT 21-46 (Maine, Aroostook County; J.E. McGrath, 1912; 1917; 1946; 1955)--On the W shore of North Lake, about 350 meters below the mouth of Monument Brook. The station is on a large granite boulder whose dimensions are 3.2 meters by 5.2 meters and 1.6 meters in height. This is the first large boulder on the United States shore below Monument Brook.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the boulder.

GULL ROCK 2 (Maine, Aroostook County; J.E. McGrath, 1911; 1946; 1955)--On the rock of that name in North Lake. The rock is about 190 meters offshore, about halfway between the mouth of Monument Brook and The Thoroughfare, the outlet of the lake. The surface of the rock measures approximately 6 by 12 meters and it rises 1.5 meters above low-water mark. Rock is 1 foot above high water and has three ringbolts to fasten signal in place.

Station mark is a bronze disk set in a drill hole, surrounded by a triangle cut in the summit of the rock.



PICNIC (New Brunswick, York County; J.E. McGrath, 1912; 1946; 1955)--On Sam Foster's Point at the NE entrance of Moxon Cove of North Lake, on a flat-topped rock 12 by 6 feet by 1 foot above high water, just outside the shoreline. A huge boulder touches the shore E of the station and two other large boulders are in the water near and NE of the station.

Station mark is a bronze disk marked "U.S. & C.B. Survey" leaded in a drill hole in the rock. Three holes are drilled in the rock around the station to fasten eyebolts for signal guys.

Reference mark 1 is a cross surrounded by a triangle cut in the slanting top of the huge boulder, mentioned above, 20 by 15 feet by 8 feet high.

Reference mark 2 is a drill hole in a rock 5 by 4 feet by 2 feet high, 20 feet inland from the station.

Object	Distance	Direction
GREEN MOUNTAIN	feet	0° 00' 00" 0
R.M. 1	17.17	256 57 55
R.M. 2	36.40	298 56 35

REFERENCE MONUMENT 22-46 (New Brunswick, York County; J.E. McGrath; 1912; 1917; 1946; 1955)--On the end of a narrow tongue-like peninsula 200 meters E of The Thoroughfare, the outlet of North Lake. The station is on the top of a huge boulder that is about 15 meters N and in front of John Watson's cottage which he calls "The Boulders". Triangulation station BOULDERS is on a flat-topped and smaller gray granite boulder N 25°08'W, 5.3 meters, from the monument.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock.

REFERENCE MONUMENT 23-46 (Maine, Aroostook County; J.E. McGrath, 1912; 1917; 1946; 1955)--On the W shore of North Lake, about 50 meters N of The Thoroughfare, the outlet of the lake. The station is on the top of a large and prominent pyramidal boulder about 1.7 meters high, situated 8 meters from the SE corner of the MacAllister cottage known as "Lake-view Camp". The boulder juts out from the shore where two large birch trees grow.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the top of the boulder.

BOULDERS (New Brunswick, York County; J.E. McGrath, 1912; 1917; N.W.S., 1946; 1955)--On the end of a narrow tongue-like peninsula 200 meters E of The Thoroughfare, the outlet of North Lake. The station is N 25°08'W, 5.3 meters, from REFERENCE MONUMENT 22.



Station mark is a bronze disk marked "U.S. & C.B. Survey" set in a drill hole within a triangle cut in a flat-topped gray-granite boulder. Three holes are drilled in the rock around the station mark for the purposes of fastening eyebolts for signal guys.

WATSON (New Brunswick, York County; J.E. McGrath, 1912; 1921; N.W.S., 1946; 1955)--On the Canadian point at the entrance to The Thoroughfare, the outlet of North Lake, on the N and larger of two large boulders, 12 by 20 feet by 8 feet high. There are three eyebolts in the rock to fasten guy wires. The highest part of the rock and the station are near the shore end.

Station mark is a bronze disk marked "U.S. & C.B. Survey" set in a drill hole within a triangle cut in the boulder.

WET (New Brunswick, York County; H.C.O. Clarke, 1917; N.W.S., 1946; 1955)--About 30 feet W of North Lake at high water, near the S side of a swale full of rocks extending from North Lake to The Thoroughfare S of the Canadian Point at its entrance, and about 300 feet S of this point.

Station mark is an I.E.C. bronze disk set in a drill hole in the flat rock 8 by 13 feet by 3 feet high.

#### THOROUGHFARE

PIEDRA (New Brunswick, York County; J.E. McGrath, 1912; 1921; N.W.S., 1946; 1955)--On the Canadian shore of The Thoroughfare, just below the first cove below the outlet of North Lake. The station is on a great block of gray granite just opposite a wooded point on the United States shore and is 130 meters from the North Lake outlet. The size of the rock easily identifies the station.

Station mark is a bronze disk marked "U.S. & C.B. Survey" set in a drill hole in the rock. The rock is surrounded by water when it is high.

NEWER (Maine, Aroostook County; N.W.S., 1946)--On the first United States point inside the entrance to The Thoroughfare.

Marked only by a wooden hub.

FARE (New Brunswick, York County; N.W. Smith, 1946)--On the marshy flat about 300 yards W of North Lake, in the big cove on the S side of Thoroughfare.

No mark. In a foot of water.

REFERENCE MONUMENT 24-46 (New Brunswick, York County; J.E. McGrath, 1912; 1917; 1946; 1955)--On the S shore of The Thoroughfare 400 meters below North Lake outlet, on the

first great boulder in the water below the big cove in the S shore.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the top of the boulder. Each number is made backward on the monument.

REFERENCE MONUMENT 25-46 (Maine, Aroostook County; H.C.O. Clarke, 1917; 1946; 1955)--On the N shore of The Thoroughfare, about 400 meters from North Lake. The station is on the second solid point on this shore below North Lake, 20 feet from water.

Station mark is a standard 8-inch manganese-bronze reference post set in a concrete base.

REFERENCE MONUMENT 25 ECC (Maine, Aroostook County; N.W. Smith, 1946)--Four feet from the shore, directly out from REFERENCE MONUMENT 25, directly opposite the pointed rock 2 feet out of high water on Canadian shore, the second rock W of the one containing REFERENCE MONUMENT 24.

Station mark is a wooden hub 3 feet high.

FLAT (New Brunswick, York County; N.W. Smith, 1946; 1955)--On the third large boulder W of the large marshy cove on the S side of The Thoroughfare and the second boulder W of the one containing REFERENCE MONUMENT 24. Thirty feet W of this boulder and nearer shore at high water is a huge boulder projecting 7 feet above high water. The boulder is large, roughly triangular about 20 feet on a side, 10 feet high, of which 2 feet is above high water, and has a slightly sloping top.

Station mark is an I.B.C. bronze disk wedged in a drill hole about the center of the boulder and 6 inches W of a depression in its top.

ROUGH (Maine, Aroostook County; N.W. Smith, 1946)--On the upstream side of the rounding point between REFERENCE MONUMENT 25 and the cottage on the prominent point downstream. It is 50 feet downstream from the end of a wood road, 4 feet back from The Thoroughfare, in a cedar swamp.

Station mark is a hub 3 feet high.

DIFFICILE (New Brunswick, York County; J.E. McGrath, 1912; 1921; 1946; 1955)--On the S shore of The Thoroughfare, about midway between Grand and North Lakes. After passing the swamp above Fox's Mill in going from Grand Lake to North Lake the station is on the first large boulder in the water on the S shore.

Station mark is a bronze disk marked "U.S. & C.B. Survey" set in a drill hole within a triangle cut in the rock.



ROT (Maine, Aroostook County; N.W. Smith, 1946)--At the water's edge on the N side of The Thoroughfare, opposite the rock containing station DIFFICILE. In swamp.

No mark.

CLEAR (New Brunswick, York County; N.W. Smith, 1946)--In a small clear area on the S side of The Thoroughfare, opposite the cottage on the prominent point on the United States shore. It is 15 feet E of a small point, 4 feet inshore from highwater mark, and 2 feet above high water.

Station mark is a 3-foot wooden hub.

CLEAR TABLET (New Brunswick, York County; N.W. Smith, 1946; 1955)--About 7.04 feet SW of CLEAR, in a boulder embedded in the ground.

Station mark is an I.B.C. standard bronze disk wedged in a drill hole in the rock.

LOGS (Maine, Aroostook County; J.E. McGrath, 1912; 1917; 1946; 1955)--On the N shore of The Thoroughfare, about midway between North and Grand Lakes. It is at the upper end of a small clearing with a cottage at its lower end about 80 feet distant, about 8 feet from the high bank, and 4 feet above high water.

The subsurface mark is a 2-ounce bottle filled with sand and placed  $2\frac{3}{4}$  feet below the surface of the ground, with a few scraps of old iron over it. The surface mark is a bronze disk marked "U.S. & C.B. SURVEY" set and centered over the subsurface mark in the top of a granite post 8 inches square and 3 feet long. The letters "U.S.C.B." are cut in the vertical faces of the post, one letter in each face.

In 1946 the bronze disk was gone, but the marker otherwise in good shape.

REFERENCE MONUMENT 26-46 (Maine, Aroostook County; H.C.O. Clarke, 1917; 1946; 1955)--In a cedar swamp on the N bank of The Thoroughfare, about 650 meters above Grand Lake.

Station mark is a standard 8-inch manganese-bronze reference post set in a concrete base.

Station mark was loose and tilted in 1946. It was straightened and relocated, slightly tilted in 1955.

REFERENCE MONUMENT 26 ECC (Maine, Aroostook County; N.W. Smith, 1946; 1955)--Midway (about 16 feet from each) between REFERENCE MONUMENT 26 and the N shore of The Thoroughfare at high water, and 40 feet W of the shore end of a woods road.

Station mark is a wooden hub 3 feet high.

REFERENCE MONUMENT 27-46 (New Brunswick, York County; H.C.O. Clarke, 1917; 1946; 1955)--On the S bank of The Thoroughfare, about 650 meters above Grand Lake, about 5.2 meters back from the water, at an old log landing.

Station mark is a standard 8-inch manganese-bronze reference post, set in a concrete base.

REFERENCE MONUMENT 27 ECC (New Brunswick, York County; N.W. Smith, 1946)--About 3 feet S of The Thoroughfare at high water, at the W corner of the small clearing in which REFERENCE MONUMENT 27 is located, the reference mark being E of this station and about 20 feet back from high water. Station is just inshore from a 10-inch dead white birch and 8 feet E of another 12-inch dead white birch.

Station mark is a 3-foot wooden hub.

THOR (Maine, Aroostook County; N.W. Smith, 1946)--On a firm hummock 6 inches above high water and on the shoreline on the N side of The Thoroughfare at high water, in the edge of a cedar swamp. About on line with the United States end of the main span of The Thoroughfare bridge and the bushes on the Canadian point above the bridge at high water.

Marked only by a wooden hub.

DEAD (Maine, Aroostook County; N.W. Smith, 1946)--Station was a wooden hub driven into the grassy point at the bend of the river above The Thoroughfare bridge, in 2 feet of water.

Unmarked.

REFERENCE MONUMENT 28-46 (New Brunswick, York County; H.C.O. Clarke, 1917; 1946; 1955)--About 6 meters E of The Thoroughfare at high water, 200 meters upstream from Grand Lake, and 35 meters upstream from the road, in dense high weeds and berry bushes.

Station mark is a boundary reference post set in a concrete base.

REFERENCE MONUMENT 29-46 (Maine, Aroostook County; H.C.O. Clarke, 1917; 1946; 1955)--On the United States bank of The Thoroughfare, about 200 meters above the entrance to Grand Lake. The station is N of the road, 1.8 meters back of Watson's garage, and 8.5 meters from the shoreline.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the top of a boulder whose top surface measures 0.9 meter on the N side, 1.8 meters on the E side, 0.9 meter on the S side, and 1.2 meters on the W side.

The garage was gone in 1946. Station now about 15 meters N of the road.



FOX (New Brunswick, York County; J.E. McGrath, 1912; 1921; 1946; 1955)--On the Canadian bank of The Thoroughfare, about 5 meters from the water, about 4 meters N of the roadway from the bridge across The Thoroughfare.

Station mark is a bronze disk set in a drill hole in the top of an irregularly-shaped blue stone whose exposed dimensions are 1.1 by 0.7 meter in cross section and 0.1 meter high.

FOX ECC (New Brunswick, York County; N.W. Smith, 1946)--On property of Mr. Kinney, on the Canadian side of The Thoroughfare, about 25 feet E of the high water, about 8 feet N of the E end post on N side of the bridge approach, and 17.01 feet E from FOX. It is 102.80 feet S of REFERENCE MONUMENT 28.

Station mark is a wooden hub flush with ground.

THOROUGHFARE (Maine, Aroostook County; J.E. McGrath, 1911; 1946)--About on the road limit, 15 meters W of the approach to The Thoroughfare bridge, and in the edge of the garden of the customs office. It is BENCH MARK 440.

Station mark is a bronze disk set in a drill hole, surrounded by a triangle cut in the top of a rock whose exposed dimensions are about  $4\frac{1}{2}$  by 4 feet and about 2.3 feet high. Station and Bench Mark lost in 1955.

PACKARD (Maine, Aroostook County; Hergeshiemer, 1890; 1917; 1946; 1955)--On the point of land made by the N shore of Grand Lake and the W bank of The Thoroughfare. It is on a lone boulder about 3 by 3 meters in cross section and 0.8 meter high, in an uninclosed clearing on the N side of the road leading W from The Thoroughfare. The rock is about 25 meters from the road and about 100 meters from the bridge across The Thoroughfare. The E end of the rock is used as part of the foundation of the Packard home. The station is about 6 feet W of the side of the house, near its NW corner.

Station mark is a bronze disk set in a drill hole surrounded by a triangle cut in the rock. A cross surrounded by a triangle cut on the surface of a coarse-grained stone, whose exposed surface is about 1 by 1 meter and whose height is 0.3 meter, bears S  $80^{\circ}29'W$ , 31.93 meters distant.

The reference mark is about 12 meters from the middle of the road.

PACKARD ECC (Maine, Aroostook County; N.W. Smith, 1946)--About 46.96 feet WNW of station PACKARD, in open meadowland.

Station mark is a wooden hub.



REFERENCE MONUMENT 30-46 (Maine, Aroostook County; H.C.O. Clarke, 1917; 1946; 1955)--In bushes about shoulder high, 20 feet from the edge of a swamp along Grand Lake, about 80 meters N of this lake, about 120 meters N of the mouth of The Thoroughfare, and 60 meters S of the road leading W from The Thoroughfare bridge.

Station mark is a boundary reference post set in a drill hole in the top of a large rock embedded in the ground. Station at edge of the swamp in 1955.

REFERENCE MONUMENT 31A-46 (New Brunswick, York County; J.Hill, 1939; 1946; 1955)--On the Canadian point, at the mouth of The Thoroughfare where it empties into Grand Lake.

Station mark is a standard reference post set in a drill hole in the apex of a huge boulder. This boulder is now on its side and the reference post turned at right angles to the shank to make it upright, and is on the side of boulder toward the bridge.

Station PENGUIN and its reference now act as references for this monument.

PENGUIN (New Brunswick, York County; N.W.Smith, 1946; 1955)--About 8 feet E of the log lake wall on the E side of the head of Grand Lake and about 175 feet S of the mouth of The Thoroughfare. It is 8 feet N of the NW corner of the tan and red cottage called "The Penguin".

Station mark is a drill hole in a solid rock nearly flush with the ground, whose exposed surface is about 20 inches in diameter.

Reference mark no. 1 is REFERENCE MONUMENT 31A on the point N of the station.

Reference mark no. 2 is a bronze disk in a huge boulder SW of the last cottage facing The Thoroughfare and between it and "The Penguin" cottage.

Object	Distance	Direction
REFERENCE MONUMENT 30	feet	0° 00' 00" 0
REFERENCE MONUMENT 31A	177.275	35 31 08
Reference mark 2	97.70	93 27 11

#### GRAND LAKE

GREEN MOUNTAIN (U.S.C. & G.S.) (New Brunswick, York County; C.H.Boyd, 1888; 1911; 1941; 1946)--Located about 9 miles N by E of Forest City, 1.5 miles SSW of the most southerly part of North Lake, 0.5 mile E of the road from Thoroughfare Bridge to Forest City, on the highest point of a partly wooded granite ledge locally known as Green Mountain, and on land owned by Laurel Higgs who lives about 0.5 mile SW



of the station. It is a small bronze disk set in bedrock, 5 feet W of a large boulder about 5 feet high and 4 by 7 in diameter. The disk is stamped "U.S. & C.B. Survey". There are no dates stamped on it. It is surrounded by a triangle cut in the rock.

To reach the station from Hodgdon, Maine, go S on U.S. Highway 1 for about 17 miles to the small town of Orient, a macadam road left, and a sign "Canadian Border Road", turn left and go 3.2 miles to the Canadian Border and Customs Station, cross and continue on for 1.3 miles to Fosterville and a dirt T-road right, turn right and go S for 1.6 miles to the top of the ridge and foot of Green Mountain. Leave truck here and turn left into a farm road going in an E direction to the top of the hill and a triangular blazed 3-inch birch tree on the N edge of the woods, and station.

Reference mark 1 is a U.S.C. & G.S. bronze disk set in a drill hole in bedrock flush with the ground and about the same elevation as the station mark. The disk is stamped "GREEN MOUNTAIN NO 1 1941".

Reference mark 2 is a U.S.C. & G.S. bronze disk set in a drill hole in bedrock flush with the ground and about the same elevation as the station mark. The disk is stamped "GREEN MOUNTAIN NO 2 1941".

A cross within a triangle is cut in the rock on a point of the same ledge 5.415 meters NW of the station mark.

Object		Distance		Direction		
		meters	feet			
PEEKABOO MOUNTAIN				0°	00'	00"0
R.M. 1	NW	7.483	24.57	92	37	08
R.M. 2	SW	11.840	38.85	334	10	12

A 4-foot stand required to clear all lines with some additional clearing.

PEEKABOO MOUNTAIN (U.S.C. & G.S.) (Maine, Aroostook County; C.H. Boyd, 1889; 1911; 1941; 1946)--On the W side of Grand Lake in Weston township, about 1½ miles N of the village of Weston, and 1/3 mile W of U.S. Highway 1. It is on a granite ledge on the SE and highest part of the summit of Peekaboo Mountain, about 20 meters from the beginning of the slope E to Grand Lake.

Station is reached from a right-angle turn in U.S. Highway 1 in Danforth, by going N on U.S. Highway 1 for 5.9 miles (0.8 mile N of Weston Post Office) to a house on the W side of highway at the top of a hill, turn W on the S side of the house and go through pole gate at back of barn and go N across a narrow field, then continue along crest of ridge to top and station.

A 55-foot pole tower was used which just cleared the tops of the trees.

Station mark is an unstamped I.B.C. bronze disk, lettered "U.S. & C.B. Survey", set in a drill hole, enclosed



in a triangle cut in the rock. The W side of the triangle is a natural fissure in the ledge.

Reference marks are U.S.C. & G.S. bronze disks set in boulders, stamped "PEEKABOO MOUNTAIN 1941". Both boulders protrude about 18 inches above the surrounding ground.

Object	Distance		Direction		
MITCHELL MOUNTAIN	meters	feet	0° 00' 00" 0		
R.M. 1 SW	19.875	65.20	258	17	27
R.M. 2 NW	22.129	72.60	335	54	30

BUBAR 2 (Maine, Aroostook County; J.E. McGrath; 1911; 1917; 1946)--  
Station lost. Reference mark gone.

ORIENT (Maine, Aroostook County; N.W. Smith, 1946; 1955)--About 2 feet inside the road limit on the N side of the road about 1 mile W of The Thoroughfare, and 100 feet E of the A. Bartlett house, the second one W of Mr. Packard's home. It is 12 feet W of the W side of the Bartlett barn extended, 10 feet E of the corner of the fence on E side of Mr. Bartlett's yard, and about 400 feet W of the bend of the road W of Mr. Packard's home. It is 6 feet outside the road ditch and 3 feet higher than the road. An 18-inch soft maple, across the road and 20 feet E, is the W of several trees on the S side of the highway.

Station mark is an I.B.C. bronze disk wedged in a drill hole in a solid rock, whose exposed surface is 15 inches in diameter and 3 inches above ground.

Reference mark 1 is a drill hole in a sloping rock 2 by 2 feet and 6 inches above ground on E end, in the fence line E of station.

Reference mark 2 is a drill hole in a rock 20 inches by 20 inches by 4 inches above ground, 4 feet S of the S road fence, at E end of a rock pile.

Object	Distance	Direction		
PENGUIN	feet	0° 00' 00" 0		
R.M. 1	104.37	313	08	00
R.M. 2	51.38	56	16	44

VEYSEY (New Brunswick, York County; N.W. Smith, 1946; 1955)--About 100 meters E of the road leading from The Thoroughfare bridge to Fosterville Post Office, on the farm of Alfred Veysey at the top of the hill. It is about 50 feet N of the N side of the barn extended to a point about 120 feet from the barn, in a half-moon-shaped flat rock 5 by 2½ feet and projecting 6 inches above ground.

Station mark is an I.B.C. bronze disk wedged in solid rock.

Reference mark 1 is a drill hole in an angular boulder 5 by 5 feet by 2½ feet high.

Reference mark 2 is a drill hole in outcropping bed-rock 15 feet square, on the W side of the top of the knoll.



Object	Distance	Direction
NORTH	feet	0° 00' 00".0
R.M. 1	62.8	91 18 50
R.M. 2	56.0	120 05 00

NORTH POINT (New Brunswick, York County; J.E. McGrath, 1911; 1946; 1955)--On the outermost (N) rock at high water in the water off North Point, the NE point of the Canadian peninsula into northern Grand Lake. This flat-topped rock is one of the largest on the point, 8 by 15 feet and 1 foot above high water. There are eyebolts in the rock.

Station mark is a bronze disk set in a drill hole within a triangle cut in the rock.

The reference mark is a cross inside a triangle cut in the sloping face of a boulder 5 by 10 feet by 4 feet high, which bears S 0°43'W, 7.52 meters distant.

REFERENCE MONUMENT 32-46 (Maine, Aroostook County; H.C.O. Clarke, 1917; 1946; 1955)--On the property of Guy C. Fletcher of Monticello, on the W shore of Grand Lake, 1.4 miles W of The Thoroughfare, and 0.4 mile above MacAllister Cove. It is 200 meters N of a prominent rounded point, on the edge of alders on the S side of an old clearing, 6 feet W of the line of the rear of the cottage extended, and 16 feet S of the SW corner. The monument is painted green. Caribou Point is  $\frac{1}{2}$  mile S.

Station mark is a boundary reference post set in a drill hole in the top of a triangular boulder about 5 feet on a side and 16 inches in height.

REFERENCE MONUMENT 32 ECC (Maine, Aroostook County; N.W. Smith, 1946)--Near the SE corner of the cottage and is marked only by a wooden hub.

REFERENCE MONUMENT 33-46 (New Brunswick, York County; J.E. McGrath, 1911; 1917; 1946; 1955)--On the N shore of the large Canadian peninsula in the N part of Grand Lake, about 600 meters SW along the shore from North Point. The station is on a granite boulder whose cross section is 5.4 meters by 5.3 meters and height 2.5 meters. There are eyebolts in the rock.

Station mark is a boundary reference post set in a drill hole in the boulder. A bullet hole has cut off part of the first figure.

Reference mark 1 is a cross within a triangle cut in the second boulder above the station.

Reference mark 2 is a drill hole in a boulder 6 by 3 feet by 2 feet high on the shore E of the station.

Object	Distance	Direction
CARIBOU	feet	0° 00' 00".0
R.M. 1	26.71	155 07 45
R.M. 2	33.85	232 27 55

CARIBOU (Maine, Aroostook County; J.E. McGrath, 1911; 1917; 1946; 1955)--On Caribou Point in the N part of Grand Lake, on a small rock on the beach near the edge of high water, 20 feet S of the extremity of the point. Garage now over R.M. 2, 1955.

Station mark is a small boundary bronze disk in a drill hole in the top of the rock.

Reference mark 1 is a cross surrounded by a triangle cut in the face of a coarse conglomerate rock nearly flush with the ground S of the station. There is an eyebolt in this rock.

Reference mark 2 is a drill hole in a rock inland from the station.

Object	Distance	Direction
ORIENT	feet	0° 00' 00".0
R.M. 1	17.94	204 12 27
R.M. 2	26.205	268 14 27

REFERENCE MONUMENT 34-46 (New Brunswick, York County; J.E. McGrath, 1911; 1917; 1946; 1955)--On Blueberry Point on the E shore of Grand Lake. The station is at the water's edge, on a spindle-shaped granite boulder 7 meters long, 4 meters wide, and 3 meters high.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the top of the boulder. A cross surrounded by a triangle cut in the top of a tall pyramidal boulder bears S 6°46'E, 8.1 meters distant. There are eyebolts in the station rock.

REFERENCE MONUMENT 35-46 (Maine, Aroostook County; H.C.O. Clarke, 1917; N.W.S., 1946; 1955)--On the NE shore of Half Moon Island in Grand Lake. The station is about 100 meters E of the most northerly point of the island, 10 meters back from the water's edge, in a gneiss boulder about 3 meters long by 2 meters wide, and 1.2 meters high.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the boulder.

REFERENCE MONUMENT 35 ECC (Maine, Aroostook County; N.W. Smith, 1946)--In the stump of a 4-inch poplar, 8 feet inshore from high water, on the top of the low bank directly toward lake from the monument.

MEDSELENE TABLET (Maine, Aroostook County; J.E. McGrath, 1911; 1946; 1955)--About 15 feet offshore at high water from the extreme SE point of Half Moon Island in Grand Lake, on a



granite rock 8 by 4½ feet and 4 feet high, with its top just above high water.

Station mark is a boundary bronze disk set in a drill hole in the rock.

MOON (Maine, Aroostook County; N.W. Smith, 1946; 1955)--On the E side of the SE point of Half Moon Island in Grand Lake. It is about 50 feet N of the point, 10 feet inshore from the lake at high water, and 2 feet above high water.

Station mark is a standard I.B.C. station bronze disk cemented in a drill hole in a square stone about 18 inches on a side and 10 inches thick set in the ground with its top about 4 inches below the ground level. The subsurface mark is a cross in the top of a square piece of bronze metal cemented in a drill hole in a flat stone 10 inches square and 4 inches thick buried 2½ feet underground.

Reference mark 1 is MEDSELENE TABLET described above.

Reference mark 2 is a drill hole in a rock 2 feet in diameter and 2 feet high, 6 feet inside the shoreline at high water, at the foot of the high bank along the S shore of the island 40 feet W of the point.

Object	Distance	Direction
Caribou	feet	0° 00' 00.0"
R.M. 1	62.27	171 37 27
R.M. 2	57.545	220 30 51

YORK (New Brunswick, York County; J.E. McGrath, 1911; 1946; 1955)--Off the outer or S point formed by a small sandy cove on the E shore of Grand Lake, opposite to and a little S of Half Moon Island. It is on a granite boulder 7 by 12 feet and 4 feet high, in the lake, 12 feet outside the vegetation on the shore, at high water.

Station mark is a bronze disk set in a drill hole within a triangle cut in the rock. A cross within a triangle cut on the sloping face of a boulder, 3.7 meters by 2.2 meters, and 2.4 meters high, bears N 74°00'E, 26.91 feet distant; and a cross within a triangle cut in the top of an irregularly-shaped boulder, 4.3 meters, by 3.0 meters, and 2.2 meters high, bears S 26°32'W, distant 11.40 feet. These reference rocks are surrounded by water at high water.

WESTON METHODIST CHURCH (U.S.C. & G.S.) (Maine, Aroostook County; A.H. Boyd, 1889; 1955)--In the town of Weston, on the W side of road from Baring to Houlton, near the middle of the town, and about 1 mile S of Peekaboo Mountain. The church is on a small hill in SW corner of road leading to the Forks of the Mattawamkeag, opposite the blacksmith shop of George Brannan. The station is the middle of small square bell tower on E apex.



REFERENCE MONUMENT 36-46 (New Brunswick; York County; H.C.O. Clarke, 1917; 1946; 1955)--On the E shore of Grand Lake directly E of Bear Island. The station is 1 meter back from the water's edge, on a trapezoidal-shaped boulder with a concave top surface. The width of the top is about 2 meters, its longer side about 2.1 meters, its shorter side about 1.1 meters.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the top of the boulder.

Reference mark is a  $1\frac{1}{2}$  inch drill hole in a rock projecting from under a spruce stump in the edge of the woods.

Object	Distance	Direction
MOON	feet	0° 00' 00" 0
Reference mark	16.07	71 18 32

REFERENCE MONUMENT 37-46 (Maine, Aroostook County; H.C.O. Clarke, 1917; 1946; 1955)--On the S side of Round Island, about 100 feet W of the E point of the island at high water, which point is also the end of the bushes. There is a huge pointed boulder 7 feet high on the high water line. The station is on the W slope of a peaked rock, about 5 feet high, 15 feet inside the vegetation, NW from this boulder.

Station mark is a standard boundary reference post set in a drill hole in the rock.

ROUND (Maine, Aroostook County; N.W. Smith, 1946; 1955)--On the S side of the narrow point in the SE corner of Round Island. It is 3 feet inshore from the high water line, in the edge of the bushes, and 50 feet W of the E end of the bushes and of the point at high water.

Station mark is a drill hole in a firmly embedded rock 4 by 4 feet showing 1 foot above ground. It is 56.455 feet from REFERENCE MONUMENT 37, in an easterly direction.

CEDAR POINT 2 (Maine, Aroostook County; J.E. McGrath, 1911; 1917; 1946; 1955)--On Cedar Point, SW of Round Island, on the W shore of Grand Lake. The station is in a small boulder at the edge of the low 2-foot bank, about 10 feet inshore from high water, and in the edge of the vegetation.

Station mark is a bronze disk set in a drill hole in the rock.

Reference mark 1 is a drill hole in a 2- by 3-foot triangular-shaped boulder at the edge of the water, toward Round Island.

Reference mark 2 is a cross within a triangle cut in a boulder (5 by 6 feet) at high water's edge, S of the station.

Object	Distance	Direction
YORK	feet	0° 00' 00" 0
R.M.1	10.45	18 05 00
R.M.2	23.23	145 39 30



REFERENCE MONUMENT 38-46 (New Brunswick, York County; J.E. McGrath, 1911; 1917; 1946; 1955)--On the N end of Pine Island in Grand Lake. The station is on a rock 5.4 meters by 5.0 meters and 2.2 meters above low water. It is well out (some 70 or 80 meters) on the rocky spit at the head of the island and is entirely surrounded by water. Rock is 2 feet above high water.

Station mark is a standard reference post set in a hole drilled in the rock.

Reference mark 1 is a drill hole in a rounding boulder 8 by 8 feet showing 3 feet above high water, pointed on S side, E of the station.

Reference mark 2 is a drill hole in a flat boulder 6 by 6 feet showing 1 foot above high water, S toward the island.

Object	Distance	Direction
REFERENCE MONUMENT 44	feet	0° 00' 00".0
R.M. 1	64.40	260 03 11
R.M. 2	60.28	358 37 31

PINEY POINT (Maine, Aroostook County; J. Hergeshiemer, 1890; 1917; 1946; 1955)--On Piney Point on the W shore of Grand Lake, just opposite Burnt Island. The station is on a boulder that is 3.7 by 3.5 meters and 2.0 meters high. This boulder is 15 meters back from the line of vegetation along the shore and about 25 meters back from the first line of boulders whose tops are above high water mark.

Station mark is a bronze disk set in a drill hole within a triangle cut in the top of the boulder. A cross within a triangle cut in the upper SE corner of a boulder 2.6 by 2.1 meters and 2.2 meters in height bears N 13°47'E, 5.67 meters distant. There are 3 eyebolts in the rock.

REFERENCE MONUMENT 39-46 (New Brunswick, York County; H.C.O. Clarke, 1917; N.W.S., 1946; 1955)--The more westerly of the two S points of Pine Island in Grand Lake. The station is on a rock about 0.6 meter high with a top 1.8 meters square. The station is in low scrub willow brush and the ground nearby is overflowed at high water. A small bay is just E of the station.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock.

REFERENCE MONUMENT 40-46 (Maine, Aroostook County; H.C.O. Clarke, 1917; 1946; 1955)--At high water line on the E side of Burnt Island, 100 feet N of the rocky E point of the island.

Station mark is a standard boundary reference post set in a drill hole in a boulder 10 by 10 feet and 4 feet high.

Reference mark is a drill hole in a tent-shaped boulder on the shore SW of the station. Boulder is 5 by 5 feet



showing 4 feet above ground, distant 8.45 feet.

REFERENCE MONUMENT 41-46 (New Brunswick, York County; H.C.O. Clarke, 1917; N.W.S., 1946; 1955)--On the E shore of Grand Lake, about 650 meters SE of Balm of Gilead Point at the S entrance to Robinson Cove. The station is on the sloping face of the more southerly of two large granite boulders. This sloping face is almost square and nearly 3 meters across.

Station mark is a cross cut in the shank of a standard boundary reference post broken off about flush with surface of the rock. The figures 41 are cut into the rock on the lake side of the shank.

REFERENCE MONUMENT 42-46 (Maine, Aroostook County; H.C.O. Clarke, 1917; 1946; 1955)--On the SW corner of the most southerly of the "Five Islands" in Grand Lake. It is on a large rock whose top is triangular in shape with the long point pointing toward the island. The sides of the triangular top are, respectively, 2.3 meters, 3.7 meters, and 4.8 meters in length.

Station is 3 feet outside the shoreline at high water.

Station mark is a standard boundary reference post set in a drill hole in the rock.

Reference mark 1 is a drill hole in a triangular rock 12 feet on a side and 6 feet above water on the shore N of station.

Reference mark 2 is a drill hole in a tent-shaped rock 6 by 5 feet showing 3 feet above ground on the shore E of the station.

Object	Distance	Direction
REFERENCE MONUMENT 44	feet	0° 00' 00" 0
R.M. 1	93.42	138 01 24
R.M. 2	27.00	206 39 11

NORM (Maine, Aroostook County; N.W. Smith, 1946; 1955)--On a solid rock 5 feet in diameter and 1 foot above high water, 20 feet S of the vegetation on the long slim Work Point at the E side of Work Cove on W side of Grand Lake. It is about halfway from the vegetation to the S rock off the point showing at high water.

Station mark is an I.B.C. bronze disk cemented in a drill hole in the rock.

Reference mark is a drill hole in a rock 6 by 5 feet and 2 feet high on the W side of the point, 38.45 feet distant.

REFERENCE MONUMENT 43-46 (Maine, Aroostook County; H.C.O. Clarke, 1917; 1946; 1955)--On a rock with a ridge-shaped top 4 feet long, on the W side of Work Cove, opposite Work



Point, on the W side of Grand Lake. It is about 12 feet inshore from high water which reaches the base of the rock containing the station. A huge triangular boulder 8 feet high is in the edge of the water, 25 feet S.

Station mark is a standard boundary reference post set in a drill hole in the rock.

REFERENCE MONUMENT 44-46 (New Brunswick, York County; J.E. McGrath, 1911; 1917; N.W.S., 1946; 1955)--About 30 feet E of the W end of Hayes Point on the E side of Grand Lake. It is on a rock 20 by 20 feet and 6 feet high at the edge of the sand beach on the N side of the point, and 10 feet E of a 24-inch pine tree on the point.

Station mark is a standard boundary reference post set in a drill hole in the rock.

Formerly "HAYES POINT", Hergeshiemer, 1890.

WORK (Maine, Aroostook County; J. Hergeshiemer, 1890; 1917; 1946; 1955)--On the most southeasterly point of the peninsula between Work Cove and Little River Cove of Grand Lake. The point of the peninsula is known as Norway Point. The station is on a boulder which is 5 meters, by 4 meters and 2.5 meters high, and is the largest boulder outside the tree line on the point. Station rock is about 100 feet outside the timber line, 50 feet offshore at high water, and about 3 feet above high water.

Station mark is a small I.B.C. bronze disk set in a drill hole, within a triangle cut in the rock. There are eyebolts in the rock.

LITTLE RIVER POINT (Maine, Aroostook County; J. Hergeshiemer, 1890; 1946; 1955)--On the most southeasterly point of the peninsula between Little River Cove and Dark Cove of Grand Lake. The peninsula ends in a double point with a small cove between the two parts. The E point, on which the station is located, is called Little River Point; the W point across the cove is known as Birch Point. The station is on a distinctive triangular boulder whose length is 3.1 meters, mean width 1.5 meters, height 1.4 meters, and is just outside the tree line on the point. At high water the rock is 30 feet offshore and only 8 inches above water. The eyebolts are all under high water from one to two feet.

Station mark is a small I.B.C. bronze disk set in a drill hole, within a triangle cut in the rock.

B.M. 437 (Maine, Washington County; H.C.O. Clarke, 1917; 1946; 1955)--This bench mark is at Butterfield Landing on the W side of Grand Lake, 50 feet inshore from high water line and the edge of vegetation, and 30 feet S of the road to the lake from the main Danforth-Houlton Road. The station



is 50 feet N of the first house S of the lake road, in a dome-shaped rock about  $2\frac{1}{4}$  feet in diameter and 1 foot high. A large pointed rock 8 by 10 feet and 5 feet high is 25 feet N near edge of road and a similar rock at edge of shore 60 feet SE. There are numerous rocks in the house lawn W of the bench mark.

Station mark is a bronze bench-mark disk set in a drill hole in the rock and stamped "U.S. & C.B. Survey B.M. 437".

REFERENCE MONUMENT 45-46 (Maine, Aroostook County; J.E. McGrath, 1911; 1917; 1946; 1955)--On the summit of a large boulder on the highest part of White Horse Reef in Grand Lake. This reef is covered by high water with a number of rocks projecting above the surface. Ice has moved the boulders so the reference monument now leans SW about  $15^{\circ}$ . Two of the three eyebolts are in rocks submerged at high water.

Station mark is a standard boundary reference post set in a drill hole in the boulder.

Formerly "WHITE HORSE", Hergeshiemer, 1890.

REFERENCE MONUMENT 46-46 (Maine, Aroostook County; J.E. McGrath, 1911; 1917; N.W.S., 1946; 1955)--On the SW shore of Grand Lake, about the center of the rounding point 1.1 miles SE of Meetinghouse Point. The station is on a dome-shaped rock 9 by 13 feet and 6 feet high and on the high water line just outside the trees on the point. Another boulder about the same size with a sloping face is E of the station and a smaller one just outside to the NW. There is one eyebolt in the rock.

Station mark is a standard boundary reference post set in a drill hole in the boulder.

Formerly "BLACK ROCK", Hergeshiemer, 1890.

REFERENCE MONUMENT 47-46 (Maine, Washington County; J.E. McGrath, 1911; 1917; 1946; 1955)--On the SW shore of Grand Lake, 0.7 mile NW of Greenland Point, and 1.3 miles SW of Billy and Nan Islands. The station is on the largest boulder along this shore, about 20 feet square and 12 feet high on the land side, the outer half sloping gradually toward the lake. There are 3 eyebolts for fastening guy wires.

Station mark is a standard boundary reference post set in a drill hole in the boulder.

The reference mark is a drill hole in center of a ridge-shaped rock 15 by 10 feet and 4 feet high, 6 feet inland, distant 27.79 feet.

REFERENCE MONUMENT 48-46 (New Brunswick, York County; J.E. McGrath, 1911; 1917; N.W.S., 1946; 1955)--On the NW point of Billie Island in Grand Lake, on a boulder whose base is about 20 feet square with a top 10 by 14 feet showing 2 feet



above high water. The only boulder outside the station is a large one with a pointed top 10 by 15 feet and 5 feet above high water, 20 feet N.

Station mark is a standard boundary reference post set in a drill hole in the boulder.

Reference mark 1 is a drill hole in a pointed boulder 6 by 6 feet in the center line of the island.

Reference mark 2 is a drill hole in a flat boulder 6 by 6 feet near the W side of the island.

Object	Distance	Direction
PEEKABOO MOUNTAIN	feet	0° 00' 00" 0
R.M. 1	51.915	188 16 00
R.M. 2	45.95	206 11 00

Formerly "NAN", Hergeshiemer, 1890.

PEMBERTON RIDGE (U.S.C. & G.S.) (New Brunswick, York County; C.H. Boyd, 1889; 1911; 1946)--On the open top of Pemberton Ridge, located  $\frac{3}{4}$  mile E of the head of Big English Cove,  $2\frac{1}{2}$  miles N of Forest City, N.B., and  $\frac{3}{16}$  mile W of the road leading N from Forest City. It is on land belonging to John H. Higgs and 200 feet N of the rail fence on his S line. The station is about 150 feet S of the highest point of the ridge, on pasture land, with a few oak and spruce trees near the fence S of the station.

Station mark is a U.S.C. & G.S. bronze station disk wedged in a drill hole in outcropping rock ledge. Three eyebolts are in the ledge.

A cross within a triangle is cut in the outcropping ledge, 8.12 meters distant.

PEMBERTON ECC. 1 is at the N end of the Higgs pasture, 2 meters S of the N fence and midway between the lone tree W and the nearer of the two trees E along the fence. Marked only by a wooden hub.

ECC. 2 is a drill hole in a pointed rock S of the station, about 18 inches in diameter and 18 inches high, about 10 feet N of the S line fence, and 36.803 meters from center.

ECC. 3 is a G.S. of C., reference bronze disk wedged in a drill hole in an outcropping ledge about 10 feet N of the S line, 116.61 feet S of center, 23.72 feet W of ECC. 2, and a little E of an oak tree near the fence.

HALEY (New Brunswick, York County; J.E. McGrath, 1911; 1946; 1955)--On Haley Point on the E side of Grand Lake. This point on the W side of Haley Cove terminates in two distinct points with a small cove between them. The station is off the more westerly of the two points, on a flat-topped rock about 13 by 19 feet and 4 feet high, with the top 1 foot under high water. It is about 500 feet NW from the center of the mainland at the upper end of the point at high water. Among



other boulders showing at high water is one about same size and 5 feet out of water, distant 75 feet outside the station and two just inside.

Station mark is a standard I.B.C. bronze disk set in a drill hole inscribed in a triangle cut in the boulder.

Reference mark 1 is a drill hole in a large boulder projecting 4 feet above the water, NE of station.

Reference mark 2 is a G.S. of C., reference disk in a drill hole in ridge-shaped boulder 10 by 22 feet showing 4 feet above high water, SE of station.

Object	Distance	Direction
REFERENCE MONUMENT 51	feet	0° 00' 00" 0
R.M. 1	76.78	250 47 05
R.M. 2	28.33	307 31 05

GREENLAND POINT (Maine, Washington County; J. Hergeshiemer, 1890; 1917; 1946; 1955)--At high water is 60 feet outside the vegetation on the rocky N point of Greenland Island in SW Grand Lake. Station is on a sloping boulder nearly 20 feet in diameter and 7 feet high on W side. The W side is 18 inches above high water and E side about a foot under water with the station on high water line. There are 3 eyebolts in the rock. A high boulder is about 40 meters NW of the station.

Station mark is a bronze disk set in a drill hole within a triangle cut in the rock.

Reference mark 1 is a drill hole in a tent-shaped boulder 15 feet square and 5 feet high, near shore and SE of station.

Reference mark 2 is a drill hole in a flat sloping boulder 15 by 12 feet and 4 feet high, on the shoreline.

Object	Distance	Direction
REFERENCE MONUMENT 47	feet	0° 00' 00" 0
R.M. 1	77.20	239 09 30
R.M. 2	107.73	273 57 40

REFERENCE MONUMENT 49-46 (New Brunswick, York County; J. E. McGrath; 1911; 1917; 1946; 1955)--On an inconspicuous point on the E side of Grand Lake about a mile S of Haley Point. The station is on the outside boulder on the point, 10 feet offshore at high water, with two larger boulders on N side; the first about 8 feet in diameter and 7 feet high, leans against the station boulder; the second still larger and pointed at top is about 10 feet high. There are eyebolts in the rock.

Station mark is a standard boundary reference post set in a drill hole in the flat-topped boulder 7 by 8 feet showing 2 feet above high water.

Reference mark 1 is a drill hole in a cross inside a triangle cut into the high boulder 10 feet square showing 6 feet above high water.



Reference mark 2 is a G.S. of C., reference disk in a drill hole in a boulder 4 by 6 feet showing 2 feet above ground, 15 feet inland.

Object	Distance	Direction
REFERENCE MONUMENT 51	feet	0° 00' 00" 0
R.M. 1	12.01	177 38 30
R.M. 2	44.13	285 12 30

REFERENCE MONUMENT 50-46 (Maine, Washington County; H.C.O. Clarke, 1917; 1946; 1955)--About 150 feet W of the most prominent of the small points on the rounding shoreline on the SW side of Grand Lake, W of the N end of Manley Island, and about 0.9 mile E of Greenland Point. The station is on the top of a pear-shaped boulder, whose base is about 12 feet in diameter and whose top is 7 feet above high water. A boulder about the same size and 4 feet high connects the station boulder with the shore at high water, with no rocks outside the station. There are two eyebolts in the boulder.

Station mark is a standard boundary reference post set in a drill hole in the boulder.

Reference mark is a drill hole in a square-faced boulder projecting from beneath tree roots on the shoreline, distant 20.50 feet.

REFERENCE MONUMENT 51-46 (Maine, Washington County; J.E. McGrath, 1911; 1917; N.W.S., 1946; 1955)--On the W shore of Grand Lake, opposite the N end of Manley Island, on a small rounded point 1.7 miles below Greenland Point. It is on a boulder, about 14 by 19 feet, whose top is 3 feet above high water which surrounds the rock. It is 100 feet S of the extreme point on which is a large pointed boulder. Station is opposite the S end of an open log landing about 75 feet wide.

Station mark is a standard boundary reference post set in a drill hole in the rock. There are three eyebolts in the rock.

The reference is a G.S. of C., reference disk set in a drill hole in a rock directly inshore having small trees growing on it, distant 20.44 feet W.

Formerly "ROUND ROCK", Hergeshiemer, 1890.

REFERENCE MONUMENT 52-46 (New Brunswick, York County; H.C.O. Clarke, 1917; N.W.S., 1946; 1955)--On the W shore of the Canadian point just N of Manley Island and about 100 meters N of the end of the point. It is on a large granite boulder whose face toward the lake is 1.2 meters high. The boulder is 3.7 meters long N and S, 1.5 meters wide E and W, and is surrounded by evergreen trees. The station is 28 feet from high water and the base of the rock 6 feet above high water.

Station mark is a standard boundary reference post set in a drill hole in the boulder.



**TONGUE** (Maine, Washington County; J.E. McGrath, 1911; 1917; 1946; 1955)--On a rock in the water off the long narrow point called Tongue Point or "Tongue of the Arm" in Grand Lake. The rock is about 4 meters by 3 meters and 2 meters high. The rock is the most northerly along the continuous rocky reef at high water, with several other rocks showing 150 feet farther N. There are 3 eyebolts in the rock which is about 250 meters off the point at high water.

Station mark is a bronze disk set in a drill hole surrounded by a triangle cut in the rock.

**NARROWS** (Maine, Washington County; J.E. McGrath, 1911; 1918)--This station is in the Narrows at the N end of Manley Island. It was destroyed by blasting in 1918.

**REFERENCE MONUMENT 53-46** (Maine, Washington County; N.W. Smith, 1918; 1946; 1955)--On the E shore of Manley Island in Grand Lake, about 75 meters S of the N end of the island, and about 100 feet below the end of the trees on the island. It is 1 foot from the N end of a boulder 5 by 8 feet and 3 feet high on the tree line.

Station mark is a standard boundary reference post set in a drill hole in the boulder.

**SPIT** (New Brunswick, York County; N.W. Smith, 1946)--On the sand spit at the SE point of the peninsula on the N side of the Narrows on E side of Grand Lake. It is 8 feet outside the timber line on extreme point. Station is unmarked.

Reference mark 1 is a G.S. of C. reference disk set in a drill hole in a conical rock projecting 1 foot above ground at the timber line on the W side of the point. O.K. in 1955.

Reference mark 2 is a drill hole in a leaning rock 2 by 2 feet and 3 feet high at timber line on the E side of the point. O.K. in 1955.

Object	Distance	Direction
REFERENCE MONUMENT 54	feet	0° 00' 00" 0
R.M. 1	71.73	225 16 45
R.M. 2	91.15	293 17 45

**REFERENCE MONUMENT 54-46** (New Brunswick, York County; H.C.O. Clarke, 1917; N.W.S., 1946; 1955)--On the E shore of the bay extending N from the outlet of Grand Lake and a mile from this outlet, and across the bay from the Narrows. It is on the largest granite boulder on the shore in the vicinity, diamond-shaped at the base, about 9 feet on a side, with a ridge-shaped top 5 feet above the beach, and is about the center of a rounding point. About on tree line.

Station mark is a standard boundary reference post set in a drill hole in the boulder.



**MANLEY** (Maine, Washington County; N.W. Smith, 1946; 1955)--On a bar covered by 3 feet of water at high water. At low water, the station is 50 feet from the outer or SE end of the long sand spit extending in an arc toward Forest City from the S end of Manley Island. The center of the sand spit on the SE end of the point above the Narrows is just visible past the E side of Manley Island.

Station mark is an I.B.C. bronze station disk set in a drill hole in rock embedded in the sand, 1 by 1½ feet showing 4 inches above the sand, among similar rocks on the highest point of the bar.

**TINK** (New Brunswick, York County; N.W. Smith, 1946; 1955)--On the W or middle prong of the prominent point on the E shore of the bay of Grand Lake at Forest City, about a thousand feet N of Foster Island. It is 40 feet outside the tree line, 100 feet N of the trees on the extreme point, and probably covered by high water. There is a large, high ridge-shaped rock 70 feet N.

Station mark is an I.B.C. station disk set in a drill hole in a flat boulder 7 by 11 feet and 18 inches high.

**FOSTER** (Maine, Washington County; N.W. Smith, 1946; 1955)--On the N shore of Foster Island, in the edge of the bushes 75 feet E of the end of the vegetation on the NW corner of the island.

Station mark is a G.S. of C. reference disk set in a drill hole in a triangular rock 7 by 7 and 4 feet on its sides and 2 feet high.

Object	Distance	Direction
REFERENCE MONUMENT 53	feet	0° 00' 00" 0
REFERENCE MONUMENT 55	105.45	204 09 56
CAMP	176.92	229 06 06

**REFERENCE MONUMENT 55-46** (Maine, Washington County; H.C.O. Clarke, 1917; N.W.S., 1946; 1955)--On the NE shore of Foster Island just outside the line of bushes, about 200 feet SE of the end of vegetation on the NW corner of the island. The station is on a large triangular granite boulder, the largest on the shore, about 8 by 13 feet and 5 feet high with an irregular top, and a slightly smaller rock leaning against it on the W side.

Station mark is a standard boundary reference post set in a drill hole in the boulder.

**CAMP** (Maine, Washington County; H.C.O. Clarke, 1917; 1946; 1955)--On the line between the open field in the center of Foster Island in Grand Lake off Forest City and the bushes along the NE side of the island. There is a large cedar tree in a group of cedars 15 feet W. The station is on a small



rock outcrop only a foot square and slightly lower than the surrounding earth, and is 28.4 meters S of REFERENCE MONUMENT 55. There are more rocks a few feet inshore.

Station mark is a small U.S. & C.B. Survey bronze disk set in a drill hole in the rock.

**BLUFF** (U.S.C. & G.S.) (Maine, Washington County; J. Hergeshiemer, 1890)--On the N end of a small island in the S arm of Grand Lake, about  $\frac{1}{8}$  mile from its W shore, and about  $\frac{3}{4}$  mile to the SE of Robinsons Basin. A still smaller island called Loons Nest lies about 250 meters SE of the station. The station is marked by a drill hole within a triangle cut in the rock.

**HEDGE** (U.S.C. & G.S.) (Maine, Washington County; J. Hergeshiemer, 1890)--On a point of the W shore of the S arm of Grand Lake, abreast of and about 50 meters distant from an island, and about  $\frac{1}{3}$  mile N by W from the entrance to Robinsons Basin. The station is marked by a drill hole within a triangle cut in the rock.

#### VICINITY OF FOREST CITY

**FOREST** (Maine, Washington County; N.W. Smith, 1946)--On the NE slope of Walls Hill,  $\frac{3}{4}$  mile S of Forest City, and directly up the hill from the home of the owner, Mr. Aleck Wall. It is about 100 feet outside the tree line, in a small rocky depression extending from the point of woods toward the house, and 50 feet S of the fence on the S side of the pasture on N slope of the hill, which fence extends from the point of woods nearly to the farm buildings. It is about on line with the S point of Manley Island and Nan Island in Grand Lake.

Station mark is an I.B.C. bronze station tablet wedged in a drill hole in the largest rock near the woods, 9 by 5 feet and 3 feet high, with numerous smaller rocks nearby. The only larger rock on the slope is over a hundred meters toward the farm buildings.

**LARK** (New Brunswick, York County; N.W. Smith, 1946; 1955)--In an open meadow, 6 feet W of the line of rocks in the old stone wall on W side of the road leading N from Forest City, and about  $1\frac{1}{4}$  miles N of the Customs House there. The station is 15 feet S of the line of a fence leading from the road E to Mud Lake. A 12-inch maple is 15 feet NE on the line of the old wall. In 1955 stump only remained of the tree, station a little south of a bend in the road.

Station mark is an I.B.C. station disk set in a drill hole in an embedded rock 1 foot diameter nearly flush with ground.



Reference mark is a G.S. of C. reference disk set in a drill hole in a rock 5 by 7 feet and 18 inches high, 65.40 feet W in the open field.

LEA (New Brunswick, York County; N.W. Smith, 1946; 1955)--In an open hayfield, 40 feet W of the top of the slope W of Mud Lake.

To reach the station, proceed N about a mile from the Customs House in Forest City to a point about 500 feet beyond the last house on the E side of the road, then proceed E directly toward Mud Lake. There is a stone pile 50 feet NE of station, a stone-and-wire fence 120 feet S, a large rock about 100 feet W, and a large circular grove of trees 400 feet N in the next field.

Station mark is an I.B.C. tablet set in a drill hole in a rock 2 by 3 feet and 1 foot high.

Reference mark 1 is a drill hole in a sloping rock with a flat top 6 by 5 feet and 2 feet high, W of station.

Reference mark 2 is a drill hole in outcropping rock 1 foot high on the S side of the stone pile NE.

Object	Distance	Direction
GIB	feet	0° 00' 00" 0
R.M. 1	101.94	211 15 50
R.M. 2	54.10	351 13 15

WALLS HILL (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1888; 1946)--Near the NW corner of an old field, now partly wooded, on the highest part of Walls Hill, about  $\frac{3}{8}$  mile from the S arm of Grand Lake, and  $1\frac{1}{4}$  miles S of Forest City. This open field originally extended from the road to the top of the hill. The station is about 65 feet NW of the S line fence of the property, at its junction with a rail fence leading S.

Station mark is an I.B.C. bronze station disk wedged in a drill hole within a triangle cut in a rock projecting a foot above the ground. A 3-foot cairn was built over the station and the iron pipe originally used over the station is leaning on the cairn.

WALLS HILL NORTH (U.S.C. & G.S.) (Maine, Washington County; J. Hergeshiemer, 1890; 1946)--On the E slope of Walls Hill,  $1\frac{1}{2}$  miles SE of Forest City, Maine, and  $\frac{1}{2}$  mile E of WALLS HILL. The station is about 500 feet S of the large evergreen grove on the E slope of the hill, near its E end; in an old field now partly covered by small fir and maple trees. 20 feet WNW is a 5-inch balsam, the largest tree growing in the old field.

Station mark is an I.B.C. bronze station disk wedged in a drill hole within a triangle cut in a dark, rough triangular rock 3 feet on a side and 4 inches high.



**SPRUCE MOUNTAIN** (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1888; 1946)--On the summit of Spruce Mountain, about  $\frac{5}{8}$  mile W by S of the head of Spruce Mountain Cove of Spednik Lake, and  $1\frac{1}{2}$  miles SE of the head of the S arm of Grand Lake. It is 20 feet W of the top of the steep slope to Spednik Lake, near the NW end of the ridge extending 400 feet SE toward Vanceboro. The rocky summit around the station has a grove of spruce trees and drops off 100 feet about 20 feet W of the station. The ridge drops to the N about 100 feet from the station. An overturned tower is SW of the station.

Station mark is a drill hole within a triangle cut in the rocky ledge. A cairn is built over the station.

**MARSH** (New Brunswick, York County; N.W. Smith, 1946; 1955)--At the W edge of Forest City, New Brunswick, about 500 feet N of the outlet of Grand Lake, and 20 feet inside the line of bushes and trees on a narrow bank along the E shore of Grand Lake. The station is on a rock 8 feet square, sloping from 2 feet high on the E to the ground level on the W, in dense marsh grass.

Station mark is an I.B.C. bronze station disk in a drill hole in the rock.

**REFERENCE MONUMENT 56-46** (Maine, Washington County; A.J. Brabazon, 1912; 1917; N.W.S., 1946; 1955)--About 10 feet W of the extreme SW end of the dam at the outlet of Grand Lake, near Forest City, Maine.

Station mark is a standard boundary reference post set in a drill hole in a rock 10 by 5 feet and  $2\frac{1}{2}$  feet high, between the end of the dam and a large tree.

**REFERENCE MONUMENT 57-46** (New Brunswick, York County; H.C.O. Clarke, 1917; N.W.S., 1946; 1955)--In Forest City, New Brunswick, 60 feet S of the road leading to Grand Lake where Clark's sawmill was, and NE of and in line with the dam across the outlet of Grand Lake. It is near the N side of an open field, among a group of boulders with bushes growing among them.

Station mark is a standard boundary reference post set in a drill hole in a diamond-shaped granite boulder 2 feet high whose sides measure 4, 4, 4 and 3 feet.

**RUIN** (New Brunswick, York County; N.W. Smith, 1946; 1955)--In an open field in the W part of Forest City, New Brunswick, on the S side of the road leading to Grand Lake where Clark's sawmill was. It is 75 feet S of the trees along S side of the road, 125 feet E of the bushes along the W, or lake, side of the field, and 10 feet E of the beaten path leading across the field from the road to the dam across the outlet of Grand Lake.



Station mark is an I.B.C. bronze station mark in the most prominent rock in this part of the field, a ridge-shaped, light-colored rock 3 by 3 feet and 1½ feet high.

Object	Distance	Direction
FOREST	feet	0° 00' 00" 0
FOREST CITY CHURCH		
SPIRE		17 44 34.0
REFERENCE MONUMENT 57	156.865	272 46 56.5
FIELD	255.855	273 11 19.0

FIELD (New Brunswick, York County; H.C.O. Clarke, 1917; 1946; 1955)--In the NE corner of an open field in the W part of Forest City, N.B., 50 feet S of the old road to Grand Lake, 100 feet E of the place the newer road to the lake near Clark's sawmill leaves the old road, and about 1,000 feet W of the main road from Forest City north. It is 6 feet outside the trees along S side of road, with bushes growing in the vicinity.

Station mark is a G.S. of C. bronze reference disk set in a drill hole in a dome-shaped granite rock 20 inches in diameter and projecting 4 inches above ground. Arrow points to station RUIN.

REFERENCE MONUMENT 58-46 (New Brunswick, York County; H.C.O. Clarke, 1917; N.W.S., 1946; 1955)--On the Canadian shore of the stream connecting Grand and Mud Lakes and midway between the dam at the outlet of Grand Lake and the highway bridge across the stream at Forest City. The station is on a large split rock locally known as Muskrat Rock. The top part is pinned to the lower part with two iron pins, each 1 inch in diameter and 25 inches long. The top of the rock is approximately 1.5 and 2.7 meters in cross section. Station is at water's edge, in a bay, 300 feet downstream from the bend in the stream below the dam.

Station mark is a standard reference post set in a drill hole in the rock.

FOREST CITY CHURCH SPIRE (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1889; 1917; 1946; 1955)--On the N side of the main road leading W from the bridge over the outlet of Grand Lake and 100 meters distant from it.

Station mark is the top spire; gilt martin vane.

FOREST CITY BAPTIST CHURCH SPIRE (New Brunswick, York County, H.C.O. Clarke, 1917; 1946)--Spire gone, lost.

INTER (Maine, Washington County; N.W. Smith, 1946; 1955)--About 2.945 feet W of the outside (E) edge of the wooden rail on the International Bridge across the river at Forest City, and 9.39 feet from the inner S corner of the concrete floor beam on the downstream side of the bridge.



Station is unmarked but the site can be recovered from above measurements and distances to boundary bridge tablets given below. These tablets are I.B.C. bronze boundary disks set in drill hole in the concrete beams, one on each side of the floor of the concrete bridge.

Object	Distance	Direction
REFERENCE MONUMENT 58	feet	0° 00' 00.0
FOREST CITY WEST		
BRIDGE TABLET	28.925	27 39 07.5
FOREST CITY EAST		
BRIDGE TABLET	17.355	74 29 53.7
REFERENCE MONUMENT 59	204.65	146 42 36.8
FOREST CITY CHURCH		
SPIRE		310 06 26.4

FOREST CITY (West Bridge tablet) (Maine, Washington County; New Brunswick, York County; J. Hill, 1939; 1946; 1955)--Marked by a 3 inch I.B.C. brass boundary marker set on the boundary line in a drill hole in the concrete curb on the west side of the bridge across Forest Stream between Forest City, Me., and Forest City, N.B.

FOREST CITY (East Bridge tablet) (Maine, Washington County; New Brunswick, York County; J. Hill, 1939; 1946; 1955)--Marked by a 3 inch I.B.C. brass boundary marker set on the boundary line in a drill hole in the concrete curb on the east side of the bridge across Forest Stream between Forest City, Me., and Forest City, N.B.

BRABAZON 2 (New Brunswick, York County; A. J. Brabazon, 1912; 1946; 1955)--In Forest City, N.B., 6 feet S of the E-W Mud Lake Road, about 220 feet W of the main N-S road through Forest City, 8 feet NE of some flowering bushes, and NW of the NW corner of Mrs. Hamilton's boarding house.

Station mark is a small bronze station disk set in a drill hole in a small rock about a foot in diameter, projecting about 6 inches above ground.

BRABAZON 1 (New Brunswick, York County; A. J. Brabazon, 1912; 1946; 1955)--In Forest City, N.B., 9 feet N of the foot trail on the old road to Mud Lake, about 336 meters E of its intersection with the main road leading N from the Customs House. Station is 12 feet S of the N road fence, 50 feet W of the highest ground along the trail, and 20 feet NW of a 20-inch pine tree on the S side of the trail, the largest tree in the vicinity.

Station mark is a 3-inch bronze station disk set in a drill hole in a rock 3 feet in diameter and 2 feet high.

REFERENCE MONUMENT 59-46 (New Brunswick, York County; H. C. O. Clarke, 1917; 1946; 1955)--About 8 feet above and 10 feet N of



the main part of the stream connecting Grand and Mud Lakes at the place where, when the stream is high, a small branch leaves the main stream on the N, flowing across the base of the peninsula upon which the monument stands and about 200 feet below the International Highway Bridge.

Station mark is a standard boundary reference post set in a drill hole in a large outcropping rock ledge.

REFERENCE MONUMENT 60-46 (Maine, Washington County; H.C.O. Clarke, 1917; 1946; 1955)--On the S shore of the stream connecting Grand and Mud Lakes, about midway between the lakes, and about 120 meters below the highway bridge across the stream at Forest City. A canal separates the land on which the monument stands from the mainland. Station is 12 feet S of the main stream and 6 feet N of the high bank along the canal.

Station mark is a standard boundary reference post set in a drill hole in a triangular-shaped rock outcrop 4 feet on a side and 2 feet high.

REFERENCE MONUMENT 61-46 (New Brunswick, York County; H.C.O. Clarke, 1917; 1946; 1955)--In dense alders 50 feet N of the stream connecting Grand and Mud Lakes, opposite the large triangular island in the stream. Station is 200 feet S of the road from Forest City, N.B., to Mud Lake, and 50 feet S of the open pasture land.

Station mark is a regular boundary reference post set in a drill hole in a rock 4 by 5 feet and 1½ feet high, 208.07 feet S of BRABAZON 1.

TASS (Maine, Washington County; N.W. Smith, 1946; 1955)--In the open ridge SE of Forest City, S of the large triangular island in Forest stream, 1,500 feet E of the highway S from Forest City, and 700 feet SW of Forest Stream at the first bend above Mud Lake. Station is 40 feet W of the top of the ridge, 1,500 feet S of the N end of the ridge near the stream, 200 feet N of the highest point of the ridge. There is a rock 8 by 4 feet and 2 feet high in a small depression at the edge of the woods S of the station. Another rock 4 by 2.5 feet and one foot high with a rounding top is 5 feet SE. Station is 25 feet NW of two sets of twin spruce trees and 25 feet W of one set of twin spruce trees.

Station mark is an I.B.C. bronze station tablet set in a drill hole in a rock 2 by 3 feet and about flush with the ground.

TASSEL (Maine, Washington County; A.J. Brabazon, 1912; 1917; 1946)--On the open ridge 28.8 feet E of TASS. It was marked originally by a wooden hub, only a small piece of which remained in 1946. Unmarked.



REFERENCE MONUMENT 62-46 (Maine, Washington County; H.C.O. Clarke, 1917; 1946; 1955)--About 60 feet S of Forest Stream, the outlet of Grand Lake, among ferns in a fairly open growth of birch and cedar trees in the big bend of the stream about 800 feet above Mud Lake. A line from the N end of the large triangular grassy island in the stream to the monument passes 30 feet E of a point of land on the U.S. shore between them.

Station mark is a standard boundary reference post set in a concrete base.

SUPERIOR SCHOOLHOUSE CHIMNEY (U.S.C. & G.S.) (New Brunswick, York County; C.H. Boyd, 1888)--In Forest City settlement, North Lake Parish, about  $\frac{1}{2}$  mile N of the bridge over the outlet of the lake, on the W side of road leading from Forest City over Skedaddle Bridge, and on top of the first hill. The station is the chimney at the E end of a one-story building.

#### MUD LAKE

REFERENCE MONUMENT 63-46 (New Brunswick, York County; H.C.O. Clarke, 1917; N.W.S., 1946; 1955)--In the edge of the timber on E side of the island in Mud Lake, on the N side of the mouth of the stream from Grand Lake.

Station mark is a standard boundary reference post set in a triangular rock whose sides are about 10, 10, and 7 feet, projecting nearly 4 feet above the ground.

REFERENCE MONUMENT 64-46 (Maine, Washington County; A.J. Brabazon, 1912; 1917; N.W.S., 1946; 1955)--On the E shore of Mud Lake, opposite the mouth of the river that connects Grand and Mud Lakes, and about 91 meters N of the "Joe Louie Carry" (portage) to Spednik Lake. The station is on an irregularly-topped split rock, in the bush, about 9 meters from the shore. Station is in edge of bushes.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock. A cross within a triangle is cut in a low rock 3.7 meters directly inland from the station; a second cross within a triangle is cut in a rock 3.4 meters to the S of the station; and a third cross within a triangle is cut in a large boulder 15.8 meters N and inland from the station.

REFERENCE MONUMENT 64 ECC (Maine, Washington County; N.W.S. 1946; 1955)--A drill hole in a flat rock 5 by 7 feet and 2 feet high, 15 feet outside the line of bushes on the E side of Mud Lake, 20 feet outside water line, and 48.67 feet SW of REFERENCE MONUMENT 64.



**CITY** (New Brunswick, York County; A.J. Brabazon, 1912; 1946; 1955)--On the W side of Mud Lake, about 50 feet from the lake, 25 feet inside the tree line, 60 feet S of the S fence line of old road from Forest City, N.B., to Mud Lake, and 15 feet N of the present road.

Station mark is a copper station disk in a drill hole in an embedded rock 1 by  $1\frac{1}{2}$  feet and 4 inches high. A cross within a triangle cut in a rock 16 inches high is on the S edge of the new road and is S of station 14.02 meters; a cross within a triangle cut in a rock flush with the ground is inland 2.94 meters; a cross within a triangle cut in a round-topped rock 5 feet high is NE 26.29 meters and is 25 feet outside the tree line among several large rocks.

**GOULD** (New Brunswick, York County; A.J. Brabazon, 1912; 1917; 1946; 1955)--On the W shore of Mud Lake, about  $\frac{1}{2}$  mile N of Forest City, on a prominent rounded point of the shoreline. The point is wooded and just N of a large field of stumps. The station is on a rock 2 by 1.4 meters on top and 1.2 meters high and is in edge of woods about 8 meters back from the shoreline, 20 feet inside bush line.

Station mark is a copper disk set in a drill hole in the rock. A cross within a triangle is cut on a small low rock 2.32 meters lakeward from the station. A cross within a triangle is cut on a low rock 2.72 meters directly inland from the station. The station is 0.21 meter S of a line drawn between the two crosses. Another cross within a triangle is cut on a rock 1 meter high, 21.79 meters N of the station.

**REFERENCE MONUMENT 65-46** (New Brunswick, York County; H.C.O. Clarke, 1917; N.W.S., 1946; 1955)--On the W shore of Mud Lake, on a prominent rounded point of the shoreline, 900 meters N of the mouth of the river connecting Grand and Mud Lakes. The station is on a ridge-shaped boulder whose base is about 2.7 meters square. The ridge of the boulder is 2.7 meters long and 1.2 meters high. The station is 10 feet inside the line of bushes, but just outside the tree line, 50 feet from the lake, 80 feet S of a point of trees, and about 110 feet S of a fence ending at the edge of the lake.

Station mark is a standard boundary reference post set in a drill hole in the boulder.

**DRY** (Maine, Washington County; A.J. Brabazon, 1912; 1917; 1946; 1955)--On the E shore of Mud Lake, about  $\frac{1}{4}$  mile NE of Forest City, at the foot of a steep bank just S of a prominent point of the shoreline. It is on a flat-topped rock 1.1 by 1.2 meters in cross section and 6 inches high at the edge of a clump of spruces, 15 feet from the lake.

Station mark is a 3-inch copper disk set in a drill hole in the rock. A cross within a triangle is cut on the



largest of a pile of rocks 3.47 meters lakeward from the station. Another cross within a triangle is cut on a low boulder on the shore 15.70 meters N of the station.

STAG (Maine, Washington County; A.J. Brabazon, 1912; 1917; 1946; 1955)--On the E shore of Mud Lake, about 0.8 mile N of Forest City, on the point just N of the largest bay on the United States side of the lake. The shore is very flat, with many boulders strewn over it and is sparsely covered with small trees. The station is 75 feet from the lake, 75 feet outside the woods. A huge ridge-shaped rock is 100 feet S of station which is on a trapezoidal rock with sides 6, 8, 10 and 12 feet, and 5 feet high. There are 3 holes for guy wires drilled in the rock.

Station mark is a 3-inch copper disk set in a drill hole in the irregularly-shaped rock. A cross within a triangle cut in a low flat rock is 5.29 meters lakeward from the station. A cross within a triangle is cut on a low round-topped rock 8.64 meters N of the station. The station is 0.85 meter E of a line drawn between these two crosses. Another cross within a triangle is cut on a low round-topped rock 7.38 meters directly inland from the station.

REFERENCE MONUMENT 66-46 (Maine, Washington County; A.J. Brabazon, 1912; 1917; 1946; 1955)--On the E shore of Mud Lake, about 0.9 mile N of Forest City. The shore in the vicinity is very rocky and the station is on a split rock that is 32.9 meters S of the line fence between the farms of Harvey Boone and George Boone produced across the lake. Station is 50 feet N of the place where the ledge emerges from the lake to form a point and 20 feet back from the lake, in the edge of the trees.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock. A cross within a triangle is cut in a large, low rock 8.4 meters lakewards from the station. A cross within a triangle is cut in a large, low, flat rock 8.4 meters N of the station. A cross within a triangle is cut in a large boulder just inside the tree line 8.2 meters S of the station. The station is 0.4 meter W of the line joining the last two crosses.

SOUTH BASE (New Brunswick, York County; A.J. Brabazon, 1912; 1946; 1955)--On the W shore of Mud Lake, about 0.7 mile N of Forest City. It is about 15 meters from the shore, in Harvey Boone's pasture, 45 feet inside the grass line, on a jagged rock 20 feet from a small clump of cedars.

Station mark is a copper disk set in a drill hole in a rock 2.4 by 1.5 meters in cross section and 0.7 meter high. A cross within a triangle is cut on a large boulder 5.31 meters directly inland from the station. A cross within a triangle is cut on each of two low rocks, respectively, 3.44 and 2.71 meters N of the station.



**NORTH BASE** (New Brunswick, York County; A.J. Brabazon, 1912; 1946; 1955)--On the W shore of Mud Lake, about 0.9 mile N of Forest City. It is on a large white rock 1.8 meters high at the lake end of a crooked fence on the farm of Harvey Boone and is 83 meters S of the line fence between the farms of Harvey Boone and George Boone. It is in pasture land 50 feet N of a fence ending at lake and 30 feet from the lake, just inside the bushes.

Station mark is a copper disk set in a drill hole in the rock. A cross within a triangle is cut on a small rock near the fence 5.25 meters inland from the station. Another cross within a triangle is cut in a rock in line with the fence 13.70 meters lakeward from the station. The station is 1.89 meters S of the line joining these two crosses. A cross within a triangle is cut on a rock 7.28 meters S of the station. Second reference in water in 1955.

**BUTTER** (Maine, Washington County; A.J. Brabazon, 1912; 1917; 1946; 1955)--On the E shore of Mud Lake, about 1 mile N of Forest City. It is on the first rise of a ledge of rock about 7.6 meters high that is quite noticeable from the S and is opposite a large red barn on the opposite side of the lake.

Station mark is a copper disk set in a drill hole in the rock ledge. A cross within a triangle is cut in the rock 8.69 meters inland from the station. A cross within a triangle is cut in the rock 3.29 meters directly lakeward from the station. The station is 0.77 meter N of the line joining these two crosses. A cross within a triangle is cut in the rock 6.95 meters inland and S of the station.

**MILK** (New Brunswick, York County; A.J. Brabazon, 1912; 1946; 1955)--On the W side of Mud Lake, about 1 mile N of Forest City, and at the lower end of Harvey Boone's farm. It is on a triangular rock, 3 feet on a side with a rounding top  $1\frac{1}{2}$  feet above ground, firmly embedded in the ground. Station is in open pasture land 10 feet S of a fence ending at the lake, 30 feet E of a fence parallel to the lake, and 40 feet from the water.

Station mark is a copper disk set in a drill hole in the rock. A cross within a triangle cut in a boulder at the edge of the field is 9.38 meters directly inland from the station. A cross within a triangle is cut in a boulder 8.03 meters lakeward from the station. The station is 3.35 meters N of the line joining these two crosses. Another cross within a triangle is cut on a low flat boulder 5.67 meters S of the station.

**REFERENCE MONUMENT 67-46** (New Brunswick, York County; H.C.O. Clarke, 1917; 1946; 1955)--On the W shore of Mud Lake,  $1\frac{1}{4}$  miles N of the mouth of the river joining Grand and Mud Lakes. The station is on the timber line at the edge of extreme



high water, on a boulder 5 meters long and 1.5 meters high. Fifteen meters N of the station an area covered with boulders extends 30 meters out into the lake. Small cedar trees are growing on the station boulder on the lake side of the monument. A new camp and dock is 60 feet S of the monument.

Station mark is a standard boundary reference post set in a drill hole in the boulder.

BALDY (New Brunswick, York County; A.J. Brabazon, 1912; 1946; 1955)--At the water's edge on the W side of Mud Lake, about the middle of the narrow section of the lake, about 1.3 miles N of Forest City. It is 30 feet outside the tree line, on a triangular rock with sides 7, 10 and 8 feet and 2 feet high. A large boulder is in the water 40 feet offshore and a tall wedge-shaped rock with point up is 100 feet S.

Station mark is a copper disk set in a drill hole in the rock. A cross within a triangle is cut on a peaked rock 6.07 meters lakeward from the station. A cross within a triangle is cut on a low round-topped rock 4.97 meters shoreward and N of the station. The station is 0.7 meter S of the line joining these two crosses. Another cross cut in a low flat rock is 5.09 meters directly shoreward from the station.

GIB (Maine, Washington County; A.J. Brabazon, 1912; 1917; 1946; 1955)--On the E shore of Mud Lake, at the narrow section of the lake, about 1.3 miles N of Forest City. It is at the shoreline on a rock that is split on the S side, is about 5 by 3.5 meters in cross section and 2 meters high. Station is in edge of woods with a 12-inch pine growing against the rock on the shore side.

Station mark is a copper disk set in a drill hole in the rock. A cross within a triangle is cut in a boulder 6.60 meters northward and lakeward from the station. A cross within a triangle is cut on the inside part of a split rock on the tree line 11.33 meters S of the station. The station is 2.15 meters E of the line joining these crosses. Another cross within a triangle is cut in a low rock 3.23 meters inland from the station.

WAY (New Brunswick, York County; A.J. Brabazon, 1912; 1946; 1955)--At water's edge, on the W side of Mud Lake, 125 feet downstream from the point at the narrowest part of the lake, 40 feet upstream from a high rocky point, and 1.5 miles N of Forest City. It is on a rock about 12 feet square and 2 to 3 feet above the water. There are 3 holes drilled in the rock for guy wires.

Station mark is a bronze station disk set in a drill hole in the rock. The three reference marks are crosses inside triangles cut in rocks.



Reference mark 1 is in a rounded rock 12 by 6 feet and 6 feet high SW of station, at edge of woods.

Reference mark 2 is in a rock 15 by 7 feet and 3 feet high N of station, at water's edge.

Reference mark 3 is on a rock 8 by 8 feet and 3 feet high lakeward.

Object	Distance	Direction
GIB	feet	0° 00' 00.0
R.M. 1	33.40	93 58 05
R.M. 2	11.61	225 29 00
R.M. 3	12.06	316 54 30

**NARROW** (Maine, Washington County; A.J. Brabazon, 1912; 1946; 1955)--About 40 feet back from the E shore of Mud Lake, just below the narrowest point in the lake, about 1.5 miles N of Forest City. It is directly inshore from REFERENCE MONUMENT 68, about 25 feet outside the edge of trees, and 75 feet S of the timber on the extreme point. The station rock is 12 by 7 feet and 3½ feet high and contains 2 holes drilled for guy wires.

Station mark is a bronze disk set in a drill hole in the rock. A cross within a triangle is cut on a large peaked rock 2 meters high, 8.78 meters N of the station. A cross within a triangle is cut in a rock 3.69 meters lakeward from the station. A cross is cut in a low triangular rock 3.50 meters landward from the station. The station is 0.40 meter N of the line joining the last two crosses.

**REFERENCE MONUMENT 68-46** (Maine, Washington County; H.C.O. Clarke, 1917; 1946; 1955)--On a small island off the E shore of Mud Lake, about 500 meters S of the dam at the outlet of Mud Lake, and at the narrowest part of the lake. Triangulation station **NARROW** is on the mainland, a short distance to the E from the station.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in ledge rock.

**PEMB** (Maine, Washington County; A.J. Brabazon, 1912; 1917; 1946; 1955)--On the E shore of Mud Lake, about 400 meters S of the outlet of the lake. The station is on the edge of the pine bluff on the first point just S of the outlet and is on a rock about 2 meters long, with an average width of 1.2 meters and a height of 1.2 meters, behind the outer pine tree on the point.

Station mark is a bronze disk set in a drill hole in the rock. Shank only remained in 1946. A cross within a triangle is cut on each of two rocks to the S of the station; the one farther inland is 15.15 meters from the station; the other is 6.55 meters from the station. Another cross within a triangle is cut in a rock in the woods 6.75 meters N of the station. The station is 2.00 meters E of the line joining the last two crosses.



**TON** (New Brunswick, York County; A.J. Brabazon, 1912; 1946; 1955)--On the W side of Mud Lake, about 500 meters due SW of the outlet of the lake. It is on a rock about 12 meters from the tree line and is opposite the pine bluff on the E shore just S of the dam at the outlet of the lake. The rock is 5.8 by 3 meters, sloping toward the S, and is 1.2 meters high at the N side. Station is 10 feet outside the water line and the rock is the outermost rock on a small point.

Station mark is a bronze disk set in a drill hole in the rock. A cross within a triangle is cut in a rock 4.42 meters to the N of the station. Another cross within a triangle is cut in a rock 7.04 meters N by W from the station.

**GREEN** (New Brunswick, York County; A.J. Brabazon, 1912; 1946; 1955)--On the W shore of Mud Lake, opposite the dam at the outlet of the lake. It is about 10.5 meters from the edge of trees, on the largest rock in the vicinity. The rock is triangular in shape, with sides 3.0, 2.1, and 2.6 meters, respectively, and is 1.2 meters high. Station rock is at edge of water, 100 feet N of a point of trees, and has 3 drill holes in it for guy wires.

Station mark is a bronze disk set in a drill hole in the rock. Crosses within triangles are cut in two rocks W of the station, one at a distance of 16.94 meters and the other at a distance of 12.67 meters from the station.

**OLDGATE** (New Brunswick, York County; A.J. Brabazon, 1912; 1917; 1946; 1955)--On the E shore of Mud Lake, just above and N of the dam at the outlet of the lake. It is on a rock 2.7 meters high, with a flat triangular top about 3.3 meters on each side. The distance from the station to the dam at a point 26 meters N of the gate is 43.74 meters.

Station mark is a bronze disk set in a drill hole in the rock. A cross within a triangle is cut in the station rock 1.87 meters N of the station mark. A similar mark is cut in a rock 13.52 meters upstream from the station. There are three holes for guy wires drilled in the rock. The station is 18 inches from the S point of the triangular top of the rock.

**REFERENCE MONUMENT 69-46** (New Brunswick, York County; H.C.O. Clarke, 1917; 1946; 1955)--About 75 feet outside the shoreline on the W side of Mud Lake, opposite and a little N of the dam at the outlet of the lake. It is on the largest rock in the vicinity, about 7 feet square and 7 feet high and with a jagged top.

Station mark is a standard boundary reference post set in a drill hole in the rock.

**REFERENCE MONUMENT 70-46** (New Brunswick, York County; H.C.O. Clarke, 1917; 1946; 1955)--On E side of Mud Lake and N side of



its outlet. It is 10 feet N of the spillway at the entrance to the outlet and 10 feet below the dam.

Station mark is a standard boundary reference post set in a drill hole in a boulder shaped like a cube about 6 feet on a side.

REFERENCE MONUMENT 71-46 (Maine, Washington County; A.J. Brabazon, 1912; 1917; 1946; 1955)--On the E shore of Mud Lake, at the S end of the dam across the outlet of Mud Lake. It is on a big rock 1.5 meters below the dam.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock. Three crosses within triangles are cut in rocks near the station as follows: The first cross nearest the gate and below the dam is 5.6 meters distant; the second is below the dam 6.2 meters distant; and the third, below and close to the dam and farthest from the gate, is 3.7 meters distant from the station.

DRIVER (New Brunswick, York County; A.J. Brabazon, 1912; 1946; 1955)--On the N bank of the stream connecting Mud and Spednik Lakes, about 180 meters below the dam at the outlet of Mud Lake. It is on a ledge of rock that rises gently from the river and is 28.8 meters perpendicularly distant from the wing dam at a point 2.4 meters from its outer and lower end. It is 20 feet NE of the water in the part of the stream flowing around a small island on N side, 60 feet to the main stream to SE.

Station mark is a copper station disk set in a drill hole in the ledge 6 inches lower and 3 feet NE of the highest point of the ledge.

There are two crosses within triangles cut in the ledge. One of these is easterly from the station 0.91 meter with a drill hole beyond and nearly in line with it, 1.83 meters from the station. The other cross within a triangle is 3.24 meters down the slope from the station toward the upper end of the wing dam. There are two other drill holes in the ledge, the more northerly one  $\frac{1}{2}$ -inch deep and 4.26 meters distant and the other 3 inches deep and 3.23 meters distant.

RAPIDS (Maine, Washington County; A.J. Brabazon, 1912; 1946)--On the S side of the stream connecting Mud and Spednik Lakes, about 140 meters below the dam at the outlet of Mud Lake. It is on a rock about 1.5 meters high, about 3 meters off-shore in the river bed, and about 21 meters from the wing dam. Rock is hidden under the low branches of a birch tree.

Station mark is a copper disk set in a drill hole in the rock. A cross within a triangle is cut in a rock on shore 10.77 meters upstream from the station. A cross within a triangle is cut in a rock on shore 8.35 meters downstream from the station.



**SHADE** (Maine, Washington County; A.J. Brabazon, 1912; 1946)--On the S side of the stream connecting Mud and Spednik Lakes and about 250 meters below the dam at the outlet of Mud Lake. It is on a pointed rock projecting about  $\frac{1}{3}$  meter above the ground, on the river side of a path, 15 feet inshore from the top of the high bank of the river, and 25 feet from the water.

Station mark is a copper disk set in a drill hole in the rock. A cross within a triangle is cut in a pointed rock about 0.6 meter high, 23.44 meters inland and slightly upstream from the station. A cross only is cut in a sharp rock projecting  $\frac{1}{2}$  meter above the ground 12.77 meters inland and slightly downstream from the station.

**SALMON** (New Brunswick, York County; A.J. Brabazon, 1912; 1917; 1946)--On the NE bank of the stream connecting Mud and Spednik Lakes, about 300 meters downstream from the dam at the outlet of Mud Lake. It is on a large rock, near two other rocks, one on top of the other, the upper of which is 1.5 meters higher than the rock the station is on. It is 20 feet from the stream and 6 feet above it. There is an eye-bolt in the lower of the other rocks.

Station mark is a copper disk set in a drill hole in the rock. A cross within a triangle is cut in a rock 1.1 meters high, 4.98 meters inland and upstream from the station. A cross with in triangle is cut in a rock 0.7 meter high, 4.95 meters inland and slightly downstream from the station. A cross within a triangle is cut in the rock referred to as being on top of another, 1.82 meters riverward from the station.

**REFERENCE MONUMENT 72-46** (New Brunswick, York County; H.C.O. Clarke, 1917; 1946)--On the N bank of the river connecting Mud and Spednik Lakes, on the bend of the river about 300 meters below the dam at the outlet of Mud Lake. At the monument one can look downstream to dead water in the basin. The station is on top of a rock about 0.9 meter square, and is behind a large boulder which is directly on the shore and protects the station from drift or logs in high water.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock.

**MOUTH** (New Brunswick, York County; A.J. Brabazon, 1912; 1946; 1955)--On the E or Canadian side near the mouth of the stream connecting Mud and Spednik Lakes. It is on a rock about 2 meters long,  $1\frac{1}{2}$  meters wide, and  $\frac{1}{2}$  meter high, situated about 20 meters above the lower end of the path from Mud to Spednik Lake. A huge rock in the river just touching the shore is 17 meters from the station. A huge rock beside the path is 34 meters upstream from the station.



The station rock is 3 feet toward the stream from the second cottage and 18 feet upstream from the first cottage.

Station mark is a copper disk set in a drill hole in the rock. A cross within a triangle is cut in a rock 1 meter high, 10.65 meters inland, and E of the station. A cross within a triangle cut in a rock 0.6 meter high is 5.62 meters upstream from the station. A cross within a triangle is cut in a rock 1.5 meters high, 14.59 meters from the station, on a line that passes between the other two crosses.

REFERENCE MONUMENT 73-46 (New Brunswick, York County; H.C.O. Clarke, 1917; N.W.S., 1946; 1955)--On the E shore of the river connecting Mud and Spednik Lakes, near the mouth of the river. It is on a boulder 2 meters above the water, well out in the stream where the swift water and dead water come together. The boulder is by far the most prominent feature in the vicinity. Boulder is in the low-water line and 150 feet downstream from the cottages and the huge boulder near them.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the boulder.

REFERENCE MONUMENT 74-46 (Maine, Washington County; A.J. Brabazon, 1912; N.W.S., 1946; 1955)--On the W side of the mouth of the river that flows from Mud Lake into Spednik Lake. It is on a rock 2.1 meters long, 1.5 meters wide, and 0.9 meter high, which is close to the shore and S of and nearly opposite REFERENCE MONUMENT 73. The foot of the river-drivers' path is on the opposite shore about 75 meters distant. Station is in edge of trees and 50 feet upstream from the point of the timber.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock. Three crosses within triangles are cut in rocks at the following distances, respectively, from the station: 4.0 meters, 4.3 meters, and 2.6 meters.

#### SPEDNIK LAKE

REFERENCE MONUMENT 75-46 (New Brunswick, York County; A.J. Brabazon, 1912; 1917; N.W.S., 1946; 1955)--On the N side of the bay of Spednik Lake into which the river from Mud Lake flows. The station is on the end of a long point at the mouth of the river on the east side. Behind this point to the N is a dirty cove or bay full of driftwood. Station rock is 30 feet from bay to the S at low water, but is surrounded by high water, and is 125 feet E of the trees on the tip of the peninsula. A large rock with an irregular top is 75



feet SE near the point of the grass covering the point at low water.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a rock 4 meters long, 2.4 meters wide, and 1.5 meters high. Two crosses within triangles are cut in the rock; one upstream and inland 1.3 meters, and the other downstream and inland 1.1 meters from the station.

SOCKALEXIS (Maine, Washington County; A.J. Brabazon, 1912; 1946; 1955)--On the W side of the bay of Spednik Lake into which the river from Mud Lake flows. The station is on a rock 3.3 meters long, 2.7 meters wide, and 1.2 meters high and is about 228 meters below the mouth of the river and 21 meters back from the shore. The bay is much narrower at the station than it is a short distance below. The rock which is 40 feet inside the edge of trees and 100 feet upstream from the point of trees, was covered by 2 inches of roots, dirt, moss, etc., in 1946. This was removed, but will collect again.

Station mark is a bronze disk set in a drill hole in the rock. Two crosses within triangles are cut in rocks, one 3.55 meters downstream and inland from the station, and the other 4.57 meters inland and slightly upstream from the station.

REFERENCE MONUMENT 76-46 (Maine, Washington County; H.C.O. Clarke, 1917; 1946; 1955)--On the W shore of the bay of Spednik Lake into which the river from Mud Lake flows. The station is a short distance below the mouth of the river on a rock 22 meters back from the shore at low water, on the edge of trees. The rock is ridge shaped, parallel to the lake, 1.8 meters long and 1.2 meters high, perpendicular on the back side and sloping toward the lake on the front side. Station is opposite the trees on the extreme point on E side of the bay.

Station mark is a boundary reference post set in a drill hole in the rock.

BEGE (Maine, Washington County; N.W. Smith, 1946; 1955)--On the W side of the bay of Spednik Lake into which the outlet of Mud Lake flows. The station is opposite the S end of timber on the point between this bay and Northern Spednik Lake, 30 feet outside the tree line, 40 feet inshore from low-water line, and 148.425 feet downstream from REFERENCE MONUMENT 76. It is on the largest rock outside the tree line for quite a distance, 12 by 15 feet and 4 feet high.

Station mark is an I.B.C. bronze station disk in a drill hole in the rock.



HALO (Maine, Washington County; A.J. Brabazon, 1912; 1946; 1955)-- On the W shore of the bay of Spednik Lake into which the river from Mud Lake flows. It is just opposite the mouth of the bay, on a sloping rock in the water 23 meters from the shore. The rock is 5.8 meters long, 5.5 meters wide, and 1.4 meters high. Station is about 100 feet outside the edge of trees. A high pointed rock is 15 feet S.

Station mark is a drill hole in a cross cut in the top of the rock.

NOGO (Maine, Washington County; A.J. Brabazon, 1912; 1946; 1955)-- On the W side of the bay of Spednik Lake into which the river from Mud Lake flows. It is about 500 meters N of the S end of the bay, on a rock 7.3 meters long, 6.7 meters wide, and 3 meters high. A line produced from the station over the highest rock on the island-like part of the point at the mouth of the bay strikes Hamilton's cottage on the E shore of Pirate Cove. Station is on the low-water line, 50 feet outside the tree line, and 400 feet downstream from the prominent point opposite the outlet to the bay.

Station mark is a copper disk set in a drill hole in the rock. There are three crosses within triangles cut in the rock. The first is uplake 1.58 meters, the second is downlake and inland 1.80 meters, and the third downlake and lakeward 2.58 meters from the station.

BOB (New Brunswick, York County; A.J. Brabazon, 1912; 1917; 1946; 1955)-- On the E side of the bay of Spednik Lake into which the river from Mud Lake flows, on the bay side of the point on the N of the mouth of the bay. The station is on a rock 3.7 meters long, 3.4 meters wide, 1.5 meters high at the downstream end, and 0.5 meter high at the upstream end. Station is 125 feet SW of the trees on the point.

Station mark is a copper disk set in a drill hole in the rock. Two crosses within triangles are cut in the rock; one is lakeward, 1.12 meters distant and the other is bayward 1.06 meters distant from the station mark.

ALL (Maine, Washington County; N.W. Smith, 1946; 1955)-- About the center of the S side of the outlet to the bay of Spednik Lake into which the outlet of Mud Lake flows, 60 feet outside the tree line, and 40 feet S of the outlet at low water. Station is 2 feet under high water.

Station mark is a G.S. of C. bronze reference disk set in a drill hole in the flat rock, 10 by 5 feet and 2 feet high. There are higher rocks near low-water line N of the station. The arrow points to station HY-U in the woods 123.48 feet S.



HY-U (Maine, Washington County; A.J. Brabazon, 1912; 1946; 1955)--On the point in Spednik Lake that forms the S side of the mouth of the bay into which the river from Mud Lake flows. The station is 40 feet inside the woods, on a rock 2 meters wide, 3.5 meters long, and 1.5 meters high, with a higher rock 5 meters SW. Station is directly inshore from a 20-inch pine on the bank, the largest tree on the point, and is 123.48 feet S of station ALL.

Station mark is a bronze disk set in a drill hole in the rock. Three crosses within triangles are cut in the rock at the following distances from the station: 0.73, 0.73, and 1.14 meters.

BOOM (New Brunswick, York County; N.W. Smith, 1946; 1955)--On the W side of Spednik Lake, on the low-water line, on the E side of the point between the main lake and the bay into which the outlet of Mud Lake flows. It is about halfway between the outlet to this bay and the trees along Spednik Lake to the N, and about 400 feet E of the N end of the trees in the center of the point which are on an island at high water. A high, round-topped, light-colored rock is 300 feet S of the station.

Station mark is an I.B.C. bronze station disk set in a drill hole in a 22 by 12 foot boulder which slopes from 6 feet high near W end to 4 feet high at the E end.

REFERENCE MONUMENT 77-46 (New Brunswick, York County; A.J. Brabazon, 1912; 1917; 1946; 1955)--On the point at the N side of the entrance to the bay of Spednik Lake into which the river from Mud Lake flows. It is on the highest rock on the island-like part of the point. The rock is 4.9 meters long, 4.6 meters wide, and 1.8 meters high, surrounded by high water.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock. Three crosses within triangles are cut in adjacent rocks at the following distances, respectively, from the station: 8.2 meters, 4.5 meters, and 3.4 meters.

REFERENCE MONUMENT 78-46 (Maine, Washington County; A.J. Brabazon, 1912; 1917; 1946; 1955)--On the W shore of Spednik Lake, about 120 meters below the entrance to the bay into which the river from Mud Lake flows. It is on a rock 6 meters long, 5.5 meters wide, and 3.7 meters high at its greatest height. Station is 80 feet outside the edge of trees, which is on the high-water line, and is 80 feet W of low-water line.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock. Three crosses within triangles are cut in the rock; the first is 0.93 meter downstream, the second is 2.59 meters upstream



and inland, and the third is 1.86 meters upstream and lake-ward from the station mark.

NAUGHT (New Brunswick, York County; A.J. Brabazon, 1912)--Station unmarked.

SQUARE (New Brunswick, York County; N.W. Smith, 1946; 1955)--On the NW corner of the NE island of the group in Spednik Lake opposite the mouth of the bay into which the outlet of Mud Lake flows. It is on a square rock 8 feet on a side and 2 feet high sloping gently to the NW, just above low-water line, and 70 feet W of the point of trees on the island. Two huge triangular pyramidal rocks are at edge of low water 125 feet S of the station.

Station mark is an I.B.C. bronze station disk set in a drill hole in the rock.

Reference mark is a G.S. of C. bronze reference disk set in a drill hole in a flat triangular rock 6 by 4 feet and 2 feet high at the edge of the bushes on high-water line, 72.97 feet E of the station.

UPPER (New Brunswick, York County; A.J. Brabazon, 1912; 1946; 1955)--In Spednik Lake, on the upper end of the first island outside of and below the entrance to the bay into which the river from Mud Lake flows. The island is about 1.4 miles N of Forest City Landing. The station is on a rock 4.5 meters long, 3.7 meters wide, and 0.6 meter high. Station is 15 feet W of the tree line, just outside high-water line.

Station mark is a U.S. & C.B. R.M. bronze disk set in a drill hole in the rock. The reference marks are crosses within triangles cut in rocks.

Reference mark 1 is in a rock with flat base 10 by 12 feet and 5 feet high.

Reference mark 2 is in a cracked unstable rock 3 by 7 feet and 4 feet high.

Reference mark 3 is in a rounded rock inside the brush line, 7 feet square and 2 feet high.

Object	Distance	Direction
REFERENCE MONUMENT 78	feet	0° 00' 00".0
R.M. 2	21.85	19 50 05
R.M. 3	27.50	203 36 00
R.M. 1	10.73	340 55 50

DUCK (Maine, Washington County; A.J. Brabazon, 1912; N.W.S. 1946; 1955)--On the W shore of Spednik Lake, 0.35 mile S of the entrance to the bay into which the river from Mud Lake flows, and 1.15 miles N of Forest City Landing. It is in the edge of the woods, a short distance from the shore, and is opposite the lower end of the timbered part of the first island above Forest City Landing. Station is at high-water line,



125 feet S of the point of woods opposite the island. There is a larger pointed rock 4 feet NE.

Station mark is a copper disk set in a drill hole in a rock 2.1 meters long, 1.5 meters wide, and 0.9 meter high. A cross within a triangle is cut in a rock 6.34 meters downstream from the station. A cross is cut in a rock 2.62 meters lakeward from the station, and another similar mark is cut in a rock 2.81 meters inland from the station.

DRAKE (Maine, Washington County; N.W. Smith, 1946; 1955)--On the W side of Spednik Lake, opposite the first island above Forest City Landing. It is 40 feet outside the trees and high-water line, and 50 feet S of the extreme point across from the island. There is a high pointed rock 20 feet directly inshore.

Station mark is a G.S. of C. bronze reference disk, with arrow pointing toward station DUCK. It is set in a drill hole in a rock 6 feet square by 2 feet high a little inside the low-water line. Station DUCK is 122.75 feet S.

END (New Brunswick, York County; J. Hergeshiemer, 1890)--Station lost in 1946.

ENDER (New Brunswick, York County; N.W. Smith, 1946)--In the edge of the grass on the S end of the first island above Forest City Landing. It is 20 feet inshore from low water in the bay on S of island and 80 feet SE of the trees on the SW point of the island.

Station mark is a drill hole in a rock 2 feet in diameter and 10 inches high. Station in grass and under water, hence not recovered in 1955.

REFERENCE MONUMENT 79-46 (New Brunswick, York County; A.J. Drabazon, 1912; 1917; 1946; 1955)--On the E side of the channel of Spednik Lake, at the S end of the small, low, rocky island just N of Cold Cove. Island is covered by high water.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a rock 3.7 meters long, 3.4 meters wide, and 2.7 meters high. Post broken off a little below top of rock in 1955.

REFERENCE MONUMENT 80-46 (Maine, Washington County; A.J. Drabazon, 1912; 1917; 1946; 1955)--On the W side of Spednik Lake, opposite Cold Cove, 0.9 mile N of Forest City Landing. It is on the high-water line, at the edge of the trees at the SE corner of a prominent double point.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock. A cross within a triangle is cut in a rock 3.19 meters upstream from the station. A cross within a triangle is cut in a rock 4.36 meters lakeward from the station and another like mark is cut in a rock 4.71 meters inland from the station.



REFERENCE MONUMENT 80 ECC (Maine, Washington County; N.W. Smith, 1946)--A drill hole in a rock 2 by 3 feet and 1 foot above ground on the beach about 30 feet outside the tree line, and 34.21 feet from REFERENCE MONUMENT 80.

REFERENCE MONUMENT 81-46 (New Brunswick, York County; A.J. Brabazon, 1912; 1917; 1946; 1955)--On the E shore of Spednik Lake, about 300 meters S of the point at the W side of the entrance to Cold Cove. It is 12 feet outside tree line, on a sharp-topped rock 3 meters long, 2.7 meters wide, and 2.1 meters high.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock. A cross within a triangle is cut in a rock 8.44 meters downstream and inland from the station, and another like mark is cut in a rock 8.56 meters slightly upstream and inland from the station.

REFERENCE MONUMENT 82-46 (Maine, Washington County; A.J. Brabazon, 1912; 1917; 1946; 1955)--On the W shore of Spednik Lake, at the upper end of a little cove about 200 meters N of Forest City Landing. It is on a rock 10.7 meters long, 7.6 meters wide, and 2.4 meters high, 10 feet from its outer end.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock. Two crosses within triangles are cut in the rock; the first is 5.23 meters inland, and the second is 2.23 meters lakeward from the station. A cross within a triangle is cut in another rock 7.50 meters upstream from the station.

LOOSE (New Brunswick, York County; A.J. Brabazon, 1912; 1946; 1955)--On the E shore of Spednik Lake, on the bend of the shore opposite Forest City Landing. It is in the edge of the bushes on high-water line and about 75 feet S of two large rocks on the beach just inside low-water line. It is on a rock 6 by 4 and 1 foot high which is not embedded much in the ground.

Station mark is a copper disk set in a drill hole in the rock. A cross within a triangle is cut in a rock 3.69 meters S and lakeward from the station. A like mark is cut in a big rock 13.88 meters S and inland from the station and another like mark is cut in a big rock 6.60 meters N and inland from the station.

LOOSE ECC. (New Brunswick, York County; N.W. Smith, 1946)--On the beach, 8 feet outside the tree line, in the edge of the bushes. Mark was a shallow hole in a small rock.



REFERENCE MONUMENT 83-46 (New Brunswick, York County; A.J. Brabazon, 1912; 1917; 1946; 1955)--On the E shore of Spednik Lake, opposite to and almost due E of Forest City Landing. It is on a sharp-topped rock about 3 by 3 meters in cross section and 2.4 meters high, just outside the tree line.

Station mark is a standard 8-inch manganese bronze reference post set in a drill hole in the rock. A cross is cut in a rock 6.70 meters inland and downstream from the station. A cross within a triangle is cut in a rock 5.08 meters inland and upstream from the station.

REFERENCE MONUMENT 83 ECC (New Brunswick, York County; N.W. Smith, 1946)--A drill hole in a rock on the beach, midway between the monument and low water, 15.07 feet (slope measure) from the station.

ORPHAN (Maine, Washington County; A.J. Brabazon, 1912; 1946; 1955)--On the W side of Spednik Lake, on a small sharp point at low water, 0.3 mile below Forest City Landing. It is on the low-water line on N side of the point, 40 feet W of E side of the point, 150 feet outside the edge of trees which is also the high-water line W of the station. It is on the largest of a group of large boulders about 21 feet square, 10 feet high on the S side and 5 feet high on the N side. Another boulder of similar size is about 125 feet to the S and a little closer the edge of trees to the W.

Station mark is a U.S. & C.B. bronze station disk set in a drill hole in the boulder. Two crosses within triangles are cut in the rock; one is 1.41 meters and the other 2.94 meters from the station.

REFERENCE MONUMENT 84-46 (New Brunswick, York County; H.C.O. Clarke, 1917; 1946; 1955)--On the E shore of Spednik Lake, 0.7 mile SE of Forest City Landing, and 0.4 mile N of Current Island. It is on a boulder surrounded by a growth of spruce near the water's edge. The face of the boulder slopes toward the lake and is 2.1 meters long and 1.5 meters wide, projecting 0.3 meter from the ground. Station boulder in 1946 was on high-water line and rests against a larger boulder 6 feet high which forms a small point on the shore with a more prominent point 400 feet N of it. A 10-inch spruce is 8 feet inland.

Station mark is a boundary reference post set in a drill hole in the boulder.

ANNIE (Maine, Washington County; N.W. Smith, 1946; 1955)--On a prominent point on the W side of Spednik Lake, 0.4 mile S of Forest City Landing. It is on the high sand bar extending SE from the point, 60 feet outside the tree line on the point, and about a foot under high water.



Station mark is a drill hole in a rock 15 inches in diameter and rising 3 inches above the bar, with a cairn built over it.

Reference mark is a G.S. of C. bronze reference disk set in a drill hole in an embedded rock 5 by 2 feet and 6 inches high on the grass ground on the bar 41.18 feet S of the station.

REFERENCE MONUMENT 85-46 (Maine, Washington County; H.C.O. Clarke, 1917; 1946; 1955)--On the W shore of Spednik Lake, 0.9 mile down lake from Forest City Landing, and directly opposite Current Island. It is on the low-water line about 30 meters lakeward from the edge of trees and is on a boulder about 5 meters square at the base, 5 meters long on top, and about 3 meters high. The boulder is the most prominent one in the vicinity, 300 feet N of a prominent point.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the boulder.

JIM (Maine, Washington County; A.J. Brabazon, 1912; 1946; 1955)--On the W side of Spednik Lake, 1 mile below Forest City Landing. It is at a little projecting curve of the shore opposite Current Island, on a rock 2.7 meters long, 2.1 meters wide, and 0.5 meter high. Two big rocks on the Canadian shore are visible from the station, one over the N end and the other over the S end of Current Island. Station is 6 feet inside tree line, on NE side of the point.

Station mark is a copper disk set in a drill hole in the rock. A cross within a triangle is cut in a rock 6.89 meters N and inland from the station; a second like mark is cut in a rock 2.88 meters lakeward from the station; and a third like mark is cut in a rock 2.72 meters inland from the station.

Station JIMMIE is 93.65 feet S.

JIMMIE (Maine, Washington County; N.W. Smith, 1946; 1955)--On the SE corner of a prominent but somewhat rounding point on the W side of Spednik Lake, about a mile S of Forest City Landing. The point of woods on the point is 70 feet upstream and a bay is 70 feet downstream. The station is 40 feet outside the tree line which is also the high-water line, on a triangular boulder with flat top, 8 feet on a side and 3 feet high, with a prominent light-colored pointed boulder 15 feet downstream.

Station mark is a G.S. of C. bronze reference mark set in a drill hole in the boulder, with arrow pointing to station JIM.

Station JIM is 93.65 feet N, 6 feet inside the timber line.



NONE (New Brunswick, York County; A.J. Brabazon, 1912; 1917; 1946; 1955)--About 10 feet outside the tree line, on a point on the E side of Spednik Lake, opposite the low rocky point at the upper end of Current Island when water is low. The station is 50 feet upstream from the extreme point at low water and 125 feet downstream from the outer trees on the point.

Station mark is an I.B.C. bronze station disk set in a drill hole at center of a cross cut in a sloping boulder about 20 feet square and 10 feet high at the S side and 5 feet high at the N side.

SHORT (New Brunswick, York County; A.J. Brabazon, 1912; 1946; 1955)--At edge of trees on the E shore of Spednik Lake, about 100 meters below the lower end of Current Island at low water. The station is on the more southerly of two boulders, side by side, 250 feet N of a point of woods, and a much larger boulder is on the beach 100 feet N.

Station mark is a U.S. & C.B. copper disk set in a drill hole in a rock 3 meters long, 1.8 meters wide, and 1.2 meters high. A cross within a triangle is cut in a rock 1.83 meters N and lakeward from the station. A like cross is cut in a rock 3.74 meters N and inland from the station and a third like mark is cut in a rock 4.46 meters S and inland from the station.

BYRON (Maine, Washington County; A.J. Brabazon, 1912; 1946; 1955)--About 20 feet outside the edge of trees, on a point on the W side of Spednik Lake, 1.4 miles S of Forest City Landing,  $\frac{1}{2}$  mile S of Current Island. The station is 50 feet N of the outer trees on the point and directly inshore on the edge of trees is a larger rock 10 feet high. Station rock is 13 feet square and 4 feet high with a high corner toward the lake.

Station mark is a U.S. & C.B. copper disk set in a drill hole in the rock. A cross within a triangle is cut in each of two high rocks inland from the station at distances of 12.01 and 8.60 meters, respectively. A like mark is cut in a lower rock 8.35 meters lakeward from the station.

REFERENCE MONUMENT 87-46 (Maine, Washington County; H.C.O. Clarke, 1917; 1946; 1955)--About 40 feet outside the tree line (also high-water line), in a shallow bay on the W side of Spednik Lake, about  $\frac{3}{4}$  mile below Current Island. It is 150 feet S of a point of woods, on a dome-shaped cleft rock 10 by 16 feet and 6 feet high on a boulder-strewn beach, and 50 feet inshore from low-water line. About 150 feet S of the station is the largest boulder on the shore of Spednik Lake, about 17 feet high, and shaped like a haystack with the lake end cut off perpendicularly.

Station mark is a boundary reference post set in a drill hole in the boulder, 1 foot S of the cleft in the boulder.



REFERENCE MONUMENT 86-46 (New Brunswick, York County; H.C.O. Clarke, 1917; N.W.S. 1946; 1955)--On the E shore of Spednik Lake, 0.9 mile below Current Island, and 188 meters up the lake from the old Coast Survey station TABLE ROCK. It is on a rough-surfaced granite boulder whose top is rectangular in shape 4.6 meters long, 2.4 meters wide, and about 2 meters above low water. The station boulder is 30 feet outside the tree and high-water line, with a slightly smaller boulder beside it on the S, and another boulder about same size 50 feet to the N.

Station mark is the shank of a boundary reference post broken off 1 inch below the surface set in a drill hole in the boulder.

R.M. 86 is cut in the boulder near the station.

TABLE ROCK (U.S.C. & G.S.) (New Brunswick, York County; J. Hergshiemer, 1890; 1911; 1917; 1946; 1955)--On the low-water line on the E shore of Spednik Lake, about 1 mile above Hinkley Point, and 3/8 mile W from McAllister Cove. It is on a prominent, flat-topped, diamond-shaped boulder, 18 by 14 feet and 10 feet high, 35 feet outside the tree and high-water line, and on the third and most prominent point above Hinkley Point. Another boulder nearly as large is 50 feet downstream and 50 feet outside the tree line, and two smaller boulders are in the water a little outside and N of the station.

Station mark is a U.S. & C.B. R.M. bronze station disk set in a drill hole within a triangle cut in the boulder.

SHAW (Maine, Washington County; A.J. Brabazon, 1912; 1917; 1946; 1955)--On the live tree and high-water line (a few dead birches and some bushes 10 feet outside) on the W shore of Spednik Lake, just N of the place where the lake narrows suddenly about 1 1/4 miles above Spruce Mountain Cove. Station is 30 feet S of the N extremity of the trees on the point and 100 feet S of the extreme end of the point at low water.

Station mark is a copper disk set in a drill hole in a rock 2.4 meters long, 1.5 meters wide, and 1.1 meters high. A cross within a triangle is cut in a rock 3.47 meters upstream and inland from the station. A like mark is in a rock 4.98 meters S and inland from the station. Another like mark is cut in a rock 3.57 meters S and lake-ward from the station.

SHAW ECC (Maine, Washington County; N.W. Smith, 1946; 1955)--On the same point as station SHAW above, on a huge, circular boulder about 10 feet in diameter and 3 feet high, slightly sloping to the S, 40 feet outside the tree and high-water line. It is 10 feet inside the low-water line and covered



by 2 feet of water at high water. A boulder 8 feet square is 4 feet S and a triangular, pyramidal rock 12 feet on a side and 20 feet high is 20 feet NE.

Station mark is a G.S. of C. bronze reference disk set in a drill hole in the boulder, 49.54 feet E of station SHAW.

CREEK (Maine, Washington County; A.J. Brabazon, 1912; 1946; 1955)-- On the W shore of Spednik Lake, about 250 meters N of the N end of the long island that lies along the W shore at the entrance to Spruce Mountain Cove. A small creek enters the lake about 130 meters below the station. The station is on a rock 2.1 meters long, 1.8 meters wide and 0.6 meter high. A sharp-topped rock 1.5 meters high stands beside and S of the station rock. The station is in the edge of the vegetation, under a number of fallen birch trees, 100 feet S of a cove in the shore at high water. There are two pointed rocks on the beach, one 4 feet S and one 20 feet N.

Station mark is a U.S. & C.B. copper disk set in a drill hole in the rock. A cross within a triangle is cut in a rock 4.33 meters N and inland from the station. A like mark is cut in a rock 5.93 meters N and lakeward from the station and another like mark is cut in a rock 3.38 meters inland, and S.

CREEK ECC (Maine, Washington County; N.W. Smith, 1946)-- A drill hole in a rock 1 foot in diameter and 3 feet inside low water on the beach outside the station, 25.15 feet distant.

CRAB (New Brunswick, York County; A.J. Brabazon, 1912; 1946; 1955)-- On the E shore of Spednik Lake, 0.45 mile N of Hinkley Point. McAllister Cove is 0.35 mile E across the point from the station. The station is on a rock 6 meters long, 4.6 meters wide, 3 meters high on the land side, and sloping to the water on the lake side. Station is 50 feet outside the vegetation on the shore, 150 feet S of the second prominent point above Hinkley Point, and another large rock is 10 feet inshore.

Station mark is a copper disk set in a drill hole in the rock. Three crosses within triangles are cut in the rock, respectively, 1.55 meters upstream, 1.38 meters downstream, and 1.12 meters lakeward from the station mark.

REFERENCE MONUMENT 88-46 (Maine, Washington County; A.J. Brabazon, 1912; 1917; 1946; 1955)-- On the E shore of the point, at the E side of the entrance to Spruce Mountain Cove, and about 200 meters downlake from the most northerly tip of the point. A big rock out in the lake is in line with Hinkley Point from the station. The station is on a pointed rock 4.6 meters long, 4 meters wide, and 2.4 meters high, 60 feet outside the tree and high-water line.

Station mark is a boundary reference post set in a drill hole in the rock. A cross within a triangle is cut in a rock



5 by 7 feet and 2 feet high 31.97 feet W. A similar mark is cut in a rock 6 by 8 feet and 5 feet high 22.57 feet NE. A similar mark is cut in a rock 3 by 7 feet and 4 feet high 18.22 feet SE. All distances are slope measurements, as station is about 5 feet higher than the references.

**SPEDNIK** (Maine, Washington County; N.W. Smith, 1946; 1955)--On a huge boulder at the low-water line, on the northern extremity of the point on the E side of the entrance to Spruce Mountain Cove, and opposite Hinkley Point. It is about 75 feet outside the tree line, with the two largest boulders on the point about 130 feet distant, one SW and the other SE, and is on a line with the outer vegetation on the W side of the point and the summit of Spruce Mountain. The light-colored station boulder is 5-sided, with sides 12, 12, 8, 6 and 8 feet and top sloping from 6 to 2 feet S to N.

Station mark is an I.B.C. bronze station disk set in a drill hole in the boulder about a foot below its highest point.

A G.S. of C. bronze reference disk is set in a drill hole in the top of the huge boulder 133.27 feet SW of the station; boulder being 12 by 25 feet and 7 feet high.

A drill hole is in a boulder 8 by 9 feet and 6 feet high, 66.36 feet S toward the woods.

A drill hole within a triangle cut in the other huge boulder 14 by 25 feet and 9 feet high is SE 130.58 feet.

**REFERENCE MONUMENT 89-46** (New Brunswick, York County; H.C.O. Clarke, 1917; 1946; 1955)--Just inside the brush line and slightly below high-water line on the extreme end of Hinkley Point, on the NE side of Spednik Lake. It is 15 feet SW of a 24-inch pine tree, the outer tree on the point, about 45 feet SW by W of station HINKLEY, on a pointed triangular rock 3 feet on a side and 18 inches high.

Station mark is a boundary reference post set in a drill hole in the rock.

**HINKLEY** (New Brunswick, York County; A.J. Brabazon, 1912; 1917; 1946; 1955)--On Hinkley Point in Spednik Lake, about 30 feet inside the line of bushes, 30 feet E of the 24-inch pine on the point of trees, 20 feet SW of an 18-inch oak, and 20 feet S of a 15-inch oak.

Station mark is a U.S. & C.B. copper disk set in the top of a boulder about 0.7 by 0.6 by 0.4 meter in size placed in the ground with its top projecting about 6 inches. A cross within a triangle is cut in a rock 5.88 meters inland E of the station. A like mark is cut in a rock 4.08 meters inland and W of the station and a third like mark is cut in a rock 10.00 meters lakeward from the station.



**HINKLEY POINT** (New Brunswick, York County; N.W. Smith, 1946; 1955) On Hinkley Point in Spednik Lake, on a rock 2 by 3 feet and 8 inches high, 30 feet outside the bushes on the point, 50 feet S of the 24-inch pine, 30 feet E of the extreme point, and a foot under high water.

Station mark is a G.S. of C. bronze reference tablet set in a drill hole in the rock.

Object	Distance	Direction
SPEDNIK	feet	0° 00' 00".0
REFERENCE MONUMENT 89	54.95	124 01 35
HINKLEY	79.16	160 27 35

**LYONS** (Maine, Washington County; A.J. Brabazon, 1912; 1917; 1946; 1955)--On the sharp prominent point of the W shore of Spednik Lake, opposite the N end of Birch Island. There is a large rock 15 meters distant on the point W from the station. A line from the station to the upper end of Birch Island passes 30 meters N of a small island in mid-channel. Station is 60 feet outside the tree line on the point and on the largest rock on the point.

Station mark is a U.S. & C.B. bronze disk set in a drill hole in a rock 5.5 meters long, 4.3 meters wide, 3 meters high at its uplake side, and 1.2 meters high at its downlake side. Two crosses within triangles are cut in the rock; one is inland 1.24 meters, the other is lakeward 1.23 meters from the station mark. A cross only is cut in the rock 1.16 meters uplake from station mark.

**REFERENCE MONUMENT 90-46** (Maine, Washington County; H.C.O. Clarke, 1917; 1946; 1955)--On the W shore of Spednik Lake, one mile below the entrance to Spruce Mountain Cove, and directly opposite Birch Island. A small island out in the lake is in line with McAllister Point almost due N from the station. The shore is rough and rocky and the timber comes down to the lake. The station is just outside the spruce timber, on a triangular rock with sides about 3 meters in length and a height of 1.5 meters, near head of a shallow bay.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock.

**REFERENCE MONUMENT 91-46** (New Brunswick, York County; H.C.O. Clarke, 1917; N.W.S., 1946; 1955)--On the E side of the lower end of a small island in Spednik Lake, at the W side of the entrance to McAllister Cove, and 0.45 mile W of the upper end of Birch Island. It is on a large boulder 5.5 meters long, 2.7 meters wide, and a little more than a meter high. The boulder may be covered with water at extreme high water, though it is the largest on the island. Two other huge boulders nearly same size are at the edge of low water E of the station.



Station mark is the shaft only of a boundary reference post set in a drill hole in the boulder, with its top about flush.

R.M. 91 is cut in the face of the rock.

McALLISTER (U.S.C. & G.S.) (New Brunswick, York County; J. Hergeshiemer, 1890; 1911; 1946; 1955)--About on low-water line on the SW side of the lower end of a small island (at low water) in Spednik Lake, on the S side of the entrance to McAllister Cove. The station is on a boulder 5 feet square and  $2\frac{1}{2}$  feet high, with two larger rocks 40 feet E and the 3 largest boulders on the island 100 feet NE. It is 98.80 feet from REFERENCE MONUMENT 91 and may be subject to movement by ice. O.K. but under water in 1955.

Station mark is a U.S. & C.B. station disk set in a drill hole within a triangle cut in the boulder.

SPINGOLLY (New Brunswick, York County; A. J. Brabazon, 1912; 1917; 1946; 1955)--On the E shore of Spednik Lake, at the entrance to McAllister Cove. It is on a point that is flooded at high water and is N  $72^{\circ}$  E, a little more than 1,000 meters from Hinkley Point, and N  $42^{\circ}$  W, the same distance from the upper end of Birch Island. From the station, Hinkley Point is seen over the upper end of the island in the entrance to McAllister Cove. Station is on the highest rock on the point, 200 feet E of the extreme trees on the point.

Station mark is a copper disk set in a drill hole in a ridge-shaped rock 4.1 meters long, 3 meters wide, and 1.5 meters high. Three crosses within triangles are cut in the rock; the first downstream and inland 1.38 meters, the second downstream and lakeward 1.66 meters, and the third lakeward 0.61 meter from the station mark.

REFERENCE MONUMENT 92-46 (New Brunswick, York County; H. C. O. Clarke, 1917; 1946; 1955)--On the E shore of Spednik Lake, in a little bay 0.3 mile N and a little E of the N end of Birch Island. Thirty meters in front of the station there is a sand bar. Station is 50 feet outside the high-water line and the line of vegetation, on an irregular rock 8 by 10 feet and 4 feet high with a pointed top on the lake side and sloping toward the woods. An old barge is on the beach just E of the station. Station rock is somewhat unstable.

Station mark is a boundary reference post set in a drill hole on the N slope of the rock, and is about on the water line at high water. Boundary post is slightly tilted.

REFERENCE MONUMENT 92A-46 (New Brunswick, York County; J. Hill, 1939; N. W. S., 1946; 1955)--About 40 feet inside the edge of trees at the head of a bay on the Canadian shore opposite the upper end of Birch Island in Spednik Lake. The station



is on the only rock of any size in this section of the timber, 3 by 3 feet and 1 foot high, 1.8 feet W of the line from REFERENCE MONUMENT 91 to REFERENCE MONUMENT 92 extended, and 118.42 feet from the latter.

Station mark is an I.B.C. bronze station disk set in a drill hole in the rock, stamped "92A-1939".

SOLID (New Brunswick, York County; N.W. Smith, 1946; 1955)--In an outcropping rock ledge on the point at the downstream entrance to the bay in the Canadian shore opposite the upper end of Birch Island in Spednik Lake, and 1 mile E of Hinkley Point. Another outcrop of the ledge is 25 feet W and a third 50 feet E runs NE to the point of trees where there is a huge boulder 10 feet high. These ledges form a rocky point at low water, the station being on the highest point, 4 feet above low water, but covered by high water.

Station mark is an I.B.C. bronze station disk set in a drill hole in the ledge.

UPPER END BIRCH ISLAND (Maine, Washington County; A.J. Brabazon, 1912; 1917; 1946; 1955)--On the extreme upper end of Birch Island in Spednik Lake, about 1 mile SE of Hinkley Point, 20 feet outside the tree line and high-water line, and 40 feet S of the NW point of the trees. The station is in the apex of an unstable rock sitting on end, 80 feet inside low-water line. The rock is tilted E.

Station mark is a copper disk set in a drill hole in the rock. A cross within a triangle is cut in a rock 4.85 meters inland from the station. A like mark is cut in a rock 1.09 meters E of the station and another like mark is cut in a rock 2.03 meters W of the station.

Object	Distance	Direction
LYONS	feet	0° 00' 00" 0
R.M.	3.50	160 04 30
R.M.	15.87	232 53 00
R.M.	7.00	335 49 30

REFERENCE MONUMENT 93-46 (Maine, Washington County; H.C.O. Clarke, 1917; N.W.S., 1946; 1955)--On Birch Island, in Spednik Lake. The original Birch Island has become two islands since the water has been raised in the lake by dams. The station is about 50 meters W of the lower end of the more westerly and larger of the two islands. The station is on a boulder about 0.9 meter square and projecting about 0.3 meter above the ground and is 20 feet inside tree line and 60 feet inside the line of bushes.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the boulder.

BIRCH ISLAND (Maine, Washington County; N.W. Smith, 1946; 1955)--On the lower end of the W island of the Birch Island group



in Spednik Lake, 1.4 miles SE of Hinkley Point, 40 feet outside the line of bushes, 80 feet outside the tree line, W of the largest rock on the point, and about 2 feet under high water. The station is 60 feet from the low water to the N and about the highest part of the point, on a boulder 10 feet square and 2 feet high.

Station mark is a G.S. of C. bronze reference disk set in a drill hole in the boulder, with the arrow pointing to REFERENCE MONUMENT 93, 108.335 feet W inside the tree line.

REFERENCE MONUMENT 94-46 (New Brunswick, York County; H.C.O. Clarke, 1917; 1946; 1955)--On the E shore of Spednik Lake, on the point on the uplake side of Birch Island Brook. In extreme high water the point is flooded and but few rocks show above the water, but there are many dead trees on the point to identify its position. The monument is near the middle of the point, about 75 meters from the extreme tip, on a large flat rock measuring 2.7 by 3.4 meters and projecting 0.3 meter above the ground. Station is about 100 meters outside the trees on the point and is about 2 feet under high water.

Station mark is a boundary reference post set in a drill hole in the rock.

LOWER END BIRCH ISLAND (Maine, Washington County; A.J. Brabazon, 1912; 1946; 1955)--On the lower end of the lower section of Birch Island in Spednik Lake about 1.7 miles below Hinkley Point, 100 feet outside and downstream from the edge of trees, and at the edge of the grass and bushes. At low water the station is 100 feet from the water to the N, 60 feet to the S, and 400 feet to end of island to the E. The station is on a ridge-shaped rock 14 by 20 feet and 4 feet high, with high water surrounding the rock.

Station mark is a U.S. & C.B. copper disk set in a drill hole in the ridge of the rock. Three crosses within triangles are cut in the rock; the first E, 1.09 meters, the second upstream 0.90 meter, and the third downstream 1.08 meters from the station.

PIKE (Maine, Washington County; A.J. Brabazon, 1912; 1917; 1946; 1955)--On the W shore of Spednik Lake at the entrance to Pike Cove,  $1\frac{1}{4}$  miles from the head of the cove. It is on a boulder about 1.5 meters in cross section and 0.9 meter high, just outside the line of brush.

Station mark is a bronze disk set in a drill hole in the rock. A cross within a triangle is cut in a rock 14.40 feet uplake and slightly inland from the station. A like mark is cut on a rock 14.90 feet downlake and slightly inland from the station. A cross is cut in a rock 7.95 feet inland from the station.



A G.S. of C. bronze reference tablet is wedged in a drill hole in the top of a flat-topped, kite-shaped rock 12 by 10 feet and 6 feet high, 40.06 feet inland from Pike at edge of woods.

PATTERSON (New Brunswick, York County; A.J. Brabazon, 1912; 1917; 1946; 1955)--On the E shore of Spednik Lake, 1 mile below Birch Island Brook,  $\frac{1}{2}$  mile above Norway Point, beside a logging road 240 meters above Patterson's lumber camp. It is on the central of three unstable rocks, 20 feet outside the timber, about the center of a rounding point 200 feet long. This rock is a triangular pyramid in shape, 4 feet on a side, 3 feet high, and slightly tilted.

Station mark is a bronze U.S. & C.B. station disk set in a drill hole in the boulder.

The upstream reference mark, a cross within a triangle cut in a boulder which has fallen toward the lake, is now 3.42 feet distant. A similar reference mark is in a rock 4.20 feet downstream.

PAT (New Brunswick, York County; N.W. Smith, 1946; 1955)--About 5 feet inshore from low-water mark on the rounding point, outside station PATTERSON 35.95 feet, in a solid rock 2 feet in diameter showing 6 inches above the beach. Station over 3 feet under high water.

Station mark is a G.S. of C. reference disk set in a drill hole in the rock, with the arrow pointing toward station PATTERSON.

BRIGHT (Maine, Washington County; A.J. Brabazon, 1912; 1946; 1955)--In Spednik Lake, on a light-colored rock shaped like a truncated, triangular pyramid, 20 by 18 by 18 feet, with the top about 1 foot above high water, near the entrance to Pike Cove Brook. The rock is about 700 feet NW of the headland between Pike Cove Brook and Pike Cove, and 400 feet E of the S end of a large island off the point.

Station mark is a shallow drill hole in the center of a cross cut in the rock.

REFERENCE MONUMENT 95-46 (New Brunswick, York County; H.C.O. Clarke, 1917; 1946; 1955)--On Norway Point, on the E shore of Spednik Lake. Norway Point is flooded since the water in the lake has been raised by dams. The station is on the upper part of the point, entirely surrounded by water, is about 90 meters from the present mainland, and about the same distance from the center of the submerged Norway Point to the lakeward.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a rock 4 meters long, 3 meters wide, and 2.4 meters above the water at low water.

Reference post is slightly tilted.



**REFERENCE MONUMENT 96-46** (Maine, Washington County; H.C.O. Clarke, 1917; N.W.S., 1946; 1955)--On the point in Spednik Lake between Robertson Cove and Pike Cove Brook and directly opposite Norway Point. The point is low and is overflowed at high water. The station is at the high-water mark on the N end of the point, on a dome-shaped rock 1.7 meters in diameter and projecting about 0.2 meter above the ground. Station is on the W edge of bushes on the point.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock.

**NORWAY** (New Brunswick, York County; A.J. Brabazon, 1912; 1917; N.W.S., 1946; 1955)--On the NE shore of Spednik Lake, on what was Norway Point before the Vanceboro dam raised the water and flooded this section of the lake. It is on what becomes sand bar from the shore to the W side of the stony island formed at this low stage of the water. Station is near the SW edge of this bar, W of the center of the island, on the more easterly and higher of two rocks on the bar, which alone show when high water covers the island and bar. The station rock is light colored, rather pointed near W end, and about 8 by 5 feet and  $4\frac{1}{2}$  feet high.

Station mark is a U.S. & C.B. station disk set in a drill hole in the rock.

A cross within a triangle is cut in the top of the other large rock about 5 feet high, on the bar W of the station, distant 10.27 feet. A similar mark is 13.86 feet distant, on a low flat rock, on the bar N of the station, about on line to REFERENCE MONUMENT 95. A similar mark is 10.56 feet distant, on a low, flat rock, on the bar E of the station. A similar mark is 25.44 feet distant, on a medium-sized rock, on the island SE of the station.

A drill hole, used as an eccentric station, is in a low flat rock 9.64 feet NE of the station.

**GARFIELD** (Maine, Washington County; A.J. Brabazon, 1912; 1946; 1955)--On the S shore of Spednik Lake, on the NE corner of the peninsula between Robertson Cove on the W and the lake to the E, and opposite Norway Point. It is 15 feet outside the bushes on this NE prong of the point, on a rock 20 by 12 feet, 6 feet high on the W side sloping to 4 feet high on E side.

Station mark is a U.S. & C.B. copper disk set in a drill hole in the rock. Three crosses within triangles are cut in the rock; the first is slightly up the lake and inland, 1.66 meters, the second is up the lake and toward the shore 0.88 meter, and the third is down the lake 1.23 meters from the station.

**DIRTY** (New Brunswick, York County; A.J. Brabazon, 1912; 1917; 1946; 1955)--Near the N side of Spednik Lake,  $\frac{1}{2}$  mile E of Norway



Point, on the largest rock in a rocky reef extending in a straight line SE from the Canadian shore. This flat-topped rock is 8 by 12 feet and 5 feet high, about midway between the shore and the end of the reef at low water, and is covered at high water.

Station mark is an I.B.C. bronze station disk set in the center of a cross cut in the rock.

WINDY (Maine, Washington County; N.W. Smith, 1946; 1955)--On a flat-topped rock 14 by 9 feet and  $2\frac{1}{2}$  feet high, near the SW corner of a rocky island (at low water) in Spednik Lake, about 400 feet N of the U.S. shore,  $\frac{1}{2}$  mile downstream from Norway Point. The only other high, large rock on the island is 35 feet NW. The station is covered by high water.

Station mark is a G.S. of C. reference disk set in a drill hole in the rock, with arrow pointing N to station WIND (U.S.C. & G.S.).

WIND (U.S.C. & G.S.) (Maine, Washington County; J. Hergeshiemer, 1890, 1946; 1955)--On a rocky island 400 feet N of the U. S. shore of Spednik Lake,  $\frac{1}{2}$  mile downstream from Norway Point. The island is covered at high water. The station is on a small embedded granite rock 2 by 3 feet and  $1\frac{1}{2}$  feet high, 45 feet inshore from the extreme low-water line at NE corner of the island, with a larger rock 6 by 12 feet, 30 feet lakeward. The station is under 4 feet of water at high water.

Station WINDY is 177.42 feet S.

Station mark is an I.B.C. station disk set in a drill hole in the rock, enclosed in a triangle cut in the rock.

REFERENCE MONUMENT 97-46 (Maine, Washington County; H.C.O. Clarke, 1917; 1946; 1955)--On the SW side of Spednik Lake,  $\frac{1}{2}$  mile downstream from Robertson Cove and Norway Point, on the point where the lake swings from an easterly to a southeasterly course. It is on a rock 7 by 7 feet and 3 feet high, found covered by 2 inches of moss in 1946, 18 feet inside the edge of trees and high-water line, and 100 feet W of the trees on the extreme NE point in the bend of the lake.

Station mark is a boundary reference post set in a drill hole in the rock.

ROBERTSON (Maine, Washington County; A.J. Brabazon, 1912; 1917; 1946; 1955)--On the W shore of Spednik Lake, near the "Five Islands". It is on the most northerly and easterly point of the square headland that lies just E of Robertson Cove, on a sloping triangular rock about 3 meters on a side and 1.5 meters high on SE corner, 0.7 meter on W side, and is N  $88^{\circ}25'E$ , 69.4 meters from REFERENCE MONUMENT 97. The station is on the low-water line, 60 feet outside the timber



and high-water line, and probably covered a little by high water.

Station mark is a bronze disk set in a drill hole in the rock. Two holes are drilled in the station rock, the upper one 1.72 meters and the lower one 1.87 meters from the station mark. A hole is drilled in a rock 3.62 meters lakeward from the station.

REFERENCE MONUMENT 98-46 (New Brunswick, York County; H.C.O. Clarke, 1917; N.W.S., 1946; 1955)--On the E shore of Spednik Lake, on the W shore of the peninsula that forms the W side of Sandy Bay Cove, and is almost due N of the largest of the "Five Islands". It is on the largest rock in the vicinity, which is a hogback rock 4 meters long on the ridge or back, 2 meters high, and 3 by 4 meters in cross section at the base. Station is 45 feet outside the edge of trees and high-water line and 75 feet inshore from low water.

Station mark is a boundary reference post set in a drill hole in the rock.

FOG (New Brunswick, York County; A.J. Brabazon, 1912; 1917; 1946; 1955)--On the W shore of the peninsula that lies W of Sandy Bay Cove and about  $1\frac{1}{4}$  miles uplake from Sandy Point at the tip of the peninsula. It is opposite the largest and most easterly of the "Five Islands", on a rock about 4 by 5 meters in cross section and 1.5 meters high, on landside, sloping toward the lake. The station is about 115 feet outside the tree and high-water line, just outside the low-water line, and about even with surface of high water.

Station mark is a U.S. & C.B. bronze disk set in a drill hole in the rock. Three holes are drilled in the station rock, one uplake 1.87 meters, one downlake 1.87 meters, and one inland 1.93 meters from station.

REFERENCE MONUMENT 99-46 (Maine, Washington County; H.C.O. Clarke, 1917; 1946; 1955)--On the W shore of Spednik Lake, about 1 mile above the entrance to Muncy Cove, and about  $\frac{1}{2}$  mile SE of the largest of the "Five Islands". It is about 8 meters from the lake and about 9 meters in front of the edge of trees, on the highest boulder in a field of small boulders. The boulder is sharp, ridge-shaped, 1.4 meters high. The three sides of its base measured 3.7, 2.1, and 2.4 meters, respectively. The station is 40 feet S of a point of trees at lower end of a good-sized bay and is slightly above high water.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock.

MARTIN (Maine, Washington County; A.J. Brabazon, 1912; 1946; 1955)--On the W shore of Spednik Lake,  $\frac{4}{5}$  mile above Muncy Cove, and  $\frac{2}{3}$  mile almost due W of Sandy Point. It is on a flat-



topped rock 3.7 meters long, 2.4 meters wide, and 1 meter high, 40 feet outside tree line, on low-water line, probably covered at high water.

Station mark is a bronze disk set in a drill hole in the rock.

**AURORA** (U.S.C. & G.S.) (New Brunswick, York County; J. Hergeshiemer, 1890; 1912; 1946; 1955)--On the SW shore of the peninsula in Spednik Lake on the W side of Sandy Bay Cove,  $\frac{3}{4}$  mile above Sandy Point, about 50 feet outside the tree and high-water line, at edge of low-water line. The station is about 80 feet S of the largest rock on the point, 10 feet square and 4 feet high located in the edge of the trees, and 50 feet SW of the next largest rock which is 50 feet outside the tree line. Another rock 3 feet high is 15 feet outside the station which is on a flat rock 5 by 8 feet and 2 feet high, covered by 3 feet of water at high water.

Station mark is a U.S. & C.B. station disk set in a drill hole within a triangle cut in the rock.

Reference mark is a G.S. of C. reference disk set in a drill hole in the 10-foot square, light-colored rock 4 feet high, mentioned above, in the edge of the trees, 79.61 feet distant.

**MUNCY** (Maine, Washington County; A. J. Brabazon, 1912; 1946; 1955)--On the W shore of Spednik Lake, across the channel and a little uplake from Sandy Point, and  $\frac{4}{5}$  mile above Muncy Cove. It is on a rock 6 meters long, 4 meters wide, and 2 meters high. Looking E from the station, the two points at the mouth of Mud Cove are in line. Station rock is 90 feet outside tree line, on low-water line.

Station mark is a U.S. & C.B. bronze disk set in a drill hole in the rock. There is one eyebolt and two drill holes in the rock.

**PIRATE** (Maine, Washington County; N. W. Smith, 1946; 1955)--Station is the apex of the fire lookout tower on Pirate Hill, NW of Lambert Lake village, and on the NE side of the lake of that name. The tower is built on the highest part of the open ledge rock on the hill. The ledge was broken directly under the apex of the tower, hence the point is marked by three references.

Reference mark 1 is a G.S. of C. reference tablet set in a drill hole in the solid ledge rock 6.55 feet N of the station. Reference mark 2 is a drill hole in the solid ledge 2.48 feet W of the station. Reference mark 3 is a drill hole in the ledge 8.02 feet E of the station. The first two are under the tower and the third just outside.



VANCE MOUNTAIN (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1888; 1935; 1917; 1946)--On the high, open, rocky ledge on the summit of Vance Mountain, about 4 miles W of Vanceboro, and  $\frac{3}{4}$  mile S of the head of Walker Cove in Spednik Lake. The open ledge is surrounded by woods 40 feet to 50 feet high.

Station mark is an I.B.C. bronze station disk set in a drill hole within an 8-inch triangle cut in the bare ledge rock.

TODD (U.S.C. & G.S.) (Maine, Washington County; J. Hergeshiemer, 1890; 1908)--On the summit of a prominent hill about  $1\frac{1}{2}$  miles S of the head of Muncy Cove in Spednik Lake,  $1\frac{1}{4}$  miles SW of Vance Mountain, and separated from Pirate Hill on the W by a narrow swale in a draw between the two hills through which woods road to Muncy Cove passes. It is on the Todd farm. The station was not recovered by the Maine Geodetic Survey in 1935 or in 1946 as the ledge is quite generally covered by moss. The top of the ledge sees much of Spednik Lake and would make a good station site.

Station mark is a drill hole within a triangle cut in the rock.

MOUNT HENRY (U.S.C. & G.S.) (New Brunswick, York County; C.H. Boyd, 1888; 1911; 1946)--On the mountain of that name located about  $4\frac{1}{2}$  miles NNE of Vanceboro, Me., and about  $1\frac{3}{4}$  miles E of the head of Lake Palfrey. The station is on a bare ledge 25 meters SW of and 0.6 meter lower than the highest point of the summit, surrounded by 40-foot hardwood trees.

Station mark is an I.B.C. station disk wedged in a drill hole, within a triangle cut in the open rock ledge, with a cairn built over the station mark. An arrow pointing toward the station is cut on a large boulder 23 meters NE of the station.

FEN (New Brunswick, York County; N.W. Smith, 1946; 1955)--In the low marsh grass and low brush-covered swale across the peninsula on the W side of Sandy Bay Cove, about  $\frac{1}{4}$  mile N of Sandy Point. This swale is covered by water at high water and separates the S tree-covered island at such times from the main peninsula to the N. The station is about 100 feet W of the general line of the trees on the E side of the peninsula, about 400 feet W of Sandy Bay Cove at low water, and on the largest of several rocks in the center of the swale, 8 by 10 feet by 3 feet high.

Station mark is an I.B.C. station disk set in a drill hole in the rock.

REFERENCE MONUMENT 100-46 (New Brunswick, York County; H.C.O. Clarke, 1917; 1946; 1955)--On Sandy Point, opposite Hardwood Island, at the W side of the entrance to Sandy Bay Cove in



Spednik Lake. The station is near the middle of the point at high-water mark about 250 meters from the extreme end of the point at low water. The point is low, flat, and marshy, and is being eroded. It is about 200 meters wide at the station and is covered with dead standing timber and "dryki".

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a flat boulder about 3 meters in diameter and about 6 inches above the surface of the ground. The shank only remained in 1955.

HERB (New Brunswick, York County; A. J. Brabazon, 1912; 1946; 1955)--On the SW shore of the peninsula in Spednik Lake that separates Sandy Bay Cove from the main body of the lake proper and about  $\frac{1}{4}$  mile above Sandy Point. A higher light-colored rock is 15 feet W of the station, the base of both rocks being on the low-water line.

Station mark is a bronze disk set in a drill hole in a rock 2.7 meters long, 2.4 meters wide, and 0.9 meter high.

SANDY (New Brunswick, York County; A. J. Brabazon, 1911; 1917; 1946; 1955)--On Sandy Point in Spednik Lake. The station at low water is 100 feet inside the center of the point, on a rock 2.7 meters long, 1.8 meters wide, and 0.6 meter high. A line produced joining the station and the upper end of Hardwood Island crosses a hill inland and to the N of Hardwood Island.

Station mark is a bronze disk set in a drill hole in the rock. Three crosses are cut in the rock, one uplake 81 centimeters, one downstream 32 centimeters, and one toward Hardwood Island 56 centimeters from the station mark.

ROCKY POINT (U.S.C. & G.S.) (Maine, Washington County; J. Hergeshiemer, 1890; 1946; 1955)--On the prominent rocky point on the S side of Spednik Lake across from Sandy Point. This point forms a small island of boulders at high water and is on the W side of the entrance to Muncy Cove. The station is on a granite rock 2 feet square and 6 inches high, 30 feet inside the low water, on the N end of the point, on a flat gravelly place in the beach. A boulder 15 feet square and 4 feet high, lies 15 feet E; a like boulder 2 feet high, lies 7 feet S on a line to four huge boulders 50 feet S.

Station mark is an I.B.C. station disk in a drill hole within a faint triangle cut in the rock.

Reference mark is a 1-inch drill hole in the large 15-foot square boulder, 14.11 feet E of the station. The rock is 4 feet high on lake side and slopes landward.

MUCO (Maine, Washington County; N. W. Smith, 1946; 1955)--On the rocky point on W side of Muncy Cove near its entrance at low water, all except the higher boulders being covered by



high water. The station is on the largest rock on the point, 180 feet SE of the extreme point at low water, 80 feet W of low water in Muncy Cove, and 150 feet E of the line of vegetation.

Station mark is an I.B.C. station disk set in a drill hole in the triangular rock, 6 feet high with sides 26, 22 and 22 feet.

COVE (Maine, Washington County; A.J. Brabazon, 1912)--Lost in 1946.

REFERENCE MONUMENT 101-46 (Maine, Washington County; H.C.O. Clarke, 1917; 1946; 1955)--On the point between Muncy Cove and Mud Cove in Spednik Lake. It is on a boulder 4 by 6 feet and 1 foot high, 15 feet E of the extreme NW point, 8 feet inside the tree line, 68.75 feet SSE of station MUDDIE, in front of a cottage on the point.

Station mark is a boundary reference post set in a drill hole in the granite boulder.

MUD (Maine, Washington County; A.J. Brabazon, 1911; 1917; 1946)--On a 3- by 5-foot rock 2 feet high on the beach, on the point on the W side of Mud Cove in Spednik Lake. The rock has been undermined and has tipped about 45° toward the lake. It is still unstable and subject to ice action.

Station mark is a U.S. & C.B. station disk set in a drill hole in the rock. Consider station lost. Same position in 1955.

MUDDIE (Maine, Washington County; N.W. Smith, 1946; 1955)--On the beach, on the point on the W side of entrance to Mud Cove in Spednik Lake. It is on the only solid rock on the beach 5 by 5 feet and 6 inches high with an uneven top, 25 feet inside the low-water line, 40 feet outside, and 4 feet below high-water line which is also the tree line. It is 14.72 feet from present position of old station MUD and 68.75 feet from REFERENCE MONUMENT 101.

Station mark is a G.S. of C. reference disk set in a drill hole in the rock.

SNAKE (New Brunswick, York County; A.J. Brabazon, 1911)--Lost in 1946.

CLEFT (Maine, Washington County; A.J. Brabazon, 1911; 1921; N.W.S., 1946; 1955)--On the SW shore of Spednik Lake, on the point, sometimes called Mud Point, at the E and lower side of the entrance to Mud Cove. It is on the lake side of the point, some 200 meters downlake from the extreme end of the point. A line from the station to the point that projects farthest into the water on the W shore of Sandy Cove passes along the side of the biggest rock on Mud Point. This rock is about



180 meters uplake from the station. The station is on the SE portion of a cleft rock. This portion of the rock is 4.9 meters long, 2.4 meters wide, and 2.1 meters high. The station rock is the largest on the point except the one mentioned above, and is 75 feet outside the tree and high-water line and 40 feet outside the mean low-water line.

Station mark is a U.S. & C.B. station disk set in a drill hole in the rock.

**HARDWOOD ISLAND** (New Brunswick, York County; A.J. Brabazon, 1911; 1917; 1946; 1955)--On Hardwood Island in Spednik Lake. It is on the point at the W side of the little bay on the lower end of the island. Station is on the top of the pointed E end of the rock, 8 feet high and sloping nearly to the ground at the W end. It is the largest rock on the point, about on low-water line, and about 100 feet outside the tree and high-water line.

Station mark is the shank of a station disk set in a drill hole in the top of the light-colored triangular rock. Three drill holes for guy wires are in the rock, 2.12 meters uplake, 1.23 meters downlake and 1.95 meters shoreward.

**REFERENCE MONUMENT 102-46** (New Brunswick, York County; H.C.O. Clarke, 1917; 1946; 1955)--On the extreme SE point of Hardwood Island in Spednik Lake. It is on the highest rock in the vicinity and is entirely surrounded by water. The rock is ridge-shaped, 4.3 by 2.7 meters at the base, 3 meters long, on the ridge, and about 1.5 meters above the water in October 1917.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock. In 1921 this post was found to have been broken off flush with the surface of the rock; the shank remained in place. **REFERENCE MONUMENT 102-A** was afterwards set N 55°54'W, 116.0 meters from the station.

**REFERENCE MONUMENT 102-A** (New Brunswick, York County; N.W. Smith, 1921; 1946; 1955)--On the SE point of Hardwood Island in Spednik Lake, on the S shore of the point, 100 meters W of the extreme point, and N 55°54'W, 116.0 meters from **REFERENCE MONUMENT 102**, which it will replace, should the exposed position of monument 102 result in its destruction. The station is on a huge boulder back of the driftwood or "dryki" and is surrounded by high water.

Station mark is a boundary reference post set in a drill hole in the rock 6 by 8 feet and 3 feet high, 75 feet outside the tree line.

**REFERENCE MONUMENT 103** (Maine, Washington County; H.C.O. Clarke, 1917; 1946; 1955)--On the NE corner of Birch Island, at the entrance to Walker Cove of Spednik Lake. It is on high-



water line, at edge of vegetation, 9 meters in front of the green timber, about 30 meters distant from the water, in the direction of Sandy Bay, at low water.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a flat rectangular rock about 1.5 by 3.7 meters and 0.3 meter above the general level of the ground.

Triangulation station BIRCH POINT is about 25 meters N of the station and triangulation station WALKER is about 75 meters SE of the station.

BIRCH POINT (U.S.C. & G.S.) (Maine, Washington County; J. Hergeshiemer, 1890; 1946; 1955)--About 15 feet inside the N shore of Birch Island, in the entrance to Walker Cove in Spednik Lake, at mean low water, 80 feet N of the NE corner of the vegetation on the island, hence 80 feet outside high-water line. The station is on a truncated pyramidal rock with a flat top, 6 by 4 feet and 2 feet high, with larger boulders 15 feet N on low-water line, and three huge boulders on the NE point of the island at low water, 40 feet distant. REFERENCE MONUMENT 103 is 83.30 feet S.

Station mark is an I.B.C. station disk set in a drill hole within a triangle cut in the rock.

WALKER (Maine, Washington County; A. J. Brabazon, 1911; 1917; 1946; 1955)--About 100 feet outside the tree line on the E side of Birch Island in Spednik Lake in the entrance to Walker Cove. This island is connected with the mainland at low water. The station is 15 feet inside mean low water, on a flat-topped boulder 17 by 9 feet and 5 feet high, whose top is about awash at high water. REFERENCE MONUMENT 103 is about 160 feet NW.

Station mark is a U.S. & C.B. station disk set in a drill hole in the boulder.

Reference mark is a drill hole in a rock 3 by 6 feet and 2 feet high, 18.23 meters NE of the station, about halfway to a huge white boulder on the extreme NE corner of the island at extreme low water.

PINE (New Brunswick, York County; A. J. Brabazon, 1911; 1917; 1946; 1955)--On the NE side of Spednik Lake, off the prominent and most southerly point about midway between Hardwood Island and "Mouth of Musquash", on the N projection of a line from Birch Island at the entrance to Walker Cove, through Gull Rock in the center of the lake. The station is on the S point of a sand bar running in an arc E from the SW extremity of the point, and 75 feet W of the E end of this bar. It is on a triangular rock 10, 10, 14 feet and 5 feet high and about 100 feet directly outside mean low water. Awash at high water and rock has one drill hole for fastening a guy wire.



Station mark is a U.S. & C.B. bronze disk set in a drill hole in the rock. Three crosses within triangles are cut in the rock; one downlake 1.37 meters, one toward the island 0.75 meter, and one toward a sand beach 1.60 meters distant from the station.

REFERENCE MONUMENT 104-46 (New Brunswick, York County; H.C.O. Clarke, 1917; N.W.S., 1946; 1955)--On the W shore of the large island that lies NW of "The Narrows" in Spednik Lake. It is about  $\frac{1}{2}$  mile SE along the shoreline from the "Mouth of Musquash". There are three large boulders that are in line with Scraggy Island and the station is on the one farthest uplake.

This triangular boulder is 6 meters in front of the timber, is dome shaped, measures about 3.7 by 4.0 meters at the base, and is 2 meters high.

Station mark is a standard boundary reference post set in a drill hole in the boulder.

REFERENCE MONUMENT 106-46 (New Brunswick, York County; H.C.O. Clarke, 1917; 1946; 1955)--About  $\frac{1}{3}$  mile W of "The Narrows", in Spednik Lake, and on the S shore of a large island. It is on a flat rock at the high-water mark N  $12^{\circ}$ W, 138.3 meters from triangulation station MUSQUASH. The rock is about 0.5 meter high, triangular in shape, with sides 3.7, 3.7, and 2.7 meters in length, 30 feet outside of tree line on SW corner of island.

Station mark is a standard boundary reference post set in a drill hole in the rock.

REFERENCE MONUMENT 105-46 (Maine, Washington County; A.J. Brabazon, 1911; 1917; 1946; 1955)--On the S shore of Spednik Lake, about halfway between Sandy Bay and Dark Cove, where the shore begins to bend toward the latter. The station is on a huge rock, the largest in this vicinity, 28 by 24 feet and 4 feet above high water, 75 feet outside tree line.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock. Two crosses within triangles are cut in the rock; one is 0.84 meter upstream from the station mark, the other is 1.34 meters downstream from the station mark. A cross within a triangle is also cut on a rock 8.51 meters shoreward from the station.

MUSQUASH (New Brunswick, York County; A.J. Brabazon, 1911; 1917; 1946; 1955)--About  $\frac{1}{3}$  mile W of "The Narrows" in Spednik Lake on a triangular, ridge-shaped boulder 150 feet outside the low-water line on the SW point of the island. A rocky bar is E of station and various rocks nearby are bare at extreme low water. The station boulder has sides 20, 12 and 12 feet in length and is 10 feet high.

Station mark is a U.S. & C.B. bronze disk set in a drill



hole in the rock. Three  $\frac{3}{4}$ -inch holes are drilled in the rock; one in the direction of Scraggy Island, 1.76 meters; the second toward the S, 1.62 meters; and the third 1.80 meters distant from the station mark.

Reference mark is a drill hole in a flat rock 8 feet by 8 feet by 2 feet above low water, 30.82 feet WSW of the station. This was used as an eccentric station.

LAMBERT LAKE MILL STACK (Maine, Washington County; C.H. Boyd, 1888; Maine Geod.S., 1935)--Station lost. This was a U.S.C. & G.S. station.

MUSQUASH BARN (U.S.C. & G.S.) (New Brunswick, York County; J. Hergeshiemer, 1890)--Station is the S gable of a prominent barn on the W side of Musquash.

BAY (Maine, Washington County; A.J. Brabazon, 1911; 1946)--On the S side of Spednik Lake, about  $\frac{3}{4}$  mile directly S of "The Narrows", and about the same distance E of Dark Cove. The station is on a rock 20 feet in diameter and  $1\frac{1}{2}$  feet above low water (submerged over 3 feet at high water), 50 feet outside low-water line, and 150 feet outside the tree line on the second point W of the sandy beach in the head of Sandy Bay. There is a similar rock 12 feet outside it.

Station mark is a drill hole in the center of a cross cut in the rock. Water too deep to recover station in 1955.

SOUTH (Maine, Washington County; N.W. Smith, 1946)--On the point described in station BAY above, 60 feet outside the tree line, 20 feet inside the low-water line, and a little nearer the E side of the point at low water. The station is on a slightly sloping rock 5 feet square and 2 feet high, with the top probably covered 2 feet by high water. Water too deep to recover station in 1955.

Station mark is an I.B.C. station disk set in a drill hole in the rock, 106.30 feet inshore from station BAY.

BREEZE (Maine, Washington County; A.J. Brabazon, 1911; 1946)--On a rocky bar in Sandy Bay, about midway between "The Narrows" and the shore directly S, and 400 meters off the E shore of Sandy Bay.

Station mark is a cross cut in a rock. In 1946 two of the eyebolts for fastening guy wires were seen under water but not the station mark, which would be above water only when the lake was extremely low.

WHITE OWL (Maine, Washington County; A.J. Brabazon, 1911; 1917; 1946; 1955)--On the point on the United States shore forming the E side of "The Narrows" of Spednik Lake. It is 60 feet outside the tree and high-water line, 100 feet S of the



trees on the extreme point, just inside the low-water line, on a rock about 10 feet square and over 3 feet high, with numerous smaller rocks in the water off the point. Covered by high water.

Station mark is a U.S. & C.B. bronze station disk set in a drill hole in the rock.

HEIFER (New Brunswick, York County; A.J. Brabazon, 1911; 1917; 1946; 1955)--On the SE point of the large island that forms the W side of "The Narrows" of Spednik Lake. It is on a triangular rock 2.7 meters long, 2 meters wide, and 0.8 meter high. The station is 100 feet outside the tree line, 30 feet to "The Narrows", and 100 feet to the lake on the S, at low water. Covered 2 feet at high water.

Station mark is a U.S. & C.B. bronze station disk set in a drill hole in the rock.

Reference mark 1 is a cross inside a triangle cut in a pointed oblong rock 6 by 5 feet and 3 feet high, E of the station, No. 2 is a similar mark in a rounded rock 4 by 4 feet and 3 feet high, SW; and the third a like mark in a flat-topped triangular rock 5 feet on a side and 1 foot high, N.

Object	Distance	Direction
ERLE	feet	0° 00' 00" 0
R.M. 3	19.03	25 01 05.5
R.M. 1	35.20	131 12 25.5
R.M. 2	20.97	239 40 05.5

REFERENCE MONUMENT 107-46 (New Brunswick, York County; H.C.O. Clarke, 1917; 1946; 1955)--On the point that forms the W side of "The Narrows" in Spednik Lake, N 20°18'W, 66.1 meters from triangulation station HEIFER. The station is at the edge of the bushes, on a pyramidal boulder 1.5 meters square and 0.6 meter high, 100 feet N of the SE corner of the trees on the point.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the boulder, with two bullet holes in the post on the lakeside.

REFERENCE MONUMENT 108-46 (Maine, Washington County; H.C.O. Clarke, 1917; 1946; 1955)--On the E shore of and at the lower end of "The Narrows" in Spednik Lake. About 30 meters N of the station, a reef projects for about 100 meters into the water. There are three rocks of about the same size on the shore, two of which are about 6 meters apart, while the third is about 45 meters to the S. The station is on the most northerly of the three. Perpendicular to the shoreline this rock measures 3.7 meters across and parallel to the shoreline 2.4 meters. The station is 60 feet outside the timber and 150 feet S of the point between the two bays on the U. S. side of "The Narrows".



Station mark is a boundary reference post set in a drill hole in the rock.

GRANITE (U.S.C. & G.S.) (Maine, Washington County; J. Hergeshiemer, 1890; 1946)--Station lost in 1946, rock blasted.

MORRISON (Maine, Washington County; A. J. Brabazon, 1911; 1917; 1946)--On the S shore of Spednik Lake, on Morrison Point, 2/3 mile N of and below "The Narrows". It is on a rock 4.3 meters long, 2.9 meters wide, and 2.7 meters high. The somewhat pointed station rock is 80 feet outside the rocky beach on mean low water, 150 feet upstream from the extreme end of Morrison Point, and 150 feet downstream from another point at low water.

Station mark is a bronze disk set in a drill hole in the rock. A cross within a triangle is cut in a rock 10.41 meters upstream from the station; a like mark is cut in a big rock 16.01 meters inland from the station; and a third like mark is cut in rock toward a dugout 10.64 meters from the station. These are slope measurements.

A G.S. of C. reference disk is wedged in a flat rock 6 feet square, rising 1 inch to 10 inches above the beach, 96.8 feet inland from the station.

ERLE (New Brunswick, York County; N. W. Smith, 1946; 1955)--On SE point of the large wooded island on the Canadian side of Spednik Lake, facing R.M. 109, about 1/6 mile below "The Narrows". This point is covered by high water and is a solid rock field at low water. The station is on a flat rock 9 feet square and 3 feet high, 100 feet S of the E point of trees on the island, 100 feet N of the extreme point at low water, 100 feet outside the tree and high-water line W, 30 feet inside the mean low-water line, and 150 feet N of the extreme SE point of trees on the island.

Station mark is an I.B.C. bronze station disk set in a drill hole on the largest rock on the point.

Reference mark is a drill hole on a pointed rock on the high-water line, with a sheer face toward the lake, 10 feet long and 4 feet high with a rounded slope toward the line, 119.17 feet distant from the station.

REFERENCE MONUMENT 109-46 (Maine, Washington County; H. C. O. Clarke, 1917; 1946; 1955)--On the most westerly of three small islands on the United States side of the boundary at the mouth of "The Narrows" in Spednik Lake. It is on the Green Bay end of the island, on a rock 3 by 5 feet and 1 foot high. Station is just outside the tree line, 8 feet S of the N end of the trees, and is probably covered by extreme high water.

Station mark is a boundary reference post set in a drill hole in the rock.



REFERENCE MONUMENT 110-46 (New Brunswick, York County; H.C.O. Clarke, 1917; 1946; 1955)--On a small island in the mouth of Green Bay, on the channel end of the island, well above the high-water mark, on a triangular rock approximately 10 feet on each side and about  $2\frac{1}{2}$  feet high. The station rock is about the center of the point, 200 feet S of the tree line, and about on high-water line.

Station mark is a boundary reference post set in a drill hole in the rock.

REFERENCE MONUMENT 111-46 (Maine, Washington County; H.C.O. Clarke, 1917; 1946; 1955)--On the most easterly of the three small islands on the United States side of the boundary N of "The Narrows" in Spednik Lake. Indian Channel is SE of this island. The station is on the highest part of the island, in a ridge-shaped rock with a base 1 by 1.5 meters and 0.6 meter high. A cube-shaped rock 3 feet on a side with a 4-inch black-and-white pole 8 feet high beside it is about 2 meters E of the station.

Station mark is a boundary reference post set in a drill hole in the rock.

PEARCE (New Brunswick, York County; N.W. Smith, 1946; 1955)--On the E of the small Canadian Islands directly N of "The Narrows" in Spednik Lake and S of the W part of Lindsay Island. It is about the center of the rock field 150 feet N of the group of scrub trees near the S end of the island, which alone are above high water, except for the tops of some high boulders around the station. The station is on a flat-topped javelin-head shaped rock 17 feet in a NE-SW direction, 12 feet wide near the middle and 4 feet high which is among a group of huge boulders nearly as large.

Station mark is an I.B.C. bronze station disk set in a drill hole in the rock.

LOON (Maine, Washington County; A.J. Brabazon, 1911)--Lost in 1946.

ISLAND (New Brunswick, York County; A.J. Brabazon, 1911)--Lost in 1946.

REFERENCE MONUMENT 112-46 (New Brunswick, York County; H.C.O. Clarke, 1917; 1946; 1955)--About at high water level, on a light-colored, irregular, pyramidal rock in a small bay on the W side of the SE point of Lindsay Island in Spednik Lake, directly across the lake from Cold Water Tavern. At low water, this rock is 75 feet inland from the water line, a little nearer the W side of the bay, among a group of boulders, and is 220.9 meters W of station LINDSAY. The station is on a low spot on a rock about 9 feet in diameter and 5 feet high.



Station mark is a boundary reference post set in a drill hole in the rock.

LINDSAY (New Brunswick, York County; A.J. Brabazon, 1911; 1917; 1946; 1955)--On the mean low-water line, 75 feet W of the extreme SE point of Lindsay Island in Spednik Lake, at low water, and awash at high water. The station is on the largest rock on the beach, diamond shaped, 8 feet on a side and 4 feet high, with a slightly smaller pointed rock 30 feet inshore on a line to the point of woods.

Station mark is a U.S. & C.B. bronze station disk set in a drill hole in the center of the top of the rock.

INDIAN ISLAND (U.S.C. & G.S.) (New Brunswick, York County; C.H. Boyd, 1888; 1946; 1955)--On the E of two medium-sized boulders in the water S of the E of the two points on the S shore of Indian Island in Spednik Lake, about 3 miles above Vanceboro, 1 mile below "The Narrows", and is covered at high water. The station is 40 feet outside mean low water, on a rock 5 feet square and 4 feet high, smaller but slightly higher than the W of the two rocks, and is 2 feet above mean low water. Two much larger rocks are farther W off the W point at S end of the island.

Station mark is a U.S. & C.B. bronze station disk set in a drill hole within a triangle cut in the rock, 13.345 feet E of INDIAN ISLAND R.M.

An unlocated reference is a cross inside a triangle in a tent-shaped rock 6 by 4 feet and 3 feet high about 50 feet E of the station, on the mean low-water line.

INDIAN ISLAND R.M. (New Brunswick, York County; N.W. Smith, 1946; 1955)--On the more westerly and larger of the two rocks S of the E end of Indian Island in Spednik Lake. This slightly sloping rock is 7 feet square and 3 feet high, about 2 feet above mean low water, and more easily occupied with an instrument than the easterly rock.

Station mark is a G.S. of C. reference disk set in a drill hole at center of a cross within a triangle cut in the rock, with the arrow pointing to INDIAN ISLAND, 13.345 feet distant.

HOWLAND (U.S.C. & G.S.) (New Brunswick, York County; J. Hergeshiemer, 1890; 1908)--Near the summit of a high hill on the "Howland farm" which fronts on the E side of the Woodstock Road and is about 2 miles NE from Vanceboro, Me. Station is about  $\frac{1}{2}$  mile to the E and N of Howland's house, on a granite block in cleared pasture land, and is marked by a hole drilled in the rock.

HOWLAND 1917 (New Brunswick, York County, J.E. McGrath, 1911; 1917; 1946)--Near the summit of a high ridge on the old Howland farm, about 1-5/8 miles NE of Vanceboro, Me. The station is



on the N edge of the pasture, 0.6 meter S of the remains of the rail fence on the ground along the edge of the hardwood timber, about 122 meters W of the corner of the pasture, and about 30 meters W of the top of the ridge. There is a grove of old trees projecting 30 feet into the pasture, 20 feet E of the station, and scattered groups of small trees and brush are now growing in the abandoned farm pasture.

Station mark is a U.S. & C.B. bronze station disk set in a drill hole within a triangle in an outcropping rock 4 feet in diameter and projecting 4 inches above the ground. A cairn three feet in diameter and  $2\frac{1}{2}$  feet high is built over the station.

HOWLAND ECC (New Brunswick, York County; N.W. Smith, 1946)--In the old pasture of the abandoned Howland farm, a little nearer the SE than the NW side of the pasture, 60 feet W of the second growth trees and bushes along the stone and pole fence at rear of pasture. The pasture around the station is still open with only a few small trees and bushes on the W side of the station. The station is about 2 feet W of the line from HOWLAND to BRANDY HILL station, on a 7- by 10-foot rock 3 feet high on the S end and sloping to the ground on the N end.

Station mark is a G.S. of C. reference tablet set in a drill hole in the rock with arrow pointing to HOWLAND, 558.75 feet NW.

BRANDY HILL (U.S.C. & G.S.) (New Brunswick, York County; C.H. Boyd, 1888; 1917; 1946)--On a high hill about  $4\frac{1}{2}$  miles SE by E from Vanceboro, about  $3\frac{1}{2}$  miles SW of McAdam Junction on the Canadian Pacific Railway, and  $1\frac{1}{2}$  miles E of the St. Stephen-Woodstock Road. The station is at the summit of the hill, which is bare and fairly level, surrounded by high hardwood trees, making long lines of cutting necessary.

Station mark is an I.B.C. bronze station disk set in a drill hole in the bare rock ledge. A drill hole is 4 feet  $10\frac{1}{2}$  inches WNW of the station in the rock ledge.

REFERENCE MONUMENT 113-46 (Maine, Washington County; H.C.O. Clarke, 1917; 1946; 1955)--On the S shore of Spednik Lake, about  $\frac{2}{5}$  mile W of Haley Point, 30 meters W of Cold Water Tavern, 11 meters in from the edge of trees, and 50 meters from the water's edge at low water. A lone pointed boulder 10 by 9 feet and 6 feet high is 38 meters lakeward.

Station mark is a boundary reference post set in a concrete base.

REFERENCE MONUMENT 114-46 (New Brunswick, York County; H.C.O. Clarke, 1917; 1946; 1955)--On a small island in Spednik Lake, on the E side of Diggity Gap. There are three islands on the E side of the gap. The station is on the smallest and most westerly of the three. It is on the S side of the



island, on a boulder with a base about 3 by 3 meters and 1.5 meters high, just outside the high-water line.

Station mark is the center of the shank of a boundary reference post, broken off  $\frac{1}{2}$  inch below the surface, set in a drill hole in the rock.

DRAPER (Maine, Washington County; N.W. Smith, 1946; 1955)--On the S shore of Spednik Lake, on the next point W and about  $\frac{1}{4}$  mile from Haley Point, and  $3\frac{1}{4}$  miles uplake from Vanceboro, Me. The station is on a small rock about 3 feet square and 1 foot high on the beach, 35 feet outside the tree and high-water line, and 65 feet downstream from the log cabin known as "Camp Lookout". The shore in the vicinity is being improved and the station or references may be changed or destroyed in time.

Station mark is an I.B.C. bronze station disk set in a drill hole in the rock.

A G.S. of C. reference disk (R.M. 2) is set directly in-shore in a drill hole in the largest boulder on the high-water line on the point. Reference mark 1 is a drill hole in a large rock just outside the high-water line downstream from the reference disk and another drill hole in a boulder upstream is reference mark 3.

Object	Distance	Direction
MORRISON		0° 00' 00".0
R.M. 1	28.83 feet	226 57 35
R.M. 2	10.18 meters	232 04 01
R.M. 3	61.43 feet	279 56 50

HALEY (Maine, Washington County; A.J. Brabazon, 1911; H.C.O.C., 1917)--On Haley Point on the S shore of Spednik Lake, 3 miles above Vanceboro, Me. The station mark is a U.S. & C.B. bronze disk in a rock 4 feet square and  $1\frac{1}{2}$  feet high, on the open beach. This rock has moved and in 1946 was loose enough to be moved by hand, hence can be considered lost for triangulation purposes. Same position in 1955.

HALEY POINT (Maine, Washington County; N.W. Smith, 1946; 1955)--On Haley Point on the S shore of Spednik Lake, 3 miles above Vanceboro, Maine, and was a reference for station HALEY. The station is on a flat rock 4 feet square and 1 foot above the beach, 10 feet inside the low-water line, 3 feet under high water, and 11.6 feet from the present position of station HALEY.

Station mark is a G.S. of C. reference disk set in a drill hole in the center of the cross inscribed in a triangle cut in the rock.

Reference mark 1 is a drill hole in a flat-topped rock 5 by 8 feet and 4 feet high, downstream on the shoreline, projecting from the gravel beach.



Reference mark 2 is a drill hole in a flat-topped rock 2 feet square, about flush with the ground, 6 feet inshore from high water.

An old reference on a loose, tilted rock toward shore from station is a cross inside a triangle cut in the rock.

Object	Distance	Direction
DRAPER	feet	0° 00' 00" 0
HALEY	11.6	232 00 00
R.M. 1	70.83	232 53 00
R.M. 2	44.70	263 03 30
Ref. (old)	25.48	263 55 00

KING (New Brunswick, York County; N.W. Smith, 1946; 1955)--On an island N of Birch Point, 3 miles above Vanceboro, Me., and the largest and farthest E of the small islands on the E side of Diggity Gap. The station is on the highest part of the island, near the S side of the island, and a little above high-water level.

Station mark is an I.B.C. bronze station disk set in a drill hole in a small flat rock about 4 by 2 feet.

Reference mark 1 is a drill hole in a large boulder SW. Reference mark 2 is a drill hole in a small boulder W of the station.

Object	Distance	Direction
REFERENCE MONUMENT		
116	meters	00 00' 00" 0
R.M. 1	10.78	82 09 35
R.M. 2	5.79	159 11 45

REFERENCE MONUMENT 116-46 (New Brunswick, York County; H.C.O. Clarke, 1917; 1946; 1955)--On the E shore of Spednik Lake, about 3 miles above Vanceboro, Me., N of the upper end of O'Malley Island, and just above the smaller intervening island. The station is on a hogsback rock 14 by 7 feet and 5 feet high on the lake side and 15 feet inside the tree and high-water line. An evergreen tree is growing on top of the rock.

Station mark is a boundary reference post set in a drill hole in the rock.

BETULA (Maine, Washington County; A.J. Brabazon, 1912; 1917; 1946; 1955)--On the shore of Spednik Lake on Birch Point which is the first point above La Coute Point. It is below high-water mark on a light-colored rock, the largest on the point, 4.3 meters long, 3.9 meters wide at the end next the water, and running to a point inland. The side next the water is almost vertical and 2.4 meters high.

Station mark is a bronze disk set in a drill hole in the rock. Two holes are drilled in the rock; one on the upper side, 1.61 meters from the station; one on the lower



side, 1.76 meters from the station. A hole is drilled in a rock in the direction of the upper end of Pine Island, 3.39 meters from the station.

BORDEN (New Brunswick, York County; A.J. Brabazon, 1911)--  
Lost in 1946.

REFERENCE MONUMENT 115-46 (Maine, Washington County; H.C.O. Clarke, 1917; 1946; 1955)--On the W side of Birch Point, which is on the W side of the entrance to Mollie Cove, about 3 miles above Vanceboro, Maine. It is on the largest rock on the point, 15 feet in diameter and 10 feet high, and just outside the edge of trees. A similar rock adjoins it on the W and somewhat inshore.

Station mark is a boundary reference post set in a drill hole in the rock.

Station BETULA is 81.31 feet E and REFERENCE MONUMENT 115-A is 16.46 feet SW.

REFERENCE MONUMENT 115-A (Maine, Washington County; N.W. Smith, 1918; 1946; 1955)--On Birch Point, on the large boulder SW of and adjacent to REFERENCE MONUMENT 115. This boulder is in the edge of the bank, about 2 feet higher than the other boulder, and is being undermined by the water.

Station mark is a boundary station disk set in a drill hole in the rock.

CAMPUS (Maine, Washington County; A.J. Brabazon, 1911)--  
Lost in 1946.

FLAT TOP (New Brunswick, York County; A.J. Brabazon, 1911; 1946; 1955)--On the NW point of O'Malley Island in Spednik Lake,  $\frac{1}{4}$  mile N of La Coute Point. It is on a boulder 17 by 11 feet and 5 feet high, 125 feet SW of the N end of the island at low water, and will be covered at high water. It is just outside the low-water line on the island.

Station mark is a bronze disk set in a drill hole in the rock. Three holes are drilled in the rock around the station mark; one on the outer edge, 1.51 meters; one on the lower edge, 1.51 meters; and one on the upper edge, 1.62 meters from the station mark.

Reference mark 1 is a drill hole in a large boulder directly inland, just inside high-water line.

Reference mark 2 is a drill hole in a dome-shaped boulder 15 feet outside high-water line and 35 feet downstream.

Object	Distance	Direction
O'MALLEY	feet	0° 00' 00" 0
R.M. 1	128.9	219 26 05
R.M. 2	65.4	240 54 40



**BIG TOP** (Maine, Washington County; N.W. Smith, 1946; 1955)--On the rounding point about the center of Mollie Cove in Spednik Lake, about halfway between Birch Point and La Coute Point. It is on the largest boulder along the shore of the bay, 12 by 15 feet and 10 feet high, whose base is just below high-water line.

Station mark is an I.B.C. bronze station disk set in a drill hole in the boulder.

**LA COUTE** (Maine, Washington County; N.W. Smith, 1946; 1955)--On the beach at La Coute Point on the W shore of Spednik Lake, about 2 miles above Vanceboro, Me. It is about the center of the rounding point, 40 feet downstream from the extreme point at low water, 25 feet inside low-water line, 35 feet outside the tree and high-water line, and 3 feet below high water. It is directly out from the summer cottage called "Samarkand Camp", and 117.318 feet from REFERENCE MONUMENT 117.

Station mark is an I.B.C. bronze station disk set in a drill hole in an outcropping rock 2 by 2 feet and 2 feet high.

Reference mark is a drill hole in a solid outcropping rock 3 by 6 feet and 6 inches above the beach, 22.14 feet N of the station.

**REFERENCE MONUMENT 117-46** (Maine, Washington County; A.J. Brabazon, 1911; 1917; 1946; 1955)--On La Coute Point on the SW shore of Spednik Lake, about 2 miles above Vanceboro, Me. It is 2 meters inland from high-water mark, on a rock 4.4 meters long, 2.7 meters wide, and 1.4 meters high.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock. A cross within a triangle is cut in a rock 3.86 meters below the station; a like mark is cut in a rock 9.96 meters in the direction of Mollie Cove from the station; and a third mark is cut in a rock 12.19 meters from the station in such a direction that a line from this cross through the station passes between the other two crosses.

**O'MALLEY** (New Brunswick, York County; A.J. Brabazon, 1911; 1917; 1946; 1955)--On the S point of O'Malley Island, just below and across from La Coute Point in Spednik Lake. It is 12 feet outside the high-water line, on a flat triangular rock 8 feet long perpendicular to the water, by 6 feet across the base of the triangle nearest the woods, by 3 feet high at the point nearest the water.

Station mark is a bronze disk, stamped "U.S. & C.B.", set in a drill hole in the rock. A cross within a triangle is cut in a rock 4.36 meters N of the station; a like mark is cut in a rock 2.13 meters below the station; and a third like mark is cut in a rock 10.12 meters inland from the station.



REFERENCE MONUMENT 118-46 (New Brunswick, York County; H.C.O. Clarke, 1917; 1946; 1955)--On the S point of O'Malley Island, at the edge of the hardwood timber, on a boulder 3 by 3 feet and 1 foot high, 54.10 feet E of station O'MALLEY. In front of a summer camp in 1955.

Station mark is a boundary reference post set in a drill hole in the boulder.

TAR (Maine, Washington County; N.W. Smith, 1946; 1955)--On the first point (0.4 mile) downstream from La Coute Point in Spednik Lake, about  $1\frac{1}{2}$  miles above Vanceboro, Me. It is 3 feet outside tree and high-water lines, 30 feet upstream from a large boulder on the extreme point, with two larger rocks 40 feet and 60 feet S; a cottage is about 100 feet SW, and the station is about 50 feet inside the low-water line. A large spruce tree is immediately W of station.

Station mark is an I.B.C. standard station disk set in a drill hole in a rock 2 by 4 feet and 8 inches high.

Reference mark is a drill hole in a triangular boulder 10 feet on a side by 8 feet high on the shore side, on the high-water line, 42.92 feet S of the station.

SOFT (Maine, Washington County; A.J. Brabazon, 1911)--  
Lost in 1946.

TENT (New Brunswick, York County; A.J. Brabazon, 1911)--  
Lost in 1946.

GRAVEL (Maine, Washington County; A.J. Brabazon, 1911)--  
Lost in 1946.

MAXWELL (New Brunswick, York County; N.W. Smith, 1946; 1955)--  
On a rounded point, the second point above Casey Brook, on the E shore of Spednik Lake, about  $1\frac{3}{4}$  miles above Vanceboro, Me., and known locally as Maxwell's Landing. It is on a dome-shaped granite boulder 8 feet in diameter and 3 feet high on the beach, 50 feet outside the tree and high-water line.

Station mark is an I.B.C. bronze station disk set in a drill hole in the boulder.

Reference marks are drill holes in boulders. No. 1 is in a pyramidal boulder about 15 feet upstream and 15 feet inside the high-water line. No. 2 is in a long, horseback rock about 35 feet downstream and 25 feet inside the high-water line.

Object	Distance	Direction
REFERENCE MONUMENT		
119	feet	0° 00' 00" 0
R.M. 1	77.44	243 55 06
R.M. 2	118.95	296 32 11



REFERENCE MONUMENT 119-46 (New Brunswick, York County; H.C.O. Clarke, 1917; 1946; 1955)--On the E shore of Spednik Lake, 1.6 miles above Vanceboro, Me., and about 80 meters S of the point at the S side of the mouth of Casey Brook. It is just outside high-water line, at the foot of a little knoll about 16 meters high, on a dome-shaped rock with a base 1.8 by 1.4 meters, and a height of about 1 meter.

Station mark is a drill hole in the rock.

REFERENCE MONUMENT 119-A, which is a bronze disk set in a rock on the hillside 15 meters higher than the station, is ENE of the station 106.902 feet.

REFERENCE MONUMENT 119-A (New Brunswick, York County; N.W. Smith, 1918; 1946)--On the E shore of Spednik Lake, on the side of the knoll just S of the mouth of Casey Brook. This station is used as a reference mark for REFERENCE MONUMENT 119.

Station mark is a bronze disk set in a drill hole in a rock, 3 feet square and 1 foot high.

REFERENCE MONUMENT 120-46 (Maine, Washington County; A.J. Brabazon, 1911; 1917; 1946; 1955)--On Ice House Point on the W side of Spednik Lake, about  $1\frac{1}{4}$  miles above Vanceboro, Me., near the upper end of "The Horseback". It is on a boulder 10 by 7 feet and 6 feet high, on the high-water line on the E side of the point, about 80 feet S of the extreme end of the point, and in the edge of the trees.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock. A cross within a triangle is cut in a large rock 26.45 meters N from the station, another like cross is cut in a rock 5.63 meters inland from the station.

CASEY (New Brunswick, York County; A.J. Brabazon, 1911; 1924; 1946; 1955)--On the E shore of Spednik Lake, on a little point 300 meters below Casey Brook and opposite Ice House Point. It is on a rock 1.4 meters long, 1.2 meters wide, and 0.6 meter high, among small trees, just inside the high-water line.

Station mark is a bronze disk set in a drill hole in the rock. A cross within a triangle is cut in a rock projecting 1 foot above the ground, 15.15 meters upstream from the station; a like mark is cut in a rock projecting 2 feet above ground, 10.37 meters downstream from the station; a third like mark is cut in a rock projecting 1 foot above the ground, 14.66 meters inland from the station. There is an eyebolt and ring set in a drill hole in the rock.

BULK (Maine, Washington County; J.E. McGrath, 1911)--Lost in 1946.



HORSE (Maine, Washington County; J.E. McGrath, 1911)--  
Lost in 1946.

LACEY (New Brunswick, York County; A.J. Brabazon, 1911; 1917; 1946; 1955)--On the E shore of Spednik Lake, 1 mile N of Vanceboro, on Lacey's Point at the W side of the entrance to a little bay and slough just opposite the "lower cutting away place". It is on a rock 1.5 meters long and 0.7 meters wide projecting 0.3 meter above the ground. REFERENCE MONUMENT 122 is ENE 31.73 meters distant from the station.

Station mark is a bronze disk set in a drill hole in the rock. Two large rocks toward the water are in line with the station; the nearer one is marked by a cross within a triangle cut in the rock 12.93 meters from the station. A cross is cut in a rock with a sharp top projecting 1 foot above the ground, 4.21 meters uplake from the station.

REFERENCE MONUMENT 122-46 (New Brunswick, York County; H.C.O. Clarke, 1917; 1924; 1946; 1955)--On the E shore of Spednik Lake, 1 mile N of Vanceboro, Me., on Lacey's Point opposite "The Horseback" at the narrowest part of the lake. The station is on the slope of a little ridge which rises about 2.5 meters higher than the station, on a rock 1.5 by 1.2 meters in cross section and 0.5 meter high, 15 meters inside high-water line.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock. Triangulation station LACEY bears WSW, 31.73 meters from the station.

REFERENCE MONUMENT 121-46 (Maine, Washington County; H.C.O. Clarke, 1917; 1924; 1946; 1955)--On the W shore of Spednik Lake, about 1 mile N of Vanceboro, Me. It is on a pointed rock near high-water mark on the shore of a little bight just S of the narrowest place in the lake along "The Horseback". The rock is 1.7 by 1.4 meters at the ground and is 0.6 meter high.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock. Triangulation station McGRATH is N, 37.8 meters distant. A large pier in the lake bears N 14°E, 70 meters distant.

McGRATH (Maine, Washington County; J.E. McGrath, 1911; 1917; 1946; 1955)--On the W shore of Spednik Lake, about 1 mile N of Vanceboro, on a sandy shore at the outside of a little point at the narrowest part of the lake along "The Horseback". The station is outside the grass line below high-water mark, on an irregularly-shaped gray boulder whose greatest dimension is 2.4 meters and greatest height 1.6 meters. A large pier to which is attached a line of boom logs stands about 30 meters out in the lake from the station.



Station mark is a bronze disk marked "C. & G.S." set in a drill hole in the rock.

SEPT (New Brunswick, York County; J.E. McGrath, 1911; 1924; 1946; 1955)--On the E shore of Spednik Lake, on the second point above Varney Island, and nearly 1 mile N of Vanceboro, Me. It is on a large rock about 40 feet from the edge of the timbered shore. The rock is 10 by 10 feet and 10 feet high.

Station mark is a drill hole within a triangle cut in the highest point of the rock, 244.8 feet NNW of VARNEY.

VARNEY (New Brunswick, York County; N.W. Smith, 1946; 1955)--On the E side of Spednik Lake, on the S prong of the second point above Varney Island, and about a mile N of Vanceboro, Me. It is on a dome-shaped rock 7 by 10 feet and 3 feet high, 35 feet outside the timber and high-water line.

Station mark is an I.B.C. bronze station disk set in a drill hole in the rock, 244.8 feet S of SEPT. Drill hole only left in 1955.

PIERROT (Maine, Washington County; N.W. Smith, 1946)--Near the center of a rock pier about 50 feet outside the prominent point on the United States shore  $\frac{1}{4}$  mile N of Varney Island, opposite the lower end of the bay, or slough on the Canadian shore. Unmarked. The pier is the second N of Varney Island, in 1946.

NEW PIER (New Brunswick, York County; N.W. Smith, 1946; 1955)--On the first rock pier N of Varney Island, on a gravel bar which is covered by high water.

Station mark is an iron bolt in the top of the center cross beam near the top of the pier.

REFERENCE MONUMENT 123-46 (Maine, Washington County; H.C.O. Clarke, 1917; 1924; 1946; 1955)--About  $\frac{3}{4}$  mile N of Vanceboro, Me., on the highest part of "The Horseback", opposite Varney Island. It is about 3 feet E of the dirt road along the top of the ridge and 80 feet SW of a small shed.

Station mark is a boundary reference post set in a concrete base.

REFERENCE MONUMENT 124-46 (New Brunswick, York County; H.C.O. Clarke, 1917; 1924; 1946; 1955)--On Varney Island, in the lower end of Spednik Lake, about  $\frac{3}{4}$  mile N of Vanceboro, Me., opposite the Vanceboro landing. It is on the extreme top of the horseback formation of the island, near west central part of island.

Station mark is a standard 8-inch manganese-bronze reference post set in a concrete base.



REFERENCE MONUMENT 124 ECC (New Brunswick, York County, N.W. Smith, 1946)--Station is a wooden hub 13.038 meters W of REFERENCE MONUMENT 124, at the edge of the high bank of Varney Island.

BOGAN (New Brunswick, York County; N.W. Smith, 1946; 1955)--On Logan's Point on the lower side of "The Bogan" opposite Varney Island in Spednik Lake about  $\frac{1}{2}$  mile above Vanceboro, Me. It is on a flat-topped boulder 10 feet square and 4 feet high, the largest rock on the point, and on the W of the twin points at the S entrance to "The Bogan" at low water. Top of rock awash at high water and about a hundred feet outside the pasture fence across the point.

Station mark is an I.B.C. bronze station disk set in a drill hole in the rock. Disk gone, hole only in 1955.

BROWN 2 is 154.515 feet W.

VANCEBORO (Maine, Washington County; J.E. McGrath, 1911; 1924)--Lost (including subsurface mark disturbed) in 1946.

DOMINO (Maine, Washington County; N.W. Smith, 1946)--On the point on the United States shore across from the lower end of Varney Island. It is marked only by a hub in the sand at high-water line, just outside the bushes.

BROWN (New Brunswick, J. Hill, 1924)--Lost in 1946.

BROWN 2 (New Brunswick, York County; N.W. Smith, 1946; 1955)--On Logan's Point, on the lower side of "The Bogan", opposite the lower end of Varney Island in Spednik Lake about  $\frac{1}{2}$  mile above Vanceboro, Me. It is on a flat-topped boulder 7 by 13 feet and 3 feet high at highest end, located just below high-water line.

Station mark is an I.B.C. bronze station disk set in a drill hole in the rock.

Reference marks are drill hole in rocks. No. 1 is in a small flat rock near the corner fence post SE and the other in a larger pyramidal rock well below the high-water line N of the station.

Object	Distance	Direction
BOGAN	154.515 feet	0° 00' 00.0"
R.M. 2	9.35 meters	109 01 29
R.M. 1	10.09 meters	307 21 09

CEMETERY (New Brunswick, York County; J. Hill, 1924)--Not recovered in 1946.

CEMETERY 2 (New Brunswick, York County; N.W. Smith, 1946; 1955)--Station is a drill hole in a small rock in the cemetery in St. Croix, N.B. It is about 18 feet W of the gravestone of T.O. O'Malley in line to the fallen gravestone of Sarah Tague; and 20 feet E of a twin spruce tree.



PILE (New Brunswick, York County; N.W. Smith, 1946; 1955)--In the N part of St. Croix, N.B., 50 feet N of the road leading to the wooden dock of the Eastern Pulpwood Co., 65 feet inside the high-water line.

Station mark is a drill hole in a white rock at the edge of a large sawdust pile.

HUTCHINS' HOUSE CHIMNEY (Maine, Washington County; J. Hill, 1924; 1946; 1955)--On the W side of and at the lower end of Spednik Lake. The house is a summer cottage known as Hutchins' house, and stands about 250 meters above the dam at the foot of the lake on the NE edge of a little knoll on the W side of the road paralleling the lake shore. Station hidden from lake by trees in 1946.

Station mark is the center of the brick chimney, the only chimney on the house.

BLACK CHIMNEY (Maine, Washington County; N.W. Smith, 1946)--The high black stack on the Sunrise Farm Sawmill in the N part of Vanceboro, Me., about 800 feet above the dam. Sawmill and chimney gone in 1955.

#### ST. CROIX RIVER, VANCEBORO TO WOODLAND

REFERENCE MONUMENT 125-46 (Maine, Washington County; H.C.O. Clarke, 1917; 1924; 1946; 1955)--At Vanceboro, at the W end of the dam at the foot of Spednik Lake. It is on the W side of Water Street and on the S line of Johnson Street which crosses Water Street and continues across the dam to St. Croix, N.B.

Station mark is a standard 8-inch manganese-bronze reference post set in a concrete base. Monument removed in 1955 during road improvements but cavity for base remains.

REFERENCE MONUMENT 126-46 (New Brunswick, York County; H.C.O. Clarke, 1917; 1924; N.W.S., 1946; 1955)--At St. Croix, N.B., at the E end of the dam at the foot of Spednik Lake. It is 9 meters downstream from Johnson Road which crosses the river on the dam.

Station mark is a standard 8-inch manganese-bronze reference post set in a boulder about 2 by 2 meters in cross section and 0.7 meter high. Post broken off in 1955.

NE TABLET, HIGHWAY BRIDGE, VANCEBORO-ST. CROIX (Maine, Washington County; New Brunswick, York County; J. Hill, 1939; 1946; 1955)--On the rail on the NE side of the highway bridge over the St. Croix River between Vanceboro, Me., and St. Croix, N.B. It is marked by a standard bronze bridge tablet attached to the bridge rail.



SW TABLET, HIGHWAY BRIDGE, VANCEBORO-ST. CROIX (Maine, Washington County; New Brunswick, York County; J. Hill, 1939; 1946; 1955)--On the rail on the SW side of the highway bridge over the St. Croix River between Vanceboro, Me., and St. Croix, N.B. It is marked by a standard bronze bridge tablet attached to the bridge rail.

REFERENCE MONUMENT 127-46 (New Brunswick, York County; H.C.O. Clarke, 1917; 1924; N.W.S., 1946; 1955)--In the town of St. Croix, N.B., on the E side of the St. Croix River, 100 meters N of the Canadian Pacific Railway track, and about 50 meters W of the main street running N through the town of St. Croix. The station is on the property of James Rideout, near the property line facing the St. Croix River, and is directly behind a large barn.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a boulder 2 meters long and 1 meter wide at the base.

REFERENCE MONUMENT 129-46 (Maine, Washington County; H.C.O. Clarke, 1917; 1924; 1946; 1955)--In Vanceboro, about 200 meters N of the Canadian Pacific Railway, and 15.8 meters E of Water Street, on the property of Ed. Holbrook. The monument is 4.6 meters N of the property line between Getchel and Holbrook, on a hogback rock 1.8 meters long and 0.9 meter wide.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock.

NORTH TABLET, RAILROAD BRIDGE, VANCEBORO-ST. CROIX (Maine, Washington County; New Brunswick, York County; J. Hill, 1939; 1946)--Station is a standard bronze bridge tablet attached to the N side of the Canadian Pacific Rwy. bridge across the St. Croix River between Vanceboro, Me., and St. Croix, N.B.

SOUTH TABLET, RAILROAD BRIDGE, VANCEBORO-ST. CROIX (Maine, Washington County; New Brunswick, York County; J. Hill, 1939; 1946)--Station is a standard bronze bridge tablet attached to the S side of the Canadian Pacific Rwy. bridge across the St. Croix River between Vanceboro, Me., and St. Croix, N.B.

REFERENCE MONUMENT 128 (New Brunswick, York County; H.C.O. Clarke, 1917; 1924; 1939)--Lost in 1946.

REFERENCE MONUMENT 130-46 (Maine, Washington County; H.C.O. Clarke, 1917; 1924; 1946; 1955)--In Vanceboro, 104 meters S of the Canadian Pacific Rwy, 30 meters W of the W shore of the St. Croix River, and 122 meters E of the sawmill. It is on a small ridge that juts out toward the river.

Station mark is a standard 8-inch manganese-bronze reference post set in a concrete base.



Monument repaired and straightened in 1956. In dense brush in 1955.

VANCEBORO SCHOOLHOUSE FLAGSTAFF (Maine, Washington County; J. Hill, 1924)--Lost in 1946.

VANCEBORO UNION CHURCH SPIRE (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1888; Maine Geod. S., 1935)--Station lost.

VANCEBORO U.S. CUSTOMHOUSE FLAGSTAFF (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1888; Maine Geod. S., 1935)--Station is the flagstaff on top of the customhouse. It is 13.3 feet from the N side and 5.9 feet from the nearest corner of chimney of the building.

McADAM WATER TOWER (U.S.C. & G.S.) (New Brunswick, York County; C.H. Boyd, 1888)--At McAdam Junction, on the New Brunswick Rwy., about 6 miles E from the St. Croix River at Vanceboro. The tower is about 20 feet square and 50 feet high, painted grey with ornamental railing on top.

ST. CROIX (New Brunswick, York County; N.W. Smith, 1917; 1946; 1955)--Near the brow of a hill about  $\frac{1}{4}$  mile NE of the Canadian Pacific Rwy., bridge at St. Croix, N.B., about 350 feet N at right angles from that railroad, 40 feet W of the center of a narrow road through the woods leading S from the McAdam road, and E of and parallel to the main street in St. Croix. The station is 18 feet NW of a large flat rock 6 feet in diameter and 3 feet high, 200 feet SW of a cabin on the E side of the narrow road at the top of the grade from the McAdam road. A 7-inch cedar tree with a triple top is growing at the NW edge of the station rock.

Station mark is a U.S. & C.B. Survey bronze disk set in a drill hole in a round rock 4 feet in diameter and  $1\frac{1}{2}$  feet high, among a bed of rocks in new growth timber, 75 feet E of the top of the slope leading W to village of St. Croix.

VANCEBORO BENCH MARK (Maine, Washington County; J.E. McGrath, 1911; 1924)--Lost in 1946.

WEST ABUTMENT (Maine, Washington County; J.E. McGrath, 1911; 1924)--Lost in 1946.

EAST ABUTMENT (New Brunswick, York County; J.E. McGrath, 1911; 1924)--Lost in 1946.

HARTLEY (New Brunswick, York County; J. Hill, 1924)--Lost in 1946.

TAN (New Brunswick, York County; N.W. Smith, 1946)--About 50 feet S of the Canadian Pacific Rwy., track, 30 feet from the river, in St. Croix, N.B. It is near the S end of the



third concrete pier from the river, in the foundation of a mill originally occupying the site. This mark can be used in place of REFERENCE MONUMENT 128, destroyed.

Station mark is an I.B.C. bronze station disk set in a drill hole in the concrete, about 1 foot S of an iron bolt in the pier. Lost in 1955.

SHED (New Brunswick, York County; N.W. Smith, 1946)--Unmarked and on top of the railroad embankment in St. Croix, N.B. The station is a few feet on the N side of the tracks, nearly opposite the tool house on S side of tracks.

WHARF (New Brunswick, York County; N.W. Smith, 1946)--Unmarked and on the old wharf about 500 feet downstream from the Canadian Pacific Rwy. tracks in St. Croix, N.B.

VANCEBORO SCHOOLHOUSE CHIMNEY (Maine, Washington County; N.W. Smith, 1946; 1955)--The center of the high chimney near the S end of the Vanceboro schoolhouse, on the N side of the railroad track in Vanceboro.

BORO (Maine, Washington County; N.W. Smith, 1946)--In the S part of Vanceboro, on the high bank of the river E of the center of the large gravel pit. The station is 12 feet E of the bank of the pit, 6 feet E of the path along the bank, 6 feet W of the top of the high bank of the river, 10 feet above the river, and 20 feet N of the cedar thicket on the high river bank.

Station mark is a wooden hub.

REFERENCE MONUMENT 131-46 (New Brunswick, York County; N.W. Smith, 1917; 1946)--On the E shore of the St. Croix River, about  $\frac{3}{4}$  mile below the Canadian Pacific Rwy. bridge at Vanceboro, Me., and about  $\frac{1}{2}$  mile upstream from the upper end of Wingdam Island. It is opposite a prominent point of the river which is 10 feet inside tree line, and 30 feet on the W shore above a point on the Canadian shore.

Station mark is a standard 8-inch manganese-bronze reference post set in a concrete base.

REFERENCE MONUMENT 132-46 (Maine, Washington County; N.W. Smith, 1917; 1946; 1955)--On the W shore of the St. Croix River,  $\frac{3}{4}$  mile below the Canadian Pacific Rwy. bridge at Vanceboro. It is about 100 meters N of the head of a little bay which is W of a prominent point on the United States shore. It is about 325 meters NE of the cemetery and 25 meters from the river.

Station mark is a standard 8-inch manganese-bronze reference post set in a concrete base.



REFERENCE MONUMENT 133-46 (New Brunswick, York County; N.W. Smith, 1917 and 1946)--On the E shore of the St. Croix River, 2 miles below Vanceboro, Me., directly opposite the extreme lower end of Wingdam Island, and opposite the middle of the lower reach of Elbow Rips. The station is 6 meters from the river bank, on a rock about 1.5 meters in diameter and 0.9 meter high.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock.

REFERENCE MONUMENT 134-46 (Maine, Washington County; N.W. Smith, 1917; 1946)--About 2 miles below Vanceboro, on the extreme lower end of Wingdam Island in the St. Croix River. It is 22 meters inshore from the rips, 13 meters from the shore of the W channel of the river, opposite Salmon Brook, and on a rock 1.5 by 0.9 by 0.9 meter in size.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock.

REFERENCE MONUMENT 135-46 (New Brunswick, York County; N.W. Smith, 1917; 1946)--On the E shore of the St. Croix River, about 46 meters above the head of Mile Rips, on a large outcropping boulder which projects about a meter into the river. It is surrounded by water at times.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the boulder.

REFERENCE MONUMENT 135-A-46 (New Brunswick, York County; J.E. McGrath, 1910; N.W.S., 1921; 1946)--On the E shore of the St. Croix River, near the lower end of Mile Rips, at the elbow of the stream opposite the Holbrook farm. The station is near the low-water mark of the stream, on a boulder 1.4 meters long, 1 meter wide, and 0.7 meter high. The point back of the station is wooded.

Station mark is a bronze disk marked "U.S. & C.B. SURVEY" set in a drill hole in the boulder.

REFERENCE MONUMENT 136-46 (Maine, Washington County; N.W. Smith, 1917; 1946)--On the W shore of the St. Croix River, about 90 meters above the head of Mile Rips. It is 20 meters downstream from a woven-wire fence and 3 meters from the river bank, on a boulder that projects 1 foot out of the ground.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the boulder.

REFERENCE MONUMENT 136-A-46 (Maine, Washington County; J.E. McGrath, 1910; N.W.S., 1921; 1946)--On the W bank of the St. Croix River, at the elbow of the stream near the lower end of Mile Rips. It is at the landing place at the Holbrook farm, on an igneous rock about 1 meter in cross section and



$\frac{1}{2}$  meter high, that extends outside the shoreline about 0.6 meter.

Station mark is a C. & G.S. bronze disk set in a drill hole in the rock.

REFERENCE MONUMENT 137-46 (New Brunswick, York County; N.W. Smith, 1917; 1946)--On the large island in the St. Croix River,  $\frac{1}{4}$  mile below Mile Rips. It is about midway between the upper and lower ends of the island, 6.5 meters from the SW or main channel shore, and 9 meters N of the largest birch tree on the island, in a spruce grove.

Station mark is a standard 8-inch manganese-bronze reference post set in a concrete base. Station repaired in 1939.

REFERENCE MONUMENT 138-46 (Maine, Washington County; N.W. Smith, 1917; 1946)--On the W bank of the St. Croix River, opposite the large island that is  $\frac{1}{4}$  mile below Mile Rips. It is on the property of Mr. Holbrook,  $\frac{1}{4}$  mile below the abandoned farmhouse used as a river drivers' camp, and is 12 meters from the river bank.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a rock.

ELBOW RIP (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1888; 1917; 1946)--In the old orchard of the Holbrook Farm, on the hill on the W side of the St. Croix River, about  $3\frac{1}{4}$  miles below Vanceboro, almost directly W of the upper point of the large island in the river below the foot of the Mile Rips. The station is on a pyramidal granite rock with a triangle cut in it, the highest of a number on the hill, about 75 feet N of the old stone wall, 100 feet W of the old road leading to Vanceboro, which was passable in 1946 to a point 400 feet N of the station, and about 800 feet S of the foundation of the old house on the Holbrook Farm.

Station mark is a C. & G.S. bronze station disk set in a drill hole in the rock.

REFERENCE MONUMENT 137-A-46 (New Brunswick, Charlotte County; N.W. Smith, 1921; 1946)--On the S shore of the elbow of the St. Croix River, about 210 meters W of English Cove, about 15 meters downstream from the point where the grass along English Cove stops at the wooded bank, and 1.3 meters back from the water line, in the tree line.

Station mark is a U.S. & C.B. Survey bronze disk set in a pointed rock.

REFERENCE MONUMENT 137-B-46 (New Brunswick, Charlotte County; N.W. Smith, 1921; 1946)--Just inside the high-water line on the S side of the St. Croix River, 125 feet upstream from



from a point, and 600 feet above the point opposite American Cove. It is on a boulder 6 by 8 feet and  $2\frac{1}{2}$  feet high in the edge of the bushes.

Station mark is a U.S. & C.B. Survey bronze disk set in a drill hole in the boulder.

REFERENCE MONUMENT 139-46 (New Brunswick, Charlotte County; N.W. Smith, 1917; 1946)--On the S bank of the St. Croix River, near the middle of the first reach of Tunnel Rips. It is 137 meters downstream from the Porter Meadows River Drivers' Camp on the opposite side of the river, 3.7 meters from the river bank, and 6 meters from the river.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a boulder 4 by 5 feet and 2 feet high.

REFERENCE MONUMENT 140-46 (Maine, Washington County; N.W. Smith, 1917; 1946)--On the N bank of the St. Croix River, about 140 meters below Porter Meadows River Drivers' Camp and opposite the middle of the first reach of Tunnel Rips. It is about 2.4 meters from the river bank, in a small grass plot.

Station mark is a standard 8-inch manganese-bronze reference post set in a concrete base.

REFERENCE MONUMENT 141-46 (New Brunswick, Charlotte County; J.E. McGrath, 1910; N.W. Smith, 1917; 1946)--On the S bank of the St. Croix River, 1.6 miles below American Cove at the narrow part of the river at the head of Halls Rips.

Station mark is a standard 8-inch manganese-bronze reference post in a drill hole in a huge boulder that projects about 1.5 meters into the stream.

REFERENCE MONUMENT 142-46 (Maine, Washington County; J.E. McGrath, 1910; N.W. Smith, 1917; 1946)--On the N bank of the St. Croix River, 1.6 miles below American Cove at the narrow part of the river at the head of Halls Rips.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a huge boulder nearly surrounded by water.

REFERENCE MONUMENT 143-46 (New Brunswick, Charlotte County; N.W. Smith, 1917; 1946)--On the S bank of the St. Croix River, about 200 meters below the mouth of Halls Brook, at the elbow of the river, opposite the point known as "The Cape". The river suddenly widens just below the station. The station is on a boulder 1 meter from the river bank, just inside the tree line.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a small boulder.



REFERENCE MONUMENT 144-46 (Maine, Washington County; N.W. Smith, 1917; 1946)--On the N bank of the St. Croix River, about 200 meters below the mouth of Halls Brook. It is  $\frac{3}{4}$  mile above Little Falls, near the tip of the peninsula known as "The Cape", and is on a rock which is separated from the shore by 1.5 meters of water. The station is covered by water during extreme floods.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock.

REFERENCE MONUMENT 145-46 (New Brunswick, Charlotte County; N.W. Smith, 1917; 1946)--On the S bank of the St. Croix River, at the foot of Little Falls, on a rocky ledge projecting into the river, is 1 meter from the bank of the river, and is nearer the downstream than the upstream side of the ledge. It is 15 meters upstream from the Canadian point at the foot of the falls.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the ledge. A bronze disk set in a drill hole within a triangle cut in the rock bears S 15°56'E, 8.51 meters distant from the station.

REFERENCE MONUMENT 146-46 (Maine, Washington County; N.W. Smith, 1917; 1946)--On the E bank of the St. Croix River, near the middle of Little Falls, on the top of the rocky ledge about 3 meters inshore from the river bank.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the ledge. A bronze disk bench mark set in the same ledge bears S 54°54'W, 1.22 meters distant from the station.

REFERENCE MONUMENT 147-46 (New Brunswick, Charlotte County; N.W. Smith, 1917; 1946)--On the S shore of the St. Croix River, opposite Duck Point, about 275 meters upstream from the upper reach of Cedar Island Rapids, about 1.7 miles below Little Falls. The Duck Point River Drivers' Camp is about 100 meters downstream from the station and on the opposite shore.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a rock on the shoreline.

REFERENCE MONUMENT 148-46 (Maine, Washington County; N.W. Smith, 1917; 1946)--On the N bank of the St. Croix River, on Duck Point 1.7 miles below Little Falls, and about 300 meters above the upper reach of Cedar Island Rips. It is 100 meters upstream from the Duck Point River Drivers' Camp and 9 meters from the river bank.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a rock.



DUCK (Maine, Washington County; J. Hill, 1924; 1946)--On the N bank of the St. Croix River, on the W side of Duck Point, about 200 meters above the upper reach of Cedar Island Rips, and near the old Duck Point River Drivers' Camp. It is 72 meters downstream from REFERENCE MONUMENT 148, at the edge of the stream, on a boulder 1.2 by 1.2 meters in size and 0.9 meter high.

Station mark is a bronze disk set in a drill hole in the boulder.

REFERENCE MONUMENT 149-46 (New Brunswick, Charlotte County; N.W. Smith, 1917; 1946)--On the S bank of the St. Croix River, 2.8 miles below Little Falls, and at the head of Tyler Rips. It is on the top of a large outcropping boulder 3 meters above the water and 4 meters out from the river bank.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the boulder.

REFERENCE MONUMENT 150-46 (Maine, Washington County; N.W. Smith, 1917; 1946)--On the N bank of the St. Croix River, 2.8 miles below Little Falls, on the extreme point of Boot Point at the head of the Tyler Rips. It is on a huge boulder separated from the shore at high water.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the boulder.

BOOT POINT BENCH MARK (Maine, Washington County; N.W. Smith, 1917; 1946)--On the N bank of the St. Croix River at the head of the bay at Boot Point, about 150 meters above Tyler Rips and REFERENCE MONUMENT 150, and about 10 meters inside the tree line.

Station mark is a bronze bench-mark disk set in a drill hole in a large boulder 6 by 9 feet and 3 feet high.

REFERENCE MONUMENT 151-46 (New Brunswick, Charlotte County; N.W. Smith, 1917; 1946)--On the S bank of the St. Croix River, about 4 miles below Little Falls, 60 meters above the mouth of Scott Brook, on the W side of a point made by a bend in the river.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a large boulder on the shoreline.

REFERENCE MONUMENT 152-46 (Maine, Washington County; N.W. Smith, 1917; 1946)--On the N bank of the St. Croix River, about 4 miles below Little Falls, and about 60 meters upstream from the mouth of Scott Brook.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a large boulder projecting 1.2 meters out into the river.



SCOTT BROOK (Maine, Washington County; J. Hill, 1924; 1946)--On the N bank of the St. Croix River, 15 meters upstream from the mouth of Scott Brook. It is on a boulder 1.8 meters square and 1.2 meters high and detached from the shore about 3 meters when water is high.

Station mark is a bronze disk set in a drill hole in the boulder which is on the beach at low water.

REFERENCE MONUMENT 153-46 (New Brunswick, Charlotte County; N.W. Smith, 1917; 1946)--On the E shore of the St. Croix River, just above the head of Rocky Rips. There is a small island in the river about 50 meters upstream from the station.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a rock on the bank.

REFERENCE MONUMENT 154-46 (Maine, Washington County; N.W. Smith, 1917; 1946)--On the W bank of the St. Croix River, about 60 meters above the head of Rocky Rips.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a rock on the bank of the river, 8 feet inside the line of bushes along the bank.

REFERENCE MONUMENT 154-A-46 (Maine, Washington County; J.E. McGrath, 1911; N.W.S., 1917; 1946)--On the W bank of the St. Croix River, 12 meters N of the shore end of the wingdam near the head of Rocky Rips. It is 255 meters downstream from REFERENCE MONUMENT 154.

Station mark is a C. & G.S. bronze station disk set in a drill hole in a large boulder. The Rocky Rips Bench Mark of the International Boundary Commission is in the same rock 0.235 meter W of the station. This bench mark is stamped "U.S. & C.B. SURVEY B.M. 270".

MUSQUASH MOUNTAIN (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1888)--On the summit of Musquash Mountain near the line between the townships of Topsfield and Talmadge, 5 miles SW from the post office of Topsfield. Station is a pole in the tallest spruce tree on the summit. The tree has a triangle cut on it.

TOMAH MOUNTAIN (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1888; N.W.S. 1918; 1946)--On the summit of Tomah Mountain in the W part of Codyville Township, about 14 miles W by S from Vanceboro, and nearly NE of Topsfield. The station is on a bare ledge in a cleared area, 2 feet W of the summit of the ledge.

Station mark is a drill hole within a 10-inch triangle cut in the rock.

McGLINCHY (Maine, Washington County; N.W. Smith, 1917)--On the highest point of the old McGlinchy field, about 1/3 mile W



of Rocky Rips of the St. Croix River. It is near the middle of the N end of the oval ridge and about 180 meters W of the old cellar where the McGlinchy house stood.

Station mark is a bronze disk marked "U.S. & C.B. SURVEY" set in a drill hole in a rock and buried 0.25 meter underground.

NEAL (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1908; N.W.S., 1917; 1946)--On the highest point of the ledge on the summit of Neale Hill, a high, rocky-topped hill, densely covered with evergreen trees, on the E side of the Princeton-Danforth road, about 8 miles from Princeton, and about a mile S of Waite Post Office. Station is directly E from an old barn on the W side of the road.

Station mark is an I.B.C. bronze station disk set in a drill hole within a triangle cut in the ledge rock. Two drill holes in the same ledge are in line N, distant 5.09 meters and 10.88 meters from the station.

REFERENCE MONUMENT 155-46 (New Brunswick, Charlotte County; N.W. Smith, 1917; 1946)--On the E bank of the St. Croix River, about 550 meters below the mouth of Rolf Brook, near the middle of Split Rock Rips, and nearly opposite the shore end of a wing dam.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a boulder on the river bank. This was stamped "551". The final "1" has been mutilated and a "l" prefixed to the "55".

REFERENCE MONUMENT 156-46 (Maine, Washington County; N.W. Smith, 1917; 1946)--On the W bank of the St. Croix River, about 550 meters below the mouth of Rolf Brook, about the middle of Split Rock Rips, and 27 meters above the inshore end of a wing dam.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a rock on the shoreline of the river.

SPLIT ROCK (Maine, Washington County; J. Hill, 1924; 1946)--In the St. Croix River, near the middle of Split Rock Rips. It is 12 meters from the W shore, 3 meters SW from the river end of the wing dam, on a large flat-topped boulder that adjoins another large boulder at the end of the dam.

Station mark is a bronze disk set in a drill hole within a triangle cut in the boulder.

REFERENCE MONUMENT 157-46 (New Brunswick, Charlotte County; N.W. Smith, 1917; 1946)--On the E side of the St. Croix River, about the middle of Meetinghouse Rips, about 45 meters above Meetinghouse Rock, and opposite the mouth of Little Simsquish Brook.



Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a large outcropping boulder cut in the river.

REFERENCE MONUMENT 158-46 (Maine, Washington County; N.W. Smith, 1917; 1946)--On the W side of the St. Croix River, near the middle of Meetinghouse Rips, about 50 meters upstream from Meetinghouse Rock, and at the mouth of Little Simsquish Brook.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a rock on the shoreline.

MEETINGHOUSE ROCK (New Brunswick, Charlotte County; N.W. Smith, 1921; 1946)--On the E side of the St. Croix River, near the middle of Meetinghouse Rips, on a large boulder in the river, inshore from the large pointed boulder known as Meetinghouse Rock.

Station mark is a bronze disk set in a drill hole within a triangle cut in the boulder.

REFERENCE MONUMENT 159-46 (New Brunswick, Charlotte County; N.W. Smith, 1917; 1924; 1946)--On the E side of the St. Croix River, about 1 mile below Meetinghouse Rock, on the narrow place in the river between the upper and middle groups of Grasey Islands, a little below the old Elisha Keene farmhouse.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a rock 3 meters from the riverbank.

REFERENCE MONUMENT 160-46 (Maine, Washington County; N.W. Smith, 1917; 1924; 1946)--On the W bank of the St. Croix River, about 1 mile below Meetinghouse Rock, on the narrow place in the river between the upper and middle groups of Grassy Islands, and about 50 meters downstream from the old Elisha Keene farmhouse.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a rock on the riverbank.

GRASSY (Maine, Washington County; J. Hill, 1924; 1946)--On the W shore of the St. Croix River, about 7/8 mile below Meetinghouse Rock, on the narrow portion of the river between the upper and middle groups of the Grassy Islands. Station is in front of the old Elisha Keene home, on the edge of the shore, on a conglomerate boulder 1.5 meters in diameter. REFERENCE MONUMENT 160 is about 120 meters downstream from the station.

Station mark is a bronze disk set in a drill hole within a triangle cut in the boulder.



GRASSY ISLAND BENCH MARK (Maine, Washington County; N.W. Smith, 1917; 1946)--On the W bank of the St. Croix River, about half-way down the open "Keene" field, and opposite the head of the largest island of the middle group of Grassy Islands.

Station mark is a bronze bench-mark disk in a drill hole in a large rock near the bank of the river, 20 feet from the water, and 50 feet upstream from the place the open field comes down to the shore of the river.

KEENE (Maine, Washington County; N.W. Smith, 1917)--On a high triangular knoll on the old clearing just S of the Keene farmhouse at Grassy Islands in the St. Croix River. The station is on about the highest point of, and equally distant from the three corners of the knoll.

Station mark is a bronze disk marked "U.S. & C.B. SURVEY" set in a drill hole in a rock and buried about 20 inches underground.

REFERENCE MONUMENT 161-46 (New Brunswick, Charlotte County; N.W. Smith, 1917; 1946)--On the E shore of the St. Croix River, about  $\frac{1}{4}$  mile below the lower end of Grassy Islands, at the head of Haycock Rips, and about 50 meters above the shore end of a wing dam. Haycock Brook flows into the river on the opposite shore a short distance downstream from the station.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a rock on the shoreline.

REFERENCE MONUMENT 162-46 (Maine, Washington County; N.W. Smith, 1917; 1946)--On the W bank of the St. Croix River,  $\frac{1}{4}$  mile below the lower end of Grassy Islands, near the head of Haycock Rips. Haycock Brook flows into the river about 50 meters downstream from the station and a wing dam is built out from the opposite shore.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a large rock on the shoreline. This monument repaired in 1939.

IRISH (New Brunswick, Charlotte County; A.J. Brabazon, 1911; 1946)--On the E bank of the St. Croix River, near the head of the broad portion of the river known as Loon Bay. The station is 180 meters below the big rock at the ferry landing, in the McGlinchy field 18 feet in from the river bank where a clump of cedars grow on a prominent point S of the landing at end of the new road, on a rock about 0.8 meter in diameter and 0.4 meter high.

Station mark is a bronze disk set in a drill hole in the rock. A cross within a triangle is cut in a rock 6.49 meters inland from the station, and a like mark is cut in



a rock 6.87 meters downstream from the station; another like mark is cut in a rock 6.97 meters upstream from the station.

COOT (New Brunswick, Charlotte County; A.J. Brabazon, 1911; 1917; 1946)--At the head of a deep bay on the E shore of the St. Croix River, at the head of the wide section of the river known as Loon Bay. It is about 30 feet below the old road at the ferry landing and 300 feet above the end of the new road on the point below the station. It is on a rock about 15 by 10 feet and 7 feet high and rises out of the water just outside the bushes.

Station mark is a plain bronze disk with a triangle cut in it set in a drill hole in the rock.

ROCK (Maine, Washington County; A.J. Brabazon, 1911; 1917; 1946)--In the St. Croix River, near the head of Loon Bay, about 75 meters downstream from the lower and larger island at the head of the bay. It is on a large rock in the middle of the stream opposite the end of the road from Canoose Post Office.

Station mark according to old description was a bronze disk set in a drill hole in the rock. In 1946, the E half of the top of the rock had flaked off and there was a deep cross cut in the rock about the center of the top and at the W edge of the portion where top was gone. Position should be checked from COOT and IRISH before being used for accurate survey work.

REFERENCE MONUMENT 163-46 (New Brunswick, Charlotte County; N.W. Smith, 1917; 1946)--On the E bank of the St. Croix River, about 340 meters above the lower end of Loon Bay, and 280 meters above the mouth of Trout Brook.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a large light-colored rock just outside the shoreline.

REFERENCE MONUMENT 164-46 (Maine, Washington County; N.W. Smith, 1917; 1946)--On the W shore of the St. Croix River, on the prominent point that is about 300 meters above the lower end of Loon Bay.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a rock 5 feet in diameter and 1 foot high about 1 meter inside the shoreline.

CANOOSE BENCH MARK (Maine, Washington County; N.W. Smith, 1917; 1946)--Bench mark is about 600 feet NW of REFERENCE MONUMENT 166, 9/16 mile above the mouth of the Canoose River, in the clearing occupied by the Canoose River Drivers Cabin on the W side of the St. Croix River. It is about 15 feet NE of the cabin on the S edge of the path from the cabin to the river, on a rock 6 by 4 feet and  $2\frac{1}{2}$  feet high.



Bench mark tablet in a drill hole in the rock is stamped "U.S. & C.B. SURVEY B.M. 239".

REFERENCE MONUMENT 165-46 (New Brunswick, Charlotte County; N.W. Smith, 1917; 1939; 1946)--On the E bank of the St. Croix River, about 7/16 mile above the mouth of the Canoose River, opposite the brink of the Canoose Ledges, at the head of Canoose Rips. Station is 8 feet back from the river and 4 feet above normal-water level.

Station mark is an I.B.C. bronze disk set in cement in the hole where the reference monument was originally placed. Three arrows are cut in rounded rocks. One is about 14 feet ENE, one about 14 feet ESE, and one about 12 feet SSE.

REFERENCE MONUMENT 166-46 (Maine, Washington County; N.W. Smith, 1917; 1946)--On the W bank of the St. Croix River, about 7/16 mile above the mouth of Canoose River, and just above the Canoose Ledges and Rips, in a rock 2 by 3 feet and 1 foot high.

Station mark is a standard 8-inch manganese-bronze reference post set in a rock about 6 feet from the shoreline and about 3 feet above the normal-water level. Station was repaired in 1939.

CANOOSE (New Brunswick, Charlotte County; N.W. Smith, 1917)--On the highest point of a ridge about 225 meters E of the St. Croix River and about 500 meters N of the Canoose River.

Station mark is a bronze disk marked "U.S. & C.B. SURVEY" set in a drill hole in a rock and buried 14 inches underground.

OAK (U.S.C. & G.S.) (New Brunswick, Charlotte County; C.H. Boyd, 1887; 1917; 1946)--On the flat summit of Oak Hill, about 10 miles N of St. Stephen, on the E side of the old Ridge Road, also known as the Oak Hill Road. The station is 150 feet back from the W edge of the flat top directly up from the spring at the base of the hill near the road, and is in a group of second growth spruce within a heavy growth of spruce and cedar. One spruce tree is growing very close to the station.

Station mark is an I.B.C. bronze station disk set in a drill hole within a triangle cut in the rock. A cairn was built over the station mark.

COTTAGE (New Brunswick, Charlotte County; A.J. Brabazon, 1910; 1946)--On the E shore of the St. Croix River, just below the mouth of Canoose River. It is on an outcropping rock only a little above the surface of the ground, 6.23 meters from the NW corner of Ham's new cottage.

Station mark is a broken bronze bolt or shaft of tablet



set in a drill hole in the rock. A cross is cut in a rock flush with the ground 4.25 meters riverward from the station. A piece of iron pipe is driven in the ground below the surface 3.70 meters upstream and riverward from the station. Another piece of iron pipe is similarly planted 3.83 meters downstream and a little riverward from the station. "C.R.M." is cut in the rock.

WING (Maine, Washington County; A.J. Brabazon, 1910; 1924)--On the W shore of the St. Croix River opposite the lower end of the lower island at the mouth of the Canoose River.

Station mark is the center of a cross cut in a rock, near the shore.

BOLES (New Brunswick, Charlotte County; A.J. Brabazon, 1910)--On the E side of the St. Croix River a little upstream from a small island about midway between the Canoose River and the Guzzle.

Station mark is the center of a cross cut in the rock.

CLEAR=T.S. J-2f, 1921 (Maine, Washington County; A.J. Brabazon, 1910; 1921)--On the W side of the St. Croix River, opposite a little island somewhat over halfway downstream from the Canoose River to the Guzzle.

Station mark is the center of a cross cut in the rock.

ROAD (Maine, Washington County; A.J. Brabazon, 1910)--On the W side of the St. Croix River, nearly opposite, but a little above, the mouth of the Guzzle.

Station mark is the center of a cross cut in a rock.

DINGLE (New Brunswick, Charlotte County; A.J. Brabazon, 1910)--On the E side of the St. Croix River, about midway between the Guzzle and a little island upstream from it.

Station is marked by the center of a cross cut in a rock.

GUZZLE (New Brunswick, Charlotte County; A.J. Brabazon, 1910)--On the E side of the St. Croix River at the lower side of the Guzzle, which is about  $\frac{1}{4}$  of a mile upstream from Dog Falls.

Station mark is the center of a cross cut in a rock on the shore.

MIDWAY (Maine, Washington County; A.J. Brabazon, 1910)--On the W side of the St. Croix River about  $\frac{1}{3}$  of the way upstream from Dog Falls to the Canoose River and about 350 feet above a little brook.

Station mark is the center of a cross cut in a rock.

SHAD (Maine, Washington County; A.J. Brabazon, 1910)--On the W side of the St. Croix River, about 800 feet upstream from Dog Falls, and 100 feet below a small brook.

Station mark is the center of a cross cut in a rock.

MIDDLE (New Brunswick, Charlotte County; A.J. Brabazon, 1910)--On the E side of the St. Croix River, about 300 feet upstream from the first bend in the river above Dog Falls.

Station mark is the center of a cross cut in a rock.

HUT (Maine, Washington County; A.J. Brabazon, 1910)--On the W side of the St. Croix River about 350 feet upstream from Dog Falls.

Station mark is the center of a cross cut in a rock.

DAM (Maine, Washington County; A.J. Brabazon, 1910)--On the W side of the St. Croix River at the head of Dog Falls.

Station mark is the center of a rather indistinguishable cross cut in the rock.

DINK (Maine, Washington County; A.J. Brabazon, 1910)--On the W side of the St. Croix River opposite the lower island in Dog Falls. A pine is growing close to the rock the station is on.

Station mark is the center of a cross cut in a big rock.

FOOT (New Brunswick, Charlotte County; A.J. Brabazon, 1910)--On the E side of the St. Croix River midway between the lower island in Dog Falls and the next island downstream from it.

Station mark is the center of a cross cut in a flat rock.

STATION "A" (1910) (New Brunswick, Charlotte County; A.J. Brabazon, 1910)--On the E side of the St. Croix River, nearly opposite but a little below the lower end of the first island downstream from the lower island in Dog Falls.

Station mark is the center of a cross cut in a rock.

STATION "B" (1910) (Maine, Washington County; A.J. Brabazon, 1910)--On the W side of the St. Croix River, about 350 feet downstream from the first island below the lower island in Dog Falls.

Station mark is the center of a cross cut in a rock.

STATION "C" (1910) (New Brunswick, Charlotte County; A.J. Brabazon, 1910)--On the E side of the St. Croix River opposite the upper end of the island, the lower end of which is opposite Hound Brook.

Station mark is the center of a cross cut in a rock.

STATION "D" (1910) (Maine, Washington County; A.J. Brabazon, 1910)--On the W side of the St. Croix River, opposite the upper end of the island, whose lower end is opposite Hound Brook.

Station mark was a nail in a wooden hub.



STATION "E" (1910) (New Brunswick, Charlotte County; A.J. Brabazon, 1910)--On the E side of the St. Croix River in a bend in the shore line just above Horse Island.

Station mark was a nail driven in a wooden hub.

STATION "F" (1910) (Maine, Washington County; A.J. Brabazon, 1910)--On the W side of the St. Croix River, about 250 feet upstream from the upper end of Horse Island, and at the lower end of a narrow marshy channel behind a small island.

Station mark is the center of a cross cut in a rock in the edge of the water.

STATION "G" (1910) (New Brunswick, Charlotte County; A.J. Brabazon, 1910)--On the E side of the St. Croix River about 200 feet downstream from the lower end of Horse Island.

Station mark was a nail driven in a wooden hub.

STATION "H" (1910) (Maine, Washington County; A.J. Brabazon, 1910)--On the W side of the St. Croix River about 150 feet downstream from the lower end of Horse Island.

Station mark is a cross cut in a rock 7 feet long in the edge of the water.

STATION "L" (1910) (Maine, Washington County; A.J. Brabazon, 1910)--On the W side of the St. Croix River about 1000 feet downstream from Horse Island and a little above a rather sharp bend in the shoreline.

Station mark is a cross cut in a rock in the bushes 10 feet from the shore.

STATION "M" (1910) (New Brunswick, Charlotte County; A.J. Brabazon, 1910)--On the E side of the St. Croix River, about  $\frac{1}{4}$  mile below Horse Island, and at the middle of a bend above a straight stretch of the river a quarter mile long.

Station mark is the center of a cross cut in a rock in the bushes a short distance from the shore.

STATION "N" (1910) (Maine, Washington County; A.J. Brabazon, 1910)--On the W side of the St. Croix River, 300 yards or so below Horse Island, and 100 yards below a sharp bend in the shore.

Station mark is the center of a cross cut in a rock.

STATION "O" (1910) (New Brunswick, Charlotte County; A.J. Brabazon, 1910)--On the E side of the St. Croix River, a quarter mile above the big elbow in the river upstream from Corkins field.

Station mark was a nail driven in a wooden hub close to the shore.



STATION "P" (1910) (Maine, Washington County; A.J. Brabazon, 1910)--On the W side of the St. Croix River, at the lower end of a crooked stretch of the river below Horse Island, and at the upper end of a straight stretch of river a  $\frac{1}{4}$  of a mile long. There is a little inlet 200 feet upstream.

Station mark is the center of a cross cut in a rock in the edge of the water.

STATION "Q" (1910) (New Brunswick, Charlotte County; A.J. Brabazon, 1910)--On the E side of the St. Croix River, 230 yards upstream from the big elbow above Corkins field, and 275 feet above a little inlet. It is near the shore in a marshy place.

Station mark is a nail driven in a wooden hub.

STATION "R" (1910) (Maine, Washington County; A.J. Brabazon, 1910)--In the W side of the St. Croix River, opposite a little inlet in a marshy place on the Canadian shore, and is 400 feet upstream from the big elbow in the river above Corkins field.

Station mark is the center of a cross cut in a rock.

"HI ROC" (New Brunswick, Charlotte County; A.J. Brabazon, 1910; r. 1946)--In a rock known locally as Hi Roc on the E side of the St. Croix River, at the big elbow in the river above Corkins field. The front of this rock rises about 9 feet above the river and Reference Monument 169 is on the rock.

Station mark is the center of a cross cut in the rock near the reference monument.

STATION "T" (1910) (Maine, Washington County; A.J. Brabazon, 1910; r. 1917)--On the W side of the St. Croix River, a short distance back in the bushes from the shore at the big elbow in the river above Corkins field and nearly opposite Hi Roc.

Station mark is the center of a cross cut in a rock.

STATION "U" (1910) (New Brunswick, Charlotte County; A.J. Brabazon, 1910)--On the E side of the St. Croix River, 100 feet below a rock in the river near shore, and 600 feet below the big elbow in the river above Corkins field.

Station mark is the center of a cross cut in a rock.

STATION "V" (1910) (Maine, Washington County; A.J. Brabazon, 1910)--On the W side of the St. Croix River, 250 feet below the big elbow in the river above Corkins field and a short distance back from the shore.

Station mark is the center of a cross cut in a rock.

STATION "W" (1910) (New Brunswick, Charlotte County; A.J. Brabazon, 1910)--On the E side of the St. Croix River, 250 feet upstream from the first point above where the river gets



narrow above Corkins field.

Station mark is the center of a cross cut in a rock.

STATION "X" (1910) (Maine, Washington County; A.J. Brabazon, 1910)--On the W side of the St. Croix River, about 250 yards upstream from where the river gets narrow above Corkins field. It is back a short distance from the shore on the edge of low ground.

Station mark is the center of a cross cut in a rock.

STATION "Y" (1910) (New Brunswick, Charlotte County; A.J. Brabazon, 1910)--On the E side of the St. Croix River, nearly opposite a rock or small island a little below the place the river gets narrow above Corkins field.

Station mark is the center of a cross cut in a rock.

STATION "Z" (1910) (Maine, Washington County; A.J. Brabazon, 1910)--On the W side of the St. Croix River, about 50 feet back from the shore and 150 feet upstream from the place the river get narrow above Corkins field.

Station mark is the center of a cross cut in a rock.

TRAVERSE STATION B-36 (New Brunswick, Charlotte County; A.J. Brabazon, 1910; 1946)--On the E shore of the St. Croix River, about 150 meters above the dam at Dog Island Rips beside an old logging road which ends at a little marshy cove or bay on the river. Station is about 50 meters from the river, in an outcropping of rock, just S of the S wheel track, and 7 feet E of a path leading from road to a cabin downstream.

Station mark is the shaft of a U.S. & C.B. bronze disk set in a drill hole in the ledge. A cross is cut in a rock 2 feet in diameter, rising 3 inches above ground 8 feet E of the path to the cabin downstream, 8.07 meters distant. A cross within a triangle is cut in a rock 3 feet in diameter and 2 feet high, 4 feet W of the same path, distant 11.42 meters from the station. A like mark is cut in a rock 2 by 3 feet and 20 inches high on the S edge of the road 8.90 meters W toward the river.

TRAVERSE STATION B-37 (New Brunswick, Charlotte County; A.J. Brabazon, 1910; 1946)--About 3 feet E of the summit of a knoll on the E side of the St. Croix River, inshore from the Canadian end of the upper dam at the head of Dog Island Rips. The station is 10 feet S of the line of this dam extended inshore, 40 feet inshore from the river, on solid ledge rock, partly covered by moss and leaves.

Station mark is a bronze disk marked "R.M.C." and set in cement in a drill hole in the ledge.

The references are crosses cut in three rocks; one in a rock 2 feet in diameter and 1 foot high directly inshore



40 feet from end of dam is distant 9.78 meters, one in a rock on the knoll at the top of the slope from the river and in line with the dam extended is distant 4.75 meters, and the other 4.18 meters distant in a rock 20 inches in diameter, 30 feet from the water, on the N slope of the knoll.

REFERENCE MONUMENT 168-46 (Maine, Washington County; N.W. Smith, 1917; 1946)--At Dog Falls, on the W side of the St. Croix River at the head of Dog Island Rips. The station is on a rock 5 feet in diameter and 3 feet high, 25 feet inshore from the U.S. point at the head of the falls, 15 feet from the water below the point, and about 25 feet above the water.

Station mark is a boundary reference post set in a drill hole in the rock. It was repaired in 1939.

REFERENCE MONUMENT 167-46 (OLD-1917) (New Brunswick, Charlotte County; N.W. Smith, 1917; 1946)--In the St. Croix River, on the lower end of the middle one of three islands at Dog Falls at the head of Dog Island Rips, and about 900 meters below the mouth of the Canoose River. Station is in a rocky ledge about 1 meter in from the shoreline and about 1.8 meters above the water level.

Station mark is a 2-inch U.S. & C.B. bronze disk set 3 inches below the surface of the ledge in the drill hole formerly occupied by the boundary reference post.

REFERENCE MONUMENT 167-46 (NEW-1921) (New Brunswick, Charlotte County; N.W. Smith, 1921; 1946)--On the lower end of the middle of the three Dog Islands, just above Dog Falls in the St. Croix River. The station is in a boulder 8 feet square by 5 feet high, near the back channel on E side of the island.

Station mark is the drill hole where the second boundary post originally was set.

K (New Brunswick, Charlotte County; A.J. Brabazon, 1910; 1946)--About 20 feet inside the high E bank of the St. Croix River, about 200 meters below Horse Island, and 650 meters below the mouth of Hound Brook. A small brook flows into the river on the opposite shore a short distance above the station. A point on Canadian shore is 125 feet below.

Station mark is a bronze disk set in a drill hole in a rock 2.4 meters long, 1.5 meters wide, and 1 meter high. A cross within a triangle is cut in a rock 5.65 meters riverward and upstream from the station, a like mark is cut in a rock 7.10 meters upstream and inland from the station, and a cross alone is cut in a rock 6.38 meters inland from the station.

REFERENCE MONUMENT 169-46 (New Brunswick, Charlotte County; N.W. Smith, 1917; 1939; 1946)--On the E bank of the St. Croix



River,  $1\frac{1}{4}$  miles above Gleason Point,  $\frac{5}{8}$  mile above King Brook, on a pronounced bend of the river. The station is on the only prominent rock on the Canadian shore between Dog Falls and Gleason Point. The rock is known as Hi-Roc and is about 2.4 meters above high water.

Station mark is the shank of a boundary reference post set in a drill hole in the rock with "R.M. 169" cut in the rock nearby and a cross cut 0.41 meter upstream from the station mark.

REFERENCE MONUMENT 170-46 (Maine, Washington County; N.W. Smith, 1917; 1946)--On the W bank of the St. Croix River, in the bend of the river,  $\frac{5}{8}$  mile above King Brook, and opposite REFERENCE MONUMENT 169. The station is about 25 meters from the water and 3 meters above it.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a rock 1.5 meters square and 1.2 meters above the ground. A crown of cement is placed on top of the rock around the post.

REFERENCE MONUMENT 169-A-46 (New Brunswick, Charlotte County; N.W. Smith, 1921; 1946)--On the E bank of the St. Croix River, about  $\frac{3}{4}$  mile above Gleason Point, about 300 meters above the mouth of King Brook, and opposite the upper end of the largest island off Corkin Field.

Station mark is a bronze disk set in a drill hole in a pointed rock about 9 meters outside the shoreline. Rock is 2 by 3 feet and 3 feet high.

REFERENCE MONUMENT 170-A-46 (Maine, Washington County; N.W. Smith, 1921; 1946)--On the W bank of the St. Croix River, about  $\frac{7}{8}$  mile above Gleason Point on the lower side of a rounding point opposite the second grassy island off Corkin Field, in a rock 3 by 4 feet and 5 feet high.

Station mark is a bronze disk set in a drill hole in the rock 3 meters outside the shoreline.

FIN (New Brunswick, Charlotte County; A.J. Brabazon, 1910; 1946)--On the E side of the St. Croix River about  $\frac{3}{4}$  mile above Gleason Point, opposite the upper end of the largest island off Corkin Field. It is about 13.7 meters N and 48.7 meters E of REFERENCE MONUMENT 169-A. The station is 60 feet in-shore from the river, on a boulder 2 feet square by 1 foot high, in high grass in an open marsh with bushes immediately N of the station.

Station mark is a plain bronze disk set in a drill hole in the boulder. A cross is cut in a rock 6.07 meters downstream from the station, a like mark is cut in a rock 5.53 meters upstream from the station, and another like mark is cut in a rock 7.87 meters inland from the station, 3 by 4 feet and 2 feet high.



REFERENCE MONUMENT 171-A-46 (New Brunswick, Charlotte County; N.W. Smith, 1917; 1924; 1946)--On the E shore of the St. Croix River at Gleason Point, on the bank about 100 meters upriver from Dr. McNicholl's boat landing, and 4.6 meters from the shoreline in front of a glass-and-log building.

Station mark is an I.B.C. bronze disk set in a concrete base with the number stamped on it. It was superimposed in 1939 on the concrete foundation of the old boundary post destroyed by ice. Repaired again in 1946.

REFERENCE MONUMENT 172-46 (Maine, Washington County; N.W. Smith, 1917; 1946)--On the W bank of the St. Croix River, across from Gleason Point, opposite the McNicholl's guide camp, and just above the end of the road from Lambert Lake to Gleason Point.

Station mark is a standard 8-inch manganese-bronze reference post set in a concrete base about 2 meters from the shoreline and 2 meters above normal water level, in thick brush.

McNICHOLL (New Brunswick, Charlotte County; J.E. McGrath, 1910; 1924; 1946)--On the E bank of the St. Croix River at Gleason Point. It is 20 feet N of the Gleason Point Road, about 75 meters N of Dr. McNicholl's house, and about 30 meters NE of the concrete swimming tank, in the edge of the bushes.

Station mark is a bronze disk, stamped "209", cemented in a drill hole in a boulder about 0.3 meter high. A piece of  $\frac{3}{4}$ -inch steel drill is wedged in a drill hole in a boulder in the open field which leads from the house to the boat landing, distant 22.12 meters in azimuth  $76^{\circ}21'$  from the station.

BEAVER (Maine, Washington County; J.E. McGrath, 1910; 1946)--On the W bank of the St. Croix River, about 600 meters below Gleason Point, at the lower end of a long straight shoreline where the shore begins a long curve downstream to the left. The station is about 15 meters upstream from a very small brook called Beaver Brook and on the outer end of a ledge of argillaceous rock which juts out into the river above a prominent granite boulder.

Station mark is a Coast and Geodetic Survey bronze triangulation disk set in a drill hole in the ledge 3 feet from the water's edge.

CHUB ROCK (New Brunswick, Charlotte County; J.E. McGrath, 1911; 1921; 1946)--On the E bank of the St. Croix River, about 700 meters above the Pomeroy Ridge Road at Clark's Point, and about twice that distance below Gleason Point. The station is on the large, lone, conspicuous rock on the riverbank known as Chub Rock.



Station mark is a green-colored bronze disk set in a drill hole in the rock.

REFERENCE MONUMENT 173-46 (New Brunswick, Charlotte County; N.W. Smith, 1917; 1946)--On the E shore of the St. Croix River at Clark Point, at the end of the Pomeroy Ridge Road from St. Stephen to Clark Point, and about 9 meters upstream from the old dock.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a rock about 2 meters out into the river from the shore at normal water level and but a little above high-water mark. Station post leaning NW in 1946.

REFERENCE MONUMENT 174-46 (Maine, Washington County; N.W. Smith, 1917; 1946)--On the W side of the St. Croix River, opposite Clark Point, about 90 meters upstream from the old dock on the opposite shore, and about 4.5 meters in-shore. It is in a rock at edge of a rock crib which is part of a rocky ledge running perpendicular to the river's course.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the pyramidal-shaped rock 3 feet in diameter and 2 feet high.

CLARK 1918 (New Brunswick, Charlotte County; N.W. Smith, 1918; 1946)--On Clark Point, in the rear of the guide's cottage. It is 21.12 meters from the SW corner of the cottage, 18.44 meters from a cross cut in a rock in a rock pile to the W, and 24.26 meters from a cross cut in a rock 5.48 meters W of the trees along the road. In 1946 the rock pile was gone and an hour's search failed to locate the other reference mark or center mark. These may be there, however, as the trees along the road have changed considerably.

Station mark is a bronze disk marked "U.S. & C.B. SURVEY" set in a drill hole in a rock buried flush with the ground.

REFERENCE MONUMENT 175-46 (New Brunswick, Charlotte County; N.W. Smith, 1917; 1946)--On the E bank of the St. Croix River, about 2 miles down the river from the Pomeroy Ridge Road at Clark Point, about 3/8 mile below Enoch Brook, near the head of Kindric Rips. The station is on the shoreline, on a small point at a narrow place in the river, about 125 meters above a dam across the head of the W channel of the river, and about 100 meters below a small island near the United States shore.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in ledge rock, on a shelf 1 foot below and outside the top of ledge, 40 feet below extreme rocky point.



REFERENCE MONUMENT 176-46 (Maine, Washington County; N.W. Smith, 1917; 1946)--On the W bank of the St. Croix River, about 2 miles below the Pomeroy Ridge Road at Clark Point, about  $3/8$  mile below the mouth of Enoch Brook, near the head of Kindric Rips. The station is about 75 meters downstream from a small island, about 110 meters above the entrance to the W channel of the river, and is opposite REFERENCE MONUMENT 175.

Station mark is a standard 8-inch manganese-bronze reference post set in ledge rock 1 foot inshore and 4 feet above the water.

REFERENCE MONUMENT 177-46 (New Brunswick, Charlotte County; N.W.S. 1917; 1946)--On the E side of the St. Croix River, at the end of Little Ridge Road, and at the brink of Spednik Falls which are about  $2\frac{3}{4}$  miles above Grand Falls Dam, at the head of the backwater from that dam.

Station mark is a standard 8-inch manganese-bronze reference post set in the rock about 1 meter from the edge of and about 1.5 meters above the water. A bronze disk is set in the same rock S  $44^{\circ}40'W$ , 0.26 meter from the station, stamped "U.S. & C.B. SURVEY 206".

REFERENCE MONUMENT 178-46 (Maine, Washington County; N.W. Smith, 1917; 1946)--In the St. Croix River, on an island at the brink of Spednik Falls which are about  $2\frac{3}{4}$  miles above Grand Falls Dam, at the head of the backwater from that dam.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the second rocky ledge back from the end of the island and about 4.5 meters from the extreme end of the ledge. A bronze disk is set in the rock S  $38^{\circ}09'W$ , 5.47 meters from the station.

CABIN (New Brunswick, Charlotte County; J.E. McGrath, 1912)--On the E side of the St. Croix River at Spednik Falls which are about  $2\frac{3}{4}$  miles above Grand Falls Dam, at the head of the backwater from that dam. The station is at the W end of the little knoll on which the river drivers' camp stands, 5.87 meters from the NW corner of the camp, and 8.77 meters from the SW corner of the camp.

Station mark is a bronze disk set in a drill hole in the rock flush with or a little below the surface of the ground.

In 1946 the cabin was gone and the station not recovered in the limited time available for the search. It could be recovered if needed by use of REFERENCE MONUMENT 177 and an instrument.

ROSS (Maine, Washington County; N.W. Smith, 1918)--On the peninsula made by the backwater from the Grand Falls Dam and



nearly a mile above the dam. It is about  $\frac{1}{2}$  mile above the point of the peninsula, on the highest point of the hill.

Station mark is a bronze disk marked "U.S. & C.B. SURVEY" set in a drill hole in a rock and buried 8 inches under the ground.

REFERENCE MONUMENT 179-46 (New Brunswick, Charlotte County; N.W. Smith, 1917; 1946)--On the E bank of the St. Croix River, about a mile below Spednik Falls, and about  $\frac{3}{4}$  mile above the dam at Grand Falls. It is on the point at the narrow place in the backwater of the Grand Falls Dam and is in the edge of the woods on a rock 4.5 meters from the bank of the river. REFERENCE MONUMENT 180 is on the point that forms the opposite side of the narrows. Station is at S edge of an open log landing, with an older landing 50 feet S, and was found under a scrap heap of log refuse. A large balsam tree is 4 feet SW, about 75 feet above the end of rounding point.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock, 3 feet in diameter and 6 inches high.

REFERENCE MONUMENT 180-46 (Maine, Washington County; N.W. Smith, 1917; 1946)--On the W side of the St. Croix River, about 1 mile below Spednik Falls, and about  $\frac{3}{4}$  mile above the Grand Falls Dam, on the point that forms the W shore of the narrows in the backwater from the Grand Falls Dam.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a rock about 11 meters from the edge of and 3 meters above the water, 5 feet inside line of bushes.

REFERENCE MONUMENT 181-46 (New Brunswick, Charlotte County; N.W. Smith, 1918; 1924; 1939; 1955)--On the E side of the St. Croix River at Grand Falls. It is in the top of the concrete dam in the NW corner of the wing wall about 12 meters from the Canadian shore.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the concrete.

REFERENCE MONUMENT 182-46 (Maine, Washington County; N.W. Smith, 1917; 1955)--On the W side of the St. Croix River, at Grand Falls. It is 37 meters upstream from the United States end of the dam and 16 meters back from the edge of the backwater from the dam, near NW corner of a small building.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a rock flush with the ground. In same rock is a guy wire for a pole toward the dam.



**TURNING POINT 956** (New Brunswick, Charlotte County; Maine, Washington County; J. Hill, 1924; 1939; 1955)--In the St. Croix River, at Grand Falls, in the concrete walkway under the dam. The station is under the middle one of the seven concrete spans over the main channel of the river, 0.326 meter N of the S edge of the walk, and 18.166 meters E from the bottom step of the stairway at the entrance to the walk.

Station mark is a bronze disk marked "U.S. & C.B. SURVEY C 38" and set in the concrete floor of the walk.

**WEST DAM** (Maine, Washington County; N.W. Smith, 1917; 1924; 1939; 1955)--On the W side of the St. Croix River, at Grand Falls. It is on the concrete dam near the N or upstream corner of the outer end of the broad concrete walk built from the shore out to the stairway leading to the passage across the river under the dam and is just W of this entrance near the railing around the walk.

Station mark is a bronze disk set in a drill hole in the concrete of the dam.

**LOWER PITCH** (New Brunswick, Charlotte County; J.E. McGrath, 1910; 1918; 1955)--On the east bank of the St. Croix River in its original course before dam was built, and at the lower pitch of Grand Falls about 150 feet upstream from the N end or head of the large island that divided the river at the Gorge, the one-time dam opposite the station was gone in 1955. The station is 6 feet W toward river from an old road along the bank and 15 feet inshore from the top of the river bank in a clear space between road and bank. It is directly inshore from the highest jagged rock in the old river bed near the Canadian shore.

Station mark is a bronze disk marked "U.S. & C.B. SURVEY" set in a drill hole in an outcropping ledge about 3 by 4 feet and very little above flush with the ground.

**REFERENCE MONUMENT 183-46** (New Brunswick, Charlotte County; N.W. Smith, 1918; 1939; 1955)--In the St. Croix River, at the lower pitch of Grand Falls, on the W shore of the N end of an island. It is about 80 meters E of and below the small dam across the boundary channel of the river and is on the highest point of a smooth-topped rock ledge that rises about 8 meters above the water level of the runway below the dam. In 1955 it was just inside the tree line 100 feet downstream from N end of island.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the ledge.

**REFERENCE MONUMENT 184-46** (Maine, Washington County; N.W. Smith, 1918; 1939; 1955)--On the E bank of the St. Croix River, at the lower pitch of Grand Falls, about 23 meters below the



small dam across the boundary channel, and about 4.5 meters back from and 5.5 meters above the water line. In 1955 it was in heavy brush directly across from N end of island.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in an outcropping ledge of rock. "GORGE" triangulation mark (a bronze disk) is N  $5^{\circ}43'E$ , 13.8 meters distant.

GORGE (Maine, Washington County; J.E. McGrath, 1910; 1918; 1939; 1955)--On the W shore of the St. Croix River, nearly abreast of the second falls in the lower pitch of Grand Falls, and N  $5^{\circ}43'E$ , 13.8 meters from REFERENCE MONUMENT 184. In 1955 station rock was just outside the tree line across from N end of island.

Station mark is a U.S.C & G.S. bronze triangulation disk set in a drill hole in the rock.

POMHANAN (New Brunswick, Charlotte County; J.E. McGrath, 1910; 1918; 1939)--On the E bank of the St. Croix River, about  $2\frac{3}{4}$  miles below the Grand Falls Dam, about  $\frac{1}{4}$  mile below Pomeroy Landing, and 26 meters NE of REFERENCE MONUMENT 185. The station is on a large granite boulder near the property line between John Pomeroy and Mrs. Charles Hanan, 3 meters W of a barbed-wire fence, and 2 meters E of a road.

Station mark is a bronze U.S.C. & G.S. triangulation disk stamped "147" and set in a drill hole in the boulder.

REFERENCE MONUMENT 185-46 (New Brunswick, Charlotte County; N.W. Smith, 1918; 1939)--On the E bank of the St. Croix River, about  $2\frac{3}{4}$  miles below the Grand Falls Dam, about  $\frac{1}{4}$  mile below Pomeroy Landing, about  $\frac{1}{4}$  mile above the two small islands known as Garrity Islands, and at the downstream side of a small clearing or landing.

Station mark is a standard 8-inch manganese-bronze reference post set in concrete base about 3 meters from the water.

MAUREL (Maine, Washington County; J.E. McGrath, 1910; 1918; 1939)--About 5 meters N of REFERENCE MONUMENT 186.

Station mark is a bronze disk set in a drill hole in the rock close to the edge of the water.

REFERENCE MONUMENT 186-46 (Maine, Washington County; N.W. Smith, 1918; 1939)--On the W shore of the St. Croix River, about  $2\frac{3}{4}$  miles below the Grand Falls Dam, about  $\frac{1}{4}$  mile below Pomeroy Landing on the opposite shore, and about 23 meters upstream from a little jog or point in the riverbank.

Station mark is a standard 8-inch manganese-bronze reference post set in a concrete base about 6 meters from the shoreline. "MAUREL" triangulation station mark (a bronze disk set in the rock) is about 5 meters N of the station near the shoreline.



POMEROY (New Brunswick, Charlotte County; N.W. Smith, 1917; 1946; 1955)--In Little Ridge settlement, about 2-1/8 miles SE of Grand Falls on the St. Croix River. It is in the front yard of Samuel Pomeroy's house.

Station mark is a pine hub, from which a cross cut in a stone about 10 by 12 inches in size, set flush with the ground at the most northerly corner of Mr. Pomeroy's house, bears S 30°E, 5.45 meters distant; and the most westerly corner of the house bears S 32°W, 11.11 meters distant.

A new porch had been added to the house in 1946, but reference stone is undisturbed, close to house, under house corner of N end of the porch.

SCOTCH RIDGE CHURCH STEEPLE (U.S.C. & G.S.) (New Brunswick, Charlotte County; C.H. Boyd, 1887; 1918; 1946; 1955)--On the S slope of the Scotch Ridge in St. James Parish and 9 miles NW from St. Stephens. The church is painted flesh color and has a steeple resembling a candle extinguisher.

Station mark is the steeple.

ST. DAVID (U.S.C. & G.S.) (New Brunswick, Charlotte County; C.H. Boyd, 1867; 1887)--Station lost in 1887.

COLLINS (U.S.C. & G.S.) (New Brunswick, C.H. Boyd, 1887; 1908; 1946)--Position checked by auxiliary station in 1946 and the station rock had been removed, a new house built, and the road fence gone.

Station lost.

LITTLE RIDGE CHURCH TOWER (U.S.C. & G.S.) (New Brunswick, Charlotte County; C.H. Boyd, 1887; 1917; 1946; 1955)--The center of the square tower on the S of the two churches on Little Ridge, N.B., about 1/2 miles N of the old Middlemiss home, and 0.6 mile N of the schoolhouse.

MIDDLEMISS (U.S.C. & G.S.) (New Brunswick, Charlotte County; C.H. Boyd, 1887; 1918; 1946)--In St. James Parish, on the highest part of Little Ridge, about 6 miles WNW of St. Stephen, about 3 1/2 miles N of Woodland, Maine, and 1/2 mile SSW of Little Ridge Church. Station is about 1/8 mile W of the road, in an old stone fence, 23 meters from its S end, and 30 meters from its N end. The old stone wall is flat, only one stone high, and is only one of many such walls nearby on the same ridge.

To reach the station, follow the old woods road SW from the old Middlemiss farm, now owned by Mr. McKennan (1946), pass the gate at the entrance to the woods, and past the remains of an old stone fence plainly visible on each side of the road. About 300 feet beyond this old stone fence, and just past the highest part of the ridge, a side woods



road turns left (SE). Follow this to the gate through the line fence and the end of the old stone wall mentioned above is about 30 feet to the left (N). A few remains of the 1918 tower are still nearby.

Station mark is an I.B.C. bronze station disk set in a drill hole in a large flat stone, surrounded by other stones from the old fence, with a small cairn built over it. A cairn 3 feet in diameter and  $3\frac{1}{2}$  feet high is 50 feet from the station, SE, along the old stone wall, and about  $27\frac{1}{2}$  feet from its junction with the line fence. Another cairn 2 feet in diameter and  $1\frac{1}{2}$  feet high is 110 feet W, near the junction of the road and a path from it to the station site. This second cairn is 95 feet from the line fence and 10 feet from the woods road.

WHORTY'S HOUSE (U.S.C. & G.S.) (TOWER HILL) (New Brunswick, Charlotte County; C.H. Boyd, 1888)--In SE part of St. James Parish, on that part of the Tower Hill range known as "Hasty's Hill". It is 12 miles N of St. Stephens, on W side of Woodstock road and 2 miles therefrom, and 3 miles S of Lynnfield settlement. The station is the chimney of main house on summit of hill, the dwelling of George Whorty, marked by a white band 1 foot wide painted around the chimney 1 foot from the top.

HANNAN (U.S.C. & G.S.) (New Brunswick, Charlotte County; C.H. Boyd, 1887)--In St. James Parish, on the W side of the Little Ridge Road, and 10 miles NW from St. Stephens, on the farm of Mr. John Hannan. The station is a pole in a large tree in Mr. Hannan's orchard, 75.4 feet S from his house.

POKESHINE (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; Maine Geod. S., 1935)--On Pokeshine Mountain, in the town of Princeton, about 2 miles S of the South Princeton Road, and N of the Shining Lake. The mountain is difficult of ascent, there is no trail, and a dense forest growth. The summit is quite flat and covered with large forest growth of oak, birch, maple, and pine trees. The station was a pole in the tallest pine and a triangle cut in the N side of the pole.

Located U.S.G.S. station only in 1935. Lost.

REFERENCE MONUMENT 187-46 (New Brunswick, Charlotte County; N.W. Smith, 1918; 1939)--On the E bank of the St. Croix River, about  $4\frac{1}{2}$  miles above Woodland, Me., on the point at Gibbs Landing. There is a long narrow island about 100 meters upstream and a large oval-shaped island about 300 meters downstream from the station. The station is at a narrow place in the river, in a small clearing on an exposed ledge of rock about 2.4 meters above the water. An old pier in



the river about  $\frac{1}{2}$  mile upstream can be seen from the station.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the ledge.

REFERENCE MONUMENT 188-46 (Maine, Washington County; N.W. Smith, 1918; 1939)--On the W bank of the St. Croix River, about  $4\frac{1}{2}$  miles above Woodland, Maine, on the bend of the shore a little below Gibbs Landing and REFERENCE MONUMENT 187.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a large white boulder on the bank about 11 meters from the shore and about 1.2 meters above the water level.

REFERENCE MONUMENT 189-46 (New Brunswick, Charlotte County; N.W. Smith, 1918; 1939)--On the E shore of the St. Croix River, about 3 miles above Woodland, Me., about  $\frac{3}{8}$  mile above Mosquito Island, where the backwater from the Woodland Dam broadens out into the mouth of Sprague Meadow Brook.

Station mark is a standard 8-inch manganese-bronze reference post set in a white flat-topped boulder about 9 meters from the shore and 1 meter back from the low bank.

REFERENCE MONUMENT 190-46 (Maine, Washington County; N.W. Smith, 1918; 1939)--On the W bank of the St. Croix River, about 3 miles above Woodland, Me., at the end of the point of high land where the Woodland Dam flowage broadens out into the mouth of Sprague Meadow Brook, and about  $\frac{1}{2}$  mile NW of Mosquito Island.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a large white boulder about 6 meters from the shoreline.

WEATHERBY (New Brunswick, Charlotte County; J.E. McGrath, 1910; 1918)--On the E shore of St. Croix River, about  $2\frac{1}{2}$  miles above Woodland, Me., about 100 meters below Mosquito Island. The station is back about 15 meters from the water's edge, in a growth of young trees, on a gray stone whose top just emerges from the ground with an exposed surface of 2 by 3 feet.

Station mark is a bronze U.S.C. & G.S. triangulation disk set in a drill hole in the rock.

WHIDDEN (Maine, Washington County; J.E. McGrath, 1910; 1918; 1939)--On the W bank of the St. Croix River, about 2 miles above Woodland, Me., just above the clearing known as the old Whidden place, sometimes called Ryan's Interval. The station is between the Maine Central Railroad and the river, approximately opposite the third telegraph pole above the upper end of the clearing at the railroad. The shoreline makes a big right-angle turn to the NE about 300 meters below the station.



Station mark is a bronze disk set in a drill hole in a granite boulder showing exposed dimensions of  $1\frac{1}{2}$  by 3 by  $1\frac{1}{4}$  feet. A cross within a triangle is cut in the same rock. Station disk re-cemented in 1939.

REFERENCE MONUMENT 191-46 (New Brunswick, Charlotte County; N.W. Smith, 1918; 1939)--On the E shore of the St. Croix River, about  $1\frac{3}{4}$  miles above the railroad bridge at Woodland, Me. It is on the point at the upper end of a narrow place in the backwater from the Woodland Dam and about  $5/8$  mile below Mosquito Island.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a slate ledge about 7.5 meters from the shoreline and about 1.4 meters above the water.

REFERENCE MONUMENT 192-46 (Maine, Washington County; N.W. Smith, 1918; 1939)--On the W bank of the St. Croix River, about  $1\frac{3}{4}$  miles above the railroad bridge at Woodland, Me., on the point at the head of the narrow place in the backwater from the Woodland Dam, and about  $5/8$  mile below Mosquito Island.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a slate ledge 6 meters from the shoreline and about 1.8 meters above the water.

LEDGES (Maine, Washington County; N.W. Smith, 1918; 1939)--Lost in 1939.

NEW (New Brunswick, Charlotte County; N.W. Smith, 1918; 1939)--On the E side of the St. Croix River, about  $\frac{3}{4}$  mile above the railroad bridge at Woodland, on a low flat open point that is nearly due E of the "sorting pen". The station is near the middle of the open place and about 7 meters from the shore.

Station mark is a bronze disk set in the top of a square granite slab projecting 4 inches above the ground and set in a large concrete base.

MILL (Maine, Washington County; N.W. Smith, 1918; 1939)--On the W shore of the St. Croix River,  $\frac{1}{4}$  mile above the Woodland railroad bridge, on the prominent point directly out from the sawmill and box factory. It is near the center of the point 4.5 meters from the shoreline.

Station mark is a bronze disk set in the top of a square granite slab projecting about 4 inches above the ground and set in a large concrete base.

REFERENCE MONUMENT 193-46 (New Brunswick, Charlotte County; N.W. Smith, 1918; 1946)--On the E side of the St. Croix River, at Woodland Junction, Me. It is on the SE abutment of the



Maine Central Railroad bridge across the river, on the upstream side of the track, 1.68 meters from the nearest rail.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the concrete.

REFERENCE MONUMENT 194-46 (Maine, Washington County; N.W. Smith, 1918; 1946)--On the W side of the St. Croix River, at Woodland Junction, Me. It is on the top of the abutment wall of the Maine Central Railroad bridge across the St. Croix River, on the downstream side of the track, and about 1.6 meters from the nearest rail.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the concrete. Triangulation station ABUTMENT (Marked by a bronze disk) is on the same abutment and bears S 50°55'W, 0.71 meter from the station.

ABUTMENT (Maine, Washington County; J.E. McGrath, 1909; 1935; 1918; 1946)--On the NW abutment of the railroad bridge at Woodland Junction, Me., N 50°55'E, 0.71 meter distant from REFERENCE MONUMENT 194.

Station mark is a bronze disk set in the concrete of the abutment.

EAST ABUTMENT (New Brunswick, Charlotte County; A.J. Brabazon, 1910; 1918; 1946)--On the SE concrete abutment of the railroad bridge at Woodland Junction, Me., S 50°15'W, 3.83 meters distant from REFERENCE MONUMENT 193.

Station mark is a bronze disk set in the concrete.

NORTH TABLET, WOODLAND BRIDGE (Maine, Washington County; New Brunswick, Charlotte County; J. Hill, 1939; 1946)--A standard bronze bridge tablet fastened to the N girder of the Maine Central Railroad bridge across the St. Croix River just above Woodland, Me.

SOUTH TABLET, WOODLAND BRIDGE (Maine, Washington County; New Brunswick, Charlotte County; J. Hill, 1939; 1946)--A standard bronze bridge tablet fastened to the S girder of the Maine Central Railroad bridge across the St. Croix River just above Woodland, Me.



ST. CROIX RIVER, WOODLAND TO CALAIS

RYE (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1867; 1908; Maine Geod. S., 1935)--On the hill or mountain of that name, about  $5\frac{1}{2}$  miles W by N from Baring, and about  $2\frac{1}{2}$  miles SW from Woodland. The station is on the E part of the summit and the ground to the W is slightly higher. The station is 180 feet from a wooden fence and 260 feet from the remains of a stone wall.

Station mark is a copper bolt set in a hole in the rock. Four drill holes filled with sulphur were placed as reference marks, viz: To the N, W, and S, 18 inches distant, and to the E, 6 inches distant from the station.

FARRAR (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1908; 1935; 1946)--On the summit of the hill or mountain of that name, located about 4 miles to the W of Baring, about  $2\frac{1}{2}$  miles S by W of Woodland, and on the N side of the Baring-Alexander road. The ledge on which the station is placed is bare and of a reddish color. The land belongs to Leo Malloy, whose house is on the N side of the road and about  $\frac{1}{2}$  mile SSE from the station.

Station mark is an I.B.C. bronze station disk set in a drill hole within a circle cut in the rock. A 3-foot cairn is over the station, on the highest part of the ledge.

ANDERSON (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1908; Maine Geod. S., 1935)--On the summit of Bailey Hill, about  $3\frac{1}{2}$  miles WNW of Baring,  $1\frac{1}{2}$  miles S by E of Woodland, and on the W side of the Baring-Princeton road. It is on a granite boulder which forms part of the base of a stone fence between the adjoining farms.

Station mark is a drill hole in the top of the boulder. A triangle is cut on the S face of the boulder.

Station not recovered in 1935.

COOPER (WESTERN RIDGE) (U.S.C. & G.S.) (Maine, Washington County; A.D. Bache, 1859; 1913)--On the highest hill in the township of Cooper, known as Western Ridge or Cooper Hill. The hill is about 750 feet high and covered with timber. A fire lookout tower is built directly over the station.

Station mark is a copper bolt set in a hole in the rock. A copper bolt marking the old Latitude Station of 1859, set in the solid ledge of rock, is 14.0 meters W and 1.3 meters S. Drill holes in rocks are at the following ranges and distances from the mark: In range with CHAMCOOK, 3.84 meters; PRINCE REGENTS REDOUBT, 4.48 and 40.81 meters; GRAND MANAN, 4.27 and 37.55 meters; and TRESCOTT ROCK, 3.66 meters.



MOHANNAS (U.S.C. & G.S.) (New Brunswick, Charlotte County; C.H. Boyd, 1887; 1909; 1946)--On the summit of the hill in St. Stephens Parish, formerly known as Thompson's Hill but later owned by William Libby, about a mile from the St. Croix River, 3 miles W of Milltown, N.B., and just N of the St. Stephen-Woodland road. The station is on the bare ledge at N edge of a small cleared area, 6 feet W of highest point of the hill, about 15 meters S of an E-W fence, and about 36 meters E of a N-S fence.

Station mark is an I.B.C. bronze station disk set in a drill hole within a circle cut in the rock. A cairn 3 feet in diameter and  $2\frac{1}{2}$  feet high is over the station.

The reference marks are crosses within triangles cut in the ledge. No. 1 is 13.795 meters S from the station and 40.6 meters from the W fence. No. 2 is 4 inches above the ground level, 7.174 meters E and 14.5 meters from the N fence.

MURCHIE (New Brunswick, Charlotte County; J.E. McGrath, 1908; 1946)--On a ridge about  $\frac{1}{2}$  mile from the St. Croix River, about  $1\frac{1}{2}$  miles E of Woodland, Me., 50 meters N of the road leading from St. Stephen via Milltown and Upper Mills, N.B., to Woodland. The foundations of several buildings destroyed by fire are near the station.

Station mark is a drill hole in a flat stone 12 by 15 inches. A cross cut in a stone on the N corner of the most W foundation is SSW 17.87 meters from the station.

Not recovered in 1946. The reference stone had been removed and used in the cellar wall of the building now on the old site and a horse barn over the probable location of the station.

JOHN (New Brunswick, Charlotte County; N.W. Smith, 1946)--Near the old Johnson home on Mohannas Hill, in the field S of the Milltown-Woodland road, 12 feet N of the center of the road leading to the house, and 30 feet E of the stone wall on the W of the property at a point on the N edge of the road through the wall. No center mark possible but the site can be reestablished from the references.

Reference mark 1 is a drill hole in a small projecting rock in the center of the farm road leading N parallel to the stone wall, 22.32 feet distant.

Reference mark 2 is a drill hole in an embedded rock 2 by 2 feet and 4 inches high, 30.19 feet W of station, in the E edge of the stone wall, 3 feet N of the N track of the road as it passes through the wall.

TELLINE (Maine, Washington County; J.E. McGrath, 1909; 1935; 1946)--On the W side of the St. Croix River, at Woodland, on a little bank 6 feet W of the Woodland branch of the Main Central Railroad which leaves the main line at Woodland Junction.



The station is 300 meters down the track toward Woodland from the "Y", 0.3 meter N of the line of telegraph poles, and between two fills on which the railroad crosses inlets from the backwater of a dam. Station is 6 feet E of a barn.

Station mark is a bronze disk set in a granite boulder that projects about  $1\frac{1}{4}$  feet out of the ground. A cross within a triangle is cut in a small rock S  $22^{\circ}$ W, 9.42 meters distant, and a like mark is cut in a stone N  $73^{\circ}$ W, 11.86 meters from the station.

SUBURB (Maine, Washington County; J.E. McGrath, 1909; 1935; 1946)--On the W bank of the St. Croix River, opposite the first angle in the road that runs N along the river and railroad track from Woodland to Woodland Junction. The road passes over a long fill just N of this angle. The station is on a triangular granite rock about 0.3 meter high and about 1 meter on each side. It is 6 meters W of the W rail of the railroad track and about 33 meters N of the house that stands just N of the section hands' tool house.

Station mark is a bronze disk set in a drill hole in the rock. A cross within a triangle is cut in a pyramidal rock about 1 meter high S  $2^{\circ}18'E$ , 13.95 meters distant; and a like mark is cut in an argillaceous rock of small exposure S  $58^{\circ}24'W$ , 12.70 meters from the station.

REFERENCE MONUMENT 196-46 (Maine, Washington County; N.W. Smith, 1918; 1939)--On the W side of the St. Croix River, at Woodland, Me., about 350 meters above the Woodland Dam belonging to the St. Croix Paper Company, on an island made by a canal cut through a point for the passage of pulp wood from the railroad dump to the paper mill. The station is near the N end and on the highest point of the island, 9 meters from the water, and about 2.4 meters above it.

Station mark is a 3-inch bronze boundary disk set in concrete.

REFERENCE MONUMENT 195-46 (New Brunswick, Charlotte County; N.W. Smith, 1918; 1924; 1939)--On the E side of the St. Croix River from Woodland, Me., on the tower abutment of the Canadian end of the dam of the St. Croix Paper Company (the Woodland Dam), and about 1 meter from the SW corner of the abutment, about level with the water above the dam.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the concrete.

CEMENT (New Brunswick, Charlotte County; A.J. Brabazon, 1910; 1918; 1939)--On the St. Croix River opposite Woodland, Me., on the top of the concrete abutment at the Canadian end of the Woodland Dam.

Station mark is a copper disk set in a drill hole in



the concrete. Four crosses within triangles are cut in the top of the abutment; one is near the lower outer corner another is near the upper outer corner 3.51 and 3.20 meters, respectively, distant from the station; the third is near the inner upper corner of the upper wing, and the fourth is near the inner lower corner of the lower wing, distant 11.53 and 8.26 meters, respectively, from the station.

TURNING POINT 1006 (New Brunswick, Charlotte County; Maine, Washington County; J. Hill, 1924; 1939)--On the St. Croix River, at Woodland, Me., on the crest of the concrete dam under the wooden superstructure, at the middle of the main channel of the St. Croix River. It is a marked point on the international boundary.

Station mark is a 2-inch iron shaft with a center hole in it set nearly flush with the surface of the concrete. Mark covered by new concrete superstructure in 1939.

WOODLAND (Maine, Washington County; J. E. McGrath, 1908; 1935; 1939)--On the St. Croix River, in Woodland, Me., on the concrete dam belonging to the St. Croix Paper Company. The station is on the top of a concrete wall 1 foot thick and is between the two large gate chambers (nearest the waste-way) which admit the water to the grinding machinery of the paper mill.

Station mark is a bronze disk set in the concrete.

In 1935, the Maine Geodetic Survey reported the bronze disk changed to a drill hole in a boulder, located 18.2 feet E and 27.6 feet W of the gates to the mill. No mention was made of this in the 1939 report. No position available of bronze disk in boulder.

UPPER BASE (New Brunswick, Charlotte County; A. J. Brabazon, 1910; 1939)--On the E side of the St. Croix River opposite Woodland, Me., 28.7 meters below the Woodland Dam, on an abandoned railway grade. The measurement given was made along the center line of the railway grade produced toward the dam.

Station mark is a copper disk set in a drill hole in a rock flush with the ground. The letters "C.R.M." are cut in the rock. A cross within a triangle is cut in a rock 8.59 meters from the station in the direction of the abutment of the dam; a like mark is cut in a rock 14.94 meters inland and downstream from the station; and another like mark is cut in a rock 8.74 meters riverward and downstream from the station.

Station not recovered in 1939.

SPOILBANK (Maine, Washington County; J. E. McGrath, 1910; 1939)--On the W bank of the St. Croix River, just below the St.



Croix Paper Mills at Woodland, Me. It is on a large spoil bank composed of spalls with a few pieces of larger stones scattered among them. The station is on one of these larger stones.

Station mark is a drill hole in the stone. A triangle and cross are cut in the same stone. "Spoilbank tablet" is a brass disk set in a drill hole in one of the bare rocks of a ledge which juts out into the river abreast of a little group of islets. It is about 5 meters from the water and  $1\frac{1}{2}$  meters above it and bears N 79°11'E, 36.46 meters from the station.

Station not recovered in 1939.

LOWER BASE (New Brunswick, Charlotte County; A.J. Brabazon, 1910; 1939)--On the E bank of the St. Croix River, opposite Woodland, Me., on the N edge of an abandoned railroad grade, 66 meters below the beginning of the first curve of the grade below the Woodland Dam and between the Maine Central Railroad and the river, approximately 70 meters from the railroad, and 40 meters from the river.

Station mark is a copper disk set in a drill hole in a rock nearly flush with the ground. The letters "C.R.M." are cut in the station rock. A cross within a triangle is cut in a rock 22.37 meters upstream from the station, at the edge of the grade; a like mark is cut in the rock, 4.73 meters inland and slightly downstream from the station; and a cross alone is cut in a rock 6.05 meters inland and a little upstream from the station.

Station not recovered in 1939.

WOODLAND PULP MILL, NEW CHIMNEY (Maine, Washington County; J.E. McGrath, 1909; 1918)--The high brick chimney on the pulp mill in Woodland, Me.

WOODLAND WATER TANK, FINIAL (Maine, Washington County; J.E. McGrath, 1909; 1924)--Station is the finial on the water tank near the pulp mill in Woodland, Me.

CROSSING (New Brunswick, Charlotte County; A.J. Brabazon, 1910; 1939)--On the E bank of the St. Croix River, opposite Woodland, Me. It is inland from the top of the riverbank, 12 meters from the water, and is nearly in line with the most southerly street of Woodland, which parallels Wapsaconhagan Brook on its N side. A small brook flows into the river 75 meters below the station.

Station mark is a copper disk set in a drill hole in a rock projecting a little above the surface of the ground. The letters "C.R.M." are cut in the rock. A cross is cut in a big white rock 4.16 meters upstream and inland from the station; a cross within a triangle is cut in a rock 6.66



meters downstream and a little inland from the station; and a like mark is cut in a rock 10.91 meters downstream from the station.

**WAPSACONHAGAN** (Maine, Washington County; J.E. McGrath, 1910; 1939; 1946)--In the SE part of Woodland, on the bank of the St. Croix River, about 14 meters from the river, and about 40 meters above the mouth of Wapsaconhagan Brook. It is on a boulder in an irregular stone pile. The boulder's greatest exposed dimensions are 0.9 by 0.8 by 0.3 meter.

Station mark is a C. & G.S. triangulation disk set in a drill hole in the boulder. Two crosses within triangles are cut in rocks of the same stone pile at distances of 9.53 and 8.12 meters, in azimuths of  $176^{\circ}$  and  $2^{\circ}$ , respectively, from the station.

In 1939 the center mark was lowered 8 inches underground. In 1946 the N reference mark was at the top of the bank, but the other mark if still existing was under a small barn.

**NEARBY** (Maine, Washington County; J.E. McGrath, 1910; 1939; 1946)--In the SE part of Woodland, on the bank of the St. Croix River. It is about 12 meters inland from the top of the riverbank and about 140 meters upriver from the mouth of Wapsaconhagan Brook.

Station mark is a C. & G.S. triangulation disk set in a drill hole in a granite boulder about 1.2 by 0.7 and 0.3 meters high. Two crosses within triangles are cut in rocks at distances of 11.21 and 5.95 meters, in azimuths of  $330^{\circ}$  and  $21^{\circ}$ , respectively, from the station.

In 1946 the site of the center mark was under a new road. References satisfactory.

**POND** (New Brunswick, Charlotte County; A.J. Brabazon, 1910; 1939)--On the E side of the St. Croix River, opposite and a little below Woodland, Me. It is about 40 meters from the riverbank and 23 meters W of the W end of a large pond that is crossed by the railway, 260 meters to the E.

Station mark is a copper disk set in a drill hole in a rock projecting a little above the ground. The letters "C.R.M." are cut in the rock. Three crosses, two of which are within triangles, are cut in the rocks; one 22.45 meters E from the station, another 20.06 meters SE, and the third 15.90 meters SW from the station.

**GAUGE** (Maine, Washington County; J.E. McGrath, 1910; 1946)--On the W bank of the St. Croix River,  $7/8$  mile below the Woodland Dam,  $1/4$  mile below the mouth of Wapsaconhagan Brook, on a little point of the shoreline about 20 meters upstream from the cable of the U.S.G.S. steam-gauging station.



Station mark is a bronze disk set in a drill hole in a bare rocky ledge about 6 inches outside the grass line. There are two drill holes in the rock near the station mark. A cross within a triangle is cut in the rock 1.89 meters downriver from the station and a like cross is cut in the rock 10.93 meters inland from the station. A 2-inch ring-bolt is in the ledge 6 feet N.

**CURVE** (New Brunswick, Charlotte County; A.J. Brabazon, 1910; 1939)--On the E bank of the St. Croix River, 1-1/8 miles below the dam at Woodland, and about 250 meters above Grass or Irving Island. It is about 8 meters N of the Maine Central Railroad and is abreast of the curve of the track, 17 meters W of the point of curvature. The shoreline of the river makes a long, right-angled turn just in front of the station.

Station mark is a copper disk set in a drill hole in a rock projecting about 0.4 meter out of the ground. The letters "C.R.M." are cut in the rock. A cross within a triangle is cut into each of three rocks, 5.76 meters NW, 2.05 meters N, and 3.93 meters SE, respectively, from the station.

**LOVERING** (Maine, Washington County; J.E. McGrath, 1910; 1918; 1946)--On the E bank of the St. Croix River, 1 1/2 miles below the Woodland Dam, 1/2 mile below and on the second point from the mouth of Wapsaconhagan Brook. It is 200 meters above Grass or Irving Island, on the shoreline, on a flat-topped boulder measuring 1.7 by 2.3 by 0.6 meters. The ground rises steeply in a rocky bluff just back of the station.

Station mark is a bronze disk set in a drill hole in the boulder. A cross within a triangle is cut in a rock 5.83 meters riverward of the station and a like mark is cut in the face of a rock in the bluff 5.82 meters inland from the station.

**IRVING** (Maine, Washington County; A.J. Brabazon, 1910; 1939)--In the St. Croix River, 1 1/4 miles below the Woodland Dam, on Grass or Irving Island. It is on the NE side of the island, 193 meters from the upper end of the little bay in the lower end of the island, 134 meters from the upper end of the island, and 7 meters back from the shore.

Station mark is a copper disk set in a drill hole in a rock. The letters "C.R.M." are cut in the rock. A cross within a triangle is cut in a rock 2.17 meters downstream and shoreward of the station; a cross is cut in a rock 3.50 meters upstream and shoreward from the station; and a like mark is cut in a rock 2.89 meters inland from the station.

**CASEY'S BARN FINIAL** (New Brunswick, Charlotte County; J.E. McGrath, 1908; 1924; 1946)--Station lost in 1946.



REFERENCE MONUMENT 197-46 (New Brunswick, Charlotte County; N.W. Smith, 1918; 1924; 1946)--On the E bank of the St. Croix River, about 1 mile below Woodland, Me.,  $\frac{3}{4}$  mile below the mouth of Wapsaconhagan Brook, opposite Grass Island. The station is about 18 meters inland from the Maine Central Railroad, 30 meters from the river, and about 6 meters above the water.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a large boulder which shows above the railroad track.

REFERENCE MONUMENT 198-46 (Maine, Washington County; J.E. McGrath, 1912; 1918; 1924; 1946)--On the W bank of the St. Croix River, a little more than a mile below Woodland, about  $\frac{3}{4}$  mile below the mouth of Wapsaconhagan Brook, and opposite the lower end of Grass Island. It is about 3 meters from the river, on a large dark-colored boulder whose largest exposed dimension is 1.3 meters.

Station mark is a standard 8-inch manganese-bronze reference post wedged in a drill hole in a large boulder, behind the willow line.

HEAD (New Brunswick, Charlotte County, J. Hill, 1924; 1939)--On the E bank of the St. Croix River, about 2 miles below Woodland, Me., opposite the upper pitch of Bailey Rips. It is about 100 meters below the island that lies at the head of Bailey Rips, about 70 meters below the mouth of a little brook, about 6 meters from the shore at an elevation of 1 meter above the water, and 6 meters from a telephone pole.

Station mark is a copper disk set in a drill hole in the rock. The letters "C.R.M." are cut in the rock. A cross within a triangle is cut in a rock 5.67 meters upstream from the station; a like mark is cut in a rock 4.78 meters upstream and inland from the station; and another like mark is cut in a rock 5.99 meters downstream and inland from the station.

SECRIP (Maine, Washington County; J.E. McGrath, 1909; 1924; 1946)--On a point on the S bank of the St. Croix River, about 2 miles below Woodland, across and below the smaller channel from a small island at the head of Bailey Rips. It is 20 feet inshore from the point of the high bank, 100 feet E of the lower end of the island, on a rock, 7 by 10 inches and 4 inches high, consisting of white quartz mixed with gray.

Station mark is a drill hole in the top of the rock filled with lead. A cross within a triangle is cut in a rock 5 by 2 feet and 1 foot high, directly inshore 7.82 meters distant S.  $24^{\circ}43'W$ . A cross is cut on E side just above the ground in a light-colored, ridge-shaped rock



opposite the end of the island, 10 feet inside the river-bank. The rock 3 feet by 1 foot and 6 inches high is N. 67°18'W, 19.81 meters from the station.

SMITH (Maine, Washington County; J.E. McGrath, 1909; 1935; 1946)-- Station lost in 1946. All rocks removed from the plowed field.

BAILEY (Maine, Washington County; J.E. McGrath, 1909; 1924; 1946)-- On the W bank of the St. Croix River, 2-1/8 miles below the Woodland Dam. Station is abreast of an indentation in the shoreline about midway between the two large islands at the head and foot of the Rips. It is about 30 meters from the river, at an elevation of about 6 meters above the water.

Station mark is a bronze disk set in a drill hole in a 6-foot square boulder 2½ feet high. REFERENCE MONUMENT 200 is set in the same boulder, distant 1.36 feet. A cross within a triangle cut on a rock bears S. 30°42'E, 7.95 feet from the station. Only shaft of the tablet remained in 1946, in the drill hole in the rock.

MIDRIP (Maine, Washington County; J.E. McGrath, 1909; 1924; Maine Geod.S., 1935)-- On the W shore of the St. Croix River, about 2 miles below Woodland, near the foot of Bailey Rips, and about 250 meters upstream from the large island that lies just below Bailey Rips. The station is just flush with the top of the riverbank, on a boulder measuring 1.2 by 0.7 by 0.4 meters. REFERENCE MONUMENT 199 is on the Canadian shore directly opposite the station.

Station mark is a drill hole in the boulder filled with lead. A cross within a triangle is cut on a stone N. 88°50' W, 7.66 meters from the station.

REFERENCE MONUMENT 199-46 (New Brunswick, Charlotte County; N.W. Smith, 1917; 1946)-- On the E bank of the St. Croix River, 2¼ miles below the Woodland Dam, at the narrow place in the river near the foot of Bailey Rips, and nearly midway between the two largest islands at the Rips (one at the head and the other below the foot of the Rips). The station is about 4.5 meters from the river, on a rocky ledge about 1.5 meters above the water.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock.

REFERENCE MONUMENT 200-46 (Maine, Washington County; N.W. Smith, 1918; 1946)-- On the W bank of the St. Croix River, above the lower pitch of Bailey Rips, and 2-1/8 miles below the Woodland Dam. The station is abreast of an indentation in the shoreline about midway between the two large islands at the head and foot of the Rips. It is about 30 meters from the



river, at an elevation of about 6 meters above the surface, in a boulder 6 feet square and  $2\frac{1}{2}$  feet high.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a large boulder. The station mark for triangulation station BAILEY is set in the same boulder, 41 centimeters distant.

THRIP (Maine, Washington County; N.W. Smith, 1946)--On the old Smith farm, on the United States side of the St. Croix River, at Bailey Rips, in open pasture, 20 feet S of the woods on the slope on S side of the river. It is on a flat shelf between this wooded slope and a smaller slope 100 feet S leading up to the arable land; 100 feet W of a knoll covered by trees projecting S from the wooded slope.

Station mark is an I.B.C. bronze station disk set in a drill hole in a 2-foot by 2-foot rock projecting 6 inches above the surface. A cairn is built over the station.

References are drill holes in rocks. No. 1 is in a rock 3 by 5 feet and 3 feet high, NW of the station, and No. 2 is in a flat rock NE of the station, 3 by  $2\frac{1}{2}$  feet and 1 foot on the highest side.

Object	Distance	Direction
SECRIP	feet	0° 00' 00" 0
R.M. 1	54.70	1 54 30
R.M. 2	35.84	88 58 00

RIPS (Maine, Washington County; N.W. Smith, 1946)--In the arable land on the old Smith farm on the S side of the St. Croix River opposite Bailey Rips, about 55 feet NW of the 24-inch maple tree near the center of the field, and 135 feet E of the stone wall on the W side of the field. The station is in the center of a potato field and couldn't be marked, but can be relocated from the reference.

Reference mark is a G.S. of C. bronze reference disk set in a diamond-shaped rock 2 by  $1\frac{1}{2}$  feet projecting 8 inches above ground, 134.43 feet W of the station, near the stone wall.

Y (Maine, Washington County; J.E. McGrath, 1909)--Lost in 1946.

BASE (Maine, Washington County; J.E. McGrath, 1909)--Lost in 1946.

LOUNDER (New Brunswick, Charlotte County; J. Hill, 1924; 1939)--On the E bank of the St. Croix River, about  $2\frac{1}{4}$  miles below Woodland, on the rounded point opposite the lower end of the first island below Bailey Rips. It is about 2 meters from the shore and about the same distance above the water, on a rock 2.4 meters long, 1.5 meters wide, and 1.5 meters high on the riverside.

Station mark is a bronze disk set in a drill hole in the rock. There is another drill hole in the same rock



0.636 meter inland from the mark and the letters "C.R.M." are cut in the rock beside the mark. A cross within a triangle is cut in a rock 4.70 meters NW from the station, a like mark is cut in a rock 6.92 meters N from the station, and another like mark is cut in a rock 10.36 meters SE from the station.

CLARK (Maine, Washington County; J.E. McGrath, 1910; 1924; 1946)--On the W bank of the St. Croix River, about  $2\frac{3}{4}$  miles below Woodland, about 250 meters above the head of Butler Islands, in a boulder 2 feet square and 6 inches high in edge of bank.

Station mark is a bronze disk set in a drill hole in the exposed surface of a boulder. A cross within a triangle is cut in the vertical face (toward the station) of a rock S.  $41^{\circ}50'W$ , 3.35 meters from the station (an eyebolt is also set in this rock); and a like mark is cut in a rock N.  $45^{\circ}31'W$ , 2.91 meters from the station.

EPHRAIM (New Brunswick, Charlotte County; A.J. Brabazon, 1910; 1924; 1946)--On the E side of the St. Croix River, about  $2\frac{1}{4}$  miles below Woodland, Me., and opposite the upper end of the upper Butler Island. It is at the river's edge, on a rock about 2 meters across and  $1\frac{1}{2}$  meters high on the side next the river and flush with the ground on the upper side.

Station mark is a copper disk set in a drill hole in the rock. The letters "C.R.M." are cut in the rock. A cross within a triangle is cut in a rock 2.92 meters N from the station; a like mark is cut in a rock 3.56 meters S from the station; and a third such mark is cut in a rock 5.34 meters E from the station.

RINGBOLT (Maine, Washington County; J.E. McGrath, 1910; 1924; 1939; 1946)--On the W bank of the St. Croix River, about 3 miles below Woodland, and opposite the lower end of the upper Butler Island. Station is 90 meters upriver from Malloy's meadow fence, on a ledge of reddish-gray granite showing an exposed surface of about 8 meters at right angles to the river. There are some old piers downstream from the station, the nearest one being 37 meters distant.

Station mark is a drill hole in the ledge. A large ringbolt is set in the ledge S.  $25^{\circ}42'W$ , 3.55 meters from the station. A cross within a triangle is cut in the rock S.  $40^{\circ}57'W$ , 5.92 meters from the station, and a like mark is cut in the sloping face of a ledge N.  $77^{\circ}45'W$ , 10.96 meters from the station.

MALLOY (Maine, Washington County; J.E. McGrath, 1910; 1946)--On the W bank of the St. Croix River, about  $1\frac{1}{4}$  miles above Baring, 125 meters above the mouth of Stoney Brook, and about 47 meters from the river. Station is in the E end of



an open field belonging to George Malloy and 2.7 meters from the line fence between George Malloy's and Ross Lawler's land.

Station mark is a bronze disk marked "C. & G.S." set in a drill hole in the exposed surface of a boulder. A cross within a triangle cut in a large boulder on the fence line, bears N.  $69^{\circ}57'E$ , 3.71 meters from the station and a like mark is cut in another boulder in the fence line S.  $46^{\circ}55'E$ , 2.32 meters from the station.

REFERENCE MONUMENT 201-46 (New Brunswick, Charlotte County; N.W. Smith, 1918; 1946)--On the St. Croix River, about  $3\frac{1}{2}$  miles below Woodland, on the downstream point of the lower Butler Island, and about 15 meters back from the water.

Station mark is a standard 8-inch manganese-bronze reference post set in a concrete base, 5 feet E of a clump of 5 elm trees.

REFERENCE MONUMENT 202-46 (Maine, Washington County; N.W. Smith, 1918; 1946)--On the St. Croix River, about  $3\frac{1}{2}$  miles below Woodland, on the N side of the large grassy island just below and across the channel from the lower Butler Island. Station is across the channel opposite REFERENCE MONUMENT 201 and is in a large hayfield about 15 meters back from the water.

Station mark is a standard 8-inch manganese-bronze reference post set in a concrete base, 6 meters inside top of bank.

HALL (New Brunswick, Charlotte County; A.J. Brabazon, 1910; 1918; 1939)--On the E bank of the St. Croix River, about  $3\frac{1}{2}$  miles below Woodland, at the lower end of the expanded stretch of the river which contains Butler Islands, and directly opposite the mouth of Stoney Brook. The station is about 2 meters back from the shore, on a rock projecting a little above the ground.

Station mark is a copper disk set in a drill hole in the rock. A cross is cut in a rock 4.25 meters SW from the station; a cross within a triangle is cut in a rock 1.54 meters S from the station; and a like mark is cut in a rock 8.33 meters NW from the station. The letters "C.R.M." are cut in the station rock.

LAWLER (Maine, Washington County; J.E. McGrath, 1910; 1918; 1939; 1946)--On the SW bank of the St. Croix River, about  $1\frac{1}{2}$  miles above Baring, in the low, level meadow that lies on the point below the mouth of Stoney Brook. It is on a little knoll marked by a number of large boulders and a forked and spreading elm tree. The station is nearly 100 meters from the river and about as far from Stoney Brook.



Station mark is a bronze disk set in a drill hole in the exposed surface of a boulder nearly flush with the ground. A cross within a triangle cut in the vertical face of a split boulder near the elm tree bears S.  $76^{\circ}27'W$ , 7.98 meters from the station and a like mark is cut in the top of a large boulder which bears N.  $33^{\circ}24'W$ , 15.37 meters distant from the station.

STILLMAN (New Brunswick, Charlotte County; A.J. Brabazon, 1910)--On the NE bank of the St. Croix River, about  $1\frac{1}{2}$  miles above Baring, about 250 meters below the lower end of the large island that lies just below Butler Islands and is opposite a small grassy island that lies near the United States shore. A large cleft rock in the river in the direction of the large island just mentioned is 37 meters upstream from the station.

Station mark is a copper disk set in a drill hole in a rock projecting a little from the ground about 1.5 meters back from the water. A cross is cut in a rock 3.08 meters inland from the station; a cross within a triangle is cut in a rock 3.20 meters upstream from the station; and a like mark is cut in a rock 3.73 meters downstream from the station.

Not recovered in 1939 or 1946.

ROCKFIELD (Maine, Washington County; J.E. McGrath, 1910)--On the S side of the St. Croix River, about  $1\frac{1}{2}$  miles above Baring, about 100 meters N of the Baring-Woodland road, near the head of the big slough or inlet whose mouth is opposite Haywood Island. It is about 150 meters NW of the mouth of a little brook that flows across the road and into the slough.

Station mark: No record was made of the kind of mark. A cross within a triangle cut in the sloping face of a large stone bears N.  $76^{\circ}53'E$ , 8.76 meters from the station, and a like mark cut in the vertical face of a large stone bears S.  $19^{\circ}01'W$ , 10.13 meters distant.

Not recovered in 1939 or 1946.

INTERVAL (Maine, Washington County; J.E. McGrath, 1910; 1939; 1946)--On the S bank of the St. Croix River, about  $1\frac{1}{2}$  miles above Baring, on the low, flat meadowland of Clayton Murphy. It is about 70 meters S of the river and 30 meters W of a large ditch. A large tree stands SW of the station about 70 meters and the stump of another tree stands W of the station about 60 meters. Two small birch trees stand 18 and 19 meters NW and W of the station, respectively.

Station mark is a bronze disk set in a small boulder.

WATERS (New Brunswick, Charlotte County; A.J. Brabazon, 1910; 1946)--On the N bank of the St. Croix River, in the big bend



of the river, about 1-3/8 miles above Baring, and on the upstream side of the bend where the shoreline begins to run NW and SE. There are three large rocks in the river in front of the station.

Station mark is a copper disk set in a drill hole in a large rock about 5 meters back from the shore. The letters "C.R.M." are cut in the rock. A cross within a triangle is cut in a rock in the water 6.11 meters from the station, a cross is cut in a rock 7.44 meters inland from the station, and a like mark is cut in a rock 4.79 meters downstream from the station.

REFERENCE MONUMENT 203-46 (New Brunswick, Charlotte County; N.W.Smith, 1918; 1946)--On the N bank of the St. Croix River, in the big bend of the river about 1-3/8 miles above Baring, on the downstream side of the bend just where the shore begins to run in a NE direction downstream. The station is opposite the upper end of Haywood Island and is N. 69°30'W, 11.6 meters from triangulation station WILL.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a triangular boulder, 4 feet on a side and 1 foot high, 15 meters inland from shore.

REFERENCE MONUMENT 204-46 (Maine, Washington County; N.W.Smith, 1918; 1946)--On Haywood Island in the bend of the St. Croix River, about 1-3/8 miles above Baring, 9.03 meters S from HAYWOOD triangulation station. The station is on an out-cropping rocky ledge 30 by 20 feet, a little above high-water mark.

Station mark is the shaft only of a boundary reference post, set in a drill hole in the ledge, inside a 4-inch square cut in the rock. "R.M. 204" is cut in the rock nearby.

WILL (New Brunswick, Charlotte County; A.J.Brabazon, 1910; 1918; 1939)--On the N bank of the St. Croix River, in the big bend of the river about 1-3/8 miles above Baring, on the downstream side of the bend just where the shore begins to run in a NE direction downstream. It is opposite the upper end of Haywood Island and just E of a little meadow. It is on a large rock projecting into the river.

Station mark is a copper disk set in a drill hole in the rock. The letters "C.R.M." and a cross and triangle are cut in the rock. A cross within a triangle is cut in each of two rocks upstream from the station; the one nearest the river is 4.27 meters and the one farthest inshore is 11.69 meters from the river.

HAYWOOD (Maine, Washington County; J.E.McGrath, 1910; 1918; 1939; 1946)--On Haywood Island in the St. Croix River, about 1-3/8 miles above Baring, 40 meters downstream from the upper end



of and on the main channel side of the island, on a bare part of a ledge near the shoreline.

Station mark is the shaft only of a bronze disk set in a drill hole in the ledge. A cross within a triangle is cut in the ledge S.  $41^{\circ}39'E$ , 7.20 meters from the station and a like mark is cut in the ledge S.  $9^{\circ}57'W$ , 9.03 meters from the station. REFERENCE MONUMENT 204 was later set at this last mark.

COVE (New Brunswick, Charlotte County; A.J. Brabazon, 1910; 1946)--On the N bank of the St. Croix River, about 1 mile above Baring, and about 200 meters above the first big island above Baring. It is on the outer or river side and 100 meters above the end of a point behind which there is a little cove.

Station mark is a copper disk set in a drill hole in a kite-shaped rock, 3 by 4 feet and 1 foot high, on the shore, at high-water line, 5 meters inshore from flat rock 8 by 6 feet and 2 feet high. The letters "C.R.M." are cut in the rock. A cross is cut in a rock at the edge of the water, 2.11 meters downstream from the station; a cross within a triangle is cut in a rock at the edge of the water, 4.17 meters upstream; and a like mark is cut in a rock in the water, 3 meters from the shore and 7.70 meters distant from the station.

FROSTFIELD (Maine, Washington County; J.E. McGrath, 1910; 1939; 1946)--On the S bank of the St. Croix River, about 1 mile above Baring, on Frostfield Point, which is the first point on the S side of the river above the large island first above Baring, sometimes known as Marpole Island. The station is at the shoreline about 40 meters from the upper crib of the boom across the United States channel of the river.

Station mark is a C. & G.S. bronze disk set in a drill hole in an exposed boulder nearly flush with the ground. A cross within a triangle is cut in a rock S.  $42^{\circ}34'E$ , 3.74 meters from the station and a like mark is cut in a rock S.  $32^{\circ}26'W$ , 5.66 meters from the station. A third cross was cut on a rock riverward from the station some 3 meters distant, but it is frequently covered by water and the distance to it was not measured.

DOTEN (Maine, Washington County; J.E. McGrath, 1909; 1939; 1946)--On the S bank of the St. Croix River,  $\frac{3}{4}$  mile above Baring, on the bare slope of an extensive ledge on the E side of Doten Point. The station is about 9 meters W of the prolongation of the main line of the fence between the properties of Edward and Alvin Doten and about 8 meters from the shoreline.

Station mark is a bronze disk set in a drill hole in the ledge. A cross within a triangle is cut in the ledge S.  $55^{\circ}59'E$ , 6.48 meters from the station, and a like mark is cut in the ledge N.  $76^{\circ}43'W$ , 1.56 meters from the station.



**ABBOTT** (New Brunswick, Charlotte County; A.J. Brabazon, 1910; 1946)--On the N bank of the St. Croix River, about  $\frac{1}{2}$  mile above Baring, opposite the big island above Baring sometimes called Marpole Island. The station is on a large rock 10 by 5 feet and 3 feet high at the shoreline, about 120 meters above the mouth of the first brook on the Canadian side above Baring, almost covered by a clump of white maple.

Station mark is a copper disk set in a drill hole in the rock. A ringbolt and two other bolts are set in the rock within a foot of the station mark, and the letters "C.R.M." are cut in the rock. Three crosses are cut in rocks, two of which are within triangles, one 1.36 meters upstream, another 4.33 meters inland, and the third 2.88 meters riverward from the station.

**HEATER** (New Brunswick, Charlotte County; A.J. Brabazon, 1910; 1918; 1939)--On the N bank of the St. Croix River, about  $\frac{1}{2}$  mile above Baring, on the point at the narrow part of the river opposite Pratt Point.

Station mark is a copper disk set in a drill hole in a ledge below high-water mark. The letters "C.R.M." are cut in the ledge. Four crosses are cut in the rock, two of which are within triangles. The first is 2.78 meters upstream, the second is 5.82 meters upstream and inland, the third is 2.84 meters inland, and the fourth is 6.32 meters downstream from the station, near the water's edge. REFERENCE MONUMENT 205 is N.  $67^{\circ}19'W$ , 19.57 meters distant from the station.

**PRATT** (Maine, Washington County; J.E. McGrath, 1909; 1918; 1939; 1946)--On the S side of the St. Croix River, about  $\frac{1}{2}$  mile above Baring, on Pratt Point. The station is about midway of the point and about 80 meters back from the river, in the stony pasture land.

Station mark is a bronze disk set in a drill hole in the exposed surface of a large, embedded boulder. A cross within a triangle cut in a large boulder bears N.  $21^{\circ}12'E$ , 7.29 meters distant, and a like mark is cut in an exposed ledge of rock which bears S.  $45^{\circ}04'W$ , 11.63 meters distant from the station.

**REFERENCE MONUMENT 205-46** (New Brunswick, Charlotte County; N.W. Smith, 1918; 1946)--On the N bank of the St. Croix River, about  $\frac{1}{2}$  mile above Baring, on the point at the narrow part of the river opposite Pratt Point. The station is at the edge of the pine timber about 23 meters from the river.

Station mark is a drill hole in a flat boulder 5 feet by 4 feet and 5 feet high. Triangulation station "HEATER" is S.  $67^{\circ}19'E$ , 19.57 meters distant from the station.



REFERENCE MONUMENT 206-46 (Maine, Washington County; N.W. Smith, 1918; 1935; 1939; 1946)--On the S side of the St. Croix River, on Pratt Point, about  $\frac{1}{2}$  mile above Baring. The station is about 30 meters back from the river, on a rocky ledge, and is N.  $38^{\circ}54'W$ , 43.6 meters from the triangulation station "PRATT". Ledge sparsely wooded.

Station mark is an I.B.C. bronze station disk, stamped "206", set in a drill hole in the ledge in 1939, on the site of former reference post.

ENGLISH (New Brunswick, Charlotte County; A.J. Brabazon, 1910; 1939)--On the N side of the St. Croix River, just S of Upper Mills, about 180 meters W of the W end of the Maine Central Railroad bridge across the St. Croix River, and about 70 meters N of the Maine Central Railroad track. The station is on the point 2.4 meters back from the brink of the English gravel pit.

Station mark is a copper disk set in a drill hole in a rock placed with its top below the surface of the ground. The letters "C.R.M." are cut in the rock. A cross in the top of a tile filled with concrete and set in the ground below the surface bears N.  $85^{\circ}28'E$ , 2.52 meters; another like mark bears N.  $57^{\circ}49'W$ , 2.19 meters; and an iron bolt 48 centimeters long with a cross cut on its head is driven below the surface of the ground N.  $9^{\circ}10'E$ , 2.67 meters from the station.

Not recovered in 1939. Probably lost due to excavations in gravel pit.

POPPELMILL (Maine, Washington County; J.E. McGrath, 1909; 1935; 1939; 1955)--On the E bank of the St. Croix River in the southern part of the town of Baring. The station is on high ground, about 2 meters back from the top of the bank above the grade of the railroad spur that runs from Baring S along the riverbank, about 50 meters from the riverbank, and about 290 meters S of the international highway bridge.

Station mark is  $\frac{1}{2}$  of drill hole in the top of a granite post 6 inches square and 2 feet long firmly set in the ground. The subsurface mark is a nail set in cement in the top of a 3-inch drain tile set 2 feet below the surface of the ground. Three nails in a blaze on a large oak tree S of the railroad spur bear N.  $30^{\circ}56'W$ , 11.44 meters distant, and a nail flush with the ground, set in concrete in the top of a 3-inch drain tile bears N.  $58^{\circ}10'E$ , 5.50 meters distant from the station. Not recovered in 1946. Landmarks changed.

In 1955 the tablet was gone but was put back in place, the rotten stump of the tree was left and about 6 inches high, the reference was gone. Station is at the top of the bank of the new road to the grand pit and 10 meters E of it. The railroad spur is gone.



ROCK (Maine, Washington County; J.E. McGrath, 1909; 1939; 1946; 1955)--On the S side of the St. Croix River, 1 mile SW of Baring, on the highest point of a rocky knoll, 17 meters W of the center line of State Highway 191, opposite the first sharp turn in the road, approximately 300 meters from the intersection of Highway 191 and U.S. Highway 1.

Station mark is a bronze disk set in a drill hole in the rock. A cross within a triangle is cut in the rock N. 5°07'E, 3.97 meters distant.

SOUTH MARKER, HIGHWAY BRIDGE, BARING-UPPER MILLS (Maine, Washington County; New Brunswick, Charlotte County; N.W. Smith, 1955)--A board painted white and attached in a vertical position to the south rail of the highway bridge across the St. Croix River between Baring, Me., and Upper Mills, N.B.

The boundary is marked thereon by a vertical black line with the names of the two countries on either side of the line.

NORTH MARKER, HIGHWAY BRIDGE, BARING-UPPER MILLS (Maine, Washington County; New Brunswick, Charlotte County; N.W. Smith, 1955)--A board painted white and attached in a vertical position to the north rail of the highway bridge across the St. Croix River between Baring, Me., and Upper Mills, N.B.

The boundary is marked thereon by a vertical black line with the names of the two countries on either side of the line.

BARING SCHOOL CUPOLA (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1918; 1946)--Lost in 1946. Schoolhouse burned

REFERENCE MONUMENT 207-46 (New Brunswick, Charlotte County; A.J. Brabazon, 1910; 1918; 1946; 1955)--On the W bank of the St. Croix River, in the town of Upper Mills, N.B. The station is 57 meters N of the outer upper corner of the abutment of the international highway bridge and about 12 meters from the river's edge on a little rocky point.

The station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a ledge of rock. The letters "C.R.M." are cut in the ledge and two ringbolts are set in it at distances of 1.26 and 0.35 meters from the station mark. Three crosses are cut in rock; one is 5.35 meters upstream, the second is 6.32 meters inland, and the third is 4.57 meters downstream and inland from the station. All rocks are covered with moss.

REFERENCE MONUMENT 208-46 (Maine, Washington County; N.W. Smith, 1918; 1946; 1955)--On the E bank of the St. Croix River, in the town of Baring. The station is about 25 meters N of the international highway bridge and between the railroad track



and the river, about 18 meters from the railroad, and 40 meters from the river.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in outcropping rock.

**SOUTH BAR** (Maine, Washington County; J.E. McGrath, 1910; 1946; 1955)--On the S side of the St. Croix River, in Baring, Me. The station is at the intersection of the NE line of the main street in Baring with the NE line of the international highway bridge across the St. Croix River.

Station mark is a bronze disk in the top of a 2 foot granite post, 6 inches square and set flush with ground. Subsurface mark is nail in concrete in top of tile 2-1/3 feet under surface of ground. Nearest corner of granite foundation of Polley's store bears S. 75°04'E, 13.49 meters distant. Distance from station to center line of M.C.R.R. in the direction of downstream side of highway bridge is 3.50 meters.

Not recovered in 1946 as it was covered and in edge of road. Probably could be recovered if required.

Recovered in 1955. It is buried 1 foot under edge of road. It is now 9.3 feet from the nearest rail of the railroad; 11.6 feet upstream from the edge of the nearest telephone pole on the corner.

**PHINNEY** (Maine, Washington County; J.E. McGrath, 1909; 1918; 1946; 1955)--On the E side of the St. Croix River, in Baring, Me. The station is on the N side of the first street S of and paralleling the Maine Central Railroad, about 100 meters northeastward from the main street of Baring, on a bare outcropping of rock 16.6 meters below the top of a rocky ledge. The station is two-thirds of the way up the hill and 3 meters from the road.

Station mark is a C. & G.S. bronze disk set in a drill hole in the rock. A cross within a triangle is cut in the rock N. 35°04'E, 11.61 meters from the station, and a similar mark bears S. 19°40'E, 11.37 meters distant from the station.

**MURPHY** (New Brunswick, Charlotte County; A.J. Brabazon, 1910; 1946; 1955)--On the W bank of the St. Croix River, a little below Baring, Me., at a narrow place in the river, about 300 meters below the international highway bridge. The station is about 10 meters back from the river, on the exposed surface of a rock projecting a little above the surface of the ground.

Station mark is a blank copper disk set in a drill hole in the rock. The letters "C.R.M." are cut in the rock. A cross within a triangle is cut in a rock 3.36 meters upstream and inland from the station and a cross within a



triangle is cut in a rock 4.72 meters downstream and riverward from the station. Between these is a third similar mark which is distant 2.93 meters from the station. An eyebolt set in the rock is about 3 meters upstream.

In 1955, it was found on top of the high bank of the river 30 feet E of a huge triangular rock. Another huge flat rock is 5 feet W in the open. R.M. 2 is a cross only.

**CHAIN ROCK** (Maine, Washington County; J.E. McGrath, 1909; 1918; 1946; 1955)--On the E bank of the St. Croix River, on the summit of a square rocky headland that projects into the narrows of the river 400 meters N of the international highway bridge at Baring, Me.

Station mark is a bronze disk set in a drill hole in the ledgerrock. A cross within a triangle is cut in the rock N.  $87^{\circ}44'E$ , 3.73 meters and a large eyebolt is set in the rock S.  $31^{\circ}34'W$ , 7.51 meters distant from the station. Two other eyebolts are about 2.9 meters north and east of station.

**REFERENCE MONUMENT 209-46** (New Brunswick, Charlotte County; N.W. Smith, 1918; 1946; 1955)--On the W bank of St. Croix River,  $\frac{1}{4}$  mile below the international highway bridge at Baring, 5.5 meters from the water's edge, and S.  $29^{\circ}24'E$ , 39.7 meters from triangulation station "TOWERS" where the river broadens out into a wide bay.

The station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a rock ledge. An iron bolt 1 inch in diameter and 10 inches high is set in the rock 3.20 meters downstream.

**REFERENCE MONUMENT 210-46** (Maine, Washington County; N.W. Smith, 1918; 1939; 1946; 1955)--On the E bank of the St. Croix River,  $\frac{1}{4}$  mile N of the international highway bridge at Baring. The station is on the upstream side of the first rock point below the bridge and is about 22 meters E of "CHAIN ROCK" triangulation station.

Station mark is an I.B.C. bronze station disk set in a drill hole in the rock, on the site of the former reference post.

**TOWERS** (New Brunswick, Charlotte County; A.J. Brabazon, 1910; 1946; 1955)--On the bank of the St. Croix River,  $\frac{1}{4}$  mile N of Baring. The station is on the Canadian point opposite Sawdust Island where the river suddenly broadens out into a lake-like expanse.

The station mark is a blank copper disk set in a drill hole in the ledge rock, 15 meters back from the extreme end of the point. The letters "C.R.M." are cut in the ledge. A cross cut in the ledge inland is 9.09 meters from the



station. A drill hole in the ledge is 7.33 feet toward Sawdust Island, a large eyebolt is 0.63 meters inland. Two other marks are 1.65 and 3.84 meters from the station.

SAWDUST ISLAND (Maine, Washington County; J.E. McGrath, 1909)-- In the St. Croix River,  $\frac{1}{4}$  mile N of Baring, on Sawdust Island in the mouth of the narrow channel where it suddenly broadens out into a lake-like expanse. The island is small and very low and the station is at its southwestern extremity.

Station mark is a bronze disk in the top of a 2 foot granite post 6 inches square and set in the ground.

Not found in 1939.

BARTLETT (New Brunswick, Charlotte County; A.J. Brabazon, 1910; 1946; 1955)--On the W shore of the St. Croix River,  $\frac{1}{2}$  mile NE of Baring and about 250 meters NW of where the river suddenly broadens out, among bushes.

Station mark is a drill hole in a rock 1.5 meters long and 1 meter wide, which juts into the water and projects about 0.3 meter above it. A large rock in the mouth of a little brook bears northwest 43 meters distant. A cross within a triangle cut in a rock in the river close to the shore is 3.38 meters upstream from the station. Another like mark is 2.20 meters downstream and inland. The letters "C.R.M." are cut in the station rock. Cross in rock in river not found in 1955.

BUTLER (New Brunswick, Charlotte County; A.J. Brabazon, 1910; 1939; 1955)--On the W shore of the St. Croix River,  $\frac{3}{4}$  mile NE of Baring, and just above the mouth of Mohannas Creek, on Butler's farm. The station is about 4 meters back from the marshy shore, in the alders, on a rock about 1.7 meters long projecting about 0.4 meter above the ground with another rock lying partly over it.

Station mark is a copper disk set in a drill hole in the rock. The letters "C.R.M." are cut in the rock. A cross is cut in each three rocks; one upstream, one downstream, and one inland from the station, at distances of 3.75, 13.85 and 3.35 meters from the station, in the order given. Cross upstream in a triangle in 1955.

CANAL (Maine, Washington County; J.E. McGrath, 1909; 1918; 1939; 1946; 1955)--On the bank of the St. Croix River,  $\frac{3}{8}$  mile N of the international bridge at Baring, on Canal Point. The station is on a bare ledge at the edge of a wooded tract.

Station mark is a bronze disk set in a drill hole in the ledge. A cross within a triangle is cut in the ledge inside the tree line S.  $27^{\circ}07'E$ , 9.60 meters distant from the station.



**HAW POINT** (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1939; 1955)--On the bank of the St. Croix River, about  $\frac{5}{8}$  mile N of Baring, on Haw Point just below the mouth of Mohannas Creek and about 115 meters W of a point of the shore from which the shoreline begins to bend decidedly downstream. The station is on a rock 2.4 meters long, 1.5 meters wide, 1 meter high, and in the edge of the water.

In 1955, the station mark is a drill hole in the rock, the letters "C.R.M." are cut in the rock. A small cross is cut in a rock 3.66 meters upstream and 2 meters from the shoreline. A cross within a triangle is cut in a rock 10.55 meters downstream from the station, 2 meters from the water.

**REFERENCE MONUMENT 211-46** (New Brunswick, Charlotte County; N.W. Smith, 1918; 1939; 1955)--On the N bank of the St. Croix River, about  $\frac{3}{4}$  mile below Baring, opposite from and  $\frac{1}{4}$  mile NE of Russell Point, and almost due N of the W end of the long island known as McKeesick Island. There are several small islands abreast of the shoreline here, and one very small one with a lone tree on it lies below and about 90 meters distant from the station. The station is on a flat-topped rock about 15 meters from the river.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock.

**RUSSELL** (Maine, Washington County; J.E. McGrath, 1909; Maine Geod. S., 1935; 1918; 1946; 1955)--On the S bank of the St. Croix River, on Russell Point,  $\frac{1}{2}$  mile NE of the international highway bridge at Baring. The station is well out on the tip of the point outside the grass line, on a large boulder, 10 meters from the water line.

Station mark is a bronze disk set in a drill hole in the boulder. Reference monument 212 is set in the same boulder, 21 centimeters NW of the station. A cross within a triangle is cut in a large rock inside the line of alders S.  $54^{\circ}46'E$ , 15.36 meters from the station, and a like mark is cut on a large granite boulder that emerges from the water on the E side of the point N.  $84^{\circ}32'E$ , 16.82 meters from the station.

Land now owned by Moreshead.

**REFERENCE MONUMENT 212-46** (Maine, Washington County; N.W. Smith, 1918; 1946; 1955)--On the S bank of the St. Croix River, at Russell Point,  $\frac{1}{2}$  mile NE of the international highway bridge at Baring. The station is on the same rock as triangulation station "RUSSELL" and is 21 centimeters NW therefrom, in low bushes.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock. Monument raised  $1\frac{1}{2}$  inches, but held firmly by wedge in present position.



**SQUIRREL POINT** (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1939; 1955)--On Squirrel Point, on the N bank of the St. Croix River,  $\frac{3}{4}$  mile NE of Baring. This station is directly N of McKeesick Island, at the outer edge of the marshy shore of the point on the upper side of the first bay above J.I. Hill's house. A large maple stands partly in the water on the point, and a large partly submerged rock rises from the river 6 meters from the station.

Station mark is a copper disk set in the top of a stone, about 1 by  $1\frac{1}{2}$  feet in size and  $2\frac{1}{2}$  feet long, set with its top flush with the ground. The letters "C.R.M." are cut in the stone. A cross is cut in a rock near the edge of the water, 4.77 meters riverward and slightly downstream from the station, and a like mark is cut in a rock near the edge of the river, 6.33 meters upstream from the station.

**RIDEOUT** (Maine, Washington County; J.E. McGrath, 1909; 1935; 1946; 1955)--On the S side of the St. Croix River, about  $\frac{3}{4}$  mile NE of Baring, on the high rolling meadowlands lying between the Baring-Calais highway and the Maine Central Railroad. The station is among scattering brush 20 feet N of the meadow on land that is part of the Moosehorn Game Preserve and 50 feet N of the highest part of the hill in the meadow. It is almost due S of the E end of McKeesick Island, about 120 meters from the river, about 90 meters S of the railroad, about 150 meters N of Highway No. 1, and 70 feet E of the line of bushes and trees along the wedge of the Preserve. It is about on the line of the E edge of the house across the highway extended northward.

Station mark is a bronze disk set in the top of a granite post 6 inches square and 2 feet long and set with its top flush with the ground. The subsurface mark is a nail set in concrete in the top of a 3-inch drain tile placed  $2\frac{1}{4}$  feet below the surface of the ground. A nail, set in the top of a 3-inch drain tile 14 inches long, filled with concrete and set flush with the ground in the hedgerow on the W property line, is 92.2 meters along the hedgerow S of the railroad right-of-way fence, and is S.  $57^{\circ}17'W$ , 31.28 meters distant from the station.

In 1935 the surface marker was replaced over the subsurface mark. Reference mark not recovered in 1935, 1946 or 1955.

**BIRCH HILL** (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1939; 1955)--On the N bank of the St. Croix River, about 1 mile NE of Baring, at a point where the river begins to make a long, circular curve to the left downstream. The station is on the W slope and 20 feet from the top of a small hill between a small water course 75 feet W and another somewhat farther E. It is 50 feet W of a fence along E side of the



top of the hill, 138.4 meters nearly due E from the nearest corner of the foundation of the kitchen in the dwelling house of J.I. Hill.

Station mark is a copper disk set in the top of a granite block 2 feet long and 1 foot square sunk endwise in the ground. The letters "C.R.M." are cut in the stone. Two pieces of tile filled with concrete and marked with a nail set in the concrete top are sunk below the surface of the ground as witness marks; one of them is S.  $39^{\circ}42'E$ , 8.10 meters from the station, and the other is S.  $3^{\circ}13'E$ , 7.64 meters from the station.

In 1955 the first reference was 6 feet inland from a spotted birch tree on the edge of the high bank and buried 4 inches. The second reference was 16.42 feet W of the first reference, buried 5 inches, and 5 feet inshore from a birch tree in edge of the high bank. The station mark is  $\frac{1}{2}$  inch below base of the sod in the field.

**STONYFIELD** (Maine, Washington County; J.E. McGrath, 1909; 1935; 1946; 1955)--About 2 miles S of Milltown, Me., on the summit of the first bare knoll S of the intersection of the Calais-Baring highway and the Maine Central Railroad. The station is about 200 meters SE of the highway and about 250 meters SW of the railroad. The station is in heavy woods on the Moosehorn Game Preserve, with a pile of rock nearby, and a bolt set 2.2 meters NE.

Station mark is a bronze disk set in a drill hole in one of several outcropping rocks. A cross within a triangle is cut in the outcropping rock S.  $34^{\circ}44'E$ , 8.03 meters from the station, and a like mark is cut in the outcropping rock N.  $17^{\circ}00'W$ , 12.83 meters from the station.

**BALCOLM** (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1939)--About  $1\frac{1}{2}$  miles S of Milltown, N.B., and about 325 meters W of the St. Croix River, in Balcom's meadows in the big bend of the river. The station was 113 meters SE of the SE corner of Balcom's barn, now gone.

Station mark is a copper disk set flush with the ground, in the top of a granite post 1 foot square and  $2\frac{3}{4}$  feet long, firmly embedded in the ground. The letters "C.R.M." are cut in the granite. Two pieces of tile pipe filled with concrete and marked with a nail set in the concrete are set 9 inches under ground for witness marks. The first is N.  $59^{\circ}09'W$ , 4.24 meters distant from the station. The second is N.  $25^{\circ}05'W$ , 4.41 meters from the station. In 1939 the field had been plowed and the station was not recovered.

**JUNCTION** (Maine, Washington County; J.E. McGrath, 1909; 1935; 1946; 1955)--About  $1\frac{1}{2}$  miles S of Milltown, Me., at the St. Croix Junction, on the Maine Central Railroad. The station is



between the two tracks and between the platforms, just S of the trainmen's registration booth (28 meters south), almost directly below the end of the south rail of the southern work car rack, 8.69 meters from the edge of the inside rail on the main track of the railroad, and 5.63 meters from near edge of the inside rail of the Princeton track, about 5 meters west of a telegraph pole.

Station mark is a bronze disk set in the top of a granite post 6 inches square and 2 feet long, firmly set in the ground. The subsurface mark is a nail in the top of a concrete-filled 3-inch tile set  $1\frac{3}{4}$  feet below the surface of the ground. A piece of 3-inch drain tile 1 foot long, filled with concrete and marked with a nail set in the top of it, is set flush with the ground, 1.49 meters from the nearest edge of the top of the nearest rail of the Princeton line, 2.12 meters from the nearest edge of the top of the nearest rail of the main line of the railroad, and N.  $10^{\circ}02'E$ , 41.65 meters from the station mark.

Reference mark not recovered in 1935 or 1946.

CAMPBELL (Maine, Washington County; J.E. McGrath, 1909; 1935; 1946; 1955)--About 1 mile S of Milltown, Me., in an open field between the Maine Central Railroad and the St. Croix River, about 200 meters N of Maguerrewoc Stream, and abreast of the S end of Campbell's Siding. The station is on a small boulder, about 0.5 by 1 meter in cross section and 0.2 meter in height, which is one of a pile of stones made in clearing the surrounding field. The center of the main track of the Maine Central Railroad is 72.75 meters from the station, which is on a small knoll, with higher knoll 75 meters NE.

Station mark is the shank only of a bronze disk set in a drill hole in the boulder. A cross within a triangle is cut in a rock N.  $13^{\circ}53'E$ , 8.02 meters from the station, and a like mark is cut in the rock of an outcropping ledge N.  $82^{\circ}43'W$ , 9.76 meters from the station. Station on a knoll among cherry trees. References gone or covered deeply.

PINEO (Maine, Washington County; J.E. McGrath, 1909; 1935; 1946; 1955)--About 1 mile S of Milltown, Me., on the E bank of the St. Croix River, and about  $\frac{1}{4}$  mile below the mouth of Maguerrewoc Stream. The station is 42 meters from the river on the NE corner of an embankment which was at one time the site of a house. The ruined stone walls of the cellar still remain and the station is about 1 meter NE of the NE corner of the old wall. There is a sand and gravel pit just across the old cellar from the station. Only a hole remains where the cellar was, and the station is on the highest point, near the NE corner of the old cellar, with two small gravel pits nearby.

Station is marked with a bronze disk set a little above



the surface of the ground, in the top of a granite post 6 inches square and 2 feet long. The letters "U.S.R.M." are cut, one letter on each of the vertical sides of the post. Sub-surface mark is a nail set in concrete in a 12-inch length of 3-inch drain tile. A cross within a triangle is cut in the top of a stone S.  $37^{\circ}48'W$ , 23.56 meters distant from the station, and a nail set flush with the ground in the top of a concrete-filled tile is N.  $38^{\circ}24'W$ , 6.13 meters distant from the station. In 1955 the post and nearest reference in cellars. Lost.

REFERENCE MONUMENT 213-46 (New Brunswick, Charlotte County; N.W. Smith, 1918; 1939; 1955)--On the W shore of the St. Croix River, about 1,200 meters upstream from the Milltown highway bridge across the river. The station is on a huge boulder projecting into the river, in the rear of and 12 meters from the pier at the head of a boom along the Canadian shore above Milltown.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock. Shank only remained in 1955 with top 1 inch below top of rock.

REFERENCE MONUMENT 214-46 (Maine, Washington County; N.W. Smith, 1918; 1946; 1955)--On the E side of the St. Croix River, about 1,200 meters upstream from the Milltown bridge across the St. Croix River, in rocky pasture, 90 meters upstream from a pier on the bank of the river, and about 60 meters back from the shoreline; now covered around station by a thick clump of tamaracks.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a boulder, 6 feet in diameter and 2 feet high, with a larger rock 11 feet toward the river and another large rock 3 feet high, 25 feet upstream.

WHITE (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1918; 1939; N.W.S. 1955)--On the W bank of the St. Croix River, on the point at the upper end of the marshy shore that extends upstream from Milltown for  $\frac{1}{2}$  mile. The station is on a light-colored granite rock about 35 meters back from the shoreline.

Station is marked with a copper disk set in a drill hole in the rock. The letters "C.R.M." are cut in the rock. A cross within a triangle is cut in each of three rocks, one 3.70 meters eastward, another 2.03 meters southward, and the third 5.84 meters westward from the station. In 1955, first reference covered, second is an eyebolt; another eyebolt in next rock SW.

KELLEY (Maine, Washington County; J.E. McGrath, 1909; 1935; 1939; 1946)--Just S of Milltown, Me., in the Kelley meadow. The



station is about 650 meters S of the international bridge at Milltown. It is between the Maine Central Railroad and the St. Croix River, about 240 meters from the railroad, about 140 meters from the river, about 70 meters S of the edge of the swampy land that extends along the river from Milltown, and about 40 meters N of a lane which leads to the Milltown Bridge Road.

Station mark is a bronze disk set in the top of a granite post 6 inches square and 2 feet long set with its top nearly flush with the ground. The letters "U.S.R.M." are cut, one letter in each of the vertical faces of the post. The subsurface mark is a nail set in the top of a concrete-filled tile set 2 feet below the level of the ground. A tile filled with concrete with a nail in the top of it is set alongside the lane fence on the S side of the meadow S.  $28^{\circ}48'E$ , 37.70 meters distant from the station and in line with a large lone pine tree in the field to the S. A granite post 6 inches square and 2 feet long marked with a drill hole in its top is set near the river bank S.  $69^{\circ}59'W$ , 171.74 meters distant from the station. In 1946 the granite post was found, minus the tablet, in the fence line nearby, and the pine tree gone. An auxiliary station probably needed to find the subsurface mark and re-establish the station.

WEST TABLET, HIGHWAY BRIDGE, MILLTOWN (Maine, Washington County; New Brunswick, Charlotte County; J.G. Hefty and J.A. Pounder 1936; 1946; 1955)--A standard bronze bridge tablet on the boundary attached to the upstream rail of the highway bridge across the St. Croix River between Milltown, Me., and Milltown, N.B.

EAST TABLET, HIGHWAY BRIDGE, MILLTOWN (Maine, Washington County; New Brunswick, Charlotte County; N.W. Smith, 1955)--A standard bronze bridge tablet on the boundary attached to the downstream rail of the highway bridge across the St. Croix River between Milltown, Me., and Milltown, N.B.

STUBBS (Maine, Washington County; J.E. McGrath, 1909; 1921; 1935; 1946; 1955)--In Milltown, Me., in the backyard of Howard McKay, about 40 meters S of the main street of Milltown, about 25 meters E of the Maine Central Railroad, and about 60 meters S of the international highway bridge across the St. Croix River.

Station mark is a bronze disk set flush with the ground, in the top of a granite post 6 inches square and 2 feet long.

The letters "U.S.R.M." are cut, one letter in each of the vertical faces of the post. A cross within a triangle is cut in a boulder N.  $52^{\circ}15'E$ , 1.61 meters from the station, and a like mark is cut in an exposed ledge of rock S.  $50^{\circ}12'E$ , 7.98 meters from the station.



One reference mark was located 36.42 meters NE by N from station in 1935. References not recovered in 1946. In 1955 station 18 feet SE of N side of house extended, opposite N side of dormer and 76 feet W of house.

PUMPING STATION (Maine, Washington County; J.E. McGrath, 1909; 1935; 1946; 1955)--In Milltown, Me., just below the U.S. end of the highway bridge across St. Croix River, on the ground of the Calais Water Company, at the rear of the emergency pump engine house, on filled ground, and about 9 meters from a section of retaining wall that runs at right angles inland from the river wall and is 1.8 meters at right angles from the river wall.

Station mark is a bronze disk in a drill hole in the top of a granite post 6 inches square and 2 feet long set firmly in the ground with its top about 1 foot below the surface. Subsurface mark is a nail in the top of a concrete-filled tile buried beneath the granite post. A nail set in the top of a concrete-filled tile embedded in the ground is 5.96 meters from the NW corner and a little outside the N line of the rear building of the pumping station, and is N.  $84^{\circ}47'E$ , 5.96 meters distant from the station. A cross within a triangle cut on the surface of an exposed stone is 4.0 meters S of the S rail of the M.C.RR., about 6 meters W of the W rail of the electric railroad, 10.1 meters from a granite post at the NW corner of the N fence of Mrs. Stubbs' property on Main Street, and S.  $4^{\circ}16'W$ , 45.15 meters distant from the station. A like mark cut in the rock, one course of stones below the top of the retaining wall along the river, N.  $62^{\circ}08'E$ , 39.24 meters from the station.

Station may be slightly out of position due to erosion and refill. Not recovered in 1955.

CHURCH (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1946)--On the NW bank of the St. Croix River, in the southern part of Milltown, N.B. The station is 50 meters upstream from the highway bridge between the two Milltowns, 3.16 meters inland from the inland rail of the Canadian Pacific Railway.

Station mark is a badly-defaced copper disk set in a drill hole in a big rock in Mr. Church's lot. Probably rock broken up. Lost or deeply buried.

MILLTOWN GRAMMAR SCHOOL CUPOLA (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; Maine Geod. S., 1935)--In Milltown Calais, a cupola very similar to that of Calais City. The ornamental work about the openings of the bell tower and the white railing around the bell deck are omitted. The roof is red.



MILLTOWN WATER WORKS CHIMNEY (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; Maine Geod. S., 1935)--In Milltown, Calais, just below the Middle Range on the NW side. It is square, unpainted brick, and has an ornamental top 50 feet high.

MILLTOWN COTTON MILL CHIMNEY (U.S.C. & G.S.) (New Brunswick, Charlotte County; C.H. Boyd, 1887; 1955)--In Milltown, St. Stephens, a square brick chimney, 50 feet high, much blackened at top from smoke; the main chimney of the St. Croix cotton mills.

MILLTOWN BAPTIST CHURCH FINIAL (Maine, Washington County; J.E. McGrath, 1909; 1946; 1955)--On the W side of North Street in Milltown, Me., a rectangular church with a square tower on the E or street end of the building.

Station mark is the finial of the tower.

MILLTOWN CONGREGATIONAL CHURCH SPIRE (New Brunswick, Charlotte County; J.E. McGrath, 1909; 1918; 1946; 1955)--On the E side of the main street of Milltown, N.B., a rectangular building on the NW corner of the block, with a tall tower and spire on the NW corner of the building.

Station mark is the point of the spire.

REFERENCE MONUMENT 215-46 (Maine, Washington County; J.E. McGrath, 1912; 1922; 1946; 1955)--At Milltown, Me., about 75 meters below the Milltown bridge, and about 50 meters below the water company's pumping plant, on the large rock on the edge of the St. Croix River locally known as Goose Rock. In 1946, the rock was 20 feet outside of shore in quick water.

Station mark is a bronze disk, stamped "215", set in a drill hole in the rock. A large iron ringbolt is set in the rock a little W of the mark.

REFERENCE MONUMENT 216-46 (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1922; 1946; 1955)--On the bank of the St. Croix River, at Milltown, N.B., about 125 meters below Milltown bridge, on the N side of and 89 feet from nearest Can. Pacific Railway rail. The station is 35 meters above the end of the dam crossing the channel at Eaton's lower sawmill and 6 meters above a ledge of rock rising out of the river and ending 1.5 meters from the track.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in a rock some 2 feet below the general level of the ground. The letters "C.R.M." are cut in the rock. A cross is cut in a rock 2.49 meters NW of the station, a cross within a triangle is cut in a rock 1.54 meters NE of the station, and a third like mark is cut in a rock 2.03 meters E of the station. Only top of



station rock above ground in 1946, with eyebolt 2.36 meters southwest in a rock 3 by 0.5 feet and 3 inches high.

In 1955 the top of the reference monument post was 2 inches underground. The NE reference is in a rock 20 inches square and 8 inches high. The E reference is in a rock flush with the surface and 7 feet from the nearest rail and 3 feet from the NE reference. The NW reference is under heavy fill.

REFERENCE MONUMENT 217-46 (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1922; 1939)--On the upper end of the island in the St. Croix River, at Milltown, known as Todd Island, on a cracked rock 3.7 meters wide by 6 meters long and 1.5 meters high at its N end; its S end is covered with earth and is about half that height.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock. The letters "C.R.M." and three crosses within triangles are cut in the rock. The NW and SW crosses are each 2.63 meters from the station, and the third cross is 3.60 meters from the station.

REFERENCE MONUMENT 218 (New Brunswick, Charlotte County; F.H. Brundage, 1922; 1939)--On the lower end of the island in the St. Croix River, at Milltown, known as Todd Island. The station is 12 meters from the shore of the island across the street railway company's dam and 46 meters from the brick incinerator on the island, on a large boulder, the highest on this end of the island.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the boulder.

HARRISON (Maine, Washington County; J.E. McGrath, 1909; 1922; 1935; 1939; 1946; 1955)--In Milltown, Me., on the corner lot at the SE corner of Harrison and North Streets, about 9 meters S of Harrison Street, and about the same distance E of North Street.

The station mark is a bronze disk set 1 foot underground in a drill hole in a rock ledge that extends diagonally across the lot. A cross within a triangle cut on an exposed rock 1.5 meters E of the asphalt paving of Harrison Street and near the lot corner bears N.  $22^{\circ}38'W$ , 7.62 meters from the station; and a like mark cut on the surface of an exposed stone 1.25 meters E of the E line of the asphalt on North Street bears N.  $85^{\circ}46'W$ , 7.19 meters distant from the station.

Failed to locate station in 1935, 1939 and 1946. Ledge upon which station reference marks believed placed has been removed for road and sidewalk construction.



BARTON 2 (New Brunswick, Charlotte County; J.A. Pounder, 1922; 1946; 1955)--On the W side of the St. Croix River, in the northern part of Milltown, N.B. The station is in the field E of the street railway and N of the road leading from the street railway to the cotton mill, about 0.3 meters S of the line of telephone poles running from the street railway to the cotton mill, and 28 feet south of the second pole from the main street. It is nearly back of the second house on the side road to the cotton mill from the main street.

Station mark is the shank only of a copper disk set in a drill hole in a rock projecting about 0.4 meter out of the ground. The letters "C.R.M." are cut in the rock.

References are the highest spike in the nearest boulder NE, 2.97 meters, and the nearest telephone pole NE, 8.16 meters.

REFERENCE MONUMENT 219 (Maine, Washington County; J.E. McGrath, 1909; 1922; 1946; 1955)--On the E side of the St. Croix River, directly across the river from the cotton mill at Milltown, N.B. It is on the flat-topped bluff directly above the railroad bridge by which the Maine Central Railroad connects with the Canadian Pacific Railway. Just to the NE of the station is the Calais Poorhouse and Poor Farm, and a road which runs from North Street to the poorhouse passes between the station and the poor-farm fence.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in an exposed ledge of rock. A cross within a triangle cut on a granite boulder on a little rise across the road from the station bears N.  $34^{\circ}40'E$ , 20.73 meters distant from the station; and a cross within a triangle cut on the top of a dark-colored boulder bears N.  $71^{\circ}21'E$ , 15.78 meters distant from the station.

SE TABLET, C.P.R. BRIDGE, MILLTOWN (Maine, Washington County; New Brunswick, Charlotte County; J. Hill, 1939; 1946)--A standard bronze bridge tablet attached to the SE (upstream) girder of the railroad bridge across the St. Croix River between Milltown, Me., and Milltown, N.B.

NW TABLET, C.P.R. BRIDGE, MILLTOWN (Maine, Washington County; New Brunswick, Charlotte County; J. Hill, 1939; 1946)--A standard bronze bridge tablet attached to the NW (downstream) girder of the railroad bridge across the St. Croix River between Milltown, Me., and Milltown, N.B.

REFERENCE MONUMENT 220 (New Brunswick, Charlotte County; J.A. Pounder, 1922; 1946; 1955)--On the W bank of the St. Croix River, at the cotton mill at Milltown, N.B. The station is about 45 meters below the cotton-mill dam, between the lower mill building and the river, opposite the gatehouse on the



on the spillway of the dam. It is about 20 meters from the mill building, 32 meters upstream from downstream end of the building, and about 5 meters from the river, on the highest ledge of rock in the vicinity. Across the river from the high point of rock below the U.S. section of the dam and about opposite the fifth window from the north end of the mill. In a ledge 18 inches high, 15 feet from the point of ledge at river's edge.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the ledge, with eye-bolt set in ledge 0.8 meters upstream.

**FOWLER** (Maine, Washington County; J.E. McGrath, 1909; 1922; 1935; 1946; 1955)--On the E side of the St. Croix River, about 3/8 mile S of the Union Mills Bridge. The station is 5.5 meters N of the center line of Walnut Street produced and about 80 meters from the river.

Station mark is a bronze disk set in a drill hole in a boulder projecting about 0.2 meter out of the ground. The letters "U.S.R.M." are cut in the boulder. A cross within a triangle is cut in the top of an exposed boulder N. 21°56' W, 7.58 meters from the station, and a like mark is cut in an exposed boulder N. 69°58' E, 4.86 meters from the station.

In 1935; 1946 and 1955 the shaft only was left and the rock was loose. The NW reference is in good shape and can be used in place of the station where accurate work is required.

**BRIDGESTONE** (U.S. & C.B.S.) (Maine, Washington County; J.E. McC., 1909)--West of the railroad track and S of wagon road connecting with Union Bridge. The station is a cross within an equilateral triangle on a granite post set in the ground.

A reference mark cut in a stone whose dimensions are 3 feet by 18 inches and 7 inches is 7.03 meters from the station.

(Maine Geod. S., 1935)--Could not locate granite post. Did locate International Boundary reference mark 222 in large boulder 50 feet N by NE from large barn.

(R.A.G., 1946)--Original description inadequate for recovery. It is recommended the station be classified as lost.

(I.B.C., 1947)--Station is W of the railroad tracks and S of the wagon road connecting with Union Bridge. Not a very permanent location, therefore it was not used for a monument site in 1922 as intended. Station not recovered and probably lost.

Station is a cross within an equilateral triangle on a granite post set in the ground. A reference mark cut in a stone 36 inches by 18 inches is 7.03 meters from the station.



BYRE (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1922; 1946; 1955)--On the W. side of St. Croix River, at Union Mills, on a vacant lot between the Milltown road and the river, on the top of a hill, about 300 meters S of the Union Mills Bridge, 12 meters back from the top of the bluff curving toward the Milltown road and forming the lower side of the bay below the cotton mill, and 18 meters from the nearest rail of the street railway. Four 16-inch elm trees, are distributed along the bluff in front of station. A line joining the Baptist church on the U.S. side and the lower elm will, if produced, pass through station; and a line joining the Congregational church in Milltown, N.B., and the third elm from the lower end will, if produced, pass through station. Station 40 feet directly inshore from second elm which is decaying.

Station mark is a U.S. & C.B. bronze disk in a drill hole in an exposed rock, 3 by 1 foot projecting 4 inches above surface of ground. The letters "C.R.M." are cut in the rock. A cross within a triangle is cut in a rock 5.84 meters south; a like mark is cut in a rock 9.04 meters west; and a third like mark is cut in a rock 9.27 meters northeast.

SLOUGH (Maine, Washington County; J.E. McGrath, 1909; 1918; 1935; 1946; 1955)--In SW part of Calais, in an open space E of the M.C.R.R., on top of a bare ledge which rises from the water on the E side of the slough formed by the RR. fill across the mouth of Middle Landing Brook, about 70 meters NE of the railroad culvert across the brook, and about 200 meters S of the Union Bridge road.

Station mark is a badly defaced bronze disk in a drill hole in the ledge. The letters "U.S.R.M." are cut in the ledge. A cross within a triangle is cut in the ledge N. 83°55'E, 5.91 meters; and a like mark is cut in the ledge S. 88°34'W, 2.94 meters.

REFERENCE MONUMENT 221-46 (New Brunswick, Charlotte County; J.A. Pounder, 1922; 1946; 1955)--On the W bank of St. Croix River, at Milltown, about 300 meters downstream from cotton mill smokestack, on first high ledge below cotton mill, about 7.5 meters above the normal level of river, and about 9 meters back from the water's edge.

Station mark is a standard 8-inch manganese-bronze reference post in a drill hole in the ledge.

REFERENCE MONUMENT 222-46 (Maine, Washington County; F.H. Brundage, 1922; 1935; 1946; 1955)--On the highest outcropping ledge on the E shore of the St. Croix River, in the SW part of Calais, on the first rocky point, about 52 meters above the Union Mills Bridge, about 50 meters from the U.S. Customs House, and 10 meters SW of a tin cabin.



Station mark is a boundary reference post set in a drill hole in the upper end of the ledge. A 1½-inch iron bar is set in a drill hole in the same ledge 46 centimeters N of the station.

S TABLET, HIGHWAY BRIDGE, CALAIS-UNION MILLS (Maine, Washington County; New Brunswick, Charlotte County; J.G. Hefty and J.A. Pounder, 1936; 1955)--A standard bronze bridge tablet attached on the boundary to the upstream rail of the highway bridge across the St. Croix River between Calais, Me., and Union Mills, N.B.

N TABLET, HIGHWAY BRIDGE, CALAIS-UNION MILLS (Maine, Washington County; New Brunswick, Charlotte County; J.G. Hefty and J.A. Pounder, 1936; 1955)--A standard bronze bridge tablet attached on the boundary to the downstream rail of the highway bridge across the St. Croix River between Calais, Me., and Union Mills, N.B.

REFERENCE MONUMENT 223-46 (New Brunswick, Charlotte County; J.A. Pounder, 1922; 1939; 1955)--On W side of St. Croix River, about 60 meters above dam and electric light plant at Union Mills. A little brook flows into the mill pond 9 meters downstream from station and an old wooden building supported on piles is at mouth of brook. Station is 4.26 meters from this building, on line with the riverward side of the building, at the water's edge, on a rock having an exposed surface about 1 meter square.

In 1946 the dam was gone and the river was about 8 feet lower and the whole point around station covered by sumach, requiring considerable cutting to find station, which is now 100 feet from the water in the river. In 1955 the station was recovered 30 feet down the slope from the point of the high bank toward the extreme point of land between the creek and the river. It is in a rock projecting 1 foot above the slope in second growth saplings and tall sumachs so dense it is difficult to force a way through them.

Station mark is a boundary reference post set in a drill hole in the rock.

REFERENCE MONUMENT 224 (Maine, Washington County; J.E. McGrath, 1909; 1922; 1935; 1946; 1955)--On the E side of St. Croix River, at Calais, about 700 meters upstream from the Calais-St. Stephen bridge, on a rocky point belonging to the Indians who live in Calais, about 60 meters riverward from the street, and about 70 meters inland from the river. The W boundary of the Indian tract is marked by six 1-inch iron rods set in a row and projecting about 6 inches above ground. The station is 20 centimeters N of the iron rod nearest the river.

Station mark is a standard 8-inch manganese-bronze



reference post set in a drill hole in exposed rock. A cross within a triangle cut on a protruding knob of granite bears S  $87^{\circ}11'W$ , 1.44 meters distant, and a like mark cut on a bare sloping face of ledge bears N  $31^{\circ}45'W$ , 9.28 meters distant.

**SLOPE** (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1922; 1946; 1955)--On the W side of the St. Croix River, in Union Mills, between the site of the old streetcar tracks and the river, about 350 meters below the Union Mills Bridge. The station is about 19 meters from the old tracks and 20 meters N of the old site of Mrs. Glass' house, which has now been replaced higher on the slope.

Station mark is a copper disk reset in a drill hole in the top of a granite post 6 inches square and 2 feet 4 inches long sunk endwise in the ground flush with its top. The letters "C.R.M." are cut in the post. A cross is cut in a small rock 4.99 meters west from the station.

In 1955, changes in the buildings and a dense growth of uncut grass made help from a nearby man necessary to relocate station. It is 7 feet toward road from the line of the rear of the nearest house W extended, 15 feet N of corner of bushes toward river near top of high bank, 7 feet toward river from the end of the gentle slope from the street, and 13 feet E of the line of the E side of the house on N side of the street extended, this extension also passing through the electric light pole on S side of street. Streetcar tracks and house in description gone.

**REFERENCE MONUMENT 225-46** (Maine, Washington County; J.E. McGrath, 1909; 1922; 1935; 1946; 1955)--On the bank of the St. Croix River, in Calais, about 575 meters upstream from the Calais-St. Stephen bridge, on the top of the bank above Indian Point Siding of the M.C.R.R., on the property of James Hill, 10.7 meters SW of the NE building line of the houses on the SW side of Price Street, and almost at the edge of the steep bank. Station (now) on property of C.C. Mowatt and the field has scattered large slabs of granite, with the station near the largest pile.

Station mark is 8-inch manganese-bronze reference post in drill hole in top of granite post 6 inches square and 2 feet long, showing 4 inches above the ground. Subsurface mark is center of a 3-inch tile, 12 inches in length, set under the granite post. A cross in the top of a concrete-filled tile set flush with the ground, 1.5 meters riverward from the last telephone pole on Poole Street bears N  $46^{\circ}02'E$ , 23.87 meters distant from the station; and a cross within a triangle cut on a granite rock at the end of Poole Street bears N  $59^{\circ}16'E$ , 17.41 meters distant from the station.



REFERENCE MONUMENT 226-46 (New Brunswick, Charlotte County; A.J.Brabazon, 1909; 1922; 1946; 1955)-- On the bank of the St. Croix River, on the S side of the point just above the big cove that is on the upstream side of the Calais-St. Stephen bridge. The station is 38 meters S of the barn on the Young estate and about 20 meters from the river.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the largest boulder in the vicinity. The letters "C.R.M." are cut in the boulder. Three crosses are cut in the rocks, at distances of 14.02 meters northeast, 11.55 meters southeast and 13.50 meters west of the station. Shank only recovered in 1955.

REFERENCE MONUMENT 227-46 (Maine, Washington County; F.H.Brun-  
dage, 1924; 1946; 1955)--At Calais, on the capstone of the mid-river pier of the Calais-St. Stephen bridge, on the W side of the truss. To be destroyed when new bridge is completed.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the stone. Triangulation station "INTERNATIONAL BRIDGE" bears N 55°27'E, 0.63 meter distant from the station.

INTERNATIONAL BRIDGE (Maine, Washington County; J.E.McGrath, 1909; 1922; 1935; 1946; 1955)--At Calais, Me., on the mid-channel pier of the international bridge crossing the St. Croix River to St. Stephen. The station is on the W side of the main structure, on top of the large I-beam that rests upon the pier between the two trusses.

Station mark is a square, cut with a cold chisel in the steel I-beam. REFERENCE MONUMENT 227 is set in the capstone of the pier S 55°27'W, 0.63 meter distant from the station. To be destroyed by change in bridge site.

HITCHINGS (Maine, Washington County; J.E.McGrath, 1909; 1946; 1955)--About 1 mile SE of Milltown, Me., on the N peak of Maguerrewoc Mountain, known locally as Hitchings Mountain. It is about 28 meters NE of the summit of the ridge and about 14 meters S of where the hill begins to break sharply into a steep slope to the N. There is higher ground to the NW of the station. Hill covered by bushes and birches about 2 feet high with one lone spruce tree 12 feet high, 100 feet southeast of the station.

In 1955 the spruce tree was 18 feet high with a few scattering spruces 10 feet high on the ridge. Station ledge now exposed 2 by 3 meters with marker on south central part, and there are 3 groups of rocks on the ledge for guying a signal. The ledge is an open space on the N slope of the hill among a number of exposed ledges.

Station mark is the shank of a bronze disk, projecting about  $\frac{3}{4}$  inch in the bottom of a depression about 3 inches



deep (filled with dirt when found in 1946), near the south side of an exposed ledge about a meter square. A  $\frac{1}{4}$ -inch diameter drill hole is in the top of the shank. The reference marks are crosses within triangles cut in exposed ledges, and were cut deeper in 1946. One is S  $41^{\circ}43'W$ , 11.50 meters distant; and one N  $2^{\circ}18'W$ , 1.15 meters distant from the station, in the same ledge as station.

MAGUERREWOC (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1909; 1935; 1946; 1955)--On the SW summit of Maguerrewoc Mountain located about  $\frac{3}{4}$  mile E of the St. Croix River and  $\frac{1}{4}$  mile E of the road from Calais and Milltown to Baring. The station is on a ledge surrounded by low bushes and is 6 meters N of a fence crossing the mountain. In 1908 three drill holes were made, each 2.13 meters from the station, for fastening guy wires. In 1909 other holes at greater distances were made for guy wires.

Station mark is an iron bolt set in a drill hole within a triangle cut in the rock. A bronze disk set in a drill hole in the top of a small rock knob bears NE 7.503 meters distant, and a cross within a 5-inch triangle cut on the flat surface of the ledge 1 foot N of the fence bears S by E, 5.634 meters distant.

CALAIS OBSERVATORY (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1866; Maine Geod. S., 1935)--Station lost in 1935.

MERIDIAN MARK (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1866)--Station lost.

TODD MOUNTAIN (New Brunswick, Charlotte County; J.E. McGrath, 1908; 1946; 1955)--On the east slope of the hill of that name, about  $\frac{1}{2}$  mile west of Milltown, N.B., and about  $\frac{1}{4}$  mile north of the Milltown-Upper Mills road, on property of Mr. Todd of Milltown. The station is at the foot of the steeper part of the slope, about on line from the northerly corner of the reservoir to the apparent top of the hill as seen from the station, and about 400 feet from each. It is 30 feet east of the line of the easterly side fence of the reservoir extended, about on line with the east side of the reservoir and the open section of the river, in the big bend of the river a mile above Milltown, on an exposed rock  $2\frac{1}{2}$  feet by  $1\frac{1}{2}$  feet and 4 inches above ground. The only live trees on the slope in 1946 were on line to the west corner of the reservoir and about 150 feet from the station.

Station mark is a steel rod set in a drill hole in the rock and projecting 2 inches. The old reference trees are entirely burned up. Brush and saplings cover much of slope above and around station in 1955.



**CALAIS CONGREGATIONAL CHURCH SPIRE** (Maine, Washington County; J. E. McGrath, 1909;1946;1955)--On the top of the hill on the W side of Calais Avenue, Calais.

Station mark is the rod supporting the weather vane of the pinnacle of the spire. Tower undergoing repairs in 1955.

**LOOKOUT TOWER** (Maine, Washington County; N.W.Smith,1946)--The center of a high steel tower on a hill S of Maguerrewoc Mtn. Station also known as Bald Mountain Fire Tower.

**EAST BRIDGE TABLET, CALAIS-ST. STEPHEN BRIDGE** (Wash. County, Me.-Charlotte Co. N.B.;N.W. Smith 1957)--A regulation bridge tablet set on the east rail of the bridge across the St. Croix River between Calais, Me. and St. Stephen, N.B. It is midway between the 5th and 6th round vertical spokes between upper and lower laterals of the east rail, north of the second main post south of the high aluminum light on Canadian side of the boundary. There are 6 punch holes on the exact boundary line, on the top of the lower lateral below the bridge tablet.

**WEST BRIDGE TABLET, CALAIS-ST. STEPHEN BRIDGE** (Wash.Co.,Me.-Charlotte Co. N.B.,N.W.Smith 1957)--A regulation bridge tablet on the west rail of the bridge across the St. Croix River between Calais, Me. and St. Stephen, N.B. It is midway between the 1st and 2nd rail spokes south of the next main post on the west rail that is nearer south end of bridge than the post near the east bridge tablet. There are 6 punch holes on the boundary line, on the top of the lower lateral below the bridge tablet.

**WALL** (Charlotte Co.,N.B.;N.W.Smith 1957)--On the concrete wall on the upstream side of the dock extending south from the railroad station in St. Stephen, N.B. It is 2.606 meters inshore from the outer end of this concrete wall, .20 meters from the upstream edge of the wall, and .165 meters from the lower edge of the wall. It is about 8 feet inshore from the inshore edge of the wooden dock.

Station mark is a cross cut in the concrete wall.

**CAN POST** (Charlotte Co.,N.B.;N.W.Smith 1957)--The center of the tall aluminum lamp post 5.6 meters on the Canadian side of the boundary and in the line of the east rail of the Calais-St. Stephen Bridge. Posts are tapering and about 8 inches in diameter at top of bridge rail.

**US Post** (Wash.Co.,Me.;N.W. Smith 1957)--The center of the first tall aluminum lamp post 63 meters on the U.S. side of the boundary and in line of the east rail of the Calais-St. Stephen Bridge. This tapering post is about 8 inches in diameter at top of bridge rail.



CONGREGATIONAL CHURCH WEATHER VANE (Wash.Co.,Maine;N.W.Smith 1957)--The spire has been removed from this church in Calais, Maine and replaced by a short cupola with a weather vane on it supported by a rod.

Station mark is the base of the rod supporting the weather vane.

CAN BRIDGE (Charlotte Co.,N.B.;N.W.Smith 1957)--This station is about the center of the sidewalk on the east side of the Calais-St. Stephen Bridge and 2.66 meters S.W. from the center of Can Post, 3.003 meters N along the sidewalk from the International Boundary.

Station mark is a small punch hole in the concrete sidewalk.

US BRIDGE (Wash.Co.,Maine;N.W.Smith 1957)--This station is about the center of the sidewalk on the E side of the Calais-St.Stephen Bridge and 31-1/8 inches NW from the center of US Post, and 62.274 meters S along the sidewalk from the International Boundary.

Station mark is a small punch hole in the concrete sidewalk.

#### ST. CROIX RIVER BELOW CALAIS

SINCLAIR 2 (New Brunswick, Charlotte County; J.E.McGrath,1908; 1946;1955)--On the summit of a round-topped hill, about 2½ miles below St. Stephen, 1½ miles above the settlement called "The Ledge", about 280 meters NE of the road between the places mentioned, on open ledge rock surrounded by cedar and spruce 29 feet high, and on land claimed by Mrs. Monahan and Mr. Bartlett.

Station mark is an I.B.C. bronze station disk set in a drill hole in the ledge. The point is referenced by two ringbolts set in drill holes in the ledge, one ringbolt is in azimuth 104°, distant 2.19 meters, and the other 343°, distant 2.25 meters.

OLIVE (Maine, Washington County;N.W.Smith,1946;1955)--On the summit of the projecting northerly knob of the high hill which is 25 feet lower than top of hill, 2 miles W of Elliot Mountain, 2 miles SE of Calais, directly inland from Knights Point in the St. Croix River, on the farm across the road from the Bog Brook Church. An old farm and wood road leads most of the way from the farmhouse to the station. The station is near the eastern end of this knob, which drops off steeply 20 feet E of station and 30 feet N of station, and is 4 feet N of the line fence crossing the knob, parallel to the river. It is on the most prominent outcrop of the ledge, 4 feet square and 1 foot high in the center.



Station mark is an I.B.C. bronze station disk wedged in a drill hole in the ledge. 10-foot alders are now growing on the burned-over hill. In 1955, 12 to 15 foot birch saplings were on this knob.

LANE (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1866; 1908; 1935; 1946)--On the summit of a hill which is variously known as Elliotts Mountain, or Whidden Mountain, and is located about  $3\frac{1}{2}$  miles below Calais,  $\frac{3}{4}$  mile SW of Mark Point, and about  $\frac{1}{3}$  mile from the S shore of the St. Croix River. The main road from Calais to Eastport is about  $\frac{1}{4}$  mile N by W of the station and another road forms a junction with the main road at a distance of about  $\frac{1}{2}$  mile to the NE. The station is on a round, rocky knob at the northern end of the mountain and separated from the main ridge by a lower pass. This knob drops steeply a number of feet on SW and NW sides and slopes gradually in other directions. The land belongs to Albert Wilson and is densely covered by timber, through which long lines of sight are needed to see in any direction.

Station mark was described as a copper bolt set in a drill hole in the ledge, but looks more like lead poured in the drill hole until level with the surface of the rock. The piles of rock hold the guy wires in place.

BALD (New Brunswick, Charlotte County; N.W. Smith, 1946; 1955)--At about the center of the western summit of Bald Hill, a half mile ENE of "The Ledge", about the center of the base of the peninsula between the St. Croix River on the S and Pagans Bay in Oak Bay on the N. It is on the westerly of several outcropping rock ledges near the E side of the plowed field belonging to James Prudy, who lives  $\frac{1}{8}$  mile southerly at the foot of the hill on the road to "The Ledge". This field is the second E of the road, at the top of the grade in the road driving from "The Ledge". The station is about 125 feet W of the second fence from the road.

Station mark is an I.B.C. bronze station disk wedged in a drill hole in the highest point of the ledge. The references are iron bolts set in drill holes in the ledge, nearly on a line E and W through the station. One is 6 inches high and 2.0 feet E of station, one 3 inches high and 4.5 feet west of the station, and a third, a foot long, is bent over about 6 feet W. In 1955 a good farm road led from house to station.

RUDD (New Brunswick, Charlotte County; N.W. Smith, 1946; 1955)--On St. Davids Ridge, about 4 miles NNE of St. Stephen, about a mile W of the St. John road, on property belonging to Howard Ruddick who lives across the road from the station, about 100 meters S of the road; opposite the gate opening into the field, 75 meters W of the farmhouse; on a sloping



rock 2 feet by 1 foot and 4 inches above ground, in the NW foundation of a house formerly occupying the site, and 18 feet N of the SW corner of the foundation.

Station mark is an I.B.C. bronze station disk set in a drill hole in the rock. R.M.'s are drill holes in rocks. R.M. 1 is in a rock 3 by  $1\frac{1}{2}$  feet and 6 inches high; R.M. 2 in a rock 2 feet square by 10 inches high; and R.M. 3 in a rock 3 by  $2\frac{1}{2}$  feet and  $1\frac{1}{2}$  feet high.

Object		Distance	Direction
SINCLAIR 2		feet	0° 00' 00" 0
R.M. 2	S	22.2	11 59 01
R.M. 3	S	32.1	13 57 46
R.M. 1	E	20.2	313 12 06

COOKSON ISLAND (U.S.C. & G.S.) (New Brunswick, Charlotte County; C.H. Boyd, 1866; 1908; 1946)--On the summit of the high hill of the island of that name, located near the head of Oak Bay, an arm of St. Croix River, and about 5 miles E of St. Stephen. At low tide one can drive from Benson Corners to the island. By ascending the S side of the hill until a cleared space is reached, a trail leading to the summit will be found. Part of the flat top of the hill is ledge rock and hence open. The station is on a small oval rock hummock near the SE and highest end of this open area, with a 24-inch pine tree 12 feet southwest of it, whose branches come out to and over the station.

Station mark is a copper bolt set in a drill hole in the highest point of the hummock. References are 1-inch drill holes in the rock ledge. R.M. 1 is in a rock hummock west of the station, 20 feet east of the prominent rock ledge where it slopes steeply west. R.M. 2 is in a flat pointed rock ledge 3 feet wide, projecting 4 feet southwest from the large flat ledge in the center of the open top of the hill. Station when found was covered by a solid mat of pine needles and dirt, over 2 inches thick. This was removed.

Object		Distance	Direction
SINCLAIR 2		feet	0° 00' 00" 0
R.M. 1		44.54	4 17 42
R.M. 2		36.00	53 51 06

TABLE TOP (U.S.C. & G.S.) (New Brunswick, Charlotte County; C.H. Boyd, 1866; 1908; 1946)--On the hill variously known as Table Top, Table Mountain, Waring Hill and Mount McLaughlin,  $\frac{1}{2}$  mile east of the St. Croix River just below the mouth of Oak Bay, about  $2\frac{1}{2}$  miles NNE of Docket Island, and  $1\frac{1}{2}$  miles ESE of Oak Point. The station is in a crack in a depression several inches deep on the topmost ledge of the mountain, about 4 feet south of the edge of the steep slope to the north, and about 7 feet east of a perpendicular fall of 4



feet to the first shelf on the river side. This section of the mountain is part of the David McLaughlin estate, whose house is on the west side of the road at the base of the mountain.

Station mark is an I.B.C. bronze station disk set in the original (easterly of two) drill hole within a faint 6-inch square cut in the rock. The references are drill holes in ledge rock. R.M. 1 is in the easterly knob and slightly lower than the station. R.M. 2 is south, on the highest point of the same ledge, was the point occupied as an eccentric, and is about 13.6 feet from R.M. 1.

Object	Distance	Direction
SINCLAIR 2	feet	0° 00' 00"0
R.M. 1	12.75	179 38 45
R.M. 2	11.11	248 31 15

CHAMCOOK (U.S.C. & G.S.) (New Brunswick, Charlotte County; A.D. Bache, 1857; 1908; 1946; 1955)--On Chamcook Mountain, about  $3\frac{1}{2}$  miles north of St. Andrews. The station is about 30 feet south of the summit, in a slight depression in the bare rocky ledge, near the northern corner of a growth of timber on the south slope of the mountain. A good road leads to the top of the mountain.

Station mark is a copper bolt set in a drill hole in the rock, with four drill holes, each 3 feet from the station, forming a square whose diagonals intersect on the station mark. The westerly drill hole is partly obliterated.

Reference mark 1 is a G.S. of C. bronze reference disk set in a drill hole in the bare rocky ledge, on the highest point on the mountain northwest of the station, with the arrow pointing to the station. Shank only in 1955.

Reference mark 2 is a copper bolt leaded in a drill hole in the ledge SW of the station, with an arrow cut in the rock pointing to reference mark 4 and distant 23.10 feet from it.

Reference mark 3 is the tip of an arrow chiselled in the ledge southwest of the station, pointing to the station.

Reference mark 4 is a copper bolt leaded in a drill hole in the ledge, inside a triangle cut in the rock WSW of the station on line to station COOPER. A drill hole is farther out on this same line.

Reference mark 5 is a copper bolt leaded in a drill hole in the ledge west of the station. An arrow points to reference mark 4.

Reference mark 6 is a copper bolt leaded in a drill hole in the ledge WNW of the station, approximately in line with the westerly of the 4 drill holes around the station. An arrow points to reference mark 4.

A drill hole in the ledge about 100 feet south of the summit was not located. An iron ringbolt is WNW of the station 9.2 feet.



Object	Distance	Direction		
MAGUERREWOC	feet	0°	00'	00"0
Drill hole	3.10	7	24	
R.M. 6	5.67	10	09	
Iron ringbolt	9.2	21	15	
R.M. 1	28.57	41	11	29
Drill hole	3.03	103	30	
Drill hole	3.05	187	55	
Drill hole (S)	about 100			
Drill hole	3.0	281	01	
R.M. 2	55.37	304	58	04
R.M. 3	33.31	316	03	44
R.M. 4	35.79	320	47	14
Drill hole	72.34	320	47	14
R.M. 5	35.65	359	32	24

CHAMCOOK 2 (New Brunswick, C.H.B., 1866; 1908)--A drill hole 19 inches NW of station CHAMCOOK.

(N.W.S., 1946)--This is an unmarked eccentric for station CHAMCOOK.

SHORTLAND (U.S.C. & G.S.) (Maine, Washington County; F.P.W., 1863; 1909; 1946)--On the high hill known as Trimble Hill, about  $1\frac{1}{2}$  miles from the W shore of the St. Croix River, and about 2 miles NW from Robbinston Congregational Church. The foundation of the old Ernest Trimble home is about  $\frac{1}{8}$  mile east along the old road. This road, which starts one mile from Robbinston on route 5, is now impassable for cars, but can be followed past the old house, following the right fork 150 feet, then up a left fork to the top of the hill, which is now heavily wooded. Clearing long lines of sight necessary if station is to be again occupied. The station is on the highest point, at the southeast end of the ridge, in ledge rock.

Station mark is a C. & G.S. bronze station disk set in a drill hole in the ledge. Three eyebolts are in the ledge, 3.72 meters east, 3.68 meters south and 3.64 meters WNW. The references are crosses within 4-inch triangles cut in the rock. One is NE by E, 5.597 meters and the other W by N, 6.303 meters distant.

ST. STEPHEN CATHOLIC CHURCH SPIRE (New Brunswick, Charlotte County; J.E. McGrath, 1909; 1955)--The spire on the Catholic Church in Stephen, N.B.

ST. STEPHEN METHODIST CHURCH SPIRE (New Brunswick, Charlotte County; J.E. McGrath, 1909; 1955)--The spire in the Methodist Church in St. Stephen, N.B.



BARNARD (Maine, Washington County; J.E. McGrath, 1909; 1935; N.W.S., 1946)--Station lost.

HOSPITAL (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1946)--On the N bank of the St. Croix River, just E of St. Stephen, at the rear of Mr. Wall's property which adjoins the St. Stephen Hospital grounds, on the Canadian Pacific Railway right-of-way, about 1.5 meters N of the N rail, near the E end of the long tangent that runs E from the St. Stephen railroad yards and docks. The shoreline of the river makes an abrupt turn to the S about 130 meters E of the station.

Station mark is a copper disk set in a drill hole in a rock about 4 inches underground at the bottom of the railway ditch.

Station not recovered in 1946 as it was covered by earth fill. Can be recovered by auxiliary station and excavating.

BOX (Maine, Washington County; J.E. McGrath, 1909; 1935; N.W.S., 1921; 1946)--Station lost.

Reference mark 2 is a cross within a triangle cut on a flat gray stone N 22°02'W, 8.40 meters from the site of the station, and is still in place.

BOX 2 (Maine, Washington County; N.W. Smith, 1946; 1955)--In Calais, Me., near the St. Croix River and of Barker Street extended, the first street west of the street leading between the east ends of Calais and Milltown, 24 feet south-east of the Dead River Oil Company's gasoline pipe lines from the river to their oil tanks. The station is just above the high-water line of the river, on a small rock mound covered with iron slag, which makes a sheer 3-foot drop on the north side.

Station mark is an I.B.C. bronze station disk cemented in a drill hole in the rock.

REFERENCE MONUMENT 228-46 (New Brunswick, Charlotte County; N.W. Smith, 1921; 1922; 1946; 1955)--On the bank of the St. Croix River, about 1 mile downstream from the Calais-St. Stephen bridge, 500 meters upstream from the mouth of Denny Stream, and just S of Haley's lumber mill. The shoreline turns abruptly from W to N about 100 meters upstream from the station, then runs N 100 meters, thence W again. Station covered in 1955 near inshore end of the sloping rock with a sewer drain opening 6 inches NE.

Station mark is the shank of a standard reference post set in a drill hole in a bare spot on a ledge that rises gradually from the water. A bronze disk, set in the same ledge beside the station mark, marks triangulation station "HALEY".



The references are crosses within triangles cut in the rock. One is 1.37 meters westward and one 0.78 meter southward. An eyebolt and ring is 1.71 meters southward.

HALEY (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1921; 1946; 1955)--On the same ledge and 0.1 meter distant from REFERENCE MONUMENT 228.

Station mark is a blank bronze disk set in a drill hole in the ledge. Covered when recovered in 1955.

REFERENCE MONUMENT 229 (Maine, Washington County; N.W. Smith, 1921; 1922; 1946)--Lost in 1946. Triangulation station BOX 2 can be used in place of this monument.

CROCKER (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1946; 1955)--On Crocker Island in the St. Croix River,  $1\frac{1}{4}$  miles below the international bridge at Calais. The station is on a jagged rock projecting 1 foot above the ground, 14 meters from the high-tide mark at the head of the island, and about 3 meters S of a big green pine tree.

Station mark is a drill hole in the rock. The letters "C.R.M." are cut in the rock. A cross within a triangle is cut in each of three rocks 3.36 meters northward, 7.57 meters northeast, and 2.65 meters southwest, respectively, from the station. In 1955 station was 6.5 meters S of a tree. Reference found covered and drill hole full.

YOUNG (Maine, Washington County; J.E. McGrath, 1909; 1935; 1946; 1955)--On the SW bank of the St. Croix River,  $1\frac{1}{4}$  miles below the international bridge at Calais. Leaving Calais on the Eastport Road, follow the road to Milepost 1 on the top of the hill, then go straight down the ridge 175 meters to the river. The station is on a rounded point just above a small bay.

Station mark is a badly defaced bronze disk set in a drill hole in a ledge of rock near the high-tide mark. The letters "U.S.R.M." are cut in the rock. A cross within a triangle is cut in the ledge S  $36^{\circ}23'E$ , 14.70 meters from the station, and a like mark is cut in the ledge S  $19^{\circ}07'E$ , 6.21 meters from the station.

TANNERY (Maine, Washington County; J.E. McGrath, 1909; 1935; 1939; 1946; 1955)--On the SW bank of the St. Croix River,  $1\frac{1}{4}$  miles below Calais, near J.M. Johnson's Tannery, and just above the Calais lower steamboat wharf. The station is 11.75 meters W of the W line of Steamboat Street which runs from the Calais-Eastport road to the wharf, and is on an exposed surface of a dark granite rock near the high-tide mark.

Station is a bronze disk set in a drill hole in the rock, and has fallen down the bank. A cross within a triangle cut on the top of a mass of trap rock bears N  $56^{\circ}31'E$ ,



10.51 meters distant from the station, and a similar mark cut on the sloping face of an irregular ledge of trap rock bears S 20°10'W, 14.10 meters distant from the station.

The references were recovered in 1939, but were in a dump and not recovered in 1946. Station lost in 1946.

RED HOUSE (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1946)--Station leaning and moved in 1946.

RED HOUSE 2 (New Brunswick, Charlotte County; N.W. Smith, 1946; 1955)--On the north bank of the St. Croix River, 1-5/8 miles below the international bridge at Calais, 3/8 mile below Crocker Island, on a narrow clay point which projects almost straight downstream leaving a little cove behind it. The sides of the point rise abruptly to its top, which is flat and a little above high tide, the station is about halfway from base to tip of the point, about halfway between the sides of the point, and 14.94 meters upstream to the downstream corner of a cottage.

Station mark is a small copper station disk set in a drill hole in the top of a granite post, 2-2/3 long, 3 inches square. The post is set upright in the ground and projects 2 inches above the surface, with the letters "C.R.M." cut on the inland side. References are drill hole in rocks. One is 9.04 meters upstream in a flat rock flush with the ground and the other 14.23 meters downstream in a rock flush with the ground.

BIG TREES (Maine, Washington County; J.E. McGrath, 1909; 1922; 1935; 1946; 1955)--On the SW bank of the St. Croix River, 1-7/8 miles below the Calais-St. Stephen international bridge, and 100 meters below the Calais lower steamboat wharf. The station is near a group of large pine trees and is about 1 meter from the edge of the bank which descends steeply a couple of meters to the high-tide mark of the river.

Station mark is a small drill hole in friable rock. A bronze disk set in a drill hole in the top of a large solid boulder and known as Big Trees Tablet, bears S 8°26'W, 1.10 meters distant. REFERENCE MONUMENT 231 is set in the rock beside the tablet. A cross within a triangle is cut in the sloping face of a large ledge S 56°11'W, 9.88 meters from the station, and a like mark cut in the exposed top of a ledge is N 49°18'W, 7.62 meters from the station.

REFERENCE MONUMENT 231-46 (Maine, Washington County; N.W. Smith, 1921; 1922; 1939; 1946; 1955)--On the W bank of the St. Croix River, about 2 miles below the Calais-St. Stephen Bridge, on the first point below the lower wharf at the steamer landing. The point is covered with large pine trees,



the largest below the Calais-St. Stephen Bridge, and is a favorite spot for picnics. The station is on a boulder with exposed dimensions 1.2 by 0.8 and 0.6 meter. A bronze disk marking "BIG TREES TABLET" triangulation station is in the same boulder, beside the station.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the boulder. Shank only left flush with rock. Number is cut in the rock.

STROUD (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1922; 1946; 1955)--On the northeastern shore of the St. Croix River, about 2 miles below the Calais-St. Stephen Bridge, and about  $\frac{3}{8}$  mile above Long Point. The station is on a prominent point at the end of a long sloping ridge that comes down to the river from the NE. There was a wharf on this point in 1909 and a road leading down to it. REFERENCE MONUMENT 230 is beside the station mark, in the same ledge.

Station mark is a copper disk set in a drill hole in the ledge. The letters "C.R.M." are cut in the ledge. Three crosses are cut in the rock, 6.32 meters east, 2.71 meters south, and 3.58 meters west distant from the station.

References covered by road fill in 1946. Station re-covered in 1955 under 6 inches of gravel.

REFERENCE MONUMENT 230-46 (New Brunswick, Charlotte County; N.W. Smith, 1921; 1922; 1946; 1955)--On the NE shore of the St. Croix River, 2 miles below the international bridge at Calais. The station is on a sharp and prominent point at the end of a long sloping ridge that comes down to the river from the NE,  $\frac{3}{8}$  mile above Long Point. There was a dock on this point at one time and a road leading down to it.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in an exposed ledge. The copper disk marking STROUD triangulation station is set in the same ledge a few centimeters from the station. A drill hole is 9.85 meters distant, southward, on the E edge of an outcropping ledge. A one-inch iron rod  $\frac{3}{4}$  inch high is set 49.76 feet SE on the end of the point. Found in 1955 over half covered by gravel slide.

TODD POINT (Maine, Washington County; J.E. McGrath, 1909; 1935; 1946)--On the W bank of the St. Croix River, 2 miles below Calais, on Todd Point. The station is on the bluff in front of the old Todd residence and is about 5 meters from the edge of the bluff where it descends precipitously 6 meters to a shingly beach.

Station mark is a bronze disk set in the top of a granite post 6 inches square and 2 feet long set 22 inches



deep in the ground and resting on solid rock. The letters "U.S.R.M." are cut, one letter in each of the vertical sides of the post. A cross is cut in the rock under the post. A like mark, in the top of a concrete-filled tile set flush with the ground, is S  $73^{\circ}17'W$ , 8.80 meters from the station, and another like mark is N  $41^{\circ}33'W$ , 12.11 meters from the station.

Could locate neither station nor reference marks. Land has been graded. Is present site of Calais Country Club. Gone in 1955.

LONG POINT (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1946; 1955)--On the E bank of the St. Croix River, about 2 miles below St. Stephen, at the foot of the bluff on Long Point. The station is on a jagged rock that is slightly submerged at the highest tides. Under 1 foot water in 1955.

Station mark is a badly defaced bronze disk set in a drill hole in the rock. The letters "C.R.M." are stamped in a concrete filling placed in a cavity in the rock. Three crosses within triangles are cut in rock, 4.09 meters north, 1.19 meters northeast, and 2.14 meters east from the station. A small iron bolt is fixed in a drill hole in a rock 2.09 meters from the station.

MOUND (Maine, Washington County; J.E. McGrath, 1909; 1935; 1946; 1955)--On the W bank of the St. Croix River, about 2 miles below Calais. The station is between the river and the Calais-Eastport road, 0.2 mile above the second milestone out of Calais, and on the summit of a little mound 18 meters riverward from the NE line of the road. The old Jewett wharf is a few meters upstream from the station. A small cottage is on E side of the mound, 15 meters distant.

Station mark is a bronze disk set in the top of a granite post 6 inches square and 2 feet long set with top 5 inches above the ground. The subsurface mark is a concrete filled tile placed beneath the bottom of the granite post. A cross within a triangle cut in a large boulder inside the line of telegraph poles bears N  $47^{\circ}28'W$ , 29.76 meters distant from the station, and a cross in the top of a concrete-filled tile set flush with the ground near the corner of a small barn bears S  $35^{\circ}56'E$ , 13.36 meters distant from the station. Whole hill levelled and station gone in 1955.

HYBROWN (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1946; 1955)--On the E bank of the St. Croix River, about 2 $\frac{1}{4}$  miles below St. Stephen. The station is on the first rounded point of shoreline below Long Point, on the flat bench 4 or 5 meters above the shoreline, and about 6 meters back from the edge of the bench. Cutting required for use.

Station mark is a copper disk set in a drill hole in



the top of a rock. The letters "C.R.M." are stamped in a concrete-filling placed in a cavity in the rock. A cross within a triangle is cut in each of three rocks, 2.87 meters north, 6.56 meters east, and 6.98 meters southeast, respectively, from the station.

MEADOW (Maine, Washington County; J.E. McGrath, 1909; 1935; 1946; 1955)--On the W bank of the St. Croix River,  $2\frac{1}{2}$  miles below Calais, on the upper corner of the first point of shore above Knights Point, and a little more than  $\frac{1}{4}$  mile distant therefrom.

Station mark is a bronze disk set in a drill hole in a ledge of trap rock near the edge of the high bank. A cross in the top of a concrete-filled tile is set flush with the ground S  $49^{\circ}09'W$ , 12.77 meters from the station, and a cross within a triangle is cut on an exposed ledge level with the grass N  $76^{\circ}16'W$ , 23.12 meters from the station. Eyebolt 2.3 meters down bank. Station partly sodded over in 1946.

KNIGHTS POINT (Maine, Washington County; J.E. McGrath, 1909; 1945; 1946; 1955)--On the S bank of the St. Croix River,  $2\frac{3}{4}$  miles below Calais, on Knights Point. The station is on the flat top of the point about 7 meters from the eastern edge of the bank, and about 55 meters from the extreme end of the point. A large boulder on the beach just off the point has a copper bolt set in it. The significance of this mark is not known, but it is said to have been there many years.

Station mark is a bronze disk set in a drill hole in the flat top of a black granite rock nearly flush with the ground. A cross within a triangle is cut on a large black granite boulder 15 meters inland from the riverbank and S  $00^{\circ}58'W$ , 14.68 meters from the station. A like mark cut on the largest boulder in the vicinity bears N  $6^{\circ}19'W$ , 3.02 meters distant from the station.

BOG BROOK CHURCH SPIRE (Maine, Washington County; J.E. McGrath, 1909; 1946; 1955)--On the S side of the St. Croix River, beside the Calais-Eastport road, about 3 miles below Calais.

Station mark is the spire of the church.

DONALD (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1946; 1955)--On the NE bank of the St. Croix River, 3 miles below St. Stephen, just above The Narrows, and on the first point above Hills Point. Bog Brook Church is directly opposite on the United States side of the river. The station is on the extreme end of the point, in ledge rock, just above high-water line.

Station mark is a defaced copper disk set in a drill



hole in a rock. The letters "C.R.M." are cut in the rock. Three crosses within triangles are cut in the rock, 3.68 meters north, 2.05 meters southeast, and 1.00 meter south, from the station.

A drill hole is near the southern reference, distant 0.97 meter. There are two eyebolts set in rock, one 1.84 meters distant on line to Bog Brook Church, and one 3.20 meters ESE.

**HILLS** (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1922; 1946; 1955)--About  $3\frac{1}{4}$  miles below St. Stephen, on the N bank of the St. Croix River, near the southern extremity of Hills Point. The station is about 50 meters N by W from the southern tip of the small point which extends toward The Narrows.

Station mark is a bronze disk set in a drill hole in a rock flush with the ground. In 1946, the rock was slightly tipped and may have been disturbed. A cross within a triangle is cut in a rock 2.58 meters westward from the station. This rock looks as though it had been taken out and replaced. Other references have been removed. Reference mark 232 is about 1 meter NNE. In 1955 station was in poplar saplings 20 feet inshore from the high bank.

**REFERENCE MONUMENT 232-46** (New Brunswick, Charlotte County; N.W. Smith, 1921; 1922; 1939; 1946; 1955)--On the eastern shore of the St. Croix River, at The Narrows, on the downstream part of Hills Point, opposite Bog Brook (Whitlocks Mill) Lighthouse. The station is about 20 meters from the water's edge. The station is about 1 meter NNE of "HILLS" and leans slightly toward the river. About 20 feet inshore from the high bank in dense poplars.

Station mark is a boundary reference post set in a concrete base.

**REFERENCE MONUMENT 233-46 (BOG BROOK LIGHTHOUSE)** (Maine, Washington County; J.E. McGrath, 1909; 1922; 1946; 1955)--On the S bank of the St. Croix River,  $3\text{-}3/8$  miles below Calais, and across The Narrows from Hills Point.

Station mark is the center of the stone lighthouse known as Bog Brook or Whitlocks Mill Lighthouse.

**NARROWS** (Maine, Washington County; J.E. McGrath, 1909; 1935; 1946; 1955)--On the S bank of the St. Croix River, about  $3\frac{1}{2}$  miles below Calais, on that portion of the river known as The Narrows. The station is about 120 meters downstream from Whitlocks Mill Lighthouse, on the top of the bank, about 3 meters from the ledge. A cottage is 30 meters downstream from the station.



Station mark is a bronze disk set in a drill hole in the top of a pyramidal-topped stone. The letters "U.S.R.M." are cut in the stone. A cross within a triangle is cut in a stone S  $6^{\circ}30'E$ , 19.20 meters from the station, and a like mark is cut in a stone S  $29^{\circ}58'W$ , 16.70 meters from the station. There is an eyebolt about 2 meters east.

REFERENCE MONUMENT 234-46 (New Brunswick, Charlotte County; J.A. Pounder, 1922; 1946; 1955)--On the N shore of the St. Croix River, on Pine Point, about  $\frac{1}{2}$  mile upriver from Mark Point Lighthouse, on a boulder 1.2 meters high, on the edge of the woods, at extreme high-water mark. The station is N  $15^{\circ}12'E$ , 13.21 meters from a copper bolt marking triangulation station PINE POINT.

Station mark is a standard 8-inch manganese-bronze reference post set in the top of the boulder.

PINE POINT (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1922; 1946; 1955)--On the N bank of the St. Croix River, about 4 miles below St. Stephen, on Pine Point, at the upper side of a little bay  $\frac{1}{4}$  mile above Mark Point Lighthouse.

Station mark is a copper bolt set in a drill hole in a rock 1 meter below high-water line. The letters "C.R.M." are cut in the rock. A cross within a triangle is cut in each of three rocks, 9.56 meters north, 2.78 meters southeast, and 3.75 meters, from the station. REFERENCE MONUMENT 234 is N  $15^{\circ}12'E$ , 13.21 meters distant from the station. An eyebolt is 1.91 meters E.

PIRINGTON (Maine, Washington County; J.E. McGrath, 1909; 1935; 1946; 1955)--On the S bank of the St. Croix River, about  $4\frac{1}{2}$  miles below Calais, across The Narrows from and opposite Pine Point. The station is on a rocky point at the end of a field (now overgrown with bushes) that slopes steeply upward to the Calais-Eastport road, is about 3 meters outside of the foot of the earthen riverbank which is about 5 meters high, and is on a narrow ledge of black trap rock, 1 meter below high-water line.

Station mark is a badly defaced bronze disk set in a drill hole in the ledge. A cross within a triangle cut in the sloping top of a black granite boulder projecting from the earthen bank bears S  $87^{\circ}36'E$ , 15.49 meters distant, and a like mark on a trap ledge about 1.6 meters outside the earthen bank bears S  $61^{\circ}04'W$ , 11.64 meters distant from the station. In 1955 a large stone marked "4 miles to Calais" was directly inshore from the station on the river side of the highway.

QUARANTINE (Maine, Washington County; J.E. McGrath, 1909; 1922; 1935; 1946; 1955)--On the S bank of the St. Croix River, about  $4\frac{1}{2}$  miles below Calais, on the prominent wooded point directly



opposite Mark Point Lighthouse, and just above the great beacon marking the upper end of extensive ledge which makes out from the United States shore. The station is on a bare ledge of black granite 1 meter inside ordinary high-water line.

Station mark is a bronze disk set in a drill hole in the ledge. The letters "U.S.R.M." are cut in the ledge. A cross within a triangle is cut on the top of a sloping ledge S 85°13'E, 6.87 meters from the station, and a like mark is cut on the sloping top of a black granite ledge S 46°35'W, 16.35 meters from the station. REFERENCE MONUMENT 235 bears S 44°30'E, 16.37 meters distant. In 1922 the head of the bronze disk was found broken off, the shank remaining in the hole. The shank of a broken reference post is set in a hole 29 centimeters S of the station mark. There is an iron pin in a ledge 100 feet downstream.

REFERENCE MONUMENT 235-46 (Maine, Washington County; F.H. Brundage, 1922; 1946; 1955)--On the S shore of the St. Croix River, on the point opposite Mark Point Lighthouse. At this point the river widens out. The station is on a boulder 3 meters long, 2.4 meters wide, and 1.5 meters high, in the woods 9 meters back from and 3 meters above high-water mark. Triangulation station QUARANTINE bears N 44°30'W, 16.37 meters from this station, and there is an iron pin in a ledge 100 feet downstream.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the boulder.

MARK POINT (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1922; 1946; 1955)--On the N bank of the St. Croix River, about 4½ miles below St. Stephen. This station is at Mark Point Lighthouse and is 8.53 meters upstream and riverward from the outer upper corner of its outer upper pier. Water 1 foot over station in 1955.

Station mark is a copper bolt set in a drill hole in the rock nearly flush with the ground. The letters "C.R.M." are cut in the rock, and REFERENCE MONUMENT 236 is set beside it in the same rock. A cross within a triangle is cut in each of three rocks, 4.38 meters north, 3.70 meters north-east, and 2.26 meters west, respectively, distant from the station.

An eyebolt set in the same rock as the western reference distant 2.31 meters, and another, 2.32 meters NE.

REFERENCE MONUMENT 236-46 (New Brunswick, Charlotte County; N.W. Smith, 1921; 1946; 1955)--On the N shore of the St. Croix River on Mark Point, about ¼ mile upstream from The Ledge, N.B., and about 8.5 meters upstream and riverward of the outer upper pier of Mark Point Lighthouse. The station is



on a rock, nearly flush with the ground, and a copper bolt marking triangulation station MARK POINT is beside it in the same rock. Station mark is the shank of a boundary reference post set in a drill hole in the rock. Covered in 1955 by 1 foot of water.

MARK POINT LIGHTHOUSE FINIAL (New Brunswick; U.S. & C.B.S., 1909; 1946; N.W.S. 1955) (No previous description)--Located approximately  $3\frac{1}{2}$  miles SE of Calais, about 300 meters NW of the Ledge Daybeacon, on the N shore of the St. Croix River.

Station is the finial atop the Mark Point Lighthouse and is in good condition.

LEDGE (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1946; 1955)--On the N bank of the St. Croix River, about  $4\frac{3}{4}$  miles below St. Stephen, at The Ledge. The road from St. Stephen to The Ledge runs S nearly to the river and then turns sharply to the W paralleling the river. The station is 9 meters westward of the center line produced of the N and S portion of the road and is 18 meters S of LeRoy Hill's cottage.

Station mark is a copper bolt set in a drill hole in a rock which projects about  $1\frac{1}{2}$  feet above ground. The letters "C.R.M." are cut in the rock. A cross within a triangle is cut in each of three rocks, 3.72 meters north, 3.14 meters east, and 2.75 meters south from the station. All lost in 1955 except N reference.

HYMURCH (Maine, Washington County; J.E. McGrath, 1909; 1935; 1946; 1955)--On the S shore of the St. Croix River, about  $5\frac{1}{4}$  miles below Calais, on a prominent point  $\frac{3}{4}$  mile below Mark Point Light. The station is about 2 meters inside the grass line, on a black granite ledge covered at high water. About 15 meters upstream is a very large gray granite boulder, and a short distance downstream is the summer cottage of Henry Murchie.

Station mark is a badly defaced bronze disk set in a drill hole in the ledge. A cross within a triangle is cut on the sloping top of an exposed ledge S  $45^{\circ}52'E$ , 8.95 meters from the station, and a like mark is cut on the top of a large triangular piece of black granite N  $57^{\circ}08'W$ , 8.75 meters from the station. Two eyebolts are 3.5 meters each N and E of the station.

BROWN (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1946; 1955)--On the north bank of the St. Croix River, about  $5\frac{1}{4}$  miles below St. Stephen, and about  $\frac{1}{2}$  mile upstream from Spruce Point. The station is about 250 meters upstream from the sharp point that forms the upper side of the bay above



Spruce Point, about 5 meters east of the eastern of two heaps of rock lying about 30 meters apart on the beach, and directly riverward from some cottages on the bluff.

Station mark is a copper bolt set in a drill hole in a ledge of rock a little below high-tide mark. The letters "C.R.M." are cut in the ledge. A cross within a triangle is cut on each of three rocks, one E 5.59 meters, one S 3.22 meters and the third W 8.79 meters from the station. There are three eyebolts set in rock, one NW, 1.80 meters, one S, 2.17 meters, and the other NE, 2.10 meters.

MILLER (Maine, Washington County; J.E. McGrath, 1909; 1922; 1935; 1946; 1955)--On the S bank of the St. Croix River, about  $5\frac{3}{4}$  miles below Calais, on the heavily wooded point opposite Spruce Point Lighthouse. The station is on a large sloping ledge about 2 feet outside the line of vegetation. About 6 meters upstream is a small cove formed by the removal of a portion of the ledge; about 30 meters farther on, the ledge appears again with a similar slope to that at the station.

Station mark is a bronze disk set in a drill hole in the ledge. The letters "U.S.R.M." are cut in the ledge. A cross within a triangle is cut in the ledge S  $65^{\circ}48'E$ , 6.05 meters from the station, and a like mark is cut in the sloping face of a large stone S  $26^{\circ}15'W$ , 9.94 meters from the station. REFERENCE MONUMENT 237 is set in the ledge beside the station mark, 0.42 meter distant. An eyebolt is set in rock about 3 meters northward.

REFERENCE MONUMENT 237-46 (Maine, Washington County; N.W. Smith, 1921; 1946; 1955)--On the S shore of the St. Croix River, about 1 mile below The Ledge, N.B., on Miller Point, opposite Spruce Point Lighthouse. The station is on a ledge of rock about 25 meters below the land end of a fish weir. A bronze disk marking triangulation station MILLER is set in the same ledge beside this station, 0.42 meter distant.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the ledge.

SPRUCE POINT (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1922; 1946; 1955)--On the N shore of the St. Croix River, a little more than 5 miles below St. Stephen, on Spruce Point, in front of the Spruce Point Lighthouse. The station is 5.79 meters from a point 91 centimeters below the sill on the outer lower corner of the upper front pier of the lighthouse and 3.96 meters from a point 76 centimeters below the sill on the outer upper corner of the lower pier of the lighthouse.

Station mark is a copper bolt set in a drill hole in the ledge. The letters "C.R.M." are cut in the ledge. Three crosses within triangles are cut in the ledge, 4.50 meters east, 1.98 meters northwest, and 0.85 meters southeast,



respectively, from the station. REFERENCE MONUMENT 238 is set in the ledge beside the station. Two eyebolts are set in the rock 2.35 meters west and 2.36 meters SE of the station.

REFERENCE MONUMENT 238-46 (New Brunswick, Charlotte County; N.W. Smith, 1921; 1946; 1955)--On the N shore of the St. Croix River, about 1 mile below The Ledge, N.B., on Spruce Point, on the ledge of rock in front of Spruce Point Lighthouse. A copper bolt marking triangulation station SPRUCE POINT is set in the same ledge beside the station.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the ledge, in the "C" of the "C.R.M." cut in the rock.

SPRUCE POINT LIGHTHOUSE FINIAL (New Brunswick, U.S. & C.B.S., 1909; 1946; 1955) (No previous description)--Located approximately  $4\frac{1}{2}$  miles SE of Calais, about  $1\frac{1}{4}$  miles W of where the St. Croix River takes a turn to the S on the N shore of the St. Croix River, and directly across from Miller Point.

Station is the finial atop the Spruce Point Lighthouse and is in good condition.

BLUFF HEAD (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1946; 1955)--On the N shore of the St. Croix River, about  $6\frac{1}{4}$  miles below St. Stephen, on Bluff Head Point just below the steep bluff of Bluff Head, about  $\frac{3}{4}$  mile upstream from Oak Point, at the entrance to Oak Bay. Sixty meters E of the station, the shoreline jogs from E to N making a pronounced point. It is on a high, narrow ledge very heavily covered by kelp and projecting into the river 50 feet outside the shore vegetation. The "C.R.M." is o.k. 1 foot east of station in 1955. It is about 6 feet below present high water. It is 50 feet downstream from a much higher rocky ledge which projects 20 feet outside the trees about on high water line.

Station mark is a copper bolt set in a drill hole in the ledge. The letters "C.R.M." supposedly cut in the rock, were not found in 1946. The rocky shore is completely covered by seaweed. Three crosses within triangles are cut in rocks, one 4.36 meters north, one 5.43 meters northwest. The rock southwestward containing a similar mark has fallen toward the river and is now 3.0 meters distant. An eyebolt is set in the edge of the ledge, 2.08 meters distant. About 25 meters downstream, a  $\frac{1}{2}$ -inch iron rod 2 inches high is set in a small rock on the high-water line.

DE MONTS (Maine, Washington County; J.E. McGrath, 1909; 1922; 1935; 1946; 1955)--On the S side of the St. Croix River, a few meters upstream from DeMonts Point where the river turns



sharply from an easterly to a southerly course, and directly opposite Oak Point which is at the western side of the entrance to Oak Bay. The station is on a smooth rocky ledge 2.63 meters outside of the line of vegetation, and near the line of extreme high water.

Station mark is a bronze disk set in a drill hole in the ledge. The letters "U.S.R.M." are cut in the ledge. The letters "R.H.T." have been well cut in the ledge by some unknown person, the letter "R" being upstream 2.76 meters from the station. REFERENCE MONUMENT 239 is set beside the station mark, 0.35 foot distant. A cross within a triangle is cut on the ledge S  $41^{\circ}56'E$ , 5.20 meters distant from the station, and a like mark is cut on the ledge due W 5.07 meters from the station. An eyebolt is set in the rock about 4.5 meters WNW.

REFERENCE MONUMENT 239-46 (Maine, Washington County; N.W. Smith, 1921; 1946; 1955)--On the S shore of the St. Croix River on the upstream side of the point where the river makes nearly a right-angle turn to the S, about 100 meters NW of a road leading to the point. The station is on a smooth rocky ledge about 3 meters outside of the line of vegetation and about 2 meters inside the ordinary high-water mark. The bronze disk marking triangulation station DE MONTS is in the same ledge beside the station.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the ledge.

OAK POINT (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1922; 1946; 1955)--On the N shore of the St. Croix River, on Oak Point, at the W side of the entrance to Oak Bay. The station is on the ledge running SW from the cut clay bank at the SW end of the Todd Farm, and is about 45 meters SW of the clay bank. The ledge is broad and is covered with water at high tide.

Station mark is a copper bolt set in a drill hole in the ledge. The letters "C.R.M." are cut in the ledge. REFERENCE MONUMENT 240 is set in the ledge beside the station mark. There are also three ringbolts set in the ledge, one 2.07 meters NE, one 2.08 meters S, one 2.00 meters W. Three crosses are cut in the ledge, 4.43 meters east, 4.07 meters west, and 3.58 meters south from the station.

REFERENCE MONUMENT 240-46 (New Brunswick, Charlotte County; N.W. Smith, 1921; 1946; 1955)--On the N shore of the St. Croix River, on the ledge running SW from the cut clay bank, at the SW end of Oak Point, at the entrance to Oak Bay, about 45 meters SW from the clay bank. The ledge is broad and covered with water at high tide. A copper bolt marking triangulation station OAK POINT is set in the same ledge beside the station.



Station mark is the shank of a boundary reference post, set in a drill hole in the ledge, with the number "240" cut in the rock nearby.

WARWIG (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1946; 1955)--On the E shore of the St. Croix River, on a little point of the small peninsula just below the mouth of Warwig Creek at the entrance to Oak Bay, reached by farm road and wood road to the shore. Just above high water.

Station mark is a copper bolt set in a drill hole in the rough ledge. The letters "C.R.M." are cut in the ledge. Three crosses within triangles are cut in the ledge, 3.29 meters north, 2.86 meters east, and 3.50 meters south from the station. Three eyebolts in the ledge are W, 1.93 meters, N, 1.90 meters, and E, 1.92 meters. E reference not recovered in 1946. E eyebolt gone in 1955 an iron pin is in a drill hole on the next point downstream near the table at end of the road to the river.

WILEY (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1946; 1955)--On a little point on the E shore of the St. Croix River, about 1 mile below Oak Bay and about  $1\frac{3}{4}$  miles above Dochet Island, about 4 meters inside high-tide mark.

Station mark is a copper bolt set in a drill hole in a rock ledge. The letters "C.R.M." are cut in the ledge. Three crosses within triangles are cut in the ledge, 2.32 meters north, 2.42 meters east, and 2.52 meters south, from the station. REFERENCE MONUMENT 241 is set in the ledge beside the station. Three ringbolts are set in the ledge, E, SW and NW, each about 1.60 meters distant.

REFERENCE MONUMENT 241-46 (New Brunswick, Charlotte County; N.W. Smith, 1921; 1946; 1955)--On the E shore of the St. Croix River, about  $1\frac{1}{4}$  miles above Dochet Island, and across the river from Devils Head. The station is on a rock ledge on the upper shore of a small bay about 200 meters wide. A copper bolt marking triangulation station "WILEY" is set beside it in the same ledge.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock.

EATON (Maine, Washington County; J.E. McGrath, 1909; 1935; 1946; 1955)--On the W bank of the St. Croix River, about 1-5/8 miles above Dochet Island. The station is a little more than a meter inside of the river edge of a bluff of coarse red stone, on the land of Frank and James Whalen, and almost directly in front of the site of former's house. In 1955 the small projection of ledge that station is on is on extreme point, about 3 feet on a side, and 1 foot lower than the ledge inside it. The ledge is red sandstone and disintegrating.



Station mark is a bronze disk set in a drill hole in the ledge. The letters "U.S.R.M." are cut in the ledge. A cross within a triangle is cut in the ledge S 60°33'W, 5.04 meters from the station, and a like mark is cut in the ledge N 51°24'W, 5.33 meters from the station. Eyebolt is set ENE 1.8 meters and another 2.4 meters NNW.

SAND POINT (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1946)--On the E shore of the St. Croix River,  $\frac{3}{4}$  mile N of Dochet Island, on the flat, grassy, and sandy point called Sand Point. The station is 35 meters from the foot of the bluff, and just inside the grass line, on a rock 2 feet long and 11 by 15 inches in cross section, sunk flush with the ground.

Station mark is a bronze disk set in a drill hole in the top of the rock. The letters "C.R.M." are cut in the rock. A cross within a triangle is cut in each of three rocks sunk flush with the ground, 3.85 meters northeast, 3.89 meters southwest, and 2.26 meters east from the station.

In 1946 the grass was gone and the sandy point awash at high tide. The station was not recovered and is probably gone.

WILSON (Maine, Washington County; J.E. McGrath, 1909; 1935; 1946; 1955)--On the W shore of the St. Croix River, opposite and  $\frac{1}{2}$  mile W of Dochet Island, on a point extending some 200 meters into the river from the general shoreline, and terminating in a grassy knoll which is surrounded by water at high tide. The station is at the N end of the knoll and a little more than a meter S of the outer grass line. Stone over station mark.

Station mark is a C. & G.S. bronze disk set in a drill hole in a rock. The letters "U.S.R.M." are cut in the rock. A cross within a triangle is cut in a rock S 23°54'E, 3.08 meters from the station, and a like mark is cut in a ledge S 85°32'W, 8.56 meters from the station, below high-tide mark. Iron bolt in rock 2.5 meters south on line to the reference cross, another bolt W at edge of grass, and a third N 3 feet outside grass.

DOCHET ISLAND LIGHTHOUSE FINIAL (Maine, Washington County; J.E. McGrath, 1909; 1922; 1946; 1955)--On Dochet Island in the St. Croix River.

Station mark is the finial of the lantern on the lighthouse.

DOCHET ISLAND (Maine, Washington County; J.E. McGrath, 1909; 1939; 1946)--On an island of the same name in the lower St. Croix River, near the summit of the knoll S of the lighthouse and the keeper's dwelling.



Station mark is a bronze disk set in a drill hole in the ledge. The letters "U.S.R.M." are cut in the ledge near the mark, and REFERENCE MONUMENT 242 is set in the ledge beside it. The finial of the lighthouse lantern bears N 13°W, 13.2 meters distant. A cross within a triangle cut in the ledge bears N 59°42'E, 2.34 meters, and a like mark cut in the ledge bears N 78°02'W, 3.87 meters distant.

REFERENCE MONUMENT 242-46 (Maine, Washington County; N.W. Smith, 1921; 1922; 1939)--On Dochet Island in the St. Croix River, near the summit of the rocky knoll S of the lighthouse keeper's dwelling and light. The old bell and tripod are on the summit of the same knoll, and the ground slopes very steeply towards the base of the lighthouse. A bronze disk marking triangulation station "DOCHET ISLAND" is on the same knoll beside this station.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the ledge.

REFERENCE MONUMENT 243-46 (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1922; 1946; 1955)--On the E shore of the St. Croix River, a little below Dochet Island, on the cape between Johnson Cove and the first bay above Johnson Cove. The station is on a bare ledge rising gently from the shore to a narrow strip of grass, where the cape extends farthest out, and is at the edge of the grass about 10 meters from a fence to the northward. In 1955, small evergreen trees were growing outside the station.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the ledge. The letters "C.R.M." are cut in the ledge. Three crosses within triangles are cut in the ledge, 2.29 meters north, 2.60 meters south, and 1.84 meters east from the station.

LOWE POINT (Maine, Washington County; J.E. McGrath, 1909; 1935; 1946; 1955)--On the prominent point of the same name located on the W shore of the St. Croix River,  $\frac{3}{4}$  mile below Dochet Island, and  $\frac{1}{2}$  mile below Red Beach Village. The station is near Barker's Cottage, on an exposed ledge at the tip of the point, about 2 meters outside of the line of vegetation.

Station mark is a C. & G.S. bronze disk set in a drill hole in summit of ledge. The letters "U.S.R.M." are cut in the ledge at the station. A cross within a triangle is cut in the ledge N 22°03'E, 3.32 meters from the station, and a like mark is cut in the ledge S 76°41'W, 4.89 meters distant from the station. Iron bolt set about 3 meters SE. Rocks covered with moss.

LITTLE DOCHET (Maine, Washington County; J.E. McGrath, 1909; 1922; 1939; 1946; 1955)--On the small island of the same name 1 mile below Dochet Island in the St. Croix River. The



station is an open space about 5 meters from the highest point of the bluff on the SE point of the island.

Station mark is a bronze disk set in a drill hole in the rock.

Reference monument 244 is set in the rock 0.3 meter NW of the station. A nail in the center of a cross cut in the top of a concrete-filled tile set flush with the ground bears S 50°12'W, 10.72 meters from the station. A ringbolt set in a drill hole in the rock bears N 89°27'W, 2.77 meters from the station, and a ringbolt set in a drill hole in the rock bears N 28°39'E, 2.30 meters from the station.

REFERENCE MONUMENT 244-46 (Maine, Washington County; N.W. Smith, 1921; 1922; 1939; 1955)--On the SE point of Little Docket Island in the St. Croix River, in a clear open space. It is on the rock about 4.5 meters from the edge of the bluff. A bronze disk marking triangulation station "LITTLE DOCKET" is set beside this station in the same rock.

Station mark is a standard 8-inch manganese-bronze reference post set in the rock.

LAMBS BLUFF (Maine, Washington County; J.E. McGrath, 1909; 1935; 1946; 1955)--On the W bank of the St. Croix River, about 2 miles above Joes Point, about 1 mile above the village of Robbinston, on the prominent bluff point just above Brooks Cove. This point is known as Lambs Bluff and Hitchin Point. The station is in the grassland about 6 meters back from the edge of the bluff, on the property of John Miner.

Station mark is a bronze disk set in a drill hole in the top of a granite post 6 inches square and 2-1/3 feet long, set with its top flush with the ground, in the edge of a potato field. A pint bottle filled with ashes is placed beneath the post for a subsurface mark. A cross cut on a small boulder placed slightly below the level of the ground 1.5 meters from the fence between Lamb's and Harvell's land, bears N 87°01'W, 32.14 meters distant from the station; and a cross within a triangle cut on a double birch tree 10 inches in diameter and marked with nails driven in the points of the triangle and the center of the cross, bears N 34°32'W, 19.60 meters distant from the station. In 1955, double birch gone, reference in stone covered, station buried, or plowed out and gone.

APPLE POINT (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1922; 1946; 1955)--On the east bank of the St. Croix River, on Apple Point, the lower prong of the prominent point about 1-5/8 miles above Joes Point. The station is about 5 feet back from the edge of the bluff which drops almost vertically about 15 feet to high-tide line, directly in front of the door of a cottage 30 feet inland, and 60



feet below a deep cove on the point. The cottage and large farm buildings inland belong to Mr. Redmond.

Station mark is a bronze disk set in concrete in an excavation in the rock. The letters "C.R.M." are stamped in the concrete. REFERENCE MONUMENT 245 is set in the rock beside the station mark on the downstream side.

REFERENCE MONUMENT 245 (New Brunswick, Charlotte County; N.W.Smith, 1921; 1946; 1955)--On the E shore of the St. Croix River, at Apple Point, about halfway between Johnson Cove and Joes Point, and opposite Brooks Cove and Hitchin Point. A bronze disk marking triangulation station "APPLE POINT" is set beside this station, on upstream side.

Station mark is a standard 8-inch manganese-bronze reference post set in concrete in an excavation in the rock.

PIKE (Maine, Washington County; J.E.McGrath, 1909; 1935; 1946; 1955)--On the W bank of the St. Croix River, about  $\frac{1}{4}$  mile N of the Robbinston Church, on a bluff point just above the small cove that lies in front of the old "Sheppard Pike" mansion, 20 feet SE of the cabin of Prof. Vladimir G. Sinkovich. In the center of the entrance to this cove there is at high water a small island of red rock, which at low water appears as the end of a small peninsula. The station is about 160 meters N of this island, on a rocky bluff which rises almost vertically about 5 meters above the river. The station is about 2 meters inside the edge of this bluff, in a clump of spruce. Farther inland, the bluff rises 5 meters higher.

Station mark is a bronze disk set in a drill hole in the rock. A cross within a triangle cut in the rock bears N  $63^{\circ}31'W$ , 4.90 meters distant, and a like mark bears S  $75^{\circ}31'E$ , 3.62 meters distant. An eyebolt is in a rock in front of the porch, 11 feet from station.

HOLEY ROCK (New Brunswick, Charlotte County; A.J.Brabazon, 1909; 1946)--On the E bank of the St. Croix River, 1 mile above Joes Point, on a point through which the action of the water has eroded a tunnel from which it is known as Holey Point. The station is just over the tunnel.

Station mark is a bronze disk set in concrete in an excavation in the soft rock. The letters "C.R.M." are stamped in the concrete. Three copper bolts marked with a cross cut in their tops are fixed in the rock, 4.30 meters north, 2.80 meters south, and 3.94 meters west from the station.

Station lost in 1946. Rock over tunnel caved in some years back.

HOLEY (New Brunswick, Charlotte County; N.W.Smith, 1946; 1955)--In an open pasture on the E bank of the St. Croix River, a



mile above Joes Point, inshore from the old tunnel bored through the sandstone by water. The station is about 57 feet downstream from a large sandstone rock among a group of small rocks, about the center of the point, and 75 feet inside the high bank of the river. The station is in outcropping ledge rock, 60 feet inside the high bank, and 40 feet inshore from a rock pile. A farm road leads from the McRoberts home (a quarter mile back from the main road) to a line fence at the upstream end of the pasture.

Station mark is a drill hole in the ledge.

ROBBINSTON (Maine, Washington County; J.E. McGrath, 1909; 1935; N.W.S., 1946)--Station and one reference destroyed by a new road to river. Station is lost.

ROB (Maine, Washington County; N.W. Smith, 1946; 1955)--In Robbinston, Me., on a ridge opposite the post office, and  $\frac{3}{4}$  mile above Liberty Point. The station is about 100 feet W of the ruins of the old factory, 60 feet E of the highest point of the ridge, and about on line with the summit of ridge and the house across the street from the post office. It is about midway between the main road and the river, on one of numerous outcropping sandstone rocks forming part of the ledge underlying the ridge.

Station mark is an I.B.C. bronze station disk cemented in a drill hole in the ledge. The references are drill holes in ledge rock toward road from station. R.M. 1 is in the southerly side of the higher point of the ridge and R.M. 2 is on the northerly side of the same ridge.

Object	Distance	Direction
PIKE	feet	0° 00' 00".0
R.M. 1	51.39	228 22 20
R.M. 2	99.65	258 02 25

JOES POINT (New Brunswick, Charlotte County; A.J. Brabazon, 1909; 1919; 1946)--Station lost in 1946. The mark is in the old rock now on the beach.

JOES (New Brunswick, Charlotte County; N.W. Smith, 1946; 1955)--On the east side of the mouth of the St. Croix River, on Joes Point. It is 9.26 feet northeast of "RANGE MARK 1", about 35 feet inside the high-water line, and about 25 feet north of the road to the beach.

Station mark is an I.B.C. tablet in a drill hole inside a triangle within a square cut in the top of a large concrete post set in the ground nearly flush with surface.

REFERENCE MONUMENT 246-46 (Maine, Washington County; J.E. McGrath, 1909; 1922; 1935; 1946; 1955)--On a point at the upper end of a small cove, locally known as Mill Cove, located on



the W shore of St. Croix River, about  $\frac{3}{4}$  mile below Robbinston,  $\frac{3}{10}$  mile below the old Robbinston Wharf,  $\frac{3}{8}$  mile above Liberty Point, and 100 meters E of the Calais-Eastport road. The land belongs to Mr. Wilson. It is near the inner end of the southernmost of three projecting points of bare red rock.

Station mark is a standard 8-inch manganese-bronze reference post set in a drill hole in the rock. A cross within a triangle is cut on the rock S 79°43'E, 8.83 meters distant, and a like mark bears S 68°59'W, 6.30 meters distant. The letters "U.S.R.M." are cut in the rock at the station mark. Eyebolts are 3 meters NE and 2 meters S.

VARIOUS (Maine & Canada, I.B.C., 1947)--The following stations were remarked and renamed; described under new name:

OLD NAME	NEW NAME
AHEARN (Washington County, Me., J.E.McG., 1912)--	Ref. Mon. 198
GEORGE (New Brunswick, A.J.B., 1910)--	" " 207
GOOSE ROCK (Washington County, Me., J.E.McG., 1912)--	" " 215
RAILROAD (New Brunswick, A.J.B., 1909)--	" " 216
ISLAND (New Brunswick, A.J.B., 1909)--	" " 217
POORHOUSE (Washington County, Me., J.E.McG., 1909)--	" " 219
RANCH (Washington County, Me., J.E.McG., 1909)--	" " 224
INDIAN POINT (Washington County, Me., J.E.McG., 1909)--	" " 225
LAWN (New Brunswick, A.J.B., 1909)--	" " 226
RIGBY (New Brunswick, A.J.B., 1909)--	" " 243
INITIAL (Washington County, Me., J.E.McG., 1909)--	" " 246

#### PASSAMAQUODDY BAY NORTH OF EASTPORT

RANGE MARK NO. 1-46 (New Brunswick, Charlotte County; J.Hill, 1919; 1946; 1955)--Station is the front range mark, cross ranging International Boundary Turning Point No. 1, and is located on Joes Point, N.B., at the mouth of the St. Croix River, about 35 feet inshore from the high-tide line, and about 25 feet north of the road to the beach. The station is 9.26 feet SW of station "JOES". The ground in front of the station is open grass ground.

Station mark is a standard range mark.

RANGE MARK NO. 2-46 (New Brunswick, Charlotte County; J.Hill, 1919; 1946; 1955)--Station is the rear range mark, cross ranging International Boundary Turning Point No. 1, and is located on Joes Point, N.B. The station is on the top of the slope, about 375 feet east of "RANGE MARK NO. 1", and about 50 feet north of the road to the beach. The top of the hill in front of the station is growing up to spruce trees and bushes. These were removed in 1946.

Station mark is a standard range mark.



MINSTER ISLAND TOWER (U.S.C. & G.S.) (New Brunswick, Charlotte County; J.H. Hawley, 1918)--Station is the apex of the conical roof on a low stone tower on the beach at the S end of the island. This tower is used as a bathhouse.

CHIMNEY WHITE HOUSE MINSTER ISLAND (U.S.C. & G.S.) (New Brunswick, Charlotte County; J.H. Hawley, 1918)--Station is the S chimney of the white house on the highest point of the island.

BIN (Maine, Washington County; N.W. Smith, 1946; 1955)--On the point at the upper end of a small cove, located on the W shore at the mouth of the St. Croix River, about  $\frac{3}{4}$  mile below Robbinston,  $\frac{3}{8}$  mile above Liberty Point, and directly across the mouth of the river from Joes Point. The station is 62.84 feet E of REFERENCE MON. 246, 3 feet inside the edge of the sandstone ledge, with a circular projection of the ledge extending 10 feet into the water in front of the station. Studoneil cottage is on the point N of the station.

Station mark is a drill hole in the ledge at the edge of the grass ground.

ALGONQUIN HOTEL TOWER (U.S.C. & G.S.) (New Brunswick, Charlotte County; O.B. French, 1913; 1918; 1955)--The prominent tower on the W end of the largest building in St. Andrews, N.B.

HOSPITAL ISLAND HOUSE (U.S.C. & G.S.) (New Brunswick, Charlotte County; J.H. Hawley, 1918)--Station is chimney of small fishing shack on Hospital Island in Passamaquoddy Bay. This is the only building on the island.

HOLT (U.S.C. & G.S.) (New Brunswick, Charlotte County; J.H. Hawley, 1918)--Station is the S gable of a large, white, French-roofed house near Bocabec Lake, on the N shore of Passamaquoddy Bay. House is known as Holt's place.

NORTH NAVY (New Brunswick, Charlotte County; Dr. W.F. King, 1894)--Station is on the W shore of Navy Island, near the northern end. Station mark was not described.

ANLEY (U.S.C. & G.S.) (New Brunswick, Charlotte County; F.P. Weber, 1863; 1913)--On a high hill between Letite Harbor and Letite Passage, about  $\frac{1}{2}$  mile W of the former, about  $\frac{1}{3}$  mile N of the shore of Back Bay, and about 1 mile ENE of Macabin Point Lighthouse. The station is on a bare knob of the second ledge to the westward and is marked by a hole drilled in the rock. There is a pile of large rocks about it. The view is unobstructed in all directions.

BEAN (New Brunswick, Navy Island; N.W. Smith, 1946)--On the first prominent point on the W side of Navy Island, below the N end



of the island. This point is the most southerly point from which Joes Point can be seen. The station is 7 feet inshore from the edge of the earth on the center of the point.

The outermost tree on the point, 4 inches in diameter, was cut off a little above the ground and the stump used as a hub. No permanent marker.

D, 1894 (Maine, Washington County; Dr. W. F. King, 1894; 1946)--On the point on the W side of the mouth of the St. Croix River, a few feet from station "BIN". Unable to locate station from "BIN" in 1946.

NAVY ISLAND (U.S.C. & G.S.) (New Brunswick, Charlotte County; F. P. Weber, 1863; 1913; 1946)--In open pasture land, on the SE end of Navy Island in northern Passamaquoddy Bay, about 1 mile SE of the mouth of the St. Croix River, and about a mile SW of St. Andrews, N.B. The station is about 100 meters inland from the SE point of the island, about 18 meters from the edge of the bluff on the W side, and 40 meters on the E side. About 66 meters to the NW is a row of stones, evidently the remains of an old fence across the island. The station is in a small embedded boulder about 6 inches high, in a small depression in the ground, with the top of the rock about on general ground level.

Station mark is a C. & G.S. bronze station disk wedged in a drill hole in the rock. The reference is a C. & G.S. bronze reference disk wedged in a drill hole in a small rock, 1 foot in diameter and flush with the ground, NE of the station 3.586 meters.

TONGUE (New Brunswick, Charlotte County; N. W. Smith, 1946; 1955)--The pointed top of the light on the Tongue Reef Lighthouse, on the SE end of the building on Tongue Reef, in Passamaquoddy Bay, about 1½ miles E of Navy Island, and the same distance SE of St. Andrews, N.B.

SOUTH NAVY (New Brunswick, Charlotte County; Dr. W. F. King, 1894; 1946)--Station was on the southeastern tip of Navy Island in northern Passamaquoddy Bay. In 1946 the site of the station was checked from "NAVY ISLAND" and was found to be 25 feet outside the end of the bluff, in deep water. The end of the island is gradually being eroded.

WHITE HORSE (U.S.C. & G.S.) (New Brunswick, White Horse Island; C. O. Boutelle, 1861; 1913)--On the highest point of White Horse Island in Passamaquoddy Bay, a small gull island about midway between Campobello and Bliss Islands, about 4 miles E of Deer Island, about 2 miles SW of Bliss Island light. Marked by two references, drill holes 9 feet 5 inches SW and 14 feet 3 inches SE.



WHITE HORSE (Canadian Geod.S.) (New Brunswick, White Horse Island; 1918)--On the highest point of the grass covered island, marked by a G.S. of C. bronze station disk in a drill hole within a triangle cut in the rock with a reference arrow cut in a nearby outcrop of rock.

Object	Direction		
CHAMCOOK	0°	00'	00"0
Mascabin L.H.	31	32	42.2
Bliss Island L.H.	78	25	30.3
Pea Point L.H.	92	10	24.2
Point LePreaux L.H.	125	20	48.0
Swallow Tail L.H.	204	47	58.0
Head Harbor L.H.	258	46	39.4

C-SUB (Maine, Washington County; N.W. Smith, 1946; 1955)--On the point on the N side of Gin Cove, now called Loring's Cove, on the W side of Passamaquoddy Bay, 3 miles S of Joes Point, at the mouth of St. Croix River, and about a mile S of Lewis Cove at North Perry, Me. The station is on a projecting rocky ledge at the bay edge of the picnic grounds belonging to Mr. Loring of Perry, 3 feet inside the edge of the high ledge, 6 feet N of the extreme end of this high ledge, and 12 feet outside the grass line, on the open grassy point.

Station mark is a 5/16-inch copper bolt set in white concrete or sulphur in a drill hole in the ledge and projecting about  $\frac{3}{4}$  inch. One reference mark is a G.S. of C. bronze reference disk set in a drill hole in the ledge directly in-shore and about 1 foot outside the earthen bank. The other is a drill hole in the ledge outside the earth bank and up the bay from the station.

Reference mark 3 (LORING U.S.C. & G.S.) is a standard U.S.C. & G.S. station disk set in a drill hole in the ledge, one meter outside the grass on the point, distant 3.564 meters from reference mark 1. Station probably Dr. King's reference mark.

Object	Distance	Direction		
BIN	meters	0°	00'	00"0
R.M. No. 1	2.747	251	17	00
R.M. No. 2	4.570	303	56	30
R.M. No. 3	4.400	305	17	30

LORING (U.S.C. & G.S.) (Maine, Washington County; R.A.G., 1946; 1947; 1955)--Station is Reference mark No. 3 for station C-SUB above, and is 0.65 feet from Reference mark No. 2 of that station.

C (Maine, Washington County; W.F.K., 1894; J.H., 1947) (No previous description)--Station is lost.



PENDLETON (U.S.C. & G.S.) (New Brunswick, Pendleton Island, F.P. Weber, 1863; 1913)--On a high bare hill in the northwestern part of Pendleton Island, which lies in the southern part of Passamaquoddy Bay just N of Deer Island. The station is marked by a hole drilled in the rock and has a pile of stones placed near it.

HOG (U.S.C. & G.S.) (New Brunswick, Jameson Island, F.P. Weber, 1863; 1913)--On the highest part of Jameson Island (formerly Hog Island), a small island which lies  $5/8$  mile ENE of the N point of Deer Island, 175 meters S of Macmaster Island, and  $1\frac{3}{4}$  miles W by N from Macabin Point Lighthouse. The station is marked by a hole drilled in the rock.

HOG, 1918 (U.S.C. & G.S.) (New Brunswick, Jameson Island; J.H. Hawley, 1918)--On the southernmost end of a small rocky peninsula which lies off the southern end of Hog Island. This island is a small island lying in the northern part of Passamaquoddy Bay, about  $5\frac{1}{2}$  miles NE of the town of St. Andrews, N.B.

Station is marked by a brass bolt set in concrete in a drill hole in an outcropping boulder, which lies about 20 feet back of the high-water line, and which is the only large boulder in the vicinity. There was no reference mark or witness mark placed at the station.

Height of signal above station - 10 meters.

GREY HOUSE NEAR MOUNT BLAIR (U.S.C. & G.S.) (New Brunswick, Charlotte County; J.H. Hawley, 1918)--Station is E chimney of large grey house near Mount Blair in Passamaquoddy Bay. House has two chimneys, one at each end. House is in a small clearing.

MATTHEWS (U.S.C. & G.S.) (New Brunswick, Charlotte County; F.P. Weber, 1863; 1913; 1918)--On the highest part of a high rocky hill on the E side of Passamaquoddy Bay, at the northern entrance to Little Passage, and about 200 meters from shore. It is about  $\frac{3}{4}$  mile SSE from upper Green Point, about 2 miles N by W from Macabin Point Lighthouse, and is marked by a hole drilled in the rock.

BUTLER (U.S.C. & G.S.) (New Brunswick, Deer Island; F.P. Weber, 1863; 1913)--On a high rocky hill called "Big Hill", on the NE part of Deer Island, and about 300 meters from its eastern shore. The station is marked by a hole drilled in the rock and within a circle chiselled in the rock.

GRAVEYARD (U.S.C. & G.S.) (New Brunswick, Charlotte County; F.P. Weber, 1863; 1913)--On the highest part of Steward Island (formerly known as Graveyard Island), a small island about 150 meters E of Deer Island and twice that distance NW of Howard Island. The station is marked by a hole drilled in the rock.



**HARDWOOD (U.S.C. & G.S.)** (New Brunswick, Charlotte County; F.P. Weber, 1863; 1913)--On the highest part of Hardwood Island, about  $\frac{1}{2}$  mile E of Deer Island, and  $\frac{3}{4}$  mile to the northward of Bean Island. The station is marked by a hole drilled in the rock.

**FISH (U.S.C. & G.S.)** (New Brunswick, Charlotte County; F.P. Weber, 1863; 1913)--In a small hill of Fish Island, which lies about  $\frac{3}{4}$  mile off the coast of Deer Island, and between Harwood and Bean Islands. The station is marked by a hole drilled in the rock.

**MOWATT (U.S.C. & G.S.)** (New Brunswick, Charlotte County; F.P. Weber, 1863; 1913)--On a high rocky hill on Mowatt Island, which is the middle island of a group of three, and is about 2 miles E of Deer Island,  $7/8$  mile E of Bean Island. The station is marked by a drill hole within a triangle cut in the rock, and covered by a cairn.

**BAR ISLAND (U.S.C. & G.S.)** (New Brunswick, Charlotte County; C.O. Boutelle, 1861; 1863)--Near the lower end of Bar Island in Passamaquoddy, a quarter mile E of Deer Island, and a half mile S of Northwest Harbor. Marked by stake with rocks piled around it in 1861.

**HIBERNIA COVE (U.S.C. & G.S.)** (New Brunswick, Charlotte County; C.O. Boutelle, 1861)--On the point on the upper side of Hibernia Cove, on the W side of Deer Island, one mile N of the upper end of Indian Island. Marked by a stake.

**NORTH HEAD (U.S.C. & G.S.)** (New Brunswick, Charlotte County; C.O. Boutelle, 1861; 1863; 1913)--On hill near N end of Deer Island, about  $\frac{1}{4}$  mile from N shore, about 8 m. SW of highest point of hill, and faces upon a ledge.

Station mark is a drill hole within a circle cut in the rock. A cairn was erected near it. The owner's home was on S slope of the hill.

**DAVID (U.S.C. & G.S.)** (New Brunswick, Deer Island; J.H. Hawley, 1918)--On a ledge of rock on the cliff at Davidsons Head. The cliff at this point is bare of trees and the mark is about 11.6 meters from the extreme W edge of the cliff.

Station is a copper bolt in concrete in the outcropping rock. Top of bolt projects about an inch above rock surface.

Reference mark 1 is a brass mark with the arrow pointing toward the station. It is cemented in a rock located about midway between the station and the top of the hill.

Reference mark 2 is a standard witness mark - a triangular blaze with nails driven along the sides of the triangle. It is cut in the side of a pine tree facing the station.



Object	Distance	Direction
SAND REEF LIGHT- HOUSE	meters	0° 00' 00" 0
R.M. 1	26.2	138 07 30
R.M. 2	16.5	88 06

ST. HELENA (U.S.C. & G.S.) (New Brunswick, Charlotte County; F.P. Weber, 1863; 1913)--On the southern end of St. Helena Island, which lies about 1/8 mile off the E coast of Deer Island and just N of the entrance to Northwest Harbor, and about 6 miles NNE of Eastport, Me. The station is on a bare ledge a few feet SW of the highest part of the hill and about a foot lower. It is marked by a standard disk wedged in a drill hole in a boulder. A reference mark is a standard disk wedged in a drill hole in a boulder in the most prominent ledge toward the SW and 9.75 meters from the station.

HANNAH (U.S.C. & G.S.) (New Brunswick, Charlotte County; C.O. Boutelle, 1860; 1913)--On a hill on Deer Island in Passamaquoddy Bay, near Leonard Cove, opposite Bar Island, on land belonging to Mr. George Leonard. The hill is commonly known as Hannah Dyer's Hill and is about 1/2 mile behind Mr. Leonard's house, from which the ascent is easy. In 1913, it was determined that the station was on the westerly of the two summits, but was not recovered. Brush and some trees are on the hill. Station mark is a drill hole in rock.

B-SUB (Maine, Washington County; N.W. Smith, 1946; 1955)--On a point locally known as Glacier Point, on the W side of Passamaquoddy Bay, on the lower side of Frost Cove, and on the second prominent point above Pleasant Point. The station is about the center of the point, 6 feet inside the normal high-tide line, 20 feet outside and 4 feet below the high, grass-covered bank, about 18 feet from the edge of the ledge, both N and S. Probably reference for Dr. King's station "B".

Station mark is a 5/16-inch copper bolt set in white concrete or sulphur in a drill hole in the ledge and projects about 1/4 inch. The references are drill holes in the ledge. R.M. 1 is SE, 1 foot outside the foot of the earthen bank, and 8 feet from the drop off on the southern side of the ledge. R.M. 2 is SW, 3 feet outside the earthen bank, 2 feet lower than the station, and 6 feet from the N edge of the ledge.

Object	Distance	Direction
GIN - "C"	feet	0° 00' 00" 0
R.M. 1	21.72	238 31 10
R.M. 2	16.61	295 43 55

B (Maine, Washington County; W.F.K., 1894; J.H., 1947) (No previous description)--The station is on Glacier Point, 5 feet back from the top of the bank, in the edge of brush, and is 36.19



feet from B-SUB.

Station mark is a 2-inch cross cut in the top of a triangular flat-topped stone 9 inches by 6 inches at W end and corner to a rounded point at the E end. The stone is over 6 inches deep and is 1 inch below the surface of the ground.

DAVIDSON HEAD (U.S.C. & G.S.) (New Brunswick, Deer Island; F.P. Weber, 1863; 1913; 1946)--On the highest part of the head of that name, on the W side of Deer Island, about  $1\frac{3}{4}$  miles WSW of the S end of Pendleton Island, and the same distance NW of North Harbor. The station is marked by a drill hole in the ledge and a pile of large rocks. A round turn in an old rail fence is 100 feet NE of the station.

In 1946, the station was in thick brush and surrounded by high timber.

Station mark is an I.B.C. bronze station disk set in the original drill hole in the ledge with a pile of large rocks nearby.

CLAM (New Brunswick, Deer Island; N.W. Smith, 1946)--On the highest point of the highest rocky knob on the peninsula of Deer Island, between Clam Cove and the Western Passage of Passamaquoddy Bay, about on a line from the head of Clam Cove and the cape across from Gleason Cove, known as Clam Cove Head. The station is on the northerly and highest of the bare rocky ledges on the knob, and is about 500 feet from the bay, on a line to the mouth of the St. Croix River. The ledge drops sharply about 12 feet W of the station, 35 feet N, and 20 feet E.

Station mark is an I.B.C. bronze station disk cemented in a drill hole in the rock.

A-SUB (Maine, Washington County; N.W. Smith, 1946; 1955)--On prominent point on the W side of Passamaquoddy Bay,  $1\frac{3}{4}$  miles N of and across Gleason Cove from Pleasant Point, and opposite Clam Cove Head, on Deer Island. The station is on the second and northern prong of this point above Gleason Cove. This second prong is a solid rock ledge and extends to a sharp point about 40 feet into the bay at mean low tide and half that far on high tide. A fishing cabin is on the high bank inside the station. The station is on a flat section of the ledge, just above ordinary high water, 3 feet from the S side of the ledge, 8 feet from N side, 25 feet E of the point at low tide, and 6 feet below the top of the ledge 18 feet E.

Station mark is a 5/16-inch copper bolt set with white concrete or sulphur in a drill hole in the ledge and projects about  $\frac{3}{4}$  inch. Probably reference for Dr. King's station "A".

Reference mark 1 is a drill hole in a large boulder 4 feet by 2 feet and 6 inches high, in front of the fisherman's cabin, at the foot of the only spruce tree on the point



outside the main grove. It is 10 feet inside the edge of the grass, 15 feet inside the drop-off to the beach, and about on line with the S side of the point extended.

Reference mark 2 is station "GLEE".

Object	Distance	Direction
GLACIER - "B"	feet	0° 00' 00".0
R.M. 1	43.52	272 06 00
GLEE	38.42	301 52 00

A (Maine, Washington County; W.F.K., 1894; J.H., 1947) (No previous description)--Station is lost.

GLEE (Maine, Washington County; N.W. Smith, 1946; 1955)--On the first prominent point on the W side of Passamaquoddy Bay, N  $1\frac{3}{4}$  miles of Pleasant Point, and separated by Gleason Cove from it, and opposite Clam Cove Head, on Deer Island. The station is 10 feet inside the grass line, on the point which is a rock ledge extending 40 feet into the bay, about in line with the general shore above and below the point. The station is on a solid boulder 2 feet square, showing 2 feet above ground, and is 6 feet E of the fisherman's cabin on the point. Station "A" is on the rocky ledge.

Station mark is a G.S. of C. bronze reference disk set in a drill hole in the rock, with arrow pointing to station "A". See station "A" for the references.

Object	Distance	Direction
GLACIER	feet	0° 00' 00".0
A	38.42	121 16 10
R.M.		209 34 50

HAVEN (New Brunswick, Deer Island, N.W. Smith, 1946)--On the central part of the peninsula of Deer Island W of Clam Cove and between it and the Western Passage of Passamaquoddy Bay. The station is 30 feet S of and 2 feet lower than the highest point on the most westerly rocky knob on Deer Island. There are two large outcropping rocks 12 feet from the station northerly on line to the summit of the ledge. The station is on a rounding outcrop of the ledge, near the E end, 4 feet by 2 feet in size.

Station mark is an I.B.C. bronze station disk cemented in a drill hole in the ledge.

CLAM COVE (New Brunswick, Deer Island; Dr. W.F. King, 1894)--On the highest part of the hill on Deer Island, about 400 meters N of the junction of the N-S and NE (to Lords Cove) roads in Fairhaven village, about 70 meters N of RANGE MARK 4, and a like distance E of the road.

There is no record of the station mark, but Dr. King's other marks in 1894 were 5/16-inch copper bolts set in white concrete or sulphur in drill holes in rock projecting about  $\frac{3}{4}$  inch.



RANGE MARK 3-46 (New Brunswick, Deer Island; J. Hill, 1919; 1946; R.K.L. 1954)--Located on Deer Island, near the E shore of Clam Cove, about 300 meters N of the road from Fairhaven to the shore of the cove; and is the front range mark, cross ranging International Boundary Turning Point 2. Brush near water but no cutting needed.

Station mark is a standard range mark.

RANGE MARK 4-46 (New Brunswick, Deer Island; J. Hill, 1919; 1946; R.K.L. 1954)--Station is the back range mark, cross ranging International Boundary Turning Point 2, and is on top of the hill on Deer Island, about 300 meters N of the end of the Lords Cove road in Fairhaven, and about 75 meters E of the N-S road through the village. The station is near the W side of the summit and the view westward is open, with some low brush around the range mark.

Station mark is a standard range mark.

CLAM REFERENCE MARK (New Brunswick, Deer Island; A.J. Brabazon, 1913; 1919)--On Deer Island, on the E shore of Passamaquoddy Bay, on the point at the W side of the entrance to Clam Cove. The station is on the summit of the knoll, about 50 meters inland, on the extreme southeastern tip of the point. The point is timbered.

Station mark is a bronze disk set in a drill hole in solid rock.

PERRY YELLOW HOUSE, SOUTHEAST GABLE (U.S.C. & G.S.) (Maine, Washington County; F.P. Weber, 1863; Maine Geod.S., 1935)--The SE gable of a house located on the summit of a prominent hill  $2\frac{1}{2}$  miles N of W from the village of Perry and nearly  $\frac{1}{2}$  mile W of the shore of Passamaquoddy Bay.

PERRY WHITE CHURCH SPIRE (U.S.C. & G.S.) (Maine, Washington County; O.B. French, 1913; 1935; 1946; 1955)--The top of the tall slender white spire of the only prominent church in the village of Perry.

PLEASANT POINT CHURCH SPIRE (U.S.C. & G.S.) (Maine, Washington County; O.B. French, 1913; Maine Geod.S., 1935)--Station lost. Church rebuilt.

PLEASANT POINT WINDMILL (U.S.C. & G.S.) (Maine, Washington County; O.B. French, 1913; Maine Geod.S., 1935)--Station destroyed.

CARLOW ISLAND CHIMNEY (U.S.C. & G.S.) (Maine, Washington County; D.B. Wainwright, 1893; 1913; 1946)--The very large brick chimney on Mrs. Black's house on the eastern side of Carlow Island, used as the back mark of the Carlow Island range. Owing to outcropping ledges the drain tile marking the range had to



be placed to the eastward of the barn. In 1913 the chimney was found in good condition but the tile was not found.

LORING'S BARN CUPOLA (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1913; Maine Geod. S., 1935)--Station destroyed.

PLEASANT POINT (Maine, Washington County; A.J. Brabazon, 1913; 1919; 1946; 1955)--On the W shore of Passamaquoddy Bay, on Pleasant Point. The station is on top of the highest hill on the point,  $\frac{1}{4}$  mile NW of the Indian village of Pleasant Point, and about 75 meters NE of the main road where it crosses the top of the ridge. The station is about 15 meters westerly from the ledge at the highest point on the open hill. Another higher outcrop 8 feet W.

Station mark is the shank of a bronze disk set in a drill hole in an 3 by 1 foot outcrop of the ledge. PLEASANT POINT 1893 is 50.2 feet S of the station. Shank gone in 1955, hole only.

PLEASANT POINT, 1893 (U.S.C. & G.S.) (Maine, Washington County; T.C. Mendenhall, 1893; 1946; 1955)--On top of the hill on Pleasant Point, on the W side of Passamaquoddy Bay, across from Clam Cove. The station is about 38 feet E of the N end of the highest rocky ledge on the hill and 50.2 feet N of "PLEASANT POINT, 1913".

Station mark is a deep cross cut in the ledge rock,  $1\frac{1}{2}$  feet underground, at the bottom of an 8-inch hole. This hole is filled with stones and earth with an irregular stone about 8 inches in diameter and 4 inches thick set over the station flush with the surface. A deep cross is cut in the top of this surface stone.

TROTT (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1913; 1946; 1955)--On Pigeon Hill, about 1 mile N of the highway bridge to Moose Island and the same distance NW of Carlow Island, about 100 meters E of the Eastport-Calais road and  $\frac{3}{4}$  mile N of the junction of that road with the Pembroke road. The station is on the outcrop of a ledge on the SW part of the summit of the hill.

Station is about 15 meters SE of the highest point on the hill and about 8 meters S of the station the steep slope to the road starts.

Station mark is a drill hole in the ledge, filled with-in half an inch of the top with lead. A six-inch square cut in the rock surrounding the station has been partly gouged out. No reference mark now exists.

PERRY PIGEON (U.S.C. & G.S.) (Maine, Washington County; C.O. Boutelle, 1860; 1913)--On Pigeon Hill, about 1 mile N of the highway bridge to Moose Island, and on the E side of the



highway. The station is near the NW end of the flat top of the hill.

Station mark is a drill hole in the rock, with a spruce plug in it.

Not recovered in 1913.

### PASSAMAQUODDY BAY, VICINITY OF EASTPORT

PRINCE REGENTS REDOUBT (U.S.C. & G.S.) (Maine, Washington County; C.O. Boutelle, 1861; 1910)--Station is lost.

CUMMING (U.S.C. & G.S.) (New Brunswick, Charlotte County; T.C. Mendenhall, 1893; 1913; 1918; 1946)--On a bare knob, largely surrounded by timber, rising abruptly from the W shore of Deer Island, about 3/8 mile N of Cummings Cove, and about 30 feet SSW from the summit of the rocky knob.

Station is marked by a brass bolt leaded in a drill hole in the rock, one foot below the surface of the ground, in a small depression. The brass bolt is in the NW edge of the lead and is very inconspicuous. A small cross near the W side of the bolt marks the center of the station. The hole above the station mark is filled with earth and a 2-foot cairn of large rocks built over the station.

A standard bronze reference disk with the sides cut so as to leave the arrow only is set in concrete on the highest point of the ledge. Station "CUM" is in edge of ledge westerly.

Object	Distance	Direction
TROTT	meters	0° 00' 00.0"
CUM	7.858	29 49 15
R.M.	10.53	88 37 30

CUM (New Brunswick, Charlotte County; N.W. Smith, 1946)--On a bare knob, largely surrounded by timber rising abruptly from the W shore of Deer Island, about 3/8 mile N of Cummings Cove, and about 35 feet SW from the summit of the rocky knob. The station is on open ledge projecting westward from the rest of the open top and is 3 feet lower than the highest point of the ledge.

Station mark is a drill hole in the rock, 7.86 meters W of "CUMMING".

KENDALL 2 (U.S.C. & G.S.) (Maine, Washington County; T.C. Mendenhall, 1893; 1913; 1918; 1946; 1955)--On the southern edge of the highest ledge on Kendall Head, Moose Island, in Passamaquoddy Bay. This high ledge is of considerable size and is bare, surrounded by timber except to the south. Summit can be reached by a good road, turning right off the main road where it swings left to go around the hill, then swinging sharply right at the top of the grade. Station also known as Kendall Head.



Station mark is a cross cut on the head of a bolt leaded in a drill hole in rock ledge in the bottom of a hole 18 inches deep, and about a foot in diameter, left by removal of the old surface mark. A 3-inch U.S.C. & G.S. bronze reference disk is set about 30 feet ENE in 4-inch pipe on summit of ledge, with arrow pointing to station. A drill hole is 9.35 feet S in a ledge 8 feet in diameter by 2 feet high.

KENDALL HEAD (Maine, Washington County; W.F.K., 1894; 1946) (no previous description)--Station is identical with station KENDALL 2, 1893.

RANGE MARK 5-46 (Maine, Washington County; J.Hill, 1919; 1946; 1954)--Station is the front range mark, cross ranging International Boundary Turning Point 3, and is located on Moose Island in Passamaquoddy Bay, about  $\frac{1}{2}$  mile NW of Kendall Head. The station is near the shore on property of Dugal Anderson. Some cutting done to open the line from the range mark to the bay.

Station mark is a standard range mark.

RANGE MARK 6 (Maine, Washington County; J.Hill, 1919; 1946; 1954)--Station is the back range mark, cross ranging International Boundary Turning Point 3, and is located on Moose Island in Passamaquoddy Bay, about  $\frac{1}{2}$  mile NW of Kendall Head. The station is a little S of the road leading N then W from near Kendall Head. Considerable cutting was done in 1946 to open the line from the range mark to the turning point.

Station mark is a standard range mark.

INDIAN ISLAND (U.S.C. & G.S.) (New Brunswick, Indian Island, C.O.Boutelle, 1860; 1918)--Located on the highest point on the N end of Indian Island in Passamaquoddy Bay, about  $1\frac{1}{2}$  miles SW of Wilson Beach on Campobello Island. The hill is bare on top, with several rocky ledges. Station is also known as "INDIAN HILL 2".

Station mark is a drill hole in the highest point of rock on the hill.

HANNABURY (U.S.C. & G.S.) (New Brunswick, Campobello Island; C.O.Boutelle, 1860; 1913; 1918)--On a hill in the center of the northern part of Campobello Island, called Hannabury or Head Harbor Hill. The station is on an outcropping ledge between the two high ledges on the S side of the summit and is marked by a copper bolt set in a hole in the rock. A pile of rocks is placed near it. It is most readily reached by the road from Wilsons Landing to the E side of the hill.

CHIM (U.S.C. & G.S.) (New Brunswick, Campobello Island; J.Hawley, 1918)--Station is chimney of schoolhouse at Wilsons Beach,



New Brunswick. Chimney is near the W end of the gable. Schoolhouse is a large grey building of wood and is the largest building in the village.

REN (U.S.C. & G.S.) (New Brunswick, Campobello Island; J.H. Hawley, 1918)--Station is the chimney of a French-roofed house on the point at the N side of the entrance to Harbor de Loutre. This house is on the highest ground in the vicinity of the point.

RACCOON HILL (U.S.C. & G.S.) (New Brunswick, Campobello Island; C.O. Boutelle, 1860; 1913; 1918)--On the highest point of the high rocky hill, known as Raccoon, in the northern part of the peninsula on the W side of Campobello Island formed by Friar Roads and Harbor De Loutre. The hill is free from timber and brush and a good trail runs from Raccoon Beach to the summit. The station is about  $3/8$  mile SW of Man of War Head,  $1/4$  mile from the N shore of the peninsula, and 2 miles E of Eastport, Me., and  $1\frac{3}{4}$  miles NE of Welchpool. It is marked by United States and Canada boundary disk set in a drill hole in the ledge. Two reference marks in the magnetic meridian are, 11.315 feet N and 4.18 feet S of the station, the first marked by a cross within a 5-inch triangle cut in the rock, and the second by a cross only.

KENDALL HEAD REFERENCE MARK (Maine, Washington County; J. Hill, 1919; 1946)--On Kendall Head, on the NE part of Moose Island, Passamaquoddy Bay, on the range line from turning point 2 of the boundary to range marks 7 and 8, about 40 feet SSE and 10 feet lower than a rock ledge extending from Kendall Head, about 30 feet E of a 20-foot sand bank, and about 6 feet lower than the high-water level.

An iron pin ( $1/2$ -inch diameter and 4 inches high) is on another ledge some distance away.

Station mark is a U.S.C. & C.B.S. bronze station disk wedged in a drill hole in the outcropping ledge. The reference is a  $1/2$ -inch iron bolt set in a drill hole in the rock, 13 centimeters N, and projecting 4 inches above the rock.

DEER ISLAND REFERENCE MARK (New Brunswick, Charlotte County; A.J. Brabazon, 1913; 1919)--On Deer Island, Passamaquoddy Bay. The station is on the summit of the prominent knoll on Deer Point at the extreme S end of the island.

Station mark is a bronze disk in a drill hole in jagged rock. In 1919, disk was reported missing; drill hole recovered.

RANGE MARK 11-46 (New Brunswick, Charlotte County; J. Hill, 1919; 1946; 1954)--The front range mark (a standard range mark), ranging International Boundary Course 2-3; on Deer Island in



Passamaquoddy Bay, in open ground on the W shore of the island, and about 100 meters N of the extremity of the W of the twin points at the S end of the island.

RANGE MARK 9-46 (Maine, Washington County; J. Hill, 1919; 1946; 1955)--Station is the front range mark (a standard range mark), cross ranging International Boundary Turning Point 4, and is on a low point on the S side of Johnson Cove, on Moose Island in Passamaquoddy Bay, about  $1\frac{1}{2}$  miles NW of Eastport.

RANGE MARK 10-46 (Maine, Washington County; J. Hill, 1919; 1946; 1955)--On Moose Island in Passamaquoddy Bay, about  $1\frac{1}{2}$  miles NW of Eastport. It is the back range mark (a standard range mark), cross ranging International Boundary Turning Point 4, about  $\frac{1}{4}$  mile SE of Johnson Cove, on the side of Redoubt Hill, about midway between the road and the railroad. Some cutting was required to make the mark visible from the bay.

RANGE MARK 7-46 (Maine, Washington County; J. Hill, 1919; 1946; 1955)--Station is the front range mark, ranging International Boundary Course 1-2; on Pike's Island in Passamaquoddy Bay, a small island connected to Moose Island by a pebble jetty that is not covered by high tide. It is about 1 mile NW of Eastport.

Station mark is a standard range mark.

RANGE MARK 8-46 (Maine, Washington County; J. Hill, 1919; 1946; 1954)--Station is the back range mark, ranging International Boundary Course 1-2; on Moose Island in Passamaquoddy Bay, about  $\frac{1}{4}$  mile N of the NW corner of Eastport. The station is on the NW slope of a high rocky hill known as the Battery, and about 100 meters NW of the highest knob of the hill.

Station mark is a 12-foot range mark, built similar to the standard range marks.

RANGE MARK 17-46 (New Brunswick, Charlotte County; J. Hill, 1919; 1946; R.K.L. 1954)--Station is the front range mark (a standard range mark), ranging International Boundary Course 5-6; on the S side of Cherry Island in Passamaquoddy Bay, about a mile NE of Eastport. Station is near the Cherry Island Bell Tower.

RANGE MARK 18-46 (New Brunswick, Charlotte County; J. Hill, 1919; 1946; R.K.L. 1954)--Station is the back range mark, ranging International Boundary Course 5-6, and is located on Thrumcap Island in Passamaquoddy Bay, about a mile NE of Eastport, Me. The station is N of the center of the island, W of the highest point on the island, and about 60 feet above the water.

Station mark is a standard range mark.



RANGE MARK 12-46 (New Brunswick, Charlotte County; J. Hill, 1919; 1946; 1955)--Station is the back range mark, ranging International Boundary Course 2-3, and is located on Campobello Island, about one mile N of Welshpool, N.B. The station is on top of the plateau on the island, in an open field 200 meters back from the W shore, and about 15 meters NE of RANGE MARK 16, and 16.6 meters from station CAMPOBELLO.

Station mark is a standard range mark.

CAMPOBELLO (U.S.C. & G.S.) (New Brunswick, Charlotte County; T.C. Mendenhall, 1893; 1919; 1946; 1955)--On the W side of Campobello Island, about 200 meters from the Friar Roads shore, about 7/8 mile N of Welshpool, and opposite Eastport, Me. The station is 3.476 meters SW of RANGE MARK 16.

Station mark is a bronze bolt set in lead in a drill hole in the rock.

A bronze reference disk is set 4.42 meters WSW of the mark.

CHERRY ISLAND RANGE MONUMENT (U.S.C. & G.S.) (New Brunswick, Charlotte County; T.C. Mendenhall, 1893)--This monument is in the southern part of Cherry Island, which lies in Friar Roads, about a mile NE of Eastport and about 300 meters S of Indian Island. The Thrumcap monument, Cherry Island monument, and lighthouse are in range, and two drain pipes are planted on the same line, 6.2 meters and 9.7 meters, respectively, to the northward of the Cherry Island monument.

CHERRY ISLAND BELL TOWER (U.S.C. & G.S.) (New Brunswick, Charlotte County; W.M. Steirnagle, 1910; 1913)--On the SW point of Cherry Island, about 1/4 mile S of the SE point of Indian Island, about 1 mile SE of the southern extremity of Deer Island, and about a mile E of Eastport, Me. The point of the tower determined was the bell on top of the small red box or house that surmounts the whole structure. Lost; replaced. (See CHERRY ISLAND TOWER).

CHERRY ISLAND TOWER (New Brunswick, Charlotte County; J. Hill, 1919; 1946; 1955)--On the southern end of Cherry Island in Passamaquoddy Bay, about 1 mile NE of Eastport, Me., and about 300 meters S of Indian Island. The station is a white tower about 8 meters in height, constructed by the Canadian Lighthouse Service in 1914 as an aid to navigation, and is on the same site as CHERRY ISLAND BELL TOWER, the U.S.C. & G.S. station of 1910. RANGE MARK 17 is 16 meters to the NW of the station. There is a fog bell on a wooden frame beside the tower. (See CHERRY ISLAND BELL).

Station mark is the pinnacle of the tower.



CHERRY ISLAND BELL (New Brunswick, Charlotte County; J. Hill, 1919; 1946)--On Cherry Island, Passamaquoddy Bay. (See CHERRY ISLAND TOWER).

Station mark is the center of the fog bell beside the Cherry Island tower.

CHERRY ISLAND REFERENCE MARK (New Brunswick, Charlotte County; A. J. Brabazon, 1913; 1919)--On Cherry Island, Passamaquoddy Bay, near Cherry Island tower and RANGE MARK 17. (See CHERRY ISLAND TOWER). The station is 23.23 meters SE of RANGE MARK 17.

Station mark is a bronze disk set in a drill hole in exposed rock.

RANGE MARK 15-46 (New Brunswick, Charlotte County; J. Hill, 1919; 1946; 1955)--Station is the front range mark, ranging International Boundary Course 4-5, and is located on Campobello Island in Passamaquoddy Bay, about one mile N of Welshpool, N.B. The station is on a 20-foot bank, about 30 meters inland from the W shore of the island.

Station mark is a standard range mark.

RANGE MARK 16-46 (New Brunswick, Charlotte County; J. Hill, 1919; 1946; 1955)--Station is the back range mark, ranging International Boundary Course 4-5, and is located on Campobello Island in Passamaquoddy Bay, about a mile N of Welshpool, N.B. The station is on the high plateau about 200 meters inland from the W shore of the island, about 15 meters SW of RANGE MARK 12, and 3.476 meters NE of station CAMPOBELLO.

Station mark is a standard range mark.

EASTPORT, WEATHER BUREAU FLAGSTAFF (Maine, Washington County; J. E. McGrath, 1913; 1946)--Station is the flagstaff at the NW corner of the large square cupola atop the U.S. post office in Eastport, Me.

DOG ISLAND (Maine, Washington County; Dr. W. F. King, 1894; 1946)--Station lost.

NORTH GABLE, RED ROOF BARN (U.S.C. & G.S.) (Maine, Washington County; J. H. Hawley, 1918; 1946)--Probably lost.

KENDALL POINT (Maine, Washington County; Dr. W. F. King, 1894; 1946) On Kendall Head, Moose Island, Passamaquoddy Bay. No old description available. A  $\frac{1}{2}$ -inch bolt, 4 inches high, was recovered below high-water level about 10 feet, and about 30 feet outside high-water line, but survey work needed to know whether it is station or not.

KENDALL FISH HOUSE (U.S.C. & G.S.) (Maine, Washington County; T. C. Mendenhall, 1893; 1946)--Station lost.



EASTPORT WEATHER BUREAU, BLACK SIGNAL POLE (Maine, Washington County; J.E. McGrath, 1913; 1946)--Station is the pole, now painted aluminum, on the SW corner of the large square cupola atop the U.S. Post Office Building in Eastport, Me.

EASTPORT SELWOOD FACTORY STACK (Maine, Washington County; J.E. McGrath, 1913; R.A.G., 1946)--Station lost.

EASTPORT VENTILATOR, WEST GABLE (U.S.C. & G.S.) (Maine, Washington County; T.C. Mendenhall, 1893; 1946)--Station lost.

EASTPORT SEACOAST FACTORY NO. 2, CHIMNEY (Maine, Washington County; J.E. McGrath, 1913; 1946)--Station lost.

EASTPORT SEACOAST FACTORY NO. 4, CHIMNEY (Maine, Washington County; J.E. McGrath, 1913; 1946)--Station lost.

EASTPORT SEACOAST COMPANY IRON STACK (Maine, Washington County; J.E. McGrath, 1913; 1946)--Station lost.

EASTPORT WEATHER BUREAU, NATIONAL FLAGSTAFF (Maine, Washington County; J.E. McGrath, 1913; 1946)--Station is the largest flagstaff atop the U.S. Post Office Building in Eastport, Me.

CLARK LEDGE BEACON (Maine, Washington County; 1913; 1946)--Located about  $\frac{3}{4}$  mile N of the Eastport post office, about 200 meters E of Moose Island, on Clark Ledge in Passamaquoddy Bay.

Station mark is the Clark Ledge Beacon, consisting of a small keg atop a steel pole.

EASTPORT STANDPIPE (U.S.C. & G.S.) (Maine, Washington County; W.M. Steirnagle, 1910; 1946; 1955)--Station is the standpipe on the highest hill in Eastport, Me., about 50 meters W of the high school building.

EASTPORT CATHOLIC CHURCH SPIRE (U.S.C. & G.S.) (Maine, Washington County; W.M. Steirnagle, 1910; 1913; 1935; 1946)--The most northwesterly of the three prominent spires in Eastport, Me. The church is on the corner of Washington and Chapel Streets.

Station mark is the top of the dark-colored spire on the W gable of the church.

EASTPORT SALT WORKS BRICK CHIMNEY (Maine, Washington County; J.E. McGrath, 1913; 1946)--Station is the chimney at the N end of the factory, now known as the Eastport Fertilizer Works, on the eastern shore of Prince Cove,  $\frac{1}{2}$  mile S of Eastport, Me.

DOG ISLAND RANGE MONUMENT (U.S.C. & G.S.) (Maine, Washington County; T.C. Mendenhall, 1893; 1935; 1946)--Station is lost.



**EASTPORT CONGREGATIONAL CHURCH SPIRE (U.S.C. & G.S.)** (Maine, Washington County; W.M. Steirnagle, 1910; 1913; 1935; 1946)--A tall, slender spire, similar in shape to the Catholic spire, on the W side of the street near the middle of the block, about a block W of the post office and a block and a half S. The spire and church are painted white. A clock is at the base of the spire.

**EASTPORT UNITARIAN CHURCH SPIRE (U.S.C. & G.S.)** (Maine, Washington County; W.M. Steirnagle, 1910; 1913; 1935; 1946)--A tall, irregular-shaped spire capped by a small dome and vane, a block and a half S and a half block W of the Congregational Church. The church is on the S side of the street and the tower on the N end. The church and spire are painted white, the dome or the top of the spire being yellow.

**CABLE CROSS MONUMENT (U.S.C. & G.S.)** (Maine, Washington County; T.C. Mendenhall, 1893; 1946)--Station lost.

**CABLE CROSS HOUSE (U.S.C. & G.S.)** (Maine, Washington County; T.C. Mendenhall, 1893; 1946)--The rear mark of the cable crossing range line and the most northerly window on the E face of the first building N of the schoolhouse in the southerly outskirts of Eastport, about 200 meters NW of "RANGE MARK 30".

**BUCKMAN (U.S.C. & G.S.)** (Maine, Washington County; W.M. Steirnagle, 1910; 1913)--On the W side of Friar Road, on Buckman Head, which is the SE corner of Moose Island, and about  $\frac{1}{4}$  mile S of the southern extremity of Eastport. The station is on a small ledge 2.3 meters E of its western edge. It is about 45 meters NE of James Davis' house and 4 meters from his fence.

Station mark is a standard bronze disk wedged in a drill hole in a boulder.

A standard bronze reference disk set in an irregular mass of concrete, with the arrow pointing toward the station, is 31.63 meters from the station, and in range with the tall black stack of Seacoast factory No. 4 and the chimney of L.L. Clark's factory. The reference mark is 0.45 meter from the Davis' fence and 23 meters E of the center of the walk on High Street. The station could not be found in 1919.

Station not recovered by Maine Geod. S. in 1935 or by N.W.S. in 1946. Considerable blasting in this vicinity in recent years.

**RED (U.S.C. & G.S.)** (Maine, Washington County; J.H. Hawley, 1918)--Station is the E gable of the eastern one of two red-roofed buildings on a small wharf in Johnson's Cove, Western Passage.

**EASTPORT REFERENCE MARK** (Maine, Washington County; A.J. Brabazon, 1913; 1919; 1946; 1955)--On Moose Island in Passamaquoddy Bay,



in the northern part of Eastport, about 650 meters SW of Dog Island, and about 225 meters N of the N line of the large cemetery that lies on both sides of the N-S road. The station is about 70 meters W of N from the intersection of this road and an E-W road, with a granite stone marking the site of the old Moose Island meeting house of 1794 and a store between the intersection and the station, the building being about 50 meters distant. The station is on high ground, but is not the highest ledge in the vicinity.

Station mark is a bronze station disk set in a drill hole in a flat outcropping ledge in a field.

**EASTPORT MONUMENT (U.S.C. & G.S.)** (Maine, Washington County; T.C. Mendenhall, 1893)--This range monument stands on the heights in the northwestern outskirts of Eastport, on a small saddle 140 meters NW of the highest knob, and about 30 feet lower in elevation. On the range line two drain-pipes are placed, one 9.5 meters N and the other 8.7 meters S of the center of the monument. The drill hole marking the triangulation station is 5.4 meters from the center of the monument and is slightly to the westward of the range line.

Not recovered in 1946. Drill hole probably still there. This is not in the same position as "RANGE MARK 8."

**RANGE MARK 13-46** (Maine, Washington County; J. Hill, 1919; 1946; 1955)--Station is the front range mark, ranging International Boundary Course 3-4, and is located on Dog Island in Passamaquoddy Bay off the NW corner of the main part of Moose Island, about  $\frac{3}{4}$  mile N of Eastport, Me. The station is on a rocky knob projecting into the bay from the northern part of the E side of the island and is flooded by high tide. Dog Island is a point on Moose Island at low tide.

Station mark is a specially constructed range mark,  $4\frac{1}{2}$  feet high, set on a flared base.

**DOG ISLAND LIGHT** (Maine, Washington County; N.W. Smith, 1946; 1955)--Station is the center of the light near the apex of the lighthouse on the highest part of Dog Island in Passamaquoddy Bay, near shore of Moose Island,  $\frac{3}{4}$  mile N of Eastport, Me, about 12 meters from RANGE MARK 13.

**RANGE MARK 14-46** (Maine, Washington County; J. Hill, 1919; 1946; 1954)--Station is the rear range mark, ranging International Boundary Course 3-4, and is located on Todds Head, E side of Moose Island in Passamaquoddy Bay,  $\frac{3}{8}$  mile N of Eastport, Me. A white line is painted on the Seacoast Canning Company's factory building No. 2 to use as a back range, as this rear range is hidden by the factory.

Station mark is a standard range mark.



**RANGE MARK 19-46** (Maine, Washington County; J. Hill, 1919; 1946; 1955)--Station is the front range mark, cross ranging International Boundary Turning Point No. 6, and is located on the NE side of Buckman Head on Moose Island in Passamaquoddy Bay. The station is in the southern edge of Eastport, Me., and about 60 meters from the water's edge, in open ground.

Station mark is a standard range mark.

**RANGE MARK 20-46** (Maine, Washington County; J. Hill, 1919; 1946; 1955)--Station is the back range mark, cross ranging International Boundary Turning Point No. 6, and is located on Buckman Head on Moose Island in Passamaquoddy Bay. The station is on the southern edge of Eastport, Me., and about 170 meters W of the shore, on high, flat, open ground.

Station mark is a standard range mark.

**HEAD** (Maine, Washington County; J. E. McGrath, 1913; 1919; 1935; 1946; 1955)--On Passamaquoddy Bay, on Buckman Head in the southern part of Eastport, Me. The station is 3 meters from the rocky point of the top of the headland from which the descent to the beach is almost vertical. Range mark 29 is N 51°26'W, 24.1 meters from the station.

Station mark is the shank only of a bronze disk set in a drill hole in the ledge.

**ESTY (U.S.C. & G.S.)** (Maine, Washington County; C. O. Boutelle, 1861; 1946)--On the summit of the most southerly knoll on the SW point of Moose Island in Passamaquoddy Bay, 0.1 mile W of Estes Head, and 1.1 miles SW of Eastport, Me. The station is at the southern end of a long, narrow strip of ledge running S from the summit, and about 2 feet lower than the summit. It is 4.7 meters S of the summit, and 3 meters E of the edge of a very steep slope to the westward.

Station mark is a  $\frac{1}{2}$ -inch drill hole, 1 inch deep within a 7-inch triangle cut in the rock.

**BUCKMAN HEAD REFERENCE MARK** (Maine, Washington County; A. J. Brabazon, 1913; 1919; 1955)--On the NE side of Buckman Head on Moose Island in Passamaquoddy Bay, in the southern edge of Eastport, Me. The station is about 80 feet E of RANGE MARK 19, about 120 feet from the bay, and on the line from RANGE MARKS 19 and 20 to Boundary Turning Point No. 6.

Station mark is a bronze disk set in a drill hole in rock. Buried and gone in 1955.

**RANGE MARK 29-46** (Maine, Washington County; J. Hill, 1919; 1946; 1955)--Station is the front range mark, ranging International Boundary Course 8-9, and is located on the W side of Buckman Head on Moose Island in Passamaquoddy Bay. The station is in the southern edge of Eastport, Me., on high, flat, open ground,



and about 25 feet inshore from the top of the high, steep bank.

Station mark is a standard range mark.

RANGE MARK 30-46 (Maine, Washington County; J. Hill, 1919; N.W.S., 1946; 1955)--Station is the back range mark, ranging International Boundary Course 8-9, and is located NW of Buckman Head on Moose Island in Passamaquoddy, on high, open flat ground in the southern edge of Eastport, Me. The station is on solid rock and about 430 feet N of RANGE MARK 29.

Station is marked by a standard range mark.

GOVE (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1886; 1913; 1935; 1946)--On the summit of the highest ledge on top of a hill about  $\frac{3}{8}$  mile from the N end of Seward Neck, Cobscook Bay; about 3 miles directly W of Eastport, Me., on a farm belonging to C.S. Pike. The station is about 500 feet W of the cellar of the old Gove house, which is about 100 feet S of a large grove of spruce and beech trees. The old neck road is about 400 feet E of the station, but at this point is enclosed in the pasture, the new road leading to beach being farther N. A heavy growth of trees cuts the view to the N. Otherwise hill is bare.

Station mark is a 3-inch U.S.C. & G.S. bronze station disk set in a concrete block 5 inches square and  $1\frac{1}{2}$  inches high on the highest ledge which extends N and S across the crown of the hill. One reference is a drill hole, from which marker has been removed, in a stovepipe filled with concrete set 19.17 meters southward, and projecting about 6 inches above ground, in an open field. A drill hole is in a triangular projecting ledge 12 by 12 by 18 inches and 10 inches high, 13.62 feet W of the station. A 2-foot cairn is built over the station.

#### PASSAMAQUODDY BAY SOUTH OF EASTPORT

TREAT (U.S.C. & G.S.) (Maine, Washington County; C.O. Boutelle, 1860; 1893)--On the highest point of Treat Island in Passamaquoddy Bay, 2 meters from the remains of an old stone wall.

Station mark is a drill hole inside a circle cut in the ledge.

Not recovered in 1893.

FRIARS HEAD (U.S.C. & G.S.) (New Brunswick, Charlotte County; C.O. Boutelle, 1860; 1893; 1955)--On Friars Head, on W side of Campobello Island, about 1 mile NE of Lubec, Me., on the NE side of the highest part of the knob, facing Treat Island, and on the S side of a small fissure in the ledge. Recovered in 1955, E of the remains of the old pavilion, about 15 feet



N of the highest point on the knob, 18.4 feet from the 18-inch iron pin at NE corner of old pavilion, 21.6 feet from SE corner pin, and 27.9 feet NE of a drill hole 2 inches deep in open ledge SE of the pavilion.

Station mark was a drill hole in the ledge, with a wooden pin in the hole. Not recovered in 1893. A drill hole 3 inches in diameter and 5 inches deep in a small outcropping ledge 15 inches in diameter, with a fissure in the ledge about 6 inches E of station on line to several other outcrops, was recovered in 1955 and the disintegrated wooden plug removed.

FRIARS HEAD 2 (U.S.C. & G.S.) (New Brunswick, Charlotte County; T.C. Mendenhall, 1893; 1910; 1946; 1955)--On Friars Head on W side of Campobello Island about 1 mile NE of Lubec, Me., 20 meters SE of the old pavilion, on the southern edge of the highest part of the knob. Recovered in 1955 near the SE corner of the highest part of the knob, SE of the remains of the old pavilion, about 20 feet S of the highest point of the knob, 15 feet westerly from a higher outcrop, on a small outcrop about flush with the nearby ground. Station is 4 inches from the grass on the side of outcrop toward the old pavilion site, 28.1 feet SE of the SE pavilion pin, 36.35 feet southerly from FRIARS HEAD, 15.05 feet SE of a drill hole 2 inches deep on open ledge SE of old pavilion.

Station mark is a copper bolt set in a drill hole in the outcropping ledge. Recovered as described in 1946. There is a cross in the top of the station bolt, 1955.

TREAT 2 (U.S.C. & G.S.) (Maine, Washington County; T.C. Mendenhall, 1893; 1918; 1919; 1946)--On the highest point on Treat Island in Passamaquoddy Bay, which is about 5/8 mile S of Moose Island, and a mile N of Lubec. The station is in a small depression in the ledge, about 3 inches in diameter and 1 inch deep.

Station mark is a bronze bolt set in a drill hole in the depression in the ledge and projecting 1½ inches above the rock. The references are a white gravestone about 50 meters N, an old iron cannon about 25 meters E, and a bronze disk set in a drill hole in the ledge near its base and about 15 meters on approximate line to station "CAMPOBELLO".

COMSTOCK 1 (U.S.C. & G.S.) (Maine, Washington County; C.O. Boutelle, 1860; 1861; 1946)--On the point on W side of Seward Neck that is directly S of Shackford Head on Moose Island, and about a mile N of North Lubec.

Station mark is a stake in a cairn. Not recovered in 1946.

COMSTOCK 2 (U.S.C. & G.S.) (Maine, Washington County; C.O. Boutelle, 1861; 1946)--On the W side of Seward Neck opposite



the N end of Treat Island, near the North Lubec Landing, about  $\frac{3}{4}$  mile N of North Lubec.

Station mark is a stake in a cairn. Not recovered in 1946.

ROGER (U.S.C. & G.S.) (Maine, Washington County; F.P. Weber, 1861; 1946)--On the easterly and larger of the Rodgers Islands, a quarter mile E of North Lubec, at the western entrance to Johnson Cove, which is on the W side of Lubec Neck and E of Seward Neck.

Station mark is a drill hole in rock. Not recovered in 1946.

STURGESS HOUSE (U.S.C. & G.S.) (New Brunswick, Charlotte County; D.B. Wainwright, 1893)--On Campobello Island, a little more than  $1\frac{1}{2}$  miles SE of the Welchpool Landing Wharf.

FRIARS HEAD 3 (U.S.C. & G.S.) (New Brunswick, Charlotte County; W.M. Steirnagle, 1910; 1919; 1946; 1955)--On the prominent head of that name on the W side of Campobello Island, about 1 mile NE of Lubec, Me. Near the W end of the prominent knob, on the W side of the remains of the Friars Head pavilion, distant 5.13 meters from its SW corner and 5.65 meters from its NW corner. In 1955, distance to 18-inch iron pin at SW corner is 17.95 feet and to NW pin is 19.5 feet. Iron pins in corners of old pavilion are 16.5 feet N and S and 22.75 feet E and W. Station is on the only outcropping ledge directly W of the pavilion in a 2-inch-deep depression near the northern edge of the outcrop, covered when found. Distance to Friars Head 2 is 61.0 feet. A drill hole in rock is 13.67 feet SE of iron pin at SE corner of pavilion. (See FRIARS HEAD and FRIARS HEAD 2).

Station mark is a bronze bolt set in a drill hole in the rock. A rough 4-inch cross, cut in rock, bears SE 16.61 meters and a 4-inch letter "V", cut in a small sloping face of rock, bears S 15.16 meters distant. Bolt projects  $\frac{1}{2}$  inch in 1955.

GULL (Maine, Washington County; J. Hill, 1919; 1936; 1946)--On a rocky island in Passamaquoddy Bay known as Gull Rock, and is located on the highest point of the island, about  $1/5$  mile W of Treat Island, and  $1/3$  mile N of Dudley Island.

Station mark is a shallow drill hole in the solid rock, inclosed in a 6-inch chiselled square. There are 4 spikes to hold guy wires around the station.

DUDLEY (Maine, Washington County; J. Hill, 1919; 1936)--On Dudley Island, Passamaquoddy Bay,  $\frac{3}{4}$  mile N of Lubec, Me., and off the SW corner of Treat Island to which it is connected at low tide. The station is a little NE of the highest part



of the island. This should not be confused with a station of the Army Engineers on this island.

Station mark is a small cross cut in solid rock.

SCULPIN (Maine, Washington County; J.E. McGrath, 1913; 1919)-- Station lost through excavations in connection with the tidal project on the bay.

SMALL BAPTIST CHURCH CHIMNEY (U.S.C. & G.S.) (Maine, Washington County; C.O. Boutelle, 1860; 1946)-- Station lost.

BELLO (New Brunswick, Charlotte County; J.E. McGrath, 1913; 1919)-- On the S end of Campobello Island, at the entrance to Passamaquoddy Bay, on the point of shore about 300 meters W of Liberty Point. The station is on the flat top of a pyramidal ledge of granite and is S 11°22'W, 6.2 meters from the RANGE MARK 47.

Station mark is a bronze disk set in a drill hole in the ledge.

ALDER (New Brunswick, Campobello Island, J.E. McGrath, 1913)-- Station is lost. Stone in which the tablet was placed is about 43 feet from RANGE MARK 37, but is loose and has moved.

NORTH LUBEC HOTEL CHIMNEY (Maine, Washington County; J.E. McGrath, 1913; 1946)-- Station lost.

LUBEC STANDPIPE (U.S.C. & G.S.) (Maine, Washington County; W.M. Steirnagle, 1910; 1946; 1955)-- Station is the center of the tall, slender standpipe about 1.65 miles SW of the post office in Lubec, Me., 0.3 mile NE of the Seward Neck (North Lubec) road, 30 meters NW of the Lubec-Whiting road (State Highway 189).

RAMSDELL'S HOUSE CHIMNEY (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1886; 1946)-- Station lost.

PLASTER MILL CHIMNEY (U.S.C. & G.S.) (Maine, Washington County; C.O. Boutelle, 1860; 1946)-- Station destroyed.

LUBEC LOWER CHURCH SPIRE (Maine, Washington County; J.E. McGrath, 1913; 1946; 1955)-- Station is the spire on the SW corner of the First Baptist Church in the town of Lubec, Me.

LUBEC SCHOOL FLAGPOLE (Maine, Washington County; J.E. McGrath, 1913; 1946)-- Station lost.

EAST BEACON (U.S.C. & G.S.) (Maine, Washington County; C.O. Boutelle, 1860; 1946)-- Station lost.



FLAGSTAFF (U.S.C. & G.S.) (Maine, Washington County; 1883; 1946)--Station lost.

CARRYING PLACE CHURCH (U.S.C. & G.S.) (Maine, Washington County; C.O. Boutelle, 1860; 1946)--Station lost.

RANGE MARK 21-46 (Maine, Washington County; J. Hill, 1919; 1946; 1954)--Station is the front range mark, cross ranging International Boundary Turning Point No. 7, and is located on the E side of Treat Island in Passamaquoddy Bay, about a mile N of Lubec, Me. The station is about 20 meters from the shore. Some cutting was necessary to open the range in 1946.

Station mark is a standard range mark.

RANGE MARK 22-46 (Maine, Washington County; J. Hill, 1919; 1946; 1954)--Station is the back range mark, cross ranging International Boundary Turning Point No. 7, and is located a little S of the summit of Treat Island in Passamaquoddy Bay, about a mile N of Lubec, Me. The station is 49.2 meters S of station "TREAT 2", which is on the summit of the island.

Station mark is a standard range mark.

RANGE MARK 31-46 (Maine, Washington County; J. Hill, 1919; 1936; 1946; 1954)--Station is the front range mark, ranging International Boundary Course 9-10, and is located on the SW side of Treat Island in Passamaquoddy Bay, a mile N of Lubec, Me., on open ground.

Station mark is a concrete range mark, on standard pattern but considerably lower. This range mark replaced the standard range mark in 1936 and is off center. The center of the range is marked by a drill hole in the top of the range mark. A wooden superstructure is erected over the center and painted white.

RANGE MARK 32-46 (Maine, Washington County; J. Hill, 1919; 1946; 1954)--Station is the back range mark, ranging International Boundary Course 9-10, and is located on the W side of Treat Island in Passamaquoddy Bay, a mile N of Lubec, Me. The station is on a high rock bluff near the shore.

Station mark is a standard range mark.

RANGE MARK 23-46 (Maine, Washington County; J. Hill, 1919; 1946; 1954)--Station is the front range mark, ranging International Boundary Course 6-7, and is located 20 meters S of the N end of Popes Folly Island in Passamaquoddy Bay, 3/8 mile N of Lubec, Me. It is surrounded by brush and needs cutting out every few years.

Station mark is a standard range mark.



**RANGE MARK 24-46** (Maine, Washington County; J. Hill, 1919; 1946; 1954)--Station is the back range mark, ranging International Boundary Course 6-7, and is located near the center and highest point of Pope's Folly Island in Passamaquoddy Bay, 3/8 mile N of Lubec, Me. The mark was entirely obscured by brush in 1946 and needs cutting out every few years. Brush removed in 1946.

Station mark is a standard range mark.

**LUBEC CHURCH SPIRE** (Maine, Washington County; C.O. Boutelle, 1861; 1919; 1935; 1946; 1955)--Station is the most prominent spire in Lubec, Me., the white spire on the E gable of the Congregational Christian Church.

Station is on International Boundary Course 6-7, together with RANGE MARKS 23 and 24.

**POPE** (Maine, Washington County; J.E. McGrath, 1913; 1919; 1946)--On Pope's Folly Island, Passamaquoddy Bay, 3/8 mile N of Lubec, Me. The station is on a rocky ledge near the N end of the island, just outside the tree line, and is N 72°57'E, 13.0 meters from RANGE MARK 23.

Station mark is a bronze disk set in a drill hole in the ledge. In 1919 the disk was gone, but the drill hole was recovered.

**FOLLY** (Maine, Washington County; J.E. McGrath, 1913; 1919; 1946)--On Pope's Folly Island, Passamaquoddy Bay, 3/8 mile NE of Lubec, Me. The station is 6.5 meters inland from the precipitous face of the SE end of the island.

Station mark is a nailhead set in the top of a concrete-filled drain tile placed flush with the ground and set in a mass of concrete.

Not recovered in 1946 due to heavy underbrush and station probably covered by earth.

**GRASSY POINT** (New Brunswick, Charlotte County; J.E. McGrath, 1913; 1955)--On the outer grassy knob of what is locally known as De Wades Point, the first point below Friars Head, W side of Campobello Island. The station is 11.3 meters from the shore and on an exposed surface of rock, and is marked by a United States and Canada Boundary Survey brass station mark set in a hole drilled in the rock. Covered by rock pile in 1955.

**BREAKWATER 2** (Maine, Washington County; J. Hill, 1919; 1935; 1946; 1955)--On Passamaquoddy Bay, on the Lubec breakwater, near the center of the top surface of the fifth granite block from the outer end, and 3.4 meters from RANGE MARK 27. This mark has been moved by floating ice, hence position lost.

Station mark is a bronze disk set in a drill hole in rock.



Same mark as BREAKWATER 1913, but had moved some in 1919 and several times since.

CHAMBERS (New Brunswick, Charlotte County; J.E. McGrath, 1913; 1919; 1946; 1955)--On the W coast of Campobello Island, Passamaquoddy Bay, on a point  $\frac{1}{4}$  mile N of Mulholland Point Lighthouse, and about  $\frac{1}{3}$  mile NE of Lubec, Me. The station is on a bare ledge S  $18^{\circ}40'W$ , 57.1 meters from RANGE MARK 25.

Station mark is a small U.S. & C.B. bronze disk set in a drill hole in the rock.

CHARLEY (New Brunswick, Charlotte County; J.E. McGrath, 1913; 1919; 1946; 1955)--On the W coast of Campobello Island, Passamaquoddy Bay, on Charley's Point opposite Lubec, Me. The station is 3 or 4 meters back from the edge of the bluff and is N  $86^{\circ}15'W$ , 7.6 meters from RANGE MARK 33.

Station mark is a nail head set in the top of a concrete filled tile set flush with the ground in a mass of concrete.

Not recovered in 1946. Buried or gone in 1955.

RANGE MARK 25-46 (New Brunswick, Charlotte County; J. Hill, 1919; 1946; 1955)--Station is the front range mark, cross ranging International Boundary Turning Point No. 8, and is located on Campobello Island, N.B., opposite Pope's Folly Island, Me. The station is in brush on a prominent point, about  $\frac{1}{3}$  mile NNE of Lubec, Me. Necessary clearing of brush was done in 1946.

Station mark is a standard range mark.

RANGE MARK 26-46 (New Brunswick, Charlotte County; J. Hill, 1919; 1946; 1955)--Station is the back range mark, cross ranging International Boundary Turning Point No. 8, and is located on a prominent point on the W side of Campobello Island, N.B., opposite Pope's Folly Island, Me. The station is  $\frac{1}{3}$  mile NNE of Lubec, Me., and about 28 meters E of "RANGE MARK 25". Some brush had to be cut in 1946 on line to the turning point.

Station mark is a standard range mark.

RANGE MARK 27-46 (Maine, Washington County; J. Hill, 1919; 1946; 1955)--Station is the front range mark, ranging International Boundary Course 7-8, and is located on solid rock 2 meters NW of the outer end of the Lubec Breakwater on the North-eastern edge of Lubec, Me. Needs rebuilding.

Station mark is a specially constructed range mark  $4\frac{1}{2}$  feet high set on a flared base, and is partly covered at high tide.

RANGE MARK 28-46 (Maine, Washington County; J. Hill, 1919; 1946; 1955)--Station is the back range mark, ranging International Boundary Course 7-8, and is located between the Durgin



Packing House and the "PIKE" building just S of the breakwater in northeastern Lubec, Me. A village dump on open ground N of the station obscures the view toward the course ranged. A picket fence is also in front of the range mark.

Station mark is a 4½-foot range mark built similar to standard range marks. White board put over range in 1955.

LUBEC NARROWS (MULHOLLAND POINT) LIGHT (U.S.C. & G.S.) (New Brunswick, Charlotte County; W.M. Steirnagle, 1910; 1919; 1946; 1955)--Station is the light on Mulholland Point, on the W side of Campobello Island, on the E side of Lubec Narrows in Passamaquoddy Bay, opposite the N end of Lubec, Me.

RANGE MARK 33-46 (New Brunswick, Charlotte County; J. Hill, 1919; 1946; 1955)--Station is the front range mark, cross ranging International Boundary Turning Point No. 9, and is located on Charley's Point, on the W side of Campobello Island, directly across Lubec Narrows from Lubec, Me. The station is on the bluff, 7.6 meters E of "CHARLEY", on property of Henry Mulholland. Top of mark leans S a few inches.

Station mark is a standard range mark.

RANGE MARK 34-46 (New Brunswick, Charlotte County; J. Hill, 1919; 1946; 1955)--Station is the back range mark, cross ranging International Boundary Turning Point No. 9, and is located on Charley's Point, on the W side of Campobello Island, directly across Lubec Narrows from Lubec, Me. The station is on high ground, about 10 meters S of Mr. Henry Mulholland's house, and about 163 meters E of RANGE MARK 33.

Station mark is a standard range mark.

RANGE MARK 35-46 (New Brunswick, Charlotte County; J. Hill, 1919; 1946; 1954)--Station is the front range mark, ranging International Boundary Course 10-11, and is located on W side of Campobello Island, N.B., about 300 meters eastward of Charley's Point, across Lubec Narrows from Lubec, Me. The station is on property of Henry Mulholland, about 25 meters N of the high bank. Some cutting was necessary S of the range mark, in 1946.

Station mark is a standard range mark.

RANGE MARK 36-46 (New Brunswick, Charlotte County; J. Hill, 1919; 1946; 1954)--Station is the back range mark, ranging International Boundary Course 10-11, and is located on the side of a rocky hill on Campobello Island, about 350 meters NE of Charley's Point, across Lubec Narrows from Lubec, Me. Station is in the woods about 144 meters N of RANGE MARK 35. Considerable cutting was done in 1946 to open the vista S from the station.

Station mark is a standard range mark.



TELEGRAPH (Maine, Washington County; J.E. McGrath, 1913; 1946)--About  $\frac{3}{8}$  mile S of Lubec and nearly in line with the great row of telegraph poles leading to that point and beyond. The station is between poles No 256/1148 and 256/1149, and 6.83 feet from the center of the former. The pole numbers increase toward Lubec. The station is marked by a nail inserted in the center of the top surface of a cylinder of concrete contained in a piece of 3-inch drain pipe, set in the ground in concrete.

Not recovered in 1946. Telegraph poles reported gone.

TELEGRAPH, 1919 (Maine, Washington County; J. Hill, 1919)--On E side of Passamaquoddy Bay, about  $\frac{1}{2}$  mile S of Lubec, Me.

Station is unmarked. A reference mark is a copper plug in a rock 170.2 feet NE of the station.

CRANBERRY POINT (New Brunswick, Charlotte County; J.E. McGrath, 1913)--On the point of that name on the SW coast of Campobello Island, and about  $\frac{1}{2}$  mile NE by E,  $\frac{1}{2}$  mile E from the Lubec Channel Light. The station is on a knoll and is marked by a U.S. & C.B. survey brass station mark set in a hole drilled in the rock. Between the station and the Lubec Channel there is an outer line of fairly high granite ledge, which, however, is covered at high water.

RANGE MARK 37-46 (New Brunswick, Charlotte County; J. Hill, 1919; 1946; 1954)--Station is the front range mark, cross ranging International Boundary Turning Point No. 10, and is located on Campobello Island in Passamaquoddy Bay, about  $\frac{1}{5}$  mile NE of Cranberry Point. The station is about 20 meters inshore from the top of the high bank along the bay and in dense brush, which had to be cut in 1946 to make range mark visible from the boundary. Station "ALDER", a nail in concrete, was 170.2 feet distant but had moved some.

Station mark is a standard range mark.

RANGE MARK 38-46 (New Brunswick, Charlotte County; J. Hill, 1919; 1946; 1954)--Station is the back range mark, cross ranging International Boundary Turning Point No. 10, and is located on Campobello Island in Passamaquoddy Bay, about  $\frac{1}{4}$  mile ENE of Cranberry Point, and about 120 meters ESE of RANGE MARK 37. The station is in thick timber, and considerable cutting was required in 1946 to open the view from the station to the boundary.

Station mark is a standard range mark.

RANGE MARK 39-46 (GUNNER) (New Brunswick, Charlotte County; J.E. McGrath, 1913; 1919; 1946; 1954)--Station is the front range mark, cross ranging International Boundary Turning Point No. 11, and is centered over station GUNNER, 1913, on the



top of the SE corner of Cranberry Point on Campobello Island. The station is 6 feet inside of the vertical rock face of the point and close to a "blind" used by gunners in duck shooting, and is about  $2/5$  mile E by N from Lubec Channel Light.

Station mark is a standard range mark.

RANGE MARK 40-46 (New Brunswick, Charlotte County; J. Hill, 1919; 1946; 1954)--Station is the back range mark, cross ranging International Boundary Turning Point No. 11, and is located on Campobello Island, N.B., about 150 meters SE of Cranberry Point, and 43 meters inland from RANGE MARK 39. No cutting was needed in 1946.

Station mark is a standard range mark.

RANGE MARK 46-46 (New Brunswick, Charlotte County; J. Hill, 1919; 1946; 1954)--Station is the back range mark, ranging International Boundary Course 13-14, and is located on Campobello Island in Passamaquoddy Bay, about  $\frac{1}{4}$  mile E of Cranberry Point. The station is in timber, on the eastern edge of the highest point of land, and about 250 meters WNW of Little Duck Pond. Considerable cutting was done in 1946 to open the line from the station to the boundary course.

Station mark is a standard range mark.

RANGE MARK 45-46 (New Brunswick, Charlotte County; J. Hill, 1919; 1946; 1954)--Station is the front range mark, ranging International Boundary Course 13-14, and is located on Campobello Island, N.B., on the S side of a knoll on the point on the eastern side of the entrance to Little Duck Pond from Passamaquoddy Bay. It is directly E from Duck Island. No cutting was required to see the station from the course ranged, but timber is growing up in the rear of the station on line to RANGE MARK 46.

Station mark is a standard range mark.

DUCK (New Brunswick, Charlotte County; J. E. McGrath, 1913; 1919)--In Passamaquoddy Bay,  $1\frac{3}{4}$  miles SE of Lubec, Me., on the innermost and largest of the Duck Islands, lying off the SW coast of Campobello Island and abreast of the mouth of Little Duck Pond. The station is nearly in the center of the face of the island directed towards the United States shore, on a large granite ledge, a little above high water, and 3 meters outside the line of vegetation.

Station mark is a bronze disk set in a drill hole in the ledge.

MAM (Maine, Washington County; J. E. McGrath, 1913; 1919; 1935; 1946; 1955)--On the W shore of Passamaquoddy Bay, about 2 miles below Lubec, Me., and  $\frac{1}{4}$  mile below Woodward Point.



The station is on a ledge of black igneous rock which projects about 6 meters from the earthen bank, and is about 117 meters N of RANGE MARK 43.

Station mark is a bronze disk set in a drill hole in the rock.

Station not recovered in 1935 or 1946. Probably lost in 1955.

RANGE MARK 43-46 (Maine, Washington County; J. Hill, 1919; 1946; 1955)--Station is the front range mark, ranging International Boundary Course 12-13, and is located on the mainland about 1 mile SW of Lubec Channel Lighthouse in Passamaquoddy Bay. The station is in open ground, 0.8 mile N of South Lubec, Me., about 117 meters S of station MAM, not far inside the beach.

Station mark is a standard range mark.

RANGE MARK 44-46 (Maine, Washington County; J. Hill, 1919; 1946; 1955)--Station is the back range mark, ranging International Boundary Course 12-13, and is located on the mainland 0.8 mile N of South Lubec, Me., about 257 meters W of RANGE MARK 43, and about 100 meters W of the road leading S along the bay from Lubec to Quoddy Head.

Station mark is a standard range mark.

LUBEC CHANNEL LIGHTHOUSE FINIAL (U.S.C. & G.S.) (Maine, Washington County; T.C. Mendenhall, 1893; 1919; 1946; 1955)--In the Lubec Channel,  $1\frac{1}{4}$  miles S of Lubec, Me.

Station mark is the finial on the lighthouse.

INDIAN POINT (New Brunswick, Charlotte County; C.O. Boutelle, 1861; 1913; 1919)--On a small rocky islet about  $1/8$  mile S of Campobello Island. At low water, this islet is connected with and forms part of Duck Point. The station is on the highest point of the rocky ledge.

Station mark is a bronze disk, marked "U.S. & C.B. Survey" and set in a hole drilled in the rock.

POND (New Brunswick, Charlotte County; J.E. McGrath, 1913; 1919)--On the S coast of Campobello Island, about  $1/3$  mile to the eastward of Duck Point and just E of a little rounded point on the N shore of Great Duck Pond. The station is 5 meters outside the grass line, on the top of a very irregular mass of igneous rock, 9.3 meters from a large white granite boulder protruding from the sand.

Station mark is a bronze disk set in a drill hole in the rock. Three drill holes in the rock in which ringbolts were placed are, respectively, 1.99 meters, 1.66 meters and 2.14 meters distant from the station.

EAST CAMPOBELLO (G.S. of C.) (New Brunswick, Charlotte County; 1918)--On a high wooded point of Scott Head, Campobello Island,



about  $\frac{3}{4}$  mile NE of Schooner Cove. A road branching off from the Welshpool-Wilson Beech road about 2 miles below Wilson Beach, ends near the eastern shore of the island about  $\frac{4}{5}$  mile S of the station. A trail from a steep cove E of the station has been cut to the station; the sea end of this trail is marked by a conspicuous blaze. The timber was cleared to the S and SE of the station.

Station mark is a bronze disk set in rock at the bottom of a hole 3 feet square and 1 foot deep. A tripod with targets was built over the station.

WEST CAMPOBELLO (G.S. of C.) (New Brunswick, Charlotte County; 1918)--On Owen Head on the SE end of Campobello Island, about 5 miles by water from Lubec, Me. The point on which the station is located has been fairly well cleared of timber to the S and E making the station visible from the sea. A well-marked trail leads to the point, following the edge of the cliff from a small cove with beach about 360 meters to the N.

Station mark is a bronze disk set in a large boulder embedded in soft ground. A tripod signal with high pole and targets was built over the station. Station is referenced by nails in four stumps bearing, respectively, S  $15^{\circ}38'E$ , 4.76 meters distant; S  $58^{\circ}56'W$ , 3.41 meters distant; N  $42^{\circ}41'W$ , 2.53 meters distant; and N  $10^{\circ}40'W$ , 5.12 meters distant from the station.

LIBERTY POINT (New Brunswick, Charlotte County; J.E. McGrath, 1913)--On a bare granite rock just off the SE part of Liberty Point, Campobello Island. The station is marked by a United States and Canada Boundary Survey brass station mark set in a hole drilled in the rock.

ROUND ROCK (New Brunswick, Charlotte County; J.E. McGrath, 1913; 1919)--In the mouth of Passamaquoddy Bay, about  $\frac{1}{4}$  mile W of Liberty Point, on the S end of Campobello Island. The station is on a large rock about  $\frac{1}{2}$  mile offshore, locally known as Round Rock or Black Rock. High tides may sometimes cover the rock.

Station mark is a bronze disk set in a drill hole in the rock.

RANGE MARK 47-46 (New Brunswick, Charlotte County; J. Hill, 1919; 1946; 1954)--Station is the front range mark, cross ranging International Boundary Turning Point No. 13, and is located in southeastern Campobello Island in Passamaquoddy Bay, about 300 meters westward from Liberty Point, and 6.2 meters N of station BELLO. Station is on the flat top of a pyramidal ledge of granite. BELLO is marked by disk in drill hole in ledge.

Station mark is a standard range mark.



RANGE MARK 48-46 (New Brunswick, Charlotte County; J. Hill, 1919; 1946; 1954)--Station is the back range mark, cross ranging International Boundary Turning Point No. 13, located in southeastern Campobello Island, about 60 meters northward from RANGE MARK 47, and about 300 meters westward from Liberty Point. The station is on high ground, in an old growth of timber, but no cutting was necessary in 1946.

Station mark is a standard range mark.

RANGE MARK 41-46 (Maine, Washington County; J. Hill, 1919; 1946; 1954)--Station is the front range mark, ranging International Boundary Course 11-12, located on the N side of West Quoddy Head, near the shore, and about 190 meters E of "LARRABEE". The station is just inside the line of brush and some cutting was necessary to open the range in 1946. The station is near the head of the most easterly cove on the N side of the Head, and is about  $\frac{1}{2}$  mile NW of West Quoddy Head Light.

Station mark is a standard range mark.

RANGE MARK 42-46 (Maine, Washington County; J. Hill, 1919; 1946; 1954)--Station is the back range mark, ranging International Boundary Course 11-12, and is located on the side hill on the N side of West Quoddy Head about a  $\frac{1}{2}$  mile NW of West Quoddy Head Light. The station is about 130 meters SSE, inshore and uphill from RANGE MARK 41, and about 100 meters downhill and N from the road. Station is in dense timber and considerable cutting was required to open the range in 1946.

Station mark is a standard range mark.

QUODDY (U.S.C. & G.S.) (Maine, Washington County; C.O. Boutelle, 1860; 1913; 1935; 1946)--On the S one of the two summits of the hill near the center of the peninsula of West Quoddy Head, about  $\frac{5}{8}$  mile W of the lighthouse, and 200 meters S of the road. The lookout of the United States Coast Guard is on the other summit about 100 meters to the NNW. The station is on a fairly flat part of a bare ledge, about  $2\frac{1}{2}$  meters W of the highest point. Station partly surrounded by small trees.

Station mark is a copper bolt wedged in a drill hole in the rock, and surrounded by a 1.3 foot triangle cut in the rock.

Reference mark is a standard reference disk set in a drill hole in the highest point of the ledge, 2.67 meters distant with arrow pointing to the station. Three eyebolts set in drill holes in the rock form a triangle around the station, one W, 2.69 meters, one SSE 2.38 meters, and one NE, 2.41 meters. The NE bolt is 0.9 meter NW of the reference mark.

To reach the station follow the trail to the Lookout Tower, then S about 100 meters to the summit and station.



**PORCUPINE (U.S.C. & G.S.)** (Maine, Washington County; C.O. Bouteille, 1860; 1913; 1935; 1946)--On a high commanding hill known as Thayer Ledges,  $\frac{1}{2}$  mile NW of Porcupine Mountain, about 3 miles SW of Lubec, and  $\frac{7}{8}$  mile SE of the road from Lubec to Whiting. The station is about 3 meters S of the highest point of the hill. Summit of hill is bare, and view is unobstructed except on the SE side.

To reach the station from Lubec, drive W on highway 189, about 1.9 miles to road leading SSE. Follow SSE about one mile to a sharp turn in the road, and a field road leading in a general SW direction through the blueberry barrens. Follow this road 1 mile to the S side of the hill, and walk N to summit and station.

Station mark is a standard bronze station disk set in a drill hole in a boulder.

**LARRABEE** (Maine, Washington County; J.E. McGrath, 1913; 1919; 1935; 1946)--On the N shore of West Quoddy Head just inside the entrance to Passamaquoddy Bay, on the first point inside the "head". It is at the W side of the first small cove about  $\frac{1}{2}$  mile NW of West Quoddy Light and about 190 meters NW of RANGE MARK 41. The station is about 3 meters below the top of the bluff on the smooth granite ledge protruding from beneath the soil, and is about 2.4 meters outside the top of the earthen bank. Station is about 750 feet NE by E from the old Larrabee house, now owned by John Brown, and just above high tide line.

Station mark is a bronze station disk set in a drill hole in the rock. There are three drill holes in rock, 5.25 feet E by N, 5.60 feet NW by N, and 5.15 feet S from the station.

**LIFE SAVING STATION LOOKOUT TOWER** (Maine, Washington County; J. Hill, 1919; 1946; 1955)--At the entrance of Passamaquoddy Bay, on the highest part of the peninsula that terminates in West Quoddy Head. This is the lookout tower built by the U.S.C.G.S. in 1918, and is about 300 meters SE of their station on the N shore of the peninsula.

Station mark is the apex of the roof.

**WEST QUODDY HEAD LIGHTHOUSE** (Maine, Washington County; J.E. McGrath, 1913; 1918; 1946; 1955)--Station is the finial on the red and white tower on the E end of West Quoddy Head, at the entrance to Passamaquoddy Bay.

**SAIL ROCK** (Maine, Washington County; J.E. McGrath, 1913; 1946)--On the islet called Sail Rock, which is in a mass of rocks lying about  $\frac{1}{4}$  mile SSE of West Quoddy Head Light. The station is on the W one and lower of two high points of the islet, about 25 or 30 meters apart, the only points showing above high water.



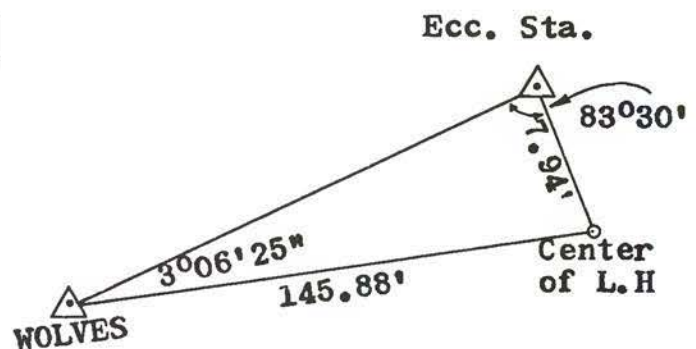
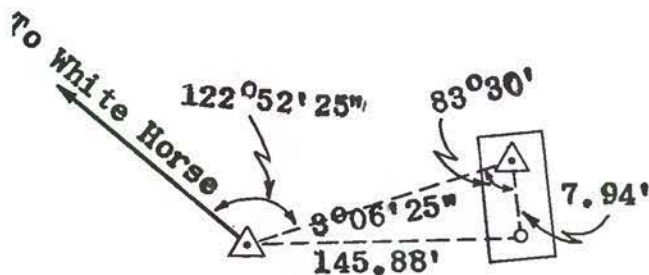
Station mark is a bronze disk set in a hole drilled in the rock.

BISHOP (U.S.C. & G.S.) (New Brunswick, Charlotte County; C.O. Boutelle, 1861; 1884)--Station is lost.

WOLVES (U.S.C. & G.S.) (New Brunswick, Charlotte County; C.O. Boutelle, 1861; 1913; Canadian Geod. S., 1918)--On the southern end of Southwest Wolf Island, SW of the lighthouse. The island is the most southerly of the group known as the Wolves, off the eastern end of the Grand Manan Channel, Bay of Fundy. The point is as shown in sketch, 145.88 feet from the center of the lighthouse tower (the center of the light being 10 to 12 inches off this center), on a rounded outcrop of gray granite. The point is marked by tablet within a triangle but is not referenced. The point is an old one of the U.S.C. & G.S. and found marked by a triangle and small drill hole. An eccentric point was made on the platform of the lighthouse tower. Tripod signal built over the point August 18, 1918. Also called WOLF.

Can be reached by launch from any of the harbors in Passamaquoddy Bay, the closest being Welchpool on Campobello Island from which it is distant about 17 statute miles.

Object	Direction
WHITE HORSE	0° 00' 00".0
Chamcook	7 51 19.4
Mascabin L.H.	12 54 55.5
Bliss Id. L.H.	15 16 28.5
Pea Point, L.H.	33 19 04.8
Swallow Tail, L.H.	240 07 55.3





GRAND MANAN (G.S. of C.) (New Brunswick, 1909; 1917; 1918)-- This is a primary station of the main scheme. Situated on the N end of Grand Manan Island, on the property of Mr. Tatton, who has charge of the fog whistle near it, and is about 4 miles from North Head. North Head is a village on the N part of the island and is reached by steamer Aurora from St. Stephens or St. Andrews or St. John. The geodetic point is marked by a copper bolt sunk in the rock and within the usual triangle. The bolt is not stamped. It is referenced by three arrows with copper bolts at their heads, cut in the rock. A large tripod signal built over the point and the lamp stand removed August 17, 1918.

GRAND MANAN (U.S.C. & G.S.) (New Brunswick, C.O. Boutelle, 1861; 1913)--On a high hill on the NW side of Grand Manan Island, about  $\frac{3}{4}$  mile E of the shore of Dark Harbor. The top of the hill is timbered, and the station is on the NW part of a small plateau. The ledge on which the station is placed is not at all prominent and is lower than a number of more prominent ledges about 50 meters to the E.

Station mark is a  $\frac{3}{4}$ -inch drill hole in the center of a triangle cut in the rock. The triangle has a drill hole at each apex.

SOUTHWEST WOLF ISLAND LIGHTHOUSE (New Brunswick, Charlotte County; G.S. of C., 1918)--Station is the center of the lighthouse on Southwest Wolf Island. The light is about 10 inches eccentric from the center of the lighthouse. The station is on the SW point of the island.

#### WESTERN PASSAMAQUODDY BAY, PEMBROKE TO GRAND MANAN

HERSEY (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1913; 1935; 1946)--On the summit of a hill near the SE end of Hersey Neck, which lies between the Pennamaquan River and East Bay, an arm of Cobscook Bay, and about 3 miles SE of Pembroke. The station is about  $\frac{1}{2}$  mile NW of Garnet Point and about 250 meters from the N shore of the river. The road from Pembroke to Garnet Point is less than 100 meters SW of the station. The station is 5 feet from the SE end of the highest of several ledges on the neck, the ledge being 35 feet by 8 feet, and can be reached by a path from the road. A tower is on its side W of the station.

Station mark is an I.B.C. bronze station disk wedged in a drill hole, within a triangle cut in the rock.

ARCUS (U.S.C. & G.S.) (Maine, Washington County; C.O. Boutelle, 1860; 1913; 1935; 1946)--On Mount Dorcas, a prominent wooded hill near the head of the peninsula leading to Hurley Point,



between Duck Harbor and Dennys Bay, about 1.8 miles E of Dennysville, Me. The intersection of the hard surface road from Dennysville with an E-W road leading to the peninsula is about  $\frac{1}{4}$  mile WSW.

To reach the station walk across an open pasture from this road intersection to the base of Mt. Dorcas, from which a trail leads up the wooded slope nearly to the top.

Station mark is a  $\frac{1}{2}$ -inch drill hole 2 inches deep, within a 12-inch triangle cut in the highest open rock ledge on the hill. The rock is brittle, the triangle is very faint, and the drill hole is now at the bottom of a shallow depression 1 inch square and 1 inch deep.

PEMBROKE BAPTIST CHURCH (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1946)--Located on the hill about 100 meters NW of the triangle in the center of the village of Pembroke, Me.

Station mark is the finial of the tower at the NW corner of the Baptist Church.

PEMBROKE OLD ENGLISH CHURCH (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1946)--On the W side of the paved highway, 0.7 mile NW from the triangle in Pembroke, Me.

Station mark is the finial of the tower on the E end of the church, which is now known as the Iron Works Methodist Church.

PAGE (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1913; 1935; 1946)--On a hill, locally known as Page Mountain, about a mile NE of Dennysville and near the center of the peninsula formed by the forks of the North Branch of Cobscook River. The forks are known as Dennys River and Wilson Stream, and the extremity of the peninsula is called Hinckley Point. The station is on the N summit of the hill, on a prominent bare ledge, and commands an unobstructed view in all directions. The land is owned by Ralph Reynolds. The station is about 200 meters E of the old Dennysville-Pembroke road.

Station mark is a bronze station disk wedged in a drill hole in outcropping bedrock, within a triangle chiselled in the rock, with a 25-foot pole and a cairn over the station. A drill hole in the rock 4.425 meters N is the reference mark.

PEMBROKE (U.S.C. & G.S.) (Maine, Washington County; C.O. Boutelle, 1860; 1946)--Station in marsh. Probably lost.

WILBUR (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1913; 1946)--On the summit of the highest ledge on Wilbur Neck, the long narrow peninsula between the E side of the North Branch of Cobscook River and Youngs Cove. The station is on



the S part of the neck, about 100 meters from the shore of Youngs Cove, and is a hole drilled in the rock and within a circle chiselled in the rock.

DRAM (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1913; 1946)--On the summit ledge of Big Dram Island, which lies in the middle of North Branch of Cobscook River just above its junction with the South Branch. Little Dram Island lies about  $1/3$  mile to the NNW.

Station is marked by a hole drilled in the rock and within a circle chiselled in the rock, and is 17 meters and 12 meters from southerly and northerly ends, respectively, of the ledge.

CAMPBELL (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1913; 1935; 1946)--On a hill in the E part of Pembroke, 0.2 mile SE of the bridge over the Pennamaquan River, and in the angle of U.S. Highway 1 going toward Calais. The station is about 60 feet WSW of the brow of the hill, about 10 feet W of a lone apple tree, 10 feet S of an 8-inch, 20-foot spruce tree, and about 180 feet N of the NW corner of the elongation of the W side of the house on the S slope of the hill.

Station mark is a drill hole in the bare outcropping ledge, is within a 6-inch circle cut in the rock, and is covered by a cairn.

TAYLOR (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1913; 1935; 1946)--On a hill on the W side of Pennamaquan River, about 300 meters from the shore, and 150 meters W of the road from Pembroke. It is about  $1\frac{1}{2}$  miles NW of Pembroke and  $\frac{1}{2}$  mile S of Little Falls bridge. The station is on the summit on land belonging to John Frost and is 145 meters W of his house. It is marked by a hole drilled in the rock and within a circle chiselled in the rock.

Station not recovered in 1935 or 1946. The hill is heavily covered with vegetation, making recovery difficult. In 1946, a Mr. Reynolds, living nearby, said the station was still in existence on the summit of the hill, about 5 rods W of the line fence.

OAK (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1913; 1935; 1946)--On the summit of Oak Hill, a high and prominent hill about  $1\frac{1}{4}$  miles W of the W end of Pembroke,  $1/3$  mile S of the Pembroke-Dennysville road, and about 250 meters E of a branch road running along the W side of the hill. The station is on the highest ledge of the summit and is marked by a drill hole within a triangle cut in the rock and covered by a cairn.



PEMBROKE WASHINGTON HALL (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1946)--Station is destroyed.

PEMBROKE SCHOOL BELFRY (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1946)--Station is destroyed.

IRON WORKS MOUNTAIN (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1913; 1935; 1946)--On the summit of the high rocky hill formerly known as "Pembroke Iron Works Mountain" and formerly the property of that company, but now belonging to Haddon Sprague. It is about 2 miles N of the E end of Pembroke village, about 1 mile E of Pennamaquan River, and about the same distance SW of the road from Eastport and Perry. The station is on top of a 3-foot boulder of granite seamed with quartz, and is marked by a hole drilled in the rock. Hill has spruce and hardwood on it in 1946 and is known as Joneses Mountain.

KEHOE (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1913; 1935; 1946)--On the summit of a rocky hill about  $\frac{1}{4}$  mile NE of the head of Sipps Bay and about  $1\frac{1}{2}$  miles E of Pembroke. It is about 260 meters NE of the Pembroke-Eastport road and about  $\frac{1}{4}$  mile N of the house of Michael Kehoe, the owner of the farm. A wood road leads from Kehoe's house to the base of the ledge on the summit of which the station is located.

Station is marked by a hole drilled in the rock within a circle chiselled in the rock.

DUNN (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1913; 1935; 1946)--On a prominent hill on the E side of North Branch of Cobscook River, about 2 miles E by N from Dennysville, and  $2\frac{1}{2}$  miles S by W from Pembroke. It is on a peninsula formed by the river and Ox Cove and about 150 meters from the shore of the former. The entire hill is densely wooded except a small clearing 100 meters N of the station, with the ruins of an old barn and house on it. The station is on the highest point, near the S end of narrow ledge about 5 meters long and 1 meter wide, and is marked by a bronze disk wedged in a drill hole in a boulder. The ledge in 1946 was completely moss-covered. The clearing in description is at base of hill. About 20 meters S of the station is a small clearing.

RICHARDSON (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1913; 1935; 1946)--On a prominent hill on the W side of the N branch of Cobscook River, about 300 meters from the shore, and  $2\frac{1}{2}$  miles SE of Dennysville. It is on the center of a small peninsula and is about the same distance (300 meters) from the shore in three directions, viz., from the E, S, and N, the latter being the Little Falls River. The



station is on the S side of the highest ledge, a slightly lower one being about 50 meters to the SE, and is about  $\frac{1}{2}$  mile E of the Dennysville-Whiting road. The station is a bronze disk wedged in a drill hole in a boulder. A reference mark, also a bronze disk wedged in a drill hole in a boulder, is 5.39 meters to the N from the station.

The Maine Geodetic Survey recovered the station as described in 1935 and reported it used by A.A.A. In 1946, a C. & G.S. party did not find described station, but found a  $\frac{3}{4}$ -inch iron bolt projecting 1 inch above ground in a ledge which they considered the site of the station. No reference mark was found. Probably not recovered in 1946.

MITCHELL (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1913; 1935; 1946)--Station destroyed.

CANNON (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1913; 1935; 1946)--On a hill about  $1\frac{1}{2}$  miles NW by W of the bridge connecting Moose Island with the mainland, and about 135 meters N of the road from Eastport to Pembroke. The road down to Birch Point (Cobscook Bay) forms a junction with the first-mentioned road about 250 meters farther E. The station is on the highest point of the ledge and is 21.5 feet W of a small boulder. It is marked by a drill hole within a triangle cut in the rock. This station is 6.4 meters N by NE from N end of large boulder. Covered by cairn. Station is in good condition.

BIRCH (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1913; 1935; 1946)--In the S part of Birch Point, Cobscook Bay, on the farm of Herbert Lincoln who lives 300 meters to the NNW, at the end of the road down the point. The station is on a rocky knoll in an open field. The rock is shale, but an outcrop of ledge on the W side of the knoll is somewhat harder and was used for the station point which is marked by a hole drilled in the rock within a circle chiselled in the rock. A reference mark, a bronze disk set in concrete at the center of the top of a tile, is 10.54 meters SE of the station. There is also a small house about 80 meters E of the station.

RED ISLAND (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1886; 1913; 1946)--On Red Island in Cobscook Bay, about  $\frac{3}{8}$  mile S of Lincoln Point. The island is remarkably red in appearance and is about 20 feet above high water. The top on the SW side is denuded of soil and about 10 feet above high water and the station is on this bare rock.

Station mark is a bronze station disk set in the red ledge, in a concrete collar 2 inches high. A broken tile filled with concrete is 8.67 meters easterly from the station.



RAZOR ISLAND (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1886; 1913; 1946)--On a small island of that name lying in Cobscook Bay, about  $\frac{1}{2}$  mile WSW from the NW point of Seaward Neck and about 1 mile E of Youngs Point of Denbow Neck. The station was originally marked by a pine post 12 feet long and 10 inches in diameter, and a drill hole in a projecting stone 6 inches from the center of the post and on its W side. In 1913 only a drill hole was found, and according to the observer the only way a post could have been placed and be 6 inches from the drill hole is to the S. So a bronze disk station mark, centered in a drain tile filled with concrete, was placed 6 inches from the drill hole, and projects about 6 inches from the ground. The base alone remains. A broken drain tile filled with concrete 11.18 meters E of the station.

COOPER (U.S.C. & G.S.) (Maine, Washington County; J.H. Hawley, 1918; 1946)--On the highest point of rounding knoll on Cooper Point. The top of the hill is covered with brush and grass, and hill is composed of dirt and loose rock over the ledge.

Station is marked by a bronze station mark set in concrete in the ledge and set flush with the ground.

Reference mark 1 is a bronze disk reference mark, with arrow pointing towards the station, set in concrete in out-cropping ledge.

Reference mark 2 is a witness mark, a triangular blaze with nail driven at each apex, cut on side of spruce tree facing the station.

Object	Distance	Direction
EASTPORT CONG. CHURCH		
SPIRE	meters	0° 00' 00".0
R.M. 1 SSE	41.6	118 51
R.M. 2 E	21.9	92 18
Not recovered in 1946.		

DENBOE (U.S.C. & G.S.) (Maine, Washington County; C.O. Boutelle, 1861; 1935; 1946)--At the end of the road leading down Denbows Neck, on a high rocky knoll 150 meters back of Mark Leighton's house and near its N extremity. The station is marked by a bolt in the rock. Not recovered in 1935 or 1946.

CASE (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1886; 1913; 1935; 1946)--On the highest part of a bare ledge on Denbows Neck, about 1 mile S of Denbows Point, which is the northern extremity of the neck, and about 150 meters E of the road along the neck. The station is on the farm of Solomon Case, whose house is on the W side of the road, and about 150 meters SW of the station. In 1913 several drill holes were found, but the one marking the station was not identified. In 1946, one drill hole only was found on the summit of the



hill, which was probably the station but needs further work for a positive identification.

POINT LEIGHTON (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1913; 1935; 1946)--Near the S end of Leighton Point, which is on the N side of Cobscook River and near its mouth. The station is on the summit of a small rocky knoll near the terminus of the road from Pembroke and is marked by a hole drilled in the rock within a circle chiselled in the rock. A cottage is 225 meters SE of the station, at the tip of the point.

WILLIAM L (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1913; 1935; 1946)--On a hill near the center of the peninsula lying between East Bay and Lincoln Cove (Cobscook Bay), about  $1\frac{1}{2}$  miles N of Birch Point, about  $\frac{3}{8}$  mile SW of the Eastport-Pembroke road, about  $\frac{1}{2}$  mile W of the road down Birch Point, and about  $\frac{3}{8}$  mile E of the shore of East Bay. It is on the farm of William N. Lincoln. The station is on a bare ledge and marked by a hole in the rock within a circle chiselled in the rock.

LEACH (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1913; 1935; 1946)--In the S part of Perry and S of the telegraph road to Eastport, on the E side of East Bay, on the farm of Mrs. J. H. Leach, at the end of the road branching to the S from the telegraph road, about 700 meters E from the head of East Bay, and running S to her farm and to that of Mr. Lincoln. The station was a 5-foot pole nailed on the E gable end of the barn behind Mrs. Leach's house. The ridge pole of the barn was 2 feet W. In 1913 the pole was gone, but station could be recovered by measuring from the ridge pole.

Barn in poor condition in 1946.

FOSTER (U.S.C. & G.S.) (Maine, Washington County; C.O. Boutelle, 1860; 1946)--Station 3 meters from HERSEY.

Not recovered in 1946.

Marked by drill hole in rock with a wooden plug.

SMART (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887, 1913; 1935; 1946)--On a high hill known as Porcupine Mountain, about 2 miles E of Pembroke,  $\frac{3}{4}$  mile ESE of the road to Eastport, and about a mile NW of the head of East Bay. The station, which is very difficult of access, is on the summit of a ledge, which is about 200 meters SSE of the highest point of the hills. It is marked by a drill hole within a triangle cut in the rock.

LINCOLN POINT WHITE HOUSE, WEST OF TWIN CHIMNEYS (U.S.C. & G.S.) (Maine, Washington County; 1913; 1946)--Station is the left (W)



of two twin chimneys on a two-story shingle sided residence located in Birchs Point, approximately 400 meters NW of the extreme point. The house was unoccupied in 1946, hence identification not possible to verify.

BRADLEY (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1886; 1913; 1935; 1946)--On the E side of Denbows Neck, in the town of Lubec, on the farm of John McCurdy, on the E side of the road leading down the neck and 400 meters from the south bay, on the summit of the wooded hill, and 300 meters S of his dwelling. In 1886 the station was marked by four drill holes, two of which were 13 inches apart, S of W from the center, and the other two 30 inches apart, the nearer one 32 inches from the center of the station. In 1913 it was assumed that the intersection of the lines of the holes was the center and a niche was cut in the edge of the rock at which the center came. A bronze reference mark centered in stovepipe filled with concrete is 22.89 meters from the station.

In 1935, the Maine Geodetic Survey reported recovering the reference mark and the two drill holes 30 inches apart. In 1946, the reference mark was loosely set between two stones, possibly not in original place. Not recovered.

ANTOINES CHIMNEY (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1913; 1935)--Station destroyed.

KING (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1913; 1935; 1946)--On the highest point of the ledge, at the summit of King David's Ledge, an isolated, rocky hill with wooded slopes about  $\frac{1}{2}$  mile NW of Dennysville, Me.

Station mark is a  $\frac{3}{4}$ -inch drill hole,  $1\frac{1}{2}$  inches deep, within a 7-inch triangle cut in the rock. The W side of the triangle is formed by a N-S crack across the top of the ledge.

MORONG (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1913; 1935; 1946)--On the E summit of a hill on the W side of Dennys Bay, about 3 miles SE of Dennysville, and about 200 meters SE of the fork in the Dennysville-Whiting road. The W summit is covered with timber, but the one on which the station is located is fairly open except toward the W. ENE of the station there are two houses in range and distant  $1\frac{1}{8}$  and  $\frac{1}{4}$  mile, respectively.

To reach the station from Dennysville, drive SE on U.S. Highway 1 about 2.6 miles, turn E on side road 0.2 mile, from which point the bare ledge can be seen about 200 meters S of the road.

Station is marked by a standard bronze disk wedged in a drill hole in a boulder. A drill hole 1 inch in diameter



and 5.67 meters N of the station was made to serve as a reference mark. It is about 1 foot lower than the station and about 3 feet E of the high part of the ledge. Used by A.A.A. in 1935.

SMITH (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1913; 1946)--On the highest ledge of the largest and most northerly of the Bitch Islands, which lie on the W side of Whiting Bay at the point where it meets Dennys Bay. The station is 3 meters E of the SW edge of the ledge, in the center of a small clearing.

Station mark is a drill hole, within a circle chiselled in the ledge.

MOWES MOUNTAIN (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1886; 1913; 1935; 1946)--On the summit of the highest hill in the N end of Crowe Neck, which lies between Straight Bay and Whiting Bay. The station is on a flat-topped ledge and is about 200 meters E of the Crowe Neck Road,  $\frac{1}{3}$  mile S of the tip of the Neck, and 200 meters NW of a cove of Straight Bay. The station is 10 meters S of the highest point on the ledge and 5.2 meters E of the W edge of the rock bluff.

To reach the station from Whiting, drive 2.5 miles NE on Lubec Road to cemetery, turn N 2.5 miles to a T-intersection, turn left on the Crowe Neck Road 2.5 miles to a drive leading E. Follow this drive 0.2 mile to its end at a cottage. Walk 0.2 mile N to summit of hill and station.

Station mark is a copper bolt set in a drill hole, within a triangle having two sides cut in the rock and the third side formed by a small crack in the ledge.

COX (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1887; 1913; 1935; 1946)--About 5.3 miles N of Whiting, 3.5 miles SE of Dennysville, 0.5 mile W of Whiting Bay, 1.15 meters NNW of Little Mountain Fire Tower, on the summit of a burned-over hill, now covered by bare rock ledges, brush, fallen timber, and snags. The station is on the highest point of the highest ledge on the summit of the hill, about a half mile SSE of Edmunds, Me., and on the Moosehorn National Wild Life Refuge.

To reach the station from Dennysville, drive SE on U.S. Highway 1 about 2.6 miles, thence E on a side road 1.25 miles to a crest in the road with farm buildings on both sides of the road. Walk 500 meters SSW across a drain to the summit of the hill and the station.

Station mark is a  $\frac{3}{4}$ -inch drill hole  $2\frac{1}{2}$  inches deep, within a triangle, 10 inches on a side, cut in the rock, and covered by a cairn.

MAY (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1886; 1913; 1935; 1946)--About 3.7 miles NE of Whiting, 3.5 miles WNW



of West Lubec, on the W side of Crowe Neck, 2.9 miles S of its N tip, on a hill on the point on the S side of Carrying Place Cove, which is about a mile N of Timber Cove. The summit of the hill is a rock ledge, which drops off rather abruptly on the N side of the hill. The station is 0.75 meter W of the highest point of the summit ledge, 4.5 meters E from the W end of ledge, 70 meters W of E end of ledge, 0.5 meter E of a N-S crack across the ledge.

To reach the station from Whiting, drive 2.6 miles on road to Lubec, turn N at a cemetery 1.5 miles to a side road, thence 0.6 mile NW on this to a point where the road turns sharply W with an old field road continuing straight ahead. Walk along the field road NNW about 0.65 mile to hill and station.

Station mark is a  $\frac{1}{2}$ -inch drill hole,  $1\frac{1}{2}$  inches deep, covered by a small cairn.

LITTLE 2 (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1886; 1913; 1935; 1946)--On a prominent wooded hill, known as Little Mountain, in the Edmunds unit of the Moosehorn National Wild Life Refuge, about 4.4 miles NNE of Whiting, Me., 4.6 miles SE of Dennysville, and about 0.6 mile W of the W shore of Whiting Bay. The station is on the most easterly and higher of the two summits of the hill, about  $\frac{5}{8}$  mile E of the main road from Whiting to Dennysville. A branch road between these two villages passes 200 meters S of the station and after making an abrupt turn N passes the station  $\frac{1}{4}$  mile E. The Little Mountain Fire Tower has been erected over the station and is supported by four 14-inch timbers set in concrete footings. The station is 0.60 meter SSW of the center of the tower, at the following distances from the inside faces of the legs: 2.782 meters from N leg, 2.657 meters from the E leg, 1.690 meters from the S leg, and 2.230 meters from the W leg.

To reach station from Whiting, drive N on U.S. Highway 1 about 4.2 miles, then E at the Wild Life Refuge sign 0.6 mile to a second sign where a branch road runs S. Walk NNW about 250 meters to summit of Little Mountain and station.

Station mark is a copper bolt set in a drill hole in the rock.

SMALL (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1886; 1913; 1935; 1946)--On a prominent hill in the SW part of Seward Neck (South Bay of Cobscook Bay) known as Bennetts Hill. It is about 3 miles W of Lubec,  $\frac{3}{4}$  mile N of the Lubec-Whiting road, and 300 meters NE from the shore of South Bay, at the landing abreast of the S end of Scrub Island. The approach from the landing is not difficult. To approach from Lubec, take the Lubec-Whiting road to its intersection with the Seward Neck or N Lubec Road, follow the latter about  $\frac{1}{2}$  mile



to the old Elisha Small farm, and then proceed W about  $\frac{3}{4}$  mile to the hill. The station is on the S side of rocky ledge on the W summit. The E summit is 8 or 10 meters away and grass covered. Some cutting will be required to open lines in any direction, but it will not be heavy to the SE, S or SW.

Station is marked by a copper bolt set in a shelly rock its top being about an inch below the surface.

Station not recovered in 1935 or 1946. The hill now densely wooded and the ledge covered by soil and grass.

**BAPTIST (U.S.C. & G.S.)** (Maine, Washington County; C.H. Boyd, 1886; 1913; 1935; 1946)--On a hill about 4 miles W of Lubec,  $1\frac{1}{4}$  miles E of West Lubec post office, and about 150 meters N of the road between those towns. It is also about  $\frac{1}{4}$  mile E of the head of South Bay. The station is on the W end of a rocky knoll, which has steep sides except to the S and E. The station is on the farm of Mr. William Boomer, on State Highway 189,  $3\frac{1}{2}$  miles W of Lubec, Me., and is in dense spruce timber about 30 feet high. The hill the station is on is known as Split Hill.

To reach the station from Mr. Boomer's house, walk NW through the field to the woods line, then 25 meters NNW of the woods line to the station.

Station mark is a copper bolt set in an outcropping ledge, and is covered by a cairn.

**WADDLE (U.S.C. & G.S.)** (Maine, Washington County; C.H. Boyd, 1886; 1913; 1935; 1946)--On a high bare mass of rock, known as Waddle Mountain, about a mile SW by S from West Lubec post office, and about 125 meters W of the road leading to Baileys Mistake. The station is 6 feet N of the extreme summit and 1 foot lower, and a few inches to the S of it is a fault in the rock resembling a small star.

Station is marked by a copper bolt set in a hole in the rock. The station is partly covered by remains of concrete used by Quoddy engineers to hold a signal pole in place.

**MCCURDY (U.S.C. & G.S.)** (Maine, Washington County; C.H. Boyd, 1886; 1913; 1935; 1946)--On the highest point of a ridge in the S end of Crowe Neck and on the W side of the head of Boynton or Lily Lake. It is also about 1 mile SW of the head of Straight Bay. The station is on a bare ledge, but trees have grown up around it so that the view is cut off in most directions. The land is owned by J.P. Anderson.

To reach the station from West Lubec post office, drive NW on Crowe Neck Road about 2.0 miles, turn right on a dirt road SW bearing right at two successive forks about  $\frac{1}{2}$  mile to its end in a cultivated clearing. Walk SW about 400 meters to summit of a wooded ridge and the station.



Station mark is a copper bolt set in a drill hole in the ledge, within a triangle cut in the rock, and covered by a cairn.

RAMSDELL'S HOUSE CHIMNEY (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1886; 1913; 1935; 1946)--Station lost. House is gone.

MINE HILL (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1886; 1913; 1935; 1946)--On the summit of a prominent hill about 1.7 miles N of West Lubec, 0.4 mile SSW of the head of Bassett Creek Cove, 0.6 mile NNW of Red Point, a point near the head of South Bay. The summit is formed by rock ledge in the shape of a shallow, N-S crescent, with another summit nearly as high about 15 feet S of the station, and is surrounded by dense brush, except on S side. The station is 0.4 meter E of the highest point, which is near the N end of the summit ledge.

To reach the station from West Lubec, drive NNW about 0.4 mile, turn NE about 1.4 miles to a point at which the road turns sharply E, with an old road track continuing straight ahead. From here, walk about 450 meters W to summit of hill and station.

Station mark is a copper bolt set in a drill hole in the rock covered by a cairn.

DYER (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1886; 1913; 1935; 1946)--On the top of Dyer Hill, about  $\frac{3}{4}$  mile W of West Lubec post office, and 300 meters N of the Whiting-Lubec road. The station is on the highest and most northerly of the flat ledges on the summit, and is 62 meters E of a fence marking the E line of Trescott Township. The land is now owned by Charles Tyler. The station is marked by a copper bolt set in a hole in the rock.

The station is best reached from State Highway 189, 0.75 mile WSW of West Lubec post office. Leave the road where sign marks the Trescott-Lubec township line, follow a fence along this line NNW about 340 meters to crest of hill, then E to summit of hill and station.

LEIGHTON (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1886; 1913; 1946)--About 1.5 miles NE of Whiting, 0.45 mile NW of the East Stream School on Maine Highway 189, 0.3 mile SW of the head of Weir Cove, a small cove in the S part of Whiting Bay, on a long, low wooded hill with several bare ledges among the trees at its summit. The station is on a ledge, 9.6 meters S of the highest point on the highest ledge.

To reach the station from Whiting, drive ENE on Maine Highway 189 about 1.75 miles to the East Stream School, turn NW on farm road about 0.45 mile to the old Leighton house,



now occupied by Mr. Dennison. The station is about 0.15 mile NE of this station.

Station mark is a copper bolt set in a drill hole within a triangle cut in the rock.

ROCKY (U.S.C. & G.S.) (Maine, Washington County; R.A. Gilmore, 1946)--About 8.7 miles NE of East Machias, 4.5 miles NW of Whiting, 5.4 miles SSW of Dennysville, 0.3 mile N of the N end of Rocky Lake, on the summit of a prominent rocky hill, rising abruptly from the N end of the lake. The hill has been burned over and is now the most prominent feature in its vicinity.

To reach the station from East Machias, drive E on U.S. Highway 1 about 7.1 miles, turn N on side road 1.5 miles to Halls Mills on Rocky Lake. Proceed by boat 3.4 miles to N end of the lake at the head of a shallow cove near center of N end, and follow an old woods road  $\frac{1}{4}$  mile NNW around the base of the hill, thence 200 meters NE to the summit and the station.

Station mark is a bronze station disk wedged in a drill hole in outcropping bedrock. R.M. 1 is a bronze reference disk wedged in a drill hole in the bare ledge near the E point of the hill, 22.264 meters distant, and 3 feet lower than the station. R.M. 2 is a similar mark in a bare ledge on the S edge of the summit, 15.243 meters distant, and 10 feet lower than the station.

KENNISON (U.S.C. & G.S.) (Maine, Washington County; C.H. Boyd, 1886; 1913; 1935; 1946)--About 1 mile SW of Whiting, 0.1 mile S of the Whiting-Machias road (U.S. Highway 1), on the summit of a prominent steep hill known as Keniston Mountain. The W slopes of the hill are wooded, but the summit has only a few scattered trees, and is rather level with several bare ledges separated by grass and brush. On the NE side of the summit, the ledges drop off abruptly, forming a fairly straight, well-defined line. The station is about 16 meters NW of this NE edge of the summit, on the most NE of the bare ledges, which is about 5 meters in diameter. The station is about 5 feet from the straight W edge of this ledge and 4 feet 8 inches W of the S end of a prominent crack in the ledge. A similar ledge is 25 meters N of the station.

To reach the station from Whiting, follow U.S. Highway 1 SW about 0.9 mile to a service station across the road from Keniston Mountain, and climb about 200 meters to the summit of the hill and the station.

Station mark is a copper bolt set in a drill hole in the ledge and covered by a cairn.

TRESCOTT ROCK (U.S.C. & G.S.) (Maine, Washington County; C.O. Boutelle, 1861; G.S. of C., 1909, 1921; 1913; 1932; 1946)--On the summit of a prominent, bare, rocky hill known locally as



the "Porcupine" (on map as Liberty Cap), about 4 miles SE of Whiting, and 1 mile W of the head of Haycock Harbor. The bare, rocky pinnacle is well above the trees on the hillside and is the most prominent feature in the vicinity. The shore road from Lubec to Cutler is about  $\frac{1}{2}$  mile S of the station and a road leading to Whiting is about the same distance E. These two roads meet about 100 meters W of the creek flowing into the head of Haycock Harbor. The station is on the highest point on the hill, a fairly smooth rock ledge about 5 meters in diameter.

To reach the station from West Lubec post office, drive S on State Highway 191, about 4.5 miles to a point about 170 meters SW of the small stream emptying into the head of Haycock Harbor. Turn NE on an old road and proceed 0.4 mile to end of truck travel; continue along the old road about 400 meters, thence climb about 600 meters to summit of hill and station.

Station mark is a copper bolt set in a drill hole in the ledge within a large triangle cut in the rock. Reference 1 is a drill hole WSW of station; reference 2 a drill hole WSW of station and S of mark 1. Reference 3 is a copper bolt WNW of the station, reference 4 a G.S. of C. bronze reference disk set in a drill hole in the rock SSE, and reference 5 a similar bronze disk set in the rock NNE of the station.

Object	Distance	Direction
R.M. 1	0.383 meter	WSW
R.M. 2	0.456 meter	WSW
R.M. 3	4.298 meter	WNW (302° Mag.)
R.M. 4	3.361 meter	SSE (188° Mag.)
R.M. 5	6.264 meter	NNE ( 43° Mag.)

WALLACE (U.S.C. & G.S.) (Maine, Washington County; O.H. Tittman, 1883; 1913; 1935; 1946)--On a prominent knoll on the W side of the entrance to Wallace's Cove, off Grand Manan Channel, the first cove to the W of the Carrying Place Cove at West Quoddy Head. The hill is covered with very dense underbrush and scattered 30-foot evergreens, with cutting required to open lines. One can drive within a half mile of the station now, but due to the walking being very hard, the station can be more easily reached from a boat landed on the W shore of Wallace Cove. The station is on the highest point of the rocky knoll.

Station mark is a  $\frac{1}{2}$ -inch drill hole  $\frac{3}{4}$  inch deep in the rock and covered by a cairn.

LAWRENCE (U.S.C. & G.S.) (Maine, Washington County; O.H. Tittman, 1883; 1913; 1935; 1946)--On highest knob at Lawrence Point (on E side of entrance to Hamiltons Cove and about 3 miles SW of Quoddy Head). The hill is wooded.

Station marked by drill hole within triangle cut in the rock and covered by cairn. Follow shoreline from dilapidated house and barn in Hamilton Cove.



**BOOTHEAD (U.S.C. & G.S.)** (Maine, Washington County; O.H. Tittman, 1883; 1913; 1935; 1946)--On the highest part of Boot Head, S side of Boot Cove. The hill is covered with a dense growth of spruce and fir trees. A faint trail from the head of Boot Cove crosses the ridge about 50 meters W of the station.

Station is marked by a drill hole within a triangle cut in the rock, the rock being slightly below the surface of the ground. Considerable cutting would be required to open lines in any direction.

**KIMBALL (U.S.C. & G.S.)** (Maine, Washington County; O.H. Tittman, 1883; 1913; 1935; 1946)--On a rocky hill about  $1\frac{1}{2}$  miles W of Carrying Place Cove, and about 85 meters S of the road from Quoddy Head to Baileys Mistake, at a point 1.1 miles W of its junction with the N-S road leading to Lubec, Me. The station is 3.5 meters E of the highest point of the highest ledge in the vicinity, and is largely surrounded by woods. It is 1.7 meters N of the steep E-W bluff at the S edge of the bare ledge it is on.

Station mark is a  $\frac{1}{2}$ -inch drill hole  $1\frac{3}{4}$  inches deep, within an 8-inch triangle cut in the rock.

**JAMES HEAD (U.S.C. & G.S.)** (Maine, Washington County; O.H. Tittman, 1883; 1913; 1935; 1946)--On the highest part of Jims Head, the bold headline at the E side of the entrance to Baileys Mistake. The hill is fairly clear of trees and brush but the adjacent hills are densely wooded, so view is cut off except to the SW and seaward. A trail along the E side of Baileys Mistake runs almost to the station. There is a small spruce tree about a meter W of the station and a smaller one (about 2 feet high) about 2 feet N of the station.

Station is marked by a  $\frac{3}{4}$ -inch drill hole in the solid rock, which is  $2\frac{1}{2}$  feet below the surface of the ground. The old signal pole was set over the mark and supported by a pile of rocks. These are the only rocks on the hill.

Not recovered in 1935 or 1946. Hill densely wooded and ledge covered by 1 to 3 feet of soil.

**MORRISON (U.S.C. & G.S.)** (Maine, Washington County; O.H. Tittman, 1883; 1913; 1935; 1946)--On the top of a prominent hill, now largely wooded, on the N side of Haycock Harbor, about  $\frac{1}{3}$  way from its head to its entrance. A road leading to Balchs Head is just N of the hill and the remains of an old house are about 150 meters NW of the station.

To reach the station from West Lubec post office, follow State Highway 191 S 4.2 miles to a farm road leading SE at a point 300 meters NE of the stream at the head of Haycock Harbor. Follow this farm road SE about 0.25 mile to a point just SW of a gravel pit, then walk about 350 meters to summit of hill and station.



Station mark is a drill hole, within a triangle cut in the rock, and covered by a cairn.

GODFREY (U.S.C. & G.S.) (Maine, Washington County; O.H. Tittman, 1884; 1914; 1946; 1946)--On a high, bare ledge about  $\frac{1}{2}$  mile E of the head of Baileys Mistake, commanding an unobstructed view in all directions. The station is about 300 meters N of the road leading to Quoddy Head, and an open grass field lies between the road and the hill. A house on the S side of the road and a barn on the N side bear about SSW from the station, and about 200 feet SE from the station there are a few graves at the foot of the hill. The station is 3.5 meters W of the highest part of the ledge.

To reach station, drive 2.8 miles S on Highway 191 from its junction with Highway 189, turn E 1.2 miles on this road to a farm on the N side of road and a field road leading N to a small cemetery at foot of the hill. Walk N uphill to summit and station.

Station mark is a  $\frac{1}{2}$ -inch drill hole, 1 inch deep, surrounded by a 6-inch triangle cut in the rock and covered by a cairn.

HAYCOCK (U.S.C. & G.S.) (Maine, Washington County; O.H. Tittman, 1883; 1913; 1946)--On the S side of the head on the E side of the entrance to Haycock Harbor, about 100 meters W of the most easterly tip of the point, 4 meters S of the tree line, and about 18 meters W of the W edge of a prominent N-S crevice which nearly splits off the outer part of the head. The station is on the highest point of the head which is covered by a foot of soil and moss but is bare of trees. The station is best reached by a boat, and is 3.4 miles S of West Lubec, on State Highway 191, at the head of Baileys Mistake, and about  $\frac{1}{2}$  mile S of the entrance to Baileys Mistake.

Station mark is a  $\frac{1}{2}$ -inch drill hole,  $1\frac{1}{2}$  inches deep, within a triangle 9 inches on each side, cut in the rock, and covered by a cairn.

SQUAW CAP (U.S.C. & G.S.) (Maine, Washington County; O.H. Tittman, 1883; 1913; 1935; 1946)--On the high peak locally known as Squaw Cap, about a mile N of Boot Head, and about 500 meters NW of the road from Quoddy Head toward Baileys Mistake. The station is 3.0 meters NE of highest point and has an open view in all directions.

To reach station leave the road from West Quoddy Head to Baileys Mistake 2.5 miles W of its intersection with road N to Lubec, at crest of a small ridge, and walk W about 0.4 mile to summit and station.

Station mark is a  $\frac{1}{2}$ -inch drill hole,  $1\frac{1}{2}$  inches deep, within a 5-inch triangle cut in the rock, and covered by a cairn.



**MOOSE (U.S.C. & G.S.)** (Maine, Washington County; O.H. Tittman, 1883; 1913; 1935; 1946)--On the S side of Eastern Head, a point on the coast of Grand Manan Channel between Moose Cove and Haycock Harbor, about  $\frac{1}{4}$  mile W of the most easterly point of Eastern Head, and 0.1 mile N of the shoreline on the S side of the Head. The station is about 30 feet NW of the highest point on the highest and most prominent hill on or in vicinity of Eastern Head. The hill is bare of timber, affording good view in all directions.

To reach the station from Cutler post office, drive NE on Maine Highway 191 about 9.4 miles to a small house, which is the second house on the SE side of the highway, SW of the head of Haycock Harbor. From here walk on an old woods road just SE of the house, about 0.9 mile SE to its end in a cut-over area, and continue SE 0.2 mile across an open draw to summit of bare hill and station.

Station mark is a  $\frac{5}{8}$ -inch drill hole,  $\frac{5}{8}$  inch deep, in the ledge, and covered by a cairn.

**CLIFF (U.S.C. & G.S.)** (Maine, Washington County; O.H. Tittman, 1883; 1913; 1946)--On the highest point of rock ledge on the summit of a high, rocky, wooded hill about 100 feet high, on the coast of Grand Manan Channel, about  $\frac{1}{2}$  mile S of the mouth of Moose Cove. The station is about 75 meters S of a small stream and about 65 meters W of the shore. On the S side of the hill is a cliff-walled cove, and just S of this cove and 150 meters S of the station is the most prominent and most precipitous cliff in the vicinity.

To reach the station from Cutler post office, drive NE on Maine Highway 191 about 7.1 miles, thence E about 0.9 mile on a rough gravel road, thence S on a field road about 0.4 mile, thence walk about 0.3 mile E to the station. The field road has a steep grade, and is probably passable by truck only in dry weather.

Station mark is a drill hole within a triangle cut in the rock and covered by a cairn.

**BOG CREEK (U.S.C. & G.S.)** (Maine, Washington County; F.P. Weber, 1863; 1913; 1946)--On the summit of a prominent, bare, rocky hill about  $1\frac{1}{2}$  miles SW of the mouth of Moose Cove,  $\frac{1}{2}$  mile N of Bog Brook Cove,  $\frac{1}{2}$  mile W of the shoreline of Grand Manan Channel opposite the station. The station is on the W part of the summit of the hill.

To reach the station from Cutler post office, drive NE on Maine Highway 191 about 7.1 miles, turn right on rough gravel road about 0.9 mile, thence turn right on a field road up steep grade 1.0 mile S to base of hill. Field road probably passable by truck only in dry weather.

Station mark is a drill hole in the ledge summit, covered by a cairn.



HEATH (U.S.C. & G.S.) (Maine, Washington County; O.H. Tittman, 1883; 1913; 1946)--On the more easterly of two summits which are covered by brush and trees, near the S shore of Moose River near its mouth, and about  $1\frac{1}{2}$  miles due S of Trescott Rock. The W summit is slightly the higher of the two, and about 400 meters farther E a third summit exists, which is lower than either. The station is on the highest point of a ledge.

To reach the station from Cutler post office, drive NE on Maine Highway 191 about 7.1 miles, turn right on rough gravel road about 0.95 mile to a gravel pit on N side of road. Then walk  $\frac{1}{4}$  mile NNE to more E of two summits and station. For best approach, skirt the W end of bog and follow open area along S side of hill to point opposite the E summit.

Station mark is a drill hole within a triangle cut in the rock, and covered by a cairn.

LOVELY (U.S.C. & G.S.) (Maine, Washington County; R.A. Gilmore, 1946)--About 5.2 miles SW of Robbinston, 4.1 miles NNE of Ayers Junction, on the prominent hill on the N side of the E of two small lakes known as the Penknife Lakes. It is near the SE end of the summit ridge of the hill, in the approximate center of a roughly crescent-shaped clearing, formed principally by bare rock ledge. A prominent cairn was built over the station.

To reach the station leave U.S. Highway 1 at North Perry, travel W on Boyden Lake road 3.5 miles to a T-intersection, continue NW on a woods road (passable on high trucks in dry weather) 1.2 miles to a log bridge over the outlet to Penknife Lakes. Thence a trail to the NE, then NW up the ridge line to the summit  $\frac{1}{2}$  mile distant.

Station mark is a bronze station disk set in a drill hole in bedrock. Reference marks are standard disk reference marks wedged in drill holes in the ledge. Reference 1 is NNE of the station and 3 feet lower; mark 2 is WSW of the station, 4 feet lower.

Object	Distance	Direction
AYERS	meters	0° 00' 00".0
R.M. 2	26.941	30 51 12
R.M. 1	20.980	150 23 42

MOOSEHORN (U.S.C. & G.S.) (Maine, Washington County; R.A. Gilmore, 1946)--About 7 miles SSE of Calais, 6.3 miles WNW of Robbinston, 0.4 mile N of the N side of Howard Lake, on the prominent hill known locally as Howard Lake Mountain. This hill has been cut over and is now generally covered by a dense growth of young hardwood, with a few scattered spruce and older hardwood trees, and lies within the Moosehorn National Wild Life Refuge. The station is in a small clearing on the



summit of the hill, about 25 meters SE of a prominent 50-foot oak tree, and 35 meters E of a prominent, lone boulder in another small clearing.

To reach the station leave U.S. Highway 1 one mile S of Milltown, drive S through the Moosehorn National Wild Life Refuge on a gravelled road 2.4 miles, take a road E opposite a direction sign to the Moosehorn Headquarters, leading SE toward Howard Lake, 2.4 miles, thence follow a trail turning left 125 meters to an abandoned quarry, thence walk 400 meters NW to summit of hill and station.

Station mark is a standard bronze disk set in a drill hole in bedrock. References are standard disk reference marks in rock ledge. Reference 1 is SE of the station, on same elevation, and reference 2 is W of station, 4 feet lower.

Object	Distance	Direction
LANE	meters	0° 00' 00" 0
R.M. 1	21.405	129 58 08
R.M. 2	17.630	263 56 12

AYERS (U.S.C. & G.S.) (Maine, Washington County; R.A. Gilmore, 1946)--About 5.5 miles NW of Pembroke, 1.4 miles NW of Ayers Junction, 1.2 miles E of Blanchard Corner, 0.3 mile SW of the SW shore of Pennamaquan Lake, on a bare knob on the NE side of the prominent hill known as Mt. Tom. The knob on which the station is located is about  $\frac{1}{4}$  mile NNE of the summit of Mt. Tom, somewhat lower in elevation, and separated from the summit by a pronounced saddle. The station is on the summit of this knob, about 65 meters SE of a prominent, lone boulder.

To reach the station, follow Highway 214 for  $\frac{1}{2}$  mile NW of Ayers Junction, thence N up a hill 0.4 mile to a side road NW, thence NW 0.5 mile to farm buildings on summit of Mt. Tom. Site of station and boulder are visible from the farmhouse.

Station mark is a bronze station disk set in a drill hole in bedrock. References are standard reference disks set in drill holes in the ledge. Reference 1 is NE and 3 feet lower than station, and reference 2 is SE of station, on approximately same elevation.

Object	Distance	Direction
OAK	meters	0° 00' 00" 0
R.M. 1	4.456	251 40 40
R.M. 2	10.743	336 37 54



## ADDENDA - 1961

BREAKWATER 3-61 (Maine, Washington Co.; J. Hill 1919; N.W.S. 1961)--Station is on the breakwater, Lubec, Maine, near the center of the outer granite block of the old section. It has been moved several times by the ice, and the position redetermined in 1961.

Station mark is a bronze disk set in a drill hole in the rock.

LUBEC (Maine, Washington Co.; N.W.S. 1961)--The station is on the Lubec breakwater, Passamaquoddy Bay on a granite slab, and on the range line from Ranges 27 and 28 to T.P.s 7 and 8.

Station mark is an I.B.C. bronze disk set in a drill hole in the rock.

RANGE MARK 27-61 (Maine, Washington Co.; N.W.S. 1961)--The range is the front range mark, ranging International Boundary Course 7-8 and is built in the rear of, and on same base as the Lubec Breakwater, Passamaquoddy Bay and painted two coats.

The station mark is  $4\frac{1}{2}$  feet high built on the standard range pattern on a concrete base with slightly sloping sides and 6 feet square at the top. Base is protected by huge rocks where below medium tide.

Changes in old descriptions in 1961:

Calais Cong. Ch. Spire; taken down. Lost.

Dog Island; Recovered under edge of Range 13. Now under huge rock pile.

Grassy Point; The rockpile now about 20 ft. SE of station.

Hwy. Bridge, Baring-Upper Mills; gone and markers lost.

Hwy. Bridge, Calais-Union Mills; collapsed. Removed and markers lost.

International Bridge; bridge gone and station lost.

Lubec Ch. Sp.; Now Congregational Ch. only.

Lubec Lower Ch. Sp.; Now Christian Church.



Range 14-46; Factory building gone.

Range 27-46; gone.

Range 28-46; Metal marker higher than buildings placed over range.

Range 34-46; Superstructure built over range to make it visible.

Ref. Mon. 227-46; Bridge gone; station lost.

Range Marks, Passamaquoddy Bay, 1961:

Ranges 1 - 26 recovered, repaired and painted 2 coats.

Ranges 28 - 48 recovered, repaired and painted 2 coats.

Ranges 7, 28, 31, 34 and 47 largely rebuilt.

Triangulation stations, Passamaquoddy Bay area recovered.  
Now O.K.:

Bello	Friars Head
Breakwater	Friars Head 2
	Friars Head 3
Campobello	
Chambers	Grassy Point
Cherry Is. Bell	Gull
Cherry Is. R.M.	
Cherry Is. Tower	Head
Cranberry Point	Indian Point
Cranberry Point Mark	
Deer Is. R.M.	Liberty Point
Dog Island	Lubec Channel Lt.
Dog Is. Lt.	Lubec Church Sp.
Duck	Lubec Lower Ch. Sp.
Dudley	Lubec Standpipe
	Mulholland Pt. Lt.
	Round Rock
Eastport Tank	Treat 2

Vista cut from all ranges to water on line to Turning Points ranged. Two days cutting of large trees between Ranges 45 and 46.



## GEOGRAPHIC POSITIONS

All geographic lists are on the 1927 North American datum. The latitudes and longitudes are uniformly given to three decimal places. The azimuths and back azimuths are given according to the grade of the field work from which they were computed. The azimuths between first-order stations are given to hundredths of a second, between third-order stations to tenths of a second, and between stations of less accuracy to even seconds. Thus, the usual method of publishing only one uncertain figure has been followed throughout.

The distances are in meters and are shown according to their accuracy. Between first-order stations and where actually measured in the field they are given to two decimal places, and the others to only one decimal place. The logarithms of these distances in meters are given to seven decimal places between first-order stations and to six decimal places between other stations.

The geographic lists are given as follows:

- A The first-order triangulation covering the territory from the source of the St. Croix River to the Atlantic Ocean. This work was done by the United States Coast and Geodetic Survey during the nineteenth century. It was carefully adjusted on the 1927 North American datum by the International Boundary Commission between large arcs of triangulation north and south of it, executed and adjusted by the Coast and Geodetic Survey. This triangulation furnished the control for all work along the boundary in this area.
- B Second-order triangulation. A little of this work was done in the field by the United States Coast and Geodetic Survey, but the most of it by the International Boundary Commission, some along the middle of the river in 1917-1918 but the most of it in 1946. Part of this work was in triangulation schemes based on the first-order work and some was by work connecting main scheme stations to points near the boundary to control traverses along the river. This was adjusted by this Commission from the first-order stations.
- C Third-order stations. This work was executed and adjusted by the International Boundary Commission using the secondary stations adjusted above for control. This work is listed under the proper headings consecutively downstream from the source of the St. Croix River to the Atlantic Ocean. The sections and type of work follows.



INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA  
GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

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International boundary line			St. Croix River			Primary			State			Maine			Province New Brunswick					
STATION			LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION			DISTANCE (METERS)			LOGARITHM		
Rye, 1867;r.1908;1939	d.m.		45 07 23.836			12 16 20.95			192 14 34.41			Cooper	15514.21			4.1907296				
Maine C.&G.S.			67 25 31.603			269 30 28.29			89 44 59.98			Chamcook	26884.58			4.4295033				
Collins, 1887; C.&G.S.			45 15 01.888			32 07 07.89			211 57 13.50			Cooper	34564.63			4.5386319				
New Brunswick l., 1946			67 14 03.280			46 48 31.87			226 40 23.56			Rye	20633.92			4.3145818				
						319 41 12.54			139 47 36.88			Chamcook	18301.47			4.2624861				
Oak, 1887, r.1946	d.m.		45 19 43.868			18 35 02.76			198 30 53.31			Rye	24097.33			4.3819690				
New Brunswick C.&G.S.			67 19 40.218			319 41 48.82			139 52 12.62			Chamcook	29689.63			4.4726048				
						319 49 11.97			139 53 11.43			Collins	11388.20			4.0564550				
Neal, 1887; r.1946	d.m.		45 18 59.719			267 04 47.59			87 19 59.58			Oak	27965.72			4.4466261				
Maine C.&G.S.			67 41 02.747			281 35 28.73			101 54 39.54			Collins	36050.58			4.5569123				
						316 30 23.18			136 41 24.13			Rye	29567.67			4.4708171				
Tomah Mountain, 1888;r.1946			45 27 18.242			296 18 09.80			116 33 33.37			Oak	31513.55			4.4984973				
Maine C.&G.S.	d.m.		67 41 17.505			358 48 12.57			178 48 23.06			Neal	15393.63			4.1873412				
Brandy Hill, 1888;r.1946	d.m.		45 31 58.122			72 03 22.19			251 48 52.10			Tomah Mountain	27864.55			4.4450520				
New Brunswick C.&G.S.			67 20 57.481			355 45 17.64			175 46 12.68			Oak	22730.06			4.3566005				
Vance Mountain, 1888;r.1946			45 33 53.188			25 28 58.11			205 21 48.26			Neal	30540.72			4.4848793				
Maine C.&G.S.	d.m.		67 30 59.494			47 47 39.35			227 40 18.48			Tomah Mountain	18128.46			4.2583610				
						285 09 28.48			105 16 38.22			Brandy Hill	13533.69			4.1314161				
						330 33 13.11			150 41 17.16			Oak	30090.10			4.4784237				
Mount Henry, 1888;r.1946	d.m.		45 38 00.081			44 37 35.64			224 33 27.93			Vance Mountain	10703.67			4.0295328				
New Brunswick C.&G.S.			67 25 12.771			46 39 41.96			226 28 13.34			Tomah Mountain	28821.40			4.4597151				
						333 37 36.81			153 40 39.16			Brandy Hill	12470.16			4.0958722				
Spruce Mountain, 1888;r.1946			45 36 00.129			03 41 28.77			183 40 54.63			Tomah Mountain	16145.39			4.2080486				
Maine C.&G.S.	d.m.		67 40 29.666			259 20 57.60			79 31 52.88			Mount Henry	20207.98			4.3055228				
						287 32 03.91			107 38 51.17			Vance Mountain	12967.44			4.1128542				
Walls Hill, 1888;r.1946	d.m.		45 38 41.175			272 59 03.89			93 11 59.19			Mount Henry	23520.05			4.3714383				
Maine C.&G.S.			67 43 17.180			299 00 28.79			119 09 15.90			Vance Mountain	18292.43			4.2622714				
						323 51 28.00			143 53 27.73			Spruce Mountain	6155.55			3.7892670				
Green Mountain, 1888;r.1946			45 47 02.627			302 12 23.18			122 26 59.03			Mount Henry	31322.58			4.4958575				
New Brunswick C.&G.S.	d.m.		67 45 36.374			341 59 36.64			162 03 16.12			Spruce Mountain	21503.29			4.3325050				
						348 58 54.29			169 00 33.93			Walls Hill	15771.63			4.1978765				
Peekaboo Mountain, 1889;r.1946			45 44 46.298			245 42 36.82			65 47 46.67			Green Mountain	10249.22			4.0106908				
Maine C.&G.S.	d.m.		67 52 48.834			312 17 22.54			132 24 11.63			Walls Hill	16734.58			4.2236147				
						315 21 46.71			135 30 35.48			Spruce Mountain	22800.32			4.3579410				



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Primary

State Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
Mitchell Mountain, 1941; r. 1946 Maine C.&G.S. d.m.	45 51 39.058	67 58 21.430		130 24 39.08	173 08 13.54	297 15 08.43	310 12 37.04	353 06 38.88	117 24 17.12	May Mountain	28380.81	4.4530248
				330 33 42.28			150 37 40.74			Morrison	23678.41	4.3743525
										Green Mountain	18590.09	4.2692816
										Peekaboo Mountain	14628.14	4.1651891
Spring Hill 2, 1941; r. 1946 Maine C.&G.S. d.m.	45 54 33.102	67 50 50.095		8 03 50.09	61 08 23.27	112 38 50.70	188 02 24.93	241 02 59.24	292 21 23.88	Peekaboo Mountain	18297.51	4.2623921
				145 22 45.19	334 00 56.26		154 04 41.35			Mitchell Mountain	11116.98	4.0459867
										May Mountain	33933.41	4.5306275
										Morrison	22052.05	4.3434490
										Green Mountain	15468.01	4.1894346
Kennedy, 1889; r. 1946 New Brunswick C.&G.S. d.m.	45 56 14.916	67 43 29.163		9 09 18.55	29 39 18.56	71 44 13.35	189 07 47.25	209 32 37.04	251 38 56.57	Green Mountain	17271.00	4.2373174
										Peekaboo Mountain	24451.51	4.3883057
										Spring Hill 2	10007.66	4.0093326
Spring Hill, 1889; r. 1912; l. 1941 Maine C.&G.S. d.m.	45 54 30.437	67 50 48.115		8 14 00.34	251 07 29.01	334 01 28.62	188 12 33.76	71 12 44.36	154 05 12.29	Peekaboo Mountain	18222.12	4.2605989
										Kennedy	9993.49	3.9997171
										Green Mountain	15375.36	4.1868254
McInelly, 1889; r. 1946 New Brunswick C.&G.S. d.m.	45 50 15.679	67 42 09.677		36 50 42.53	53 41 12.35	125 10 34.19	216 48 14.31	233 33 34.19	305 04 22.05	Green Mountain	7445.97	3.8719212
				171 13 25.83			351 12 28.76			Peekaboo Mountain	17146.22	4.2341683
										Spring Hill	13670.73	4.1357917
										Kennedy	11222.92	4.0501058
Pole Hill, 1889; r. 1946 Maine C.&G.S. d.m.	45 57 17.620	67 46 59.540		18 02 00.20	293 06 47.58	334 20 40.86	197 57 49.57	113 09 18.78	154 24 09.01	Peekaboo Mountain	24390.13	4.3872142
				354 35 41.23			174 36 40.92			Kennedy	4927.58	3.6926336
										McInelly	14448.51	4.1598232
										Green Mountain	19072.12	4.2803989
Initial Monument 1889; r. 1946 (Mon. 1, I.B.C.) d.m.	45 56 36.229	67 46 54.467		175 06 51.49	278 26 32.95	354 33 30.30	355 06 47.84	98 29 00.49	174 34 26.34	Pole Hill	1282.61	3.1080939
										Kennedy	4471.23	3.6504267
										Green Mountain	17789.57	4.2501653
Grand Manan (G.S. of C.) New Brunswick	44 47 47.336	66 46 51.029										
Chamcook, 1857; r. 1955 New Brunswick	45 07 29.476	67 05 01.507		326 40 11.94			146 53 02.50			Grand Manan (G.S. of C.)	43622.25	4.6397081
Trescott Rock, 1861; r. 1946 Maine	44 45 31.470	67 06 30.870		182 44 53.58	260 42 03.51		2 45 56.71	80 55 54.54		Chamcook	40733.17	4.6099482
										Grand Manan (G.S. of C.)	26278.09	4.4195838
Cooper, 1859; r. 1923 Maine	44 59 12.728	67 28 02.131		242 57 06.51	311 40 58.60		63 13 23.71	131 56 09.63		Chamcook	33878.91	4.5299294
										Trescott Rock	38027.54	4.5800983
Prince Regents Redoubt Maine 1861; lost 1913	44 55 10.648	67 00 39.752		23 22 01.91	101 53 15.00	165 55 15.37	203 17 54.38	281 33 54.61	345 52 10.21	Trescott Rock	19470.85	4.2893849
										Cooper	36768.87	4.5654803
										Chamcook	23516.48	4.3713723



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International boundary line			St. Croix River			Secondary			State			Maine			Province New Brunswick		
STATION			LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION			DISTANCE (METERS)		LOGARITHM
Transit, 1889;r.1913 New Brunswick C.&G.S.		d.m.	45 57 21.650 67 46 54.352			0 06 05.8 41 55 18.2 294 58 28.2			180 06 05.8 221 55 14.5 115 00 55.8			Initial Monument Pole Hill Kennedy		1402.4 167.2 4876.2		3.146864 2.223297 3.688085	
Cromwell 1890 Maine C.&G.S.		d.m.	45 53 50.054 67 50 38.543			301 02 23.7 332 34 05.9			121 08 28.9 152 37 42.7			McInelly Green Mountain		12817.2 14168.7		4.107792 4.151330	
Floyd, 1946; 1955 New Brunswick		d.m.	45 50 19.468 67 42 34.975			32 49 07.2 52 15 21.0 126 18 12.5			212 46 57.1 232 08 00.9 306 12 17.1			Green Mountain Peekaboo Mountain Spring Hill 2		7230.0 16780.8 13241.9		3.859141 4.224813 4.121949	
Poplar Mountain, 1912;r.1955 New Brunswick		d.m.	45 53 36.125 67 46 48.221			107 59 22.8 108 40 05.0 317 59 52.1 352 43 11.4			287 56 30.5 288 37 11.3 138 02 53.9 172 44 03.0			Spring Hill Spring Hill 2 Floyd Green Mountain		5436.4 5502.7 8167.3 12247.5		3.735310 3.740577 3.912078 4.088048	
Spruce 1890 New Brunswick C.&G.S.		d.	45 50 46.514 67 46 47.552			138 42 07.9 278 59 36.4 347 27 32.0			318 39 22.1 99 02 55.7 167 28 23.0			Cromwell McInelly Green Mountain		7545.3 6071.5 7081.1		3.877677 3.783294 3.850099	
Gull Rock 1889 Maine C.&G.S.		n.d.	45 49 29.39 67 45 47.47			253 04 07. 356 58 18.			73 06 43 176 58 26			McInelly Green Mountain		4913.2 4537.6		3.691361 3.656824	
North, 1946; 1955 New Brunswick		d.m.	45 49 48.125 67 44 46.273			11 57 33.6 251 07 56.0			191 56 57.7 71 09 30.2			Green Mountain Floyd		5222.9 2994.4		3.717909 3.476311	
Gull Rock 2, 1911;r.1955 Maine		d.m.	45 49 29.301 67 45 47.424			246 13 45.7 249 31 50.5 356 58 58.0			66 14 29.5 69 34 08.5 176 59 05.9			North Floyd Green Mountain		1442.2 4433.1 4534.7		3.159032 3.646706 3.656548	
Picnic, 1912; r.1955 New Brunswick		d.m.	45 48 55.461 67 45 01.499			12 12 10.3 136 30 19.6 191 25 35.7			192 11 45.3 316 29 46.7 11 25 46.6			Green Mountain Gull Rock 2 North		3564.1 1440.3 1658.8		3.551954 3.158450 3.219804	
Veysey, 1946; 1955 New Brunswick		d.m.	45 48 45.432 67 46 19.607			226 08 24.9 239 03 59.0 343 36 13.8			46 09 31.9 59 06 40.2 163 36 44.8			North Floyd Green Mountain		2793.9 5651.6 3308.5		3.446214 3.752170 3.519631	
Orient, 1946; 1955 Maine		d.m.	45 48 58.443 67 48 08.651			250 48 48.2 279 40 19.8 317 22 51.2			70 52 47.6 99 41 38.0 137 24 40.4			Floyd Veysey Green Mountain		7624.5 2388.3 4858.0		3.882209 3.378085 3.686456	
Caribou 1911;r.1955 Maine		d.m.	45 47 54.056 67 48 31.814			194 07 12.1 240 55 44.3 292 43 02.2			14 07 28.7 60 57 19.1 112 45 08.0			Orient Veysey Green Mountain		2049.9 3265.9 4108.5		3.311726 3.514000 3.613688	
Moon 1946; 1955 Maine		d.m.	45 47 23.818 67 48 33.961			182 50 38.2 190 35 39.0 279 39 41.0			2 50 39.7 10 35 57.1 99 41 48.3			Caribou Orient Green Mountain		934.7 2972.2 3891.4		2.970675 3.473072 3.590105	
Piney Point, 1890;r.1955 Maine C.&G.S.		d.m.	45 45 02.023 67 48 49.655			184 25 39.8 228 15 43.8			4 25 51.1 48 18 02.3			Moon Green Mountain		4390.9 5595.3		3.642554 3.747825	



International boundary line St. Croix River Secondary State Maine Province New Brunswick

STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Ref. Mon. 44, 1911;r.1955 New Brunswick d.m.	45 43 25.196 67 48 12.802	112 47 17.5 165 04 48.1 176 27 01.3 206 42 59.6	292 43 59.8 345 04 21.7 356 26 46.2 26 44 51.7	Peekaboo Mountain Piney Point Moon Green Mountain	6472.0 3093.8 7381.4 7516.3	3.811039 3.490486 3.868137 3.876003
Pemberton Ridge, 1889;r.1946 New Brunswick C.&G.S. d.m.	45 42 31.086 67 45 01.054	112 28 20.4 174 48 00.0 334 00 54.3	292 22 45.4 354 47 34.7 154 04 08.3	Peekaboo Mountain Green Mountain Spruce Mountain	10942.7 8418.2 13424.5	4.039123 3.925219 4.127897
Ref. Mon. 48, 1911;r.1955 New Brunswick d.m.	45 41 30.467 67 47 42.821	132 26 37.4 169 37 38.2 194 54 50.3 241 50 51.2	312 22 58.3 349 37 16.7 14 56 20.9 61 52 47.0	Peekaboo Mountain Ref. Mon. 44 Green Mountain Pemberton Ridge	8964.0 3601.0 10613.1 3968.7	3.952503 3.556420 4.025844 3.598646
Greenland Lake Mountain Maine 1889 C.&G.S. n.d.	45 37 29.069 67 46 02.200	146 56 28.0 181 48 16.5 188 04 24.4 238 04 03.3 290 49 41.5	326 51 37.0 1 48 35.0 8 05 08.2 58 06 01.3 110 53 39.1	Peekaboo Mountain Green Mountain Pemberton Ridge Walls Hill Spruce Mountain	16113.6 17716.6 9417.7 4210.8 7710.8	4.207192 4.248380 3.973947 3.624365 3.887101
Forest, 1946 Maine d.m.	45 39 01.380 67 43 06.400	127 35 53.3 130 15 30.6 159 02 29.8 167 42 00.3 328 44 11.1	307 32 35.6 310 08 33.8 339 01 07.8 347 40 13.0 148 46 03.1	Ref. Mon. 48 Peekaboo Mountain Pemberton Ridge Green Mountain Spruce Mountain(comp.)	7548.9 16997.9 6933.6 15207.8 6545.3	3.877881 4.217428 3.840957 4.182066 3.815929
Ref. Mon. 51, 1911;r.1955 Maine d.m.	45 39 46.485 67 45 39.307	134 55 59.7 140 13 42.2 189 14 52.5 292 47 52.6	314 50 52.2 320 12 13.8 9 15 19.9 112 49 41.9	Peekaboo Mountain Ref. Mon. 48 Pemberton Ridge Forest	13115.5 4177.6 5148.8 3591.5	4.117784 3.620924 3.711706 3.555281
Lark, 1946; 1955 New Brunswick d.m.	45 40 44.322 67 44 25.484	41 49 56.7 166 51 41.0 329 46 23.4 331 40 54.0	221 49 03.9 346 51 15.6 149 49 12.0 151 41 50.6	Ref. Mon. 51 Pemberton Ridge Spruce Mountain(comp.) Forest	2396.2 3384.9 10152.1 3609.9	3.379524 3.529542 4.006557 3.557499
Spit, 1946; 1955 New Brunswick d.m.	45 40 12.714 67 44 57.645	48 05 00.3 179 00 40.3 215 29 54.3 312 25 46.4	228 04 30.5 359 00 37.9 35 30 17.3 132 27 05.9	Ref. Mon. 51 Pemberton Ridge Lark Forest	1212.1 4272.7 1198.7 3263.5	3.083524 3.630701 3.078698 3.513688
Forest City church spire Maine 1889;r.1955 C.&G.S. d.	45 39 43.451 67 43 52.171	128 54 01.5 159 00 40.7 163 56 22.6 322 39 10.8	308 47 37.5 339 00 16.9 343 55 33.4 142 39 43.6	Peekaboo Mountain Lark Pemberton Ridge Forest	14906.4 2012.9 5385.9 1633.7	4.173372 3.303817 3.731256 3.213184
Loose, ecc., 1946 New Brunswick d.m.	45 39 45.049 67 41 52.505	49 53 12.1 141 30 02.7 345 30 12.0	229 52 19.2 321 27 47.8 165 31 11.1	Forest Pemberton Ridge Spruce Mountain	2092.2 6551.7 7172.1	3.320607 3.816357 3.855645
Square, 1946; 1955 New Brunswick d.m.	45 40 47.064 67 42 26.599	14 47 45.9 133 52 35.0 338 55 02.9 344 02 03.9	194 47 17.4 313 50 44.5 158 55 27.3 164 03 27.4	Forest Pemberton Ridge Loose, ecc. Spruce Mountain	3374.7 4634.9 2051.9 9213.5	3.528230 3.666039 3.312156 3.964423



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International boundary line		St. Croix River	Secondary	State		Maine	Province New Brunswick			
STATION		LATITUDE AND LONGITUDE		AZIMUTH		BACK AZIMUTH		TO STATION	DISTANCE (METERS)	LOGARITHM
Boom, 1946; 1955	d.m.	45° 41'	01.010	2° 18'	20.8	182° 18'	15.9	Forest	3696.4	3.567775
New Brunswick		67° 42'	59.532	301° 08'	01.4	121° 08'	25.0	Square	832.7	2.920471
				328° 15'	04.9	148° 15'	52.9	Loose, ecc.	2757.6	3.440534
Walls Hill North, 1890;r.1946		45° 38'	39.652	93° 33'	25.0	273° 33'	00.1	Walls Hill (comp.)	759.0	2.880268
Maine C.&G.S.	d.m.	67° 42'	42.197	329° 44'	43.0	149° 46'	17.8	Spruce Mountain	5700.8	3.755934
Spednik, 1946; 1955	d.m.	45° 37'	17.907	17° 24'	57.4	197° 24'	32.6	Spruce Mountain	2516.5	3.400805
Maine		67° 39'	54.912	124° 52'	27.0	304° 50'	27.4	Walls Hill North	4415.7	3.644998
				145° 36'	10.4	325° 32'	31.5	Pemberton Ridge	11722.1	4.069007
Solid, 1946; 1955	d.m.	45° 37'	30.762	46° 20'	16.9	226° 18'	40.2	Spruce Mountain	4051.9	3.607656
New Brunswick		67° 38'	14.417	79° 40'	42.5	259° 39'	30.6	Spednik	2213.0	3.344978
				110° 09'	52.7	290° 06'	41.2	Walls Hill North	6177.6	3.790821
Norway, 1912; r.1955	d.m.	45° 36'	35.905	78° 23'	19.9	258° 20'	23.0	Spruce Mountain	5476.3	3.738486
New Brunswick		67° 36'	22.156	105° 43'	57.1	285° 41'	25.0	Spednik	4788.6	3.680211
				114° 55'	55.7	294° 51'	24.0	Walls Hill North	9075.8	3.957887
				124° 51'	40.5	304° 50'	20.3	Solid	2963.8	3.471848
Pirate, 1946; 1955	d.m.	45° 33'	19.454	115° 53'	28.4	295° 47'	51.0	Spruce Mountain	11379.2	4.056110
Maine		67° 32'	37.322	127° 04'	45.0	306° 57'	32.7	Walls Hill North	16418.8	4.215341
				136° 39'	57.1	316° 31'	05.5	Pemberton Ridge	23442.6	4.370006
				136° 45'	01.4	316° 41'	00.6	Solid	10657.8	4.027667
				141° 14'	04.3	321° 11'	23.7	Norway	7780.9	3.891031
				243° 50'	43.5	63° 51'	53.4	Vance Mountain	2363.5	3.373563
				279° 19'	16.7	99° 27'	36.3	Brandy Hill	15388.8	4.187204
Fen, 1946; 1955	d.m.	45° 36'	02.226	109° 01'	12.3	288° 59'	32.8	Norway	3192.7	3.504155
New Brunswick		67° 34'	02.861	339° 44'	05.2	159° 45'	06.3	Pirate	5356.5	3.728884
Hardwood Island, 1911;r.1955		45° 36'	01.473	89° 48'	24.8	269° 42'	56.3	Spruce Mountain	9962.8	3.998380
New Brunswick	d.m.	67° 32'	49.976	90° 51'	00.2	270° 50'	08.1	Fen	1579.8	3.198589
				328° 49'	29.3	148° 50'	48.2	Vance Mountain	4628.5	3.665438
				356° 51'	33.0	176° 51'	42.0	Pirate	5009.5	3.699796
Birch Point, 1890;r.1955	d.m.	45° 35'	05.983	132° 26'	02.1	312° 25'	00.3	Hardwood Island	2539.4	3.404730
Maine C.&G.S.		67° 31'	23.497	236° 10'	39.7	56° 15'	04.5	Mount Henry	9665.7	3.985232
				346° 57'	30.6	166° 57'	47.7	Vance Mountain	2306.9	3.363021
Musquash, 1911;r.1955	d.m.	45° 35'	28.678	25° 47'	04.3	205° 46'	17.4	Vance Mountain	3273.8	3.515055
New Brunswick		67° 29'	53.826	41° 38'	25.6	221° 36'	28.8	Pirate	5337.0	3.727298
				70° 11'	14.0	250° 10'	10.0	Birch Point	2066.2	3.315182
				104° 52'	12.6	284° 50'	06.8	Hardwood Island	3949.9	3.596586
Pearce, 1946; 1955	d.m.	45° 36'	18.165	20° 24'	55.3	200° 24'	36.6	Musquash (comp.)	1630.2	3.212232
New Brunswick		67° 29'	27.593	24° 00'	13.6	203° 59'	08.0	Vance Mountain	4899.2	3.690126
				36° 43'	29.6	216° 41'	14.1	Pirate	6881.9	3.837709



International boundary line — St. Croix River — Secondary — State — Maine — Province — New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Indian Island R.M. New Brunswick 1946;1955	d.m.	45 36 27.010 67 27 53.488	40 21 09.5 46 46 09.9 82 22 56.2 230 27 11.9 312 34 49.0	220 18 56.6 226 42 47.1 262 21 48.9 50 29 06.7 132 39 46.0	Vance Mountain Pirate Pearce Mount Henry Brandy Hill	6229.9 8449.5 2057.5 4514.5 12259.1	3.794479 3.926831 3.313338 3.654606 4.088460
Howland 1917;1911;r.1946 Maine	d.m.	45 35 43.927 67 24 54.072	66 06 06.0 66 41 39.7 100 08 14.2 108 54 07.6 174 29 47.2 323 37 24.2	246 00 35.1 246 37 18.7 280 04 58.7 288 51 59.4 354 29 33.8 143 40 13.1	Pirate Vance Mountain Pearce Indian Island R.M. Mount Henry (comp.) Brandy Hill	10990.1 8628.7 6021.4 4109.5 4223.0 8655.9	4.041001 3.935945 3.779700 3.613794 3.625620 3.937310
Elbow Rip, 1888;r.1946 Maine C.&G.S.	d.m.	45 31 00.408 67 25 57.354	71 08 48.9 129 10 00.3 184 15 44.9 188 54 20.4 254 39 30.4	250 57 52.6 309 06 24.6 4 16 16.7 8 55 05.6 74 43 04.4	Tomah Mountain Vance Mountain Mount Henry Howland, 1917 Brandy Hill	21126.9 8451.2 12992.5 8860.0 6747.3	4.324835 3.926918 4.113693 3.947432 3.829127
Scott, flag in tree Maine 1917	n.d.	45 29 28.265 67 30 03.620	171 34 22.6 210 02 30.5 241 57 33.4	351 33 42.8 30 06 11.5 62 00 29.1	Vance Mountain Howland, 1917 Elbow Rip	8268.2 13404.6 6056.0	3.917413 4.127158 3.782189
McGlinchey, 1917 Maine	d.m.	45 28 02.548 67 29 46.581	84 51 43.0 171 41 23.2 203 59 20.3 319 21 15.5	264 43 30.6 351 40 31.2 24 02 49.1 139 28 27.3	Tomah Mountain Vance Mountain Howland, 1917 Oak	15073.3 10940.2 15594.2 20271.9	4.178208 4.039026 4.192962 4.306895
Canoose 1917 New Brunswick	d.m.	45 22 46.228 67 25 07.797	111 48 45.3 159 40 44.0 308 15 35.8	291 37 14.7 339 36 33.3 128 19 28.9	Tomah Mountain Vance Mountain Oak	22695.1 21962.1 9085.0	4.355932 4.341674 3.958327
Keene 1917 Maine	d.m.	45 25 28.521 67 28 40.845	169 04 38.9 312 04 34.7 317 12 57.4	349 03 00.0 132 10 59.5 137 15 29.1	Vance Mountain Oak Canoose	15868.5 15861.4 6824.4	4.200536 4.200342 3.834065
Loon Bay 1917 New Brunswick	n.d.	45 24 37.333 67 27 00.600	313 20 52.9 324 24 40.0	133 26 06.3 144 26 00.3	Oak Canoose	13187.8 4217.3	4.120173 3.625031
Maguerrewoc, 1887;r.1955 Maine C.&G.S.	d.m.	45 09 19.110 67 16 49.250	38 14 44.4 72 44 03.2 198 52 49.6 282 16 32.5	218 06 48.0 252 37 53.0 18 54 47.4 102 24 54.2	Cooper Rye Collins Chamcook	23813.2 11955.0 11184.6 15829.6	4.376818 4.077550 4.048622 4.199470
Middlemiss, 1887;r.1946 New Brunswick C.&G.S.	d.m.	45 12 13.896 67 24 20.355	9 51 55.4 119 55 18.0 203 42 18.0 248 52 14.3 298 40 14.2	189 51 04.8 299 43 25.9 23 45 37.0 68 59 32.4 118 45 34.2	Rye Neal Oak Collins Maguerrewoc	9088.5 25191.5 15174.4 14426.4 11230.6	3.958493 4.401254 4.181111 4.159157 4.050402



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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Clark, 1918; r.1921 New Brunswick	d.m.	45 19 32.484 67 27 05.625	127 53 34.6 203 11 53.8 267 52 51.7 345 04 54.4	307 43 28.1 23 13 17.5 87 58 08.4 165 06 51.8	Tomah Mountain Canoose Oak Middlemiss	23455.4 6507.9 9706.2 14010.9	4.370243 3.813444 3.987050 4.146467
Ross, 1918 Maine	d.m.	45 17 33.075 67 29 39.720	140 01 19.9 252 45 36.7 324 42 53.3	319 53 03.3 72 52 42.9 144 46 40.1	Tomah Mountain Oak Middlemiss	23598.5 13669.4 12066.3	4.372884 4.135750 4.081574
Scotch Ridge Church, steeple New Brunswick C.&G.S. 1887; r.1955	d.	45 16 59.512 67 23 56.329	3 24 12.3 6 40 58.7 99 31 23.0 285 37 45.6 326 42 29.3	183 23 55.2 186 39 51.1 279 19 13.3 105 44 46.9 146 47 32.4	Middlemiss Rye Neal Collins Maguerrewoc	8832.8 17892.8 22669.4 13429.1 16995.3	3.946098 4.252678 4.355440 4.128046 4.230330
Tower Hill, Whorty's house, chimney, 1888 C.&G.S. New Brunswick	d.	45 21 18.005 67 18 09.224	20 35 02.7 82 00 43.0 169 31 59.9 326 01 56.6	200 29 48.5 261 44 26.1 349 30 00.0 146 11 15.9	Rye Neal Brandy Hill Chamcook	27500.0 30210.6 20097.2 30812.1	4.439332 4.480159 4.303136 4.488722
Pomeroy, 1917; r.1955 New Brunswick	d.m.	45 15 13.206 67 26 31.958	136 33 05.4 225 56 12.6 226 59 51.1 332 34 24.8	316 30 52.0 45 58 03.2 47 04 43.7 152 35 58.2	Ross Scotch Ridge Ch. steeple Oak Middlemiss	5949.5 4720.2 12260.5 6235.7	3.774480 3.673965 4.088510 3.794883
Little Ridge Church, tower New Brunswick 1887; r.1955 C.&G.S.	d.	45 12 39.00 67 24 15.93	7 06 17 148 04 35 251 40 26 302 16 48	187 06 14 328 02 59 71 47 41 122 22 05	Middlemiss Pomeroy Collins Maguerrewoc	781.0 5609.5 14073.7 11540.6	2.892673 3.748924 4.148409 4.062227
Hannan, pole in tree, 1887 New Brunswick C.&G.S.	d.	45 15 04.214 67 26 20.679	310 26 56.6 333 27 27.9 355 41 02.7	130 33 42.2 153 28 53.4 175 41 37.5	Maguerrewoc Middlemiss Rye	16402.3 5876.7 14252.5	4.214906 3.769135 4.153892
Anderson, 1887; r.1908 Maine C.&G.S.	d.m.	45 08 15.680 67 23 16.864	61 29 12.7 169 19 45.5 256 56 31.2	241 27 37.2 349 19 00.4 77 01 05.9	Rye Middlemiss Maguerrewoc	3351.3 7483.4 8691.5	3.525210 3.874101 3.939096
Pokeshine, pole in tree Maine 1887 C.&G.S.	d.	45 09 56.315 67 34 35.123	250 32 32.5 252 22 47.0 291 34 12.1 336 33 53.3	70 47 06.7 72 30 03.1 111 40 37.3 156 38 31.5	Collins Middlemiss Rye Cooper	28489.7 14077.6 12773.4 21647.5	4.454688 4.148529 4.106308 4.335408
Mohannas, 1887; r.1946 New Brunswick C.&G.S.	d.m.	45 09 15.612 67 21 25.627	57 19 21.6 222 02 33.7 268 56 53.0	237 16 27.3 42 07 47.6 89 00 08.9	Rye Collins Maguerrewoc	6386.8 14404.1 6038.0	3.805285 4.158486 3.780893
Murchie, 1908; p.1.1946 New Brunswick	d.m.	45 09 09.347 67 22 09.016	41 49 35.3 53 40 23.8 258 27 45.0	221 48 47.2 233 38 00.2 78 28 15.7	Anderson Rye Mohannas	2223.0 5495.8 967.3	3.346948 3.740027 2.985568



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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Baring School, cupola Maine 1887; l. 1946 C.&G.S.		45 08 03.724 67 18 58.019	81 53 29.9 124 32 55.8 206 27 45.8 230 23 19.6	261 48 51.0 304 31 11.2 26 31 14.9 50 24 50.9	Rye Mohannas Collins Maguerrewoc	8688.8 3914.7 14423.5 3651.1	3.938962 3.592695 4.159071 3.562420
Todds Mountain Reservoir, chimney, 1887; r. 1908 New Brunswick C.&G.S.	n.d.	45 10 10.625 67 18 44.773	4 13 32.7 59 57 21.5 64 13 00.1 302 12 41.8	184 13 23.3 239 52 33.2 244 11 06.1 122 14 03.7	Baring School, cupola Rye Mohannas Maguerrewoc	3928.2 10271.6 3902.1 2982.4	3.594189 4.011637 3.591300 3.474572
Farrar, 1887; r. 1946 Maine C.&G.S.	d.m.	45 07 13.749 67 23 39.267	97 14 19.8 217 48 20.3 246 35 48.7	277 13 00.2 37 49 55.0 66 40 39.3	Rye Mohannas Maguerrewoc	2474.9 4762.2 9758.9	3.393560 3.677811 3.989403
John, 1946 New Brunswick	d.m.	45 08 51.779 67 21 53.068	37 29 33.4 219 10 06.1 262 43 29.8	217 28 18.2 39 10 25.6 82 47 05.2	Farrar Mohannas Maguerrewoc	3813.5 949.0 6690.2	3.581326 2.977283 3.825442
Rips, 1946 Maine	d.m.	45 08 15.506 67 22 19.447	207 13 57.1 212 21 23.7 254 44 27.8	27 14 15.8 32 22 01.9 74 48 21.9	John Mohannas Maguerrewoc	1259.4 2196.7 7476.2	3.100156 3.341770 3.873679
St. David, 1867; l. 1887 New Brunswick C.&G.S.		45 15 02.016 67 14 02.202	32 08 54.84 46 50 44.47 319 45 04.30	211 58 59.68 226 42 35.40 139 51 27.88	Cooper Rye Chamcook	34580.5 20653.8 18289.3	4.5388311 4.3149995 4.2621971
Rudd, 1946; 1955 New Brunswick	d.m.	45 13 53.500 67 13 36.173	26 28 19.4 316 28 52.0	206 26 02.4 136 34 57.1	Maguerrewoc Chamcook	9461.2 16334.7	3.975946 4.213112
Todd Mountain, 1908; r. 1955 New Brunswick	d.m.	45 10 14.995 67 18 48.654	215 05 04.4 225 17 05.2 303 28 29.3	35 08 27.0 45 20 47.0 123 29 54.0	Collins Rudd Maguerrewoc	10826.9 9592.4 3126.8	4.034503 3.981929 3.495104
Sinclair 2, 1908; r. 1955 New Brunswick	d.m.	45 10 57.727 67 14 03.123	50 00 51.9 78 04 52.3 179 58 26.1 186 11 00.4	229 58 54.0 258 01 29.7 359 58 26.0 6 11 19.5	Maguerrewoc Todd Mountain Collins Rudd	4736.0 6372.6 7537.4 5458.0	3.675413 3.804319 3.877224 3.737035
Olive, 1946; 1955 Maine	d.m.	45 09 27.748 67 14 28.752	85 02 51.9 187 57 31.1 191 23 21.5	265 01 12.2 7 58 08.4 11 23 39.7	Maguerrewoc Rudd Sinclair 2	3080.4 8283.8 2833.5	3.488613 3.918232 3.452329
Table Top, 1866; r. 1946 New Brunswick C.&G.S.	d.m.	45 09 56.212 67 07 46.347	84 19 48.9 84 32 10.6 103 02 03.7 133 50 46.3 321 29 54.0	264 15 03.6 264 25 45.6 282 57 36.5 313 46 38.1 141 31 50.9	Olive Maguerrewoc Sinclair 2 Rudd Chamcook	8832.7 11912.9 8443.6 10581.2 5786.9	3.946093 4.076018 3.926530 4.024534 3.762447



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STATION		LATITUDE AND LONGITUDE		AZIMUTH		BACK AZIMUTH		TO STATION		DISTANCE (METERS)	LOGARITHM
Cookson Island, 1866;r.1946 New Brunswick C.&G.S. d.m.		45° 13' 06.540 67 10 57.204	34° 22' 59.7 45 35 53.2 47 37 20.7 112 42 02.1 323 13 27.7 324 38 28.5	214° 20' 29.7 225 33 41.3 227 33 10.9 292 40 09.3 143 17 40.0 144 40 43.9	Olive Sinclair 2 Maguerrewoc Rudd Chamcook Table Top		8182.2 5681.5 10409.7 3759.0 12984.8 7202.8	3.912870 3.754461 4.017437 3.575067 4.113434 3.857501			
Lane, 1866;r.1946 Maine C.&G.S. d.m.		45° 09' 31.688 67 13 03.186	86 17 05.0 153 46 21.7 202 30 33.0 263 43 31.2	266 16 04.3 333 45 39.2 22 32 02.3 83 47 15.8	Olive Sinclair 2 Cookson Island Table Top		1872.9 2961.1 7180.2 6961.3	3.272513 3.471447 3.856138 3.842689			
Bald, 1946; 1955 New Brunswick d.m.		45° 10' 37.758 67 11 48.400	58 20 02.9 69 44 56.1 101 50 58.2 158 44 32.4 193 40 08.2	238 18 09.2 249 41 22.6 281 49 22.7 338 43 16.0 13 40 44.4	Olive Maguerrewoc Sinclair 2 Rudd Cookson Island		4115.1 7004.5 3005.4 6484.3 4727.0	3.614382 3.845380 3.477907 3.811865 3.674584			
Hitchings, 1909;r.1955 Maine d.m.		45° 09' 31.398 67 16 43.244	19 04 40.2 116 10 51.5 206 45 36.5 228 38 39.9 232 40 14.1 252 19 20.3 266 12 34.3 272 11 00.6	199 04 36.0 296 09 22.6 26 47 49.3 48 42 45.5 52 42 07.8 72 22 49.5 86 18 55.2 92 12 36.1	Maguerrewoc Todd Mountain Rudd Cookson Island Sinclair 2 Bald Table Top Olive		401.4 3051.7 9063.3 10058.7 4396.4 6757.0 11751.2 2939.8	2.603570 3.484545 3.957285 4.002541 3.643102 3.829752 4.070082 3.468312			
Calais Congregational Church, spire, 1909;r.1955 Maine d. 1. 1957		45° 11' 13.176 67 16 36.341	2 44 51.1 58 08 36.1 218 26 45.1 278 05 57.5 281 32 59.4 303 55 25.1 319 25 20.3	182 44 46.2 238 07 02.3 38 28 53.1 98 07 46.3 101 39 15.4 123 57 56.4 139 26 50.9	Hitchings Todd Mountain Rudd Sinclair 2 Table Top Lane Olive		3145.6 3401.8 6320.9 3378.9 11813.9 5610.8 4284.3	3.497700 3.531707 3.800782 3.528772 4.072395 3.749022 3.631879			
Mound, 1909;r. 1946; Maine 1. 1955 d.m.		45° 10' 27.521 67 14 52.074	228 53 30.9 305 55 26.8 344 34 00.4	48 54 05.6 125 56 44.0 164 34 16.9	Sinclair 2 Lane Olive		1418.4 2936.9 1914.2	3.151803 3.467895 3.281993			
Knights Point, 1909;r.1955 Maine d.m.		45° 09' 59.954 67 14 12.506	19 38 31.7 134 34 05.0 186 33 09.4 270 44 48.2	199 38 20.1 314 33 36.9 6 33 16.0 90 49 21.9	Olive Mound Sinclair 2 Table Top		1055.6 1212.8 1795.2 8434.2	3.023512 3.083778 3.254121 3.926044			
Meadow, 1909;r.1955 Maine d.m.		45° 10' 07.865 67 14 32.058	144 14 11.8 202 18 48.6 299 45 54.9	324 13 57.6 22 19 09.1 119 46 08.8	Mound Sinclair 2 Knights Point		747.8 1663.9 491.9	2.873796 3.221129 2.691874			
Calais Observatory, 1866 p.l. Maine C.&G.S. d.m.		45° 11' 04.914 67 16 52.609	206 54 46.5 244 08 09.6 293 06 32.1 299 51 09.5	26 56 47.4 64 12 21.7 113 14 56.2 119 53 52.2	St. David Cookson Island Chamcook Lane		8209.8 8617.9 16896.9 5777.7	3.914332 3.935399 4.227806 3.761754			



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Secondary

State Maine

Province New Brunswick

STATION		LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
Wolves, 1861; 1913; 1918	d.m.	44	56	11.986	13	10	36.60	193	08	39.55	Grand Manan (G.S. of C.)	15998.2	4.2040716
New Brunswick G.S. of C.		66	44	05.109	127	22	23.24	307	07	34.35	Chamcook	34552.0	4.5384729
C.&G.S.					191	04	06.02	11	07	32.83	Jake Lee (G.S. of C.)	33186.0	4.5209551
Arcus, 1860; r. 1946	d.m.	44	54	11.567	113	19	08.5	293	07	30.3	Cooper	23577.8	4.3725030
Maine C.&G.S.		67	11	33.804	199	11	15.9	19	15	53.4	Chamcook	26086.2	4.4164112
					262	41	29.6	82	49	11.4	Prince Regents Redoubt	14462.9	4.1602548
					337	27	24.9	157	30	58.5	Trescott Rock	17379.2	4.2400300
Hannah, 1860; 1913 p.l.		44	58	04.400	34	08	52.2	214	06	55.1	Prince Regents Redoubt	6479.7	3.8115580
New Brunswick C.&G.S.		66	57	53.918	68	17	21.0	248	07	41.9	Arcus	19361.2	4.2869323
					151	49	50.8	331	44	48.2	Chamcook	19795.4	4.2965632
					280	43	55.3	100	53	40.9	Wolves	18496.5	4.2670899
Perry Pigeon, 1860	p.l.	44	57	05.722	62	51	46.2	242	46	09.1	Arcus	11767.6	4.0706880
Maine C.&G.S.		67	03	36.480	174	29	15.7	354	28	15.5	Chamcook	19345.0	4.2865684
					256	24	10.4	76	28	12.4	Hannah	7723.6	3.8878213
					312	29	37.4	132	31	42.2	Prince Regents Redoubt	5256.9	3.7207288
Shortland, 1863; 1909; r. 1946	d.m.	45	05	25.863	146	26	53.4	326	24	10.1	Lane	9108.3	3.959435
Maine C.&G.S.		67	09	12.710	192	44	03.6	12	45	04.8	Table Top	8556.5	3.932297
					235	10	52.6	55	13	50.6	Chamcook	6687.3	3.825251
					334	28	28.7	154	32	26.6	Perry Pigeon	17104.5	4.233111
Navy Island, 1863; r. 1946	d.m.	45	03	17.056	6	07	20.0	186	06	40.4	Perry Pigeon	11528.6	4.061777
New Brunswick C.&G.S.		67	02	40.391	114	53	54.3	294	49	16.5	Shortland	9458.4	3.975816
					158	24	31.5	338	22	51.6	Chamcook	8381.1	3.923300
					326	56	57.4	147	00	20.0	Hannah	11511.2	4.061120
North Head, 1861; r. 1913	d.m.	45	01	23.736	11	42	44.5	191	42	03.3	Hannah	6284.2	3.798247
New Brunswick C.&G.S.		66	56	55.708	47	49	33.6	227	44	50.3	Perry Pigeon	11854.3	4.073875
					114	54	37.0	294	50	33.1	Navy Island	8315.9	3.919908
					114	56	24.2	294	47	42.5	Shortland	17774.2	4.249791
					136	46	58.2	316	41	14.2	Chamcook	15504.8	4.190465
					299	36	24.4	119	45	29.1	Wolves	19434.0	4.288563
Bin, 1946; 1955	d.m.	45	04	19.964	118	42	01.7	298	40	01.3	Shortland (comp.)	4238.4	3.627202
Maine		67	06	22.706	196	52	24.6	16	53	22.2	Chamcook	6113.7	3.786307
					291	44	35.4	111	47	12.8	Navy Island	5237.2	3.719101
C-Sub p. 1894; r. 1955	d.m.	45	01	10.608	157	44	03.3	337	42	45.9	Bin	6316.9	3.800501
Maine		67	04	33.290	176	58	54.0	356	58	34.1	Chamcook	11711.9	4.068629
					212	19	33.0	32	20	52.9	Navy Island	4619.9	3.664632
Tongue 1946; 1955	d.	45	03	44.419	46	05	05.0	226	02	25.7	C-Sub	6842.9	3.835243
New Brunswick		67	00	48.151	71	01	48.3	251	00	28.9	Navy Island	2597.0	3.414479
					98	33	33.1	278	29	36.3	Bin	7400.8	3.869279
					141	27	19.6	321	24	20.3	Chamcook	8886.0	3.948707
Joos, 1946; 1955	d.m.	45	04	35.980	74	44	02.5	254	43	03.9	Bin	1876.8	3.273419
New Brunswick		67	04	59.936	354	44	31.6	174	44	50.4	C-Sub	6366.6	3.803906



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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM	
Apple Point, 1909;r.1955	d.m.	45 05 53.467	13 28 15.4	193 27 53.0	Bin	2968.1	3.472476	
New Brunswick		67 05 51.098	79 04 48.0	259 02 25.2	Shortland	4490.2	3.652264	
			334 55 38.5	154 56 14.7	Joos	2640.8	3.421732	
Lambs Bluff, 1909;r.1955	d.m.	45 05 51.914	74 12 28.1	254 10 56.1	Shortland	2952.7	3.470223	
Maine		67 07 02.782	221 20 37.7	41 22 03.7	Chamcook	4012.3	3.603397	
			268 14 30.0	88 15 20.8	Apple Point	1568.1	3.195383	
Little Docket, 1909;r.1955	d.m.	45 06 48.348	36 54 15.4	216 53 13.5	Shortland	3184.0	3.502975	
Maine		67 07 45.279	250 27 19.2	70 29 15.3	Chamcook	3798.1	3.579563	
			304 09 12.1	124 10 33.0	Apple Point	3016.9	3.479562	
			331 55 28.3	151 55 58.4	Lambs Bluff	1974.4	3.295435	
Bean 1946	d.	45 03 46.906	10 52 34.7	190 52 04.7	C-Sub	4913.1	3.691354	
New Brunswick		67 03 50.950	107 06 05.8	287 04 18.4	Bin	3473.2	3.540735	
			135 06 58.0	315 06 09.2	Joos	2138.3	3.330078	
B-Sub p.1894;r.1955	d.m.	44 59 14.505	155 59 15.2	335 58 23.6	C-Sub	3923.9	3.593713	
Maine		67 03 20.361	175 26 59.6	355 26 38.0	Bean	8435.6	3.926116	
			186 39 45.4	6 40 13.7	Navy Island	7538.5	3.877283	
			201 47 00.2	21 48 47.9	Tongue	8973.9	3.952979	
Clam 1946	d.m.	44 58 33.902	113 34 14.6	293 32 41.9	B-Sub	3136.0	3.496382	
New Brunswick		67 01 09.155	137 16 23.2	317 13 58.9	C-Sub	6587.3	3.818710	
			159 52 53.5	339 50 59.1	Bean	10291.3	4.012470	
			167 08 05.7	347 07 01.2	Navy Island	8966.3	3.952613	
			182 44 40.8	2 44 55.7	Tongue	9596.6	3.982119	
Glee, 1946; 1955	d.m.	44 58 46.628	159 10 20.1	339 10 09.6	B-Sub	920.7	2.964130	
Maine		67 03 05.418	183 45 11.8	3 45 29.6	Navy Island	8366.0	3.922519	
			198 05 26.5	18 07 03.6	Tongue	9671.6	3.985497	
			278 45 18.8	98 46 41.0	Clam	2577.6	3.411208	
A-Sub p.1894;r.1955	d.m.	44 58 46.559	100 26 34.3	280 26 33.9	Glee	11.71	1.068573	
Maine		67 03 04.892	158 33 13.0	338 33 02.1	B-Sub	926.9	2.967013	
Haven, 1946	d.m.	44 58 18.407	109 39 55.0	289 38 36.3	Glee	2590.1	3.413313	
New Brunswick		67 01 14.100	122 03 28.3	302 01 59.1	B-Sub	3263.7	3.513715	
			192 45 53.3	12 45 56.8	Clam	490.4	2.690582	
Pleasant Point, 1913;r.1955	d.m.	44 57 31.999	167 45 48.7	347 45 32.5	Glee	2357.3	3.372423	
Maine		67 02 42.615	168 01 35.9	348 01 20.1	A-Sub	2352.9	3.371595	
			226 58 34.3	46 59 40.3	Clam	2801.2	3.447341	
Pleasant Point, 1893;r.1955	d.m.	44 57 31.587	146 05 51.6	326 05 51.3	Pleasant Point, 1913	15.30	1.184720	
Maine C.&G.S.		67 02 42.226	167 53 18.3	347 53 02.2	A-Sub	2367.1	3.374208	
Trott, 1887;r. 1955	d.m.	44 57 05.414	170 34 51.3	350 34 10.8	C-Sub (comp.)	7672.6	3.884943	
Maine C.&G.S.		67 03 35.941	229 39 03.1	49 40 46.8	Clam	4220.3	3.625339	
			234 55 22.3	54 56 00.0	Pleasant Point, 1913	1428.2	3.154787	
			312 30 15.9	132 32 20.3	Prince Regents Redoubt	5241.8	3.719478	



GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line St. Croix River

Secondary

State Maine

Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Cumming, 1893;r. 1946 New Brunswick C.&G.S.	d.m.	44 56 52.680 67 00 03.835	14 02 33.8 94 51 11.4 109 05 50.1 109 14 25.8 131 29 25.6 155 23 26.3	194 02 08.3 274 48 41.5 289 03 58.2 289 12 33.6 311 27 17.2 335 22 40.1	Prince Regents Redoubt Trott Pleasant Point, 1893 Pleasant Point, 1913 Glee Clam	3246.6 4666.3 3673.8 3686.1 5311.3 3437.0	3.511434 3.668973 3.565119 3.566563 3.725204 3.536181
Kendall 2 (Kendall Head) Maine 1893;r.1955 C.&G.S.	d.m.	44 55 57.506 67 00 56.464	120 57 36.9 141 24 28.2 141 25 37.7 214 06 45.2 345 46 48.0	300 55 44.2 321 23 13.5 321 24 22.7 34 07 22.4 165 46 59.7	Trott Pleasant Point, 1893 Pleasant Point, 1913 Cumming Prince Regents Redoubt	4076.7 3716.3 3731.5 2057.3 1492.2	3.610310 3.570105 3.571884 3.313292 3.173822
Racoon Hill, 1860;r.1918 New Brunswick C.&G.S.	d.m.	44 54 42.981 66 56 34.285	99 02 14.9 211 46 22.8	278 59 21.6 31 47 21.4	Prince Regents Redoubt Hannabury	5451.6 3455.3	3.736521 3.538482
Quoddy, 1860;r.1946 Maine C.&G.S.	d.m.	44 48 51.161 66 57 48.388	61 49 49.4 118 42 15.0 162 12 45.7 179 35 36.3 232 56 19.5	241 43 41.3 298 32 32.7 342 10 44.8 359 35 32.4 53 06 00.4	Trescott Rock Arcus Prince Regents Redoubt Hannah Wolves	13035.6 20646.3 12303.6 17078.4 22621.5	4.1151315 4.3148418 4.0900329 4.2324475 4.3545210
Grand Manan, 1861; 1913 New Brunswick C.&G.S.	d.m.	44 44 52.736 66 49 53.137	73 47 25.0 93 12 57.7 118 04 16.8 125 12 22.2 143 23 25.2 154 39 17.0	253 23 35.9 273 01 15.2 297 37 21.9 305 06 47.4 323 15 49.3 334 28 35.3	Howard Trescott Rock Cooper Quoddy Prince Regents Redoubt Chamcook	46649.1 21979.0 56831.5 12780.6 23781.5 46376.5	4.6688430 4.3420082 4.7545888 4.1065526 4.3762401 4.6662982
Anley, 1863; r.1913 New Brunswick C.&G.S.	d.m.	45 03 04.583 66 52 43.328	36 18 32.1 60 37 17.8 91 44 48.6 116 56 13.5	216 14 52.4 240 34 19.2 271 37 46.0 296 47 30.7	Hannah North Head Navy Island Chamcook	11494.8 6341.0 13070.8 18096.2	4.060502 3.802156 4.116302 4.257587
White Horse, 1863;r.1918 New Brunswick C.&G.S.	d.m.	44 59 30.821 66 52 20.948	69 56 46.8 120 06 36.7 175 45 19.3 299 24 37.3	249 52 51.4 300 03 22.4 355 45 03.5 119 30 27.7	Hannah North Head Anley Wolves	7767.9 6953.8 6617.0 12480.5	3.890305 3.842225 3.820658 4.096233
Hannabury, 1860;r.1918 New Brunswick C.&G.S.	d.m.	44 56 18.131 66 55 11.306	73 54 05.4 97 36 20.5 132 38 23.2 166 22 51.3 212 05 54.5 270 40 42.8	253 50 13.5 277 30 23.7 312 36 28.3 346 21 37.5 32 07 54.9 90 48 33.4	Prince Regents Redoubt Perry Pigeon Hannah North Head White Horse Wolves	7497.9 11172.2 4844.3 9707.3 7022.9 14608.5	3.874939 4.048138 3.685232 3.987097 3.846517 4.164606
Porcupine, 1860;r.1946 Maine C.&G.S.	d.m.	44 49 20.301 67 01 20.959	43 59 36.4 123 48 44.9 184 46 37.3 195 39 52.9 212 08 04.7 280 52 49.7 298 34 34.6	223 55 58.1 303 41 32.6 4 47 06.4 15 42 19.0 32 12 25.5 100 55 19.6 118 42 39.2	Trescott Rock Arcus Prince Regents Redoubt Hannah Hannabury Quoddy Grand Manan (C.&G.S.)	9813.5 16182.5 10852.6 16804.2 15237.5 4756.4 17229.9	3.991826 4.209045 4.035535 4.225419 4.182915 3.677276 4.236283



## INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA

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GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line		St. Croix River (Passamaquoddy Bay)		Secondary		State		Maine		Province		New Brunswick	
STATION		LATITUDE AND LONGITUDE		AZIMUTH		BACK AZIMUTH		TO STATION		DISTANCE (METERS)		LOGARITHM	
Case, 1886; n.r. 1946	d.m.	44	52	52.047	107	41	08.7	287	37	00.6	Arcus	8095.4	3.908236
Maine C.&G.S.		67	05	42.256	199	29	38.6	19	31	07.9	Trott	8297.5	3.918946
					237	09	47.2	57	13	20.8	Prince Regents Redoubt	7896.6	3.897439
					318	41	49.0	138	44	53.3	Porcupine	8697.5	3.939395
Hersey, 1887; r. 1946	d.m.	44	55	29.673	67	28	33.9	247	25	27.0	Arcus	6287.2	3.798459
Maine C.&G.S.		67	07	09.091	237	40	14.0	57	42	44.7	Trott	5529.6	3.742696
					273	53	46.6	93	58	21.6	Prince Regents Redoubt	8559.2	3.932433
					338	36	33.9	158	37	35.2	Case	5225.4	3.718123
Gove, 1886; r. 1946	d.m.	44	54	06.058	51	48	37.9	231	47	04.5	Case	3694.2	3.567517
Maine C.&G.S.		67	03	29.964	118	15	25.0	298	12	50.3	Hersey	5455.9	3.736863
					178	38	39.7	358	38	35.6	Trott	5538.2	3.743365
					224	22	00.1	44	23	48.6	Kendall 2 (comp.)	4813.7	3.682478
					241	52	53.2	61	54	53.4	Prince Regents Redoubt	4232.9	3.626634
					342	11	10.4	162	12	41.4	Porcupine	9264.6	3.966825
Campobello, 1893; r. 1955	d.m.	44	54	08.543	89	29	12.4	269	24	54.7	Gove	8008.6	3.903559
New Brunswick C.&G.S.; r. 1961		66	57	24.953	114	10	54.4	294	08	36.8	Prince Regents Redoubt	4683.5	3.670574
					125	57	49.2	305	55	19.9	Kendall 2	5730.3	3.758179
					145	29	56.5	325	28	04.4	Cumming	6149.3	3.788824
Treat 2, 1893; r. 1946	d.m.	44	52	43.549	21	57	30.8	201	56	09.4	Porcupine (comp.)	6764.3	3.830222
Maine C.&G.S.; r. 1961		66	59	25.829	115	27	03.3	295	24	10.9	Gove	5932.0	3.773199
					145	51	38.0	325	48	41.4	Trott	9769.4	3.989869
					160	21	03.8	340	20	11.5	Prince Regents Redoubt	4821.8	3.683207
					225	18	05.0	45	19	30.3	Campobello	3730.9	3.571815
Buckman, 1910; r. 1913	d.m.	44	53	51.568	1	11	17.3	181	11	15.9	Treat 2	2100.1	3.322250
Maine C.&G.S.		66	59	23.845	258	37	48.7	78	39	12.6	Campobello	2660.7	3.424993
Friars Head 3, 1910; r. 1955; 1961	d.m.	44	52	33.960	101	46	05.9	281	45	20.2	Treat 2	1452.1	3.161990
New Brunswick C.&G.S.		66	58	21.062	150	06	07.5	330	05	23.2	Buckman	2763.6	3.441482
					202	51	38.9	22	52	18.5	Campobello	3168.7	3.500883
Cherry Island bell tower	d.	44	55	07.002	4	58	58.9	184	58	45.7	Friars Head 3	4742.2	3.675978
New Brunswick 1910; l. 1955		66	58	02.297	22	29	32.3	202	28	33.4	Treat 2	4792.6	3.680569
C.&G.S.; r. 1961					37	32	32.1	217	31	34.6	Buckman	2936.4	3.467822
					335	34	50.4	155	35	16.8	Campobello	1981.8	3.297062
Lubec Narrows Light	d.	44	51	46.783	154	59	36.3	334	59	10.0	Treat 2	1933.6	3.286367
(Mulholland Point Light) C.&G.S.		66	58	48.589	168	38	41.2	348	38	16.3	Buckman	3928.9	3.594276
New Brunswick 1910; r. 1955, 1961					202	31	58.4	22	32	17.8	Friars Head 3	1576.7	3.197745
Lubec Church spire, 1861; r. 1955	d.	44	51	37.690	32	38	26.1	212	36	58.7	Porcupine	5035.8	3.702068
Maine C.&G.S.; r. 1961		66	59	17.330	129	34	53.2	309	31	54.8	Gove	7191.7	3.856830
					164	37	28.4	344	36	30.1	Prince Regents Redoubt	6818.1	3.833663
					174	45	26.0	354	45	20.0	Treat 2	2041.5	3.309960
					215	24	43.9	35	25	23.6	Friars Head 3	2131.4	3.328670
					339	10	59.1	159	12	01.6	Quoddy	5499.3	3.740305
Bishop 1861	l.	44	47	56.172	80	21	30.7	260	07	38.5	Trescott Rock	26356.8	4.420893
New Brunswick C.&G.S.		66	46	49.443	96	45	00.1	276	37	15.7	Quoddy	14580.2	4.163763
					142	13	40.8	322	05	51.9	Hannah	23773.6	4.376095
					193	14	49.0	13	16	44.9	Wolves	15724.7	4.196582



GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line St. Croix River (Passamaquoddy Bay) Secondary State Maine Province New Brunswick

STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Indian Island (Indian Head) New Brunswick 1860;r.1918 d.m. C.&G.S.	44° 56' 14.167 66 58 10.923	59 01 06.6 186 14 59.1 268 12 11.1	238 59 21.5 6 15 11.1 88 14 17.9	Prince Regents Redoubt Hannah Hannabury	3807.5 3423.2 3940.2	3.580641 3.534430 3.595520
Little 2, 1886;r.1946 Maine C.&G.S.	44 51 09.534 67 09 37.430	155 33 59.0 202 03 06.7 235 55 15.8 238 28 16.5 287 08 01.7 338 31 58.6	335 32 36.9 22 04 51.4 55 59 35.1 58 31 02.4 107 13 51.8 158 34 10.1	Arcus Hersey Gove Case Porcupine Trescott Rock	6172.5 8665.0 9733.8 6055.5 11414.1 11212.0	3.790461 3.937767 3.988282 3.782148 4.057441 4.049685
Smart, 1887; r.1946 Maine C.&G.S.	44 57 47.137 67 07 15.748	40 24 05.0 284 56 43.4 299 03 09.5 358 01 46.4	220 21 02.8 104 59 18.8 119 07 49.3 178 01 51.1	Arcus Trott Prince Regents Redoubt Hersey	8735.1 4987.1 9935.6 4246.0	3.941270 3.697848 3.997193 3.627975
Oak, 1887;r. 1946 Maine C.&G.S.	44 56 26.074 67 12 03.943	248 21 47.0 285 02 32.5 341 46 27.6 350 57 05.4	68 25 10.5 105 06 00.7 161 48 11.0 170 57 26.7	Smart Hersey Little 2 Arcus	6795.0 6695.9 10286.6 4204.4	3.832192 3.825807 4.012271 3.623706
King, 1887;r.1946 Maine C.&G.S.	44 54 19.788 67 14 15.163	216 25 23.0 256 57 36.8 274 05 03.7	36 26 55.6 77 02 37.6 94 06 57.6	Oak Hersey Arcus	4845.6 9591.6 3549.1	3.685345 3.981889 3.550121
Dyer, 1886;r.1946 Maine C.&G.S.	44 48 44.123 67 05 15.933	15 29 28.1 128 01 51.6 175 40 59.1 193 10 01.7 257 46 18.1	195 28 35.3 307 58 47.2 355 40 40.5 13 11 16.4 77 49 03.7	Trescott Rock Little 2 Case Gove Porcupine	6170.9 7289.9 7674.9 10206.5 5282.3	3.790347 3.862721 3.885075 4.008877 3.722820
Leighton, 1886;r.1946 Maine C.&G.S.	44 48 13.040 67 08 59.343	171 16 23.3 258 55 11.8 326 46 49.5	351 15 56.4 78 57 49.2 146 48 34.1	Little 2 Dyer Trescott Rock	5512.0 5002.4 5960.7	3.741310 3.699182 3.775297
McCurdy, 1886; r.1946 Maine C.&G.S.	44 49 37.905 67 06 37.987	49 52 07.3 125 41 01.0 191 32 08.0 274 25 49.2 312 38 00.0 358 49 16.3	229 50 27.7 305 38 54.4 11 32 47.2 94 29 32.6 132 38 57.8 178 49 21.3	Leighton Little 2 Case Porcupine Dyer Trescott Rock	4063.2 4851.1 6116.6 6986.0 2450.8 7608.7	3.608871 3.685839 3.786513 3.844230 3.389303 3.881310
Mine Hill, 1886;r.1946 Maine C.&G.S.	44 50 18.965 67 03 58.709	30 05 57.8 70 06 06.8 101 53 04.8 154 19 04.3 185 08 27.2 297 34 30.1	210 05 03.3 250 04 14.5 281 49 05.9 334 17 51.2 5 08 47.4 117 36 21.2	Dyer McCurdy Little 2 Case Gove Porcupine	3383.7 3721.2 7600.7 5243.9 7038.5 3909.9	3.529389 3.570685 3.880856 3.719658 3.847478 3.592171



INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA  
GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

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International boundary line St. Croix River (Passamaquoddy Bay) Secondary Maine State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Cannon, 1887; r. 1946 Maine C.&G.S.	d.m.	44 56 27.803 67 04 40.472	11 30 30.1 61 10 36.0 125 45 00.9 230 37 05.5 294 15 38.6	191 29 46.5 241 08 51.0 305 43 11.2 50 37 51.2 114 18 28.7	Case Hersey Smart Trott Prince Regents Redoubt	6796.7 3720.3 4193.3 1830.1 5791.2	3.832298 3.570577 3.622552 3.262485 3.762767
Campbell, 1887; r. 1946 Maine C.&G.S.	d.m.	44 57 04.107 67 09 26.158	27 44 15.9 71 16 04.3 245 03 46.5 314 06 48.2	207 42 45.8 251 14 12.9 65 05 18.6 134 08 25.0	Arcus Oak Smart Hersey	6017.0 3653.0 3152.0 4186.9	3.779381 3.562644 3.498588 3.621892
Page, 1887; r. 1946 Maine C.&G.S.	d.m.	44 55 05.052 67 12 58.535	50 16 21.6 205 34 22.9 264 18 08.1 311 36 19.0	230 15 27.5 25 35 01.4 84 22 14.8 131 37 18.8	King Oak Hersey Arcus	2185.8 2772.9 7701.7 2486.1	3.339615 3.442928 3.886589 3.395517
East Quoddy Light, 1860 New Brunswick C.&G.S.	n.d.	44 57 28.309 66 54 02.185	34 58 40.6 67 15 20.2 102 23 43.5 210 23 03.8 280 08 42.2	214 57 51.8 247 12 24.5 282 20 59.8 30 24 15.4 100 15 44.1	Hannabury Indian Island Hannah White Horse Wolves	2643.7 5913.8 5199.6 4384.5 13299.9	3.422215 3.771866 3.715968 3.641918 4.123847
Denboe, 1861 Maine C.&G.S.	d.m.	44 52 52.301 67 05 42.742	107 39 21.2 199 28 57.9 237 15 09.3 318 40 40.8	287 35 13.4 19 30 27.1 57 18 43.2 138 43 45.4	Arcus Perry Pigeon Prince Regents Redoubt Porcupine	8082.8 8298.7 7901.3 8710.4	3.907563 3.919009 3.897700 3.940040
Cox, 1887; r. 1946 Maine C.&G.S.	d.m.	44 52 06.059 67 10 03.058	126 45 10.1 152 48 15.6 161 43 38.3 211 15 12.2 256 02 48.8 342 07 27.0	306 42 12.2 332 47 11.6 341 42 13.0 31 17 15.1 76 05 52.8 162 07 45.1	King Arcus Oak Hersey Case Little 2	6903.0 4356.2 8453.3 7353.7 5898.1 1833.3	3.839035 3.639109 3.927024 3.866506 3.770709 3.263243
Bradley, 1886; r. 1913 Maine C.&G.S.	d.m.	44 52 11.839 67 04 39.676	28 40 48.7 132 06 22.8 203 26 59.4 345 31 12.9	208 39 25.3 312 05 38.6 23 27 48.6 165 31 41.8	McCurdy Case Gove Mine Hill	5415.7 1851.3 3843.4 3598.6	3.733654 3.267480 3.584718 3.556129
Mowes Mtn., 1886; r. 1946 Maine C.&G.S.	d.m.	44 52 15.382 67 07 31.321	53 43 43.0 244 41 04.8 307 34 02.2 346 26 55.1	233 42 14.0 64 42 21.7 127 36 32.2 166 27 32.8	Little 2 Case Mine Hill McCurdy	3434.8 2648.0 5891.4 5000.2	3.535897 3.422921 3.770221 3.698989
Small, 1886; r. 1913 Maine C.&G.S.	d.m.	44 50 41.857 67 02 11.495	48 07 36.1 73 18 22.5 164 43 28.3 336 12 01.9	228 05 26.1 253 17 07.0 344 42 33.0 156 12 37.5	Dyer Mine Hill Gove Porcupine	5442.8 2458.5 6534.6 2751.4	3.735823 3.390664 3.815218 3.439554



GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line St. Croix River (Passamaquoddy Bay) Secondary Maine State New Brunswick Province

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
Baptist, 1886;r. 1946 Maine C.&G.S.	44	49	38.091	63	00	51.4	242	59	06.5	Dyer	3669.4	3.564596
	67	02	47.126	107	25	56.9	287	21	07.6	Little 2	9443.4	3.975129
				128	45	06.1	308	44	15.7	Mine Hill	2016.0	3.304500
				201	40	46.1	21	41	11.2	Small	2118.3	3.325980
				286	10	06.0	106	11	06.7	Porcupine	1971.1	3.294703
Indian Point, 1861; 1919 New Brunswick C.&G.S.; I.B.C. r. 1961	44	50	02.768	19	32	02.3	199	31	37.2	Quoddy	2345.4	3.370209
	66	57	12.699	76	30	31.2	256	27	36.2	Porcupine	5609.1	3.748893
				136	57	51.6	316	56	24.0	Lubec Church Spire	4009.6	3.603102
				285	51	56.2	105	59	15.6	Bishop	14241.0	4.153541
White Horse 1918 New Brunswick G.S. of C.	44	59	30.756	131	40	47.1	311	31	48.7	Chamcook	22256.5	4.347456
	66	52	20.911	213	00	45.0	33	10	03.1	Jake Lee	31545.9	4.498943
				299	24	14.8	119	30	05.1	Wolves	12478.8	4.096173
				341	31	53.2	161	35	45.9	Grand Manan	22888.7	4.359621
E. Campobello, 1918 New Brunswick G.S. of C.	44	54	36.668	207	48	37.6	27	58	45.9	Jake Lee	40176.0	4.603967
	66	53	32.288	256	38	09.4	76	44	49.9	Wolves	12782.5	4.106615
				325	04	19.6	145	09	02.6	Grand Manan	15404.3	4.187642
W. Campobello, 1918 New Brunswick G.S. of C.	44	50	36.831	196	38	10.1	16	39	21.3	E. Campobello	7727.4	3.888032
	66	55	13.137	234	43	18.5	54	51	10.0	Wolves	17942.6	4.253886
				295	19	28.4	115	25	22.3	Grand Manan	12209.6	4.086703
Wolves Light House, 1871;r. 1918 (Southwest Wolf Island Light- house) New Brunswick G.S. of C. d.	44	56	12.584	65	28	56.4	245	28	55.1	Wolves	44.46	1.648012
	66	44	03.264	127	18	30.5	307	03	40.3	Chamcook	34572.9	4.538736
				191	00	22.4	11	03	47.9	Jake Lee	33160.2	4.520617



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GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line St. Croix River - Monument Brook - Tertiary State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Traverse Station 1 Maine 1912; 1921	n.d.	45° 56' 31.752 67° 46' 54.479	180° 06' 26"	0° 06' 26"	Initial Monument (Mon. 1)	138.2	2.140600
Traverse Station 2 New Brunswick 1912; 1921; r. 1939	d.m.	45° 56' 03.072 67° 46' 40.845	161° 39' 04"	341° 38' 54"	Traverse Station 1	932.9	2.969858
Ref. Mon. 2 Maine 1913; 1921; r. 1939	d.m.	45° 56' 02.215 67° 46' 40.437	161° 39' 04"	341° 39' 04"	Traverse Station 2	27.9	1.445433
Traverse Station 3 New Brunswick 1912; 1921	n.d.	45° 56' 02.367 67° 46' 23.385	93° 19' 00"	273° 18' 48"	Traverse Station 2	376.8	2.576093
Traverse Station 4 New Brunswick 1912; 1921	n.d.	45° 55' 59.371 67° 46' 21.153	152° 31' 40"	332° 31' 38"	Traverse Station 3	104.2	2.018061
Traverse Station 5 Maine 1912; 1921; r. 1939	d.m.	45° 55' 54.603 67° 46' 20.142	171° 35' 04"	351° 35' 04"	Traverse Station 4	148.8	2.172610
Traverse Station 6 New Brunswick 1912; 1921	d.m.	45° 55' 50.436 67° 45' 59.686	106° 16' 46"	286° 16' 32"	Traverse Station 5	459.1	2.661928
Ref. Mon. 3 Maine 1912; 1921; r. 1939	d.m.	45° 55' 40.146 67° 45' 58.483	175° 20' 07"	355° 20' 06"	Traverse Station 6	318.8	2.503470
Traverse Station 8 Maine 1912; 1921; r. 1939	d.m.	45° 55' 38.859 67° 45' 42.109	96° 25' 48"	276° 25' 36"	Ref. Mon. 3	355.0	2.550258
Traverse Station 9 New Brunswick 1912; 1921	n.d.	45° 55' 31.684 67° 45' 31.851	135° 03' 57"	315° 03' 50"	Traverse Station 8	312.9	2.495443
Traverse Station 10 Maine 1912; 1921	d.m.	45° 55' 25.391 67° 45' 33.228	188° 41' 04"	8° 41' 05"	Traverse Station 9	196.5	2.293444
Traverse Station 11 New Brunswick 1912; 1921	d.m.	45° 55' 09.485 67° 45' 09.121	133° 23' 40"	313° 23' 23"	Traverse Station 10	714.9	2.854232
Traverse Station 12 Maine 1912; 1921	n.d.	45° 54' 55.895 67° 45' 09.318	180° 34' 43"	0° 34' 43"	Traverse Station 11	419.6	2.622862
Ref. Mon. 4 New Brunswick 1913; 1921	d.m.	45° 54' 57.439 67° 45' 09.296	0° 34' 43"	180° 34' 43"	Traverse Station 12	47.7	1.678245
Ref. Mon. 5 Maine 1913; 1921	d.m.	45° 54' 56.477 67° 45' 09.310	180° 34' 43"	0° 34' 43"	Ref. Mon. 4	29.7	1.472798
Traverse Station 13 Maine 1912; 1921	n.d.	45° 54' 43.829 67° 45' 27.050	225° 43' 41"	45° 43' 54"	Traverse Station 12	533.7	2.727286
Traverse Station 14 Maine 1912; 1921	d.m.	45° 54' 39.652 67° 45' 34.076	229° 34' 35"	49° 34' 40"	Traverse Station 13	198.9	2.298662
Traverse Station 14-A Maine 1912; 1921	n.d.	45° 54' 39.296 67° 45' 37.795	262° 11' 42"	82° 11' 44"	Traverse Station 14	80.9	1.908006



GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line		St. Croix River - Monument Brook - Tertiary				State		Maine		Province New Brunswick		
STATION		LATITUDE AND LONGITUDE		AZIMUTH		BACK AZIMUTH		TO STATION		DISTANCE (METERS)		LOGARITHM
Traverse Station 15 Maine 1912;1921	n.d.	45° 54' 38.142 67° 45' 49.837	262° 10' 42"	82° 10' 51"	Traverse Station 14-A		262.0	2.418261				
Traverse Station 16 Maine 1912;1921;r.1939	d.m.	45° 54' 36.107 67° 45' 58.077	250° 30' 58"	70° 31' 04"	Traverse Station 15		188.4	2.275039				
Ref. Mon. 6 Maine 1913;1921;r.1939	d.m.	45° 54' 35.454 67° 45' 57.282	139° 38' 59"	319° 38' 58"	Traverse Station 16		26.5	1.422639				
Ref. Mon. 7 New Brunswick 1913;1921;r.1939	d.m.	45° 54' 34.719 67° 45' 56.387	139° 39' 00"	319° 38' 59"	Ref. Mon. 6		29.8	1.473998				
Traverse Station 17 New Brunswick 1912;1921	d.m.	45° 54' 18.218 67° 46' 03.071	191° 01' 40"	11° 01' 44"	Traverse Station 16		562.7	2.750290				
Traverse Station 17-A New Brunswick 1912; 1921	n.d.	45° 54' 07.992 67° 46' 06.794	194° 15' 39"	14° 15' 41"	Traverse Station 17		325.8	2.512916				
Traverse Station 18 Maine 1912; 1921	d.m.	45° 53' 52.507 67° 46' 12.431	194° 15' 40"	14° 15' 44"	Traverse Station 17-A		493.3	2.693106				
Traverse Station 18-F New Brunswick 1921	d.m.	45° 54' 01.194 67° 46' 09.269	194° 15' 42"	14° 15' 44"	Traverse Station 17-A		216.6	2.335595				
Traverse Station 19 Maine 1912; 1921	n.d.	45° 53' 52.451 67° 46' 24.424	269° 36' 50"	89° 36' 59"	Traverse Station 18		258.5	2.412543				
Traverse Station 19-B Maine 1921	d.m.	45° 53' 49.216 67° 46' 26.837	207° 30' 47"	27° 30' 49"	Traverse Station 19		112.6	2.051648				
Ref. Mon. 8 Maine 1913;1921;r.1939	d.m.	45° 53' 47.636 67° 46' 37.546	32° 55' 32" 242° 16' 46"	212° 55' 24" 62° 16' 55"	Poplar Mountain Traverse Station 19		423.4 319.6	2.626757 2.504559				
Ref. Mon. 9 New Brunswick 1913;1921;r.1939	d.m.	45° 53' 47.095 67° 46' 39.239	245° 24' 13"	65° 24' 14"	Ref. Mon. 8		40.2	1.603696				
Avernus Maine 1912; 1921	n.d.	45° 53' 40.748 67° 46' 59.094	245° 23' 58" 301° 19' 58"	65° 24' 14" 121° 20' 06"	Ref. Mon. 8 Poplar Mountain		510.9 274.4	2.708344 2.438461				
Avernus Tablet New Brunswick 1912;1921;r.1955	d.m.	45° 53' 40.362 67° 47' 00.933	253° 17' 09"	73° 17' 10"	Avernus		41.4	1.616979				
Acheron Maine 1912; 1921	n.d.	45° 53' 44.832 67° 47' 05.429	305° 55' 34" 312° 43' 06"	125° 55' 46" 132° 43' 10"	Poplar Mountain Avernus		458.1 185.9	2.661004 2.269232				
Acheron Tablet New Brunswick 1912;1921;r.1955	d.m.	45° 53' 43.958 67° 47' 07.064	232° 32' 53"	52° 32' 54"	Acheron		44.4	1.647285				
Furze Windmill (C.&G.S.) Maine 1889	d.	46° 03' 34.38 67° 47' 48.24	337° 38' 16" 354° 50' 55"	157° 41' 22" 174° 51' 30"	Kennedy Pole Hill		14669.3 11679.7	4.166408 4.067431				
Green's Barn, ventilator Maine 1889 (C.&G.S.)	n.d.	46° 02' 02.13 67° 49' 50.80	322° 30' 04" 337° 13' 18"	142° 34' 38" 157° 15' 21"	Kennedy Pole Hill		13505.4 9526.0	4.130508 3.978912				



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International boundary line St. Croix River - Monument Brook - Tertiary

State Maine

Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Powers Spruce (C.&G.S.) Maine 1889	n.d.	45 55 51.65 67 48 40.08	219 12 03 263 50 49	39 13 15 83 54 32	Pole Hill Kennedy	3425.9 6736.8	3.534771 3.828455
Williams (C.&G.S.) Maine 1891	d.	45 54 20.56 67 50 12.78	247 51 57 305 55 02	67 56 47 126 00 49	Kennedy McInelly	9386.7 12873.7	3.972515 4.109703
Mitchell Mountain, fire lookout tower (C.&G.S.) Maine 1941	d.	45 51 39.255 67 58 22.505	284 41 18	104 41 19	Mitchell Mountain	24.0	1.380211
Egypt Maine 1912; 1921	n.d.	45 53 41.522 67 47 13.178	238 32 38	58 32 43	Acheron	195.8	2.291901
Egypt Tablet Maine 1912; r.1921	m.	45 53 41.430 67 47 13.758	256 00 50	76 00 50	Egypt	11.78	1.071035
Dam Maine 1912	n.d.	45 53 39.873 67 47 18.209	244 50 55	64 50 59	Egypt	119.8	2.078545
Dam Tablet New Brunswick 1912; 1921; r.1955	d.m.	45 53 38.523 67 47 19.470	213 06 32	33 06 33	Dam	49.78	1.697055
Water New Brunswick 1912	n.d.	45 53 35.533 67 47 25.334	228 42 23	48 42 28	Dam	204.4	2.310569
Water Tablet Maine 1912; r.1921	m.	45 53 35.620 67 47 25.836	288 24 10	108 24 10	Water	11.40	1.056905
Chub New Brunswick 1912	n.d.	45 53 30.563 67 47 24.975	177 05 33	357 05 33	Water	152.7	2.183927
Chub Tablet New Brunswick 1912; 1921; r.1955	d.m.	45 53 29.748 67 47 24.716	167 29 16	347 29 16	Chub	25.79	1.411451
Togue Maine 1912	n.d.	45 53 28.346 67 47 28.935	231 17 00	51 17 03	Chub	109.4	2.039105
Togue Tablet Maine 1912; 1921; r.1946	m.	45 53 28.605 67 47 28.881	8 16 05	188 16 05	Togue	8.07	0.907142
Sucker Maine 1912	n.d.	45 53 26.550 67 47 35.272	247 54 12	67 54 17	Togue	147.5	2.168650
Sucker Tablet New Brunswick 1912; 1921; r.1955	d.m.	45 53 26.280 67 47 34.896	135 48 51	315 48 51	Sucker	11.63	1.065580
Pickerel Maine 1912	n.d.	45 53 23.342 67 47 38.358	213 53 10 219 26 41	33 53 12 39 26 43	Sucker Sucker Tablet	119.3 117.5	2.076728 2.069938
Pickerel Tablet Maine 1912; 1921; r.1946	d.m.	45 53 22.834 67 47 38.837	213 23 46 218 36 43	33 23 46 38 36 45	Pickerel Sucker Tablet	18.78 136.2	1.273649 2.134052
Perch New Brunswick 1912	n.d.	45 53 20.220 67 47 41.262	212 59 43	32 59 45	Pickerel	114.9	2.060484



GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line St. Croix River - Monument Brook - Tertiary

State Maine

Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Perch Tablet Maine 1912;1921;r.1955	d.m.	45 53 19.711 67 47 41.814	217 09 58	37 09 58	Perch	19.70	1.294466
Ref. Mon. 10 New Brunswick 1917;1921;r.1955	d.m.	45 53 19.562 67 47 41.123	107 07 07	287 07 07	Perch Tablet	15.60	1.193116
Ref. Mon. 11 Maine 1917;1921;r. 1955	d.m.	45 53 19.718 67 47 41.849	285 48 59 287 03 22	105 48 59 107 03 22	Perch Tablet Ref. Mon. 10	0.79 16.4	9.8956 -10 1.214468
Trout New Brunswick 1912	n.d.	45 53 15.819 67 47 44.611	208 02 19	28 02 21	Perch	153.9	2.187358
Trout tablet New Brunswick 1912;1921;r.1955	d.m.	45 53 15.761 67 47 45.182	261 40 03	81 40 03	Trout	12.44	1.094646
Bend New Brunswick 1912	n.d.	45 53 17.565 67 47 48.259	304 25 52	124 25 55	Trout	95.4	1.979363
Camp Collier Maine 1912	n.d.	45 53 16.128 67 47 51.269	235 37 50	55 37 52	Bend	78.6	1.895511
Camp Collier mark Maine 1912;1921;r.1955	d.m.	45 53 16.309 67 47 50.381	73 40 54	253 40 54	Camp Collier	19.94	1.299725
Twist New Brunswick 1912	n.d.	45 53 12.129 67 47 52.755	194 32 57	14 32 58	Camp Collier	127.5	2.105666
Twist Tablet Maine 1912;1921;r.1955	d.m.	45 53 11.926 67 47 53.028	223 11 16 202 51 47	43 11 16 22 51 48	Twist Camp Collier Mark(comp)	8.60 146.9	0.934498 2.166919
Curve Maine 1912	n.d.	45 53 07.935 67 47 55.143	201 40 51	21 40 53	Twist	139.3	2.144039
Curve tablet (=T.P.469) Maine & New Brunswick 1912;1921; r. 1955	d.m.	45 53 08.683 67 47 54.749	20 11 15	200 11 15	Curve	24.60	1.390935
Hornet 2 New Brunswick 1912	n.d.	45 53 05.309 67 47 57.548	212 36 21	32 36 23	Curve	96.2	1.983394
Hornet 2 tablet New Brunswick 1912;1921;r.1955	d.m.	45 53 05.681 67 47 56.843	52 56 58	232 56 58	Hornet 2	19.04	1.279781
Spring New Brunswick 1912	n.d.	45 53 03.170 67 47 57.753	183 49 33	3 49 33	Hornet 2	66.2	1.820834
Spring Tablet New Brunswick 1912;1921	l.	45 53 02.899 67 47 58.929	251 45 30	71 45 31	Spring	26.70	1.426430
Road Maine 1912;1921;r.1955	d.m.	45 53 03.118 67 48 01.645	268 54 05	88 54 08	Spring	83.9	1.923942
Turn Maine 1912; 1921	n.d.	45 53 01.145 67 48 02.533	197 24 08	17 24 09	Road	64.0	1.806069



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International boundary line St. Croix River - Monument Brook - Tertiary

State Maine

Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Ley New Brunswick 1912;1921;r.1955	d.m.	45° 52' 59.137 67° 48' 05.787	228° 31' 33"	48° 31' 55"	Turn	93.6	1.971401
Stafford Maine 1912;1921	n.d.	45° 53' 02.515 67° 48' 11.912	308° 17' 42"	128° 17' 45"	Ley	168.3	2.226044
Bess Maine 1912	n.d.	45° 52' 58.047 67° 48' 16.602	216° 14' 57"	36° 15' 00"	Stafford	171.0	2.233092
Dan New Brunswick 1912;1921;r.1955	d.m.	45° 52' 56.222 67° 48' 13.547	130° 32' 30"	310° 32' 28"	Bess	86.7	1.937964
Ref. Mon. 12 Maine 1912;1921;r.1955	d.m.	45° 52' 52.126 67° 48' 17.222	212° 04' 19"	32° 04' 22"	Dan	149.2	2.173839
Ref. Mon. 13 New Brunswick 1917;1921;r.1955	d.m.	45° 52' 52.204 67° 48' 15.498	86° 17' 18" 198° 44' 17"	266° 17' 17" 18° 44' 19"	Ref. Mon. 12 Dan	37.24 131.0	1.570981 2.117209
Joe New Brunswick 1912;1921;r.1955	d.m.	45° 52' 46.196 67° 48' 14.609	162° 53' 24"	342° 53' 22"	Ref. Mon. 12	191.6	2.282350
Tom New Brunswick 1912;1921;r.1955	d.m.	45° 52' 43.249 67° 48' 15.501	191° 56' 06"	11° 56' 07"	Joe	93.0	1.968506
Phil Maine 1912;1921;r.1955	d.m.	45° 52' 39.833 67° 48' 18.108	208° 03' 15"	28° 03' 17"	Tom	119.5	2.077361
Pete New Brunswick 1912;1921;r.1955	d.m.	45° 52' 35.084 67° 48' 14.672	153° 10' 06"	333° 10' 03"	Phil	164.2	2.215383
Alder Maine 1912;1921	n.d.	45° 52' 29.812 67° 48' 19.858	214° 29' 39"	34° 29' 43"	Pete	197.5	2.295479
Drybush Maine 1912	n.d.	45° 52' 21.050 67° 48' 18.293	172° 53' 21"	352° 53' 20"	Alder	272.6	2.435555
Drybush tablet Maine 1912;1921;r.1955	d.m.	45° 52' 22.218 67° 48' 18.645	348° 07' 33"	168° 07' 33"	Drybush	36.86	1.566555
Leaf Maine 1912	n.d.	45° 52' 10.062 67° 48' 21.173	190° 22' 31"	10° 22' 33"	Drybush	344.9	2.537668
Leaf Tablet Maine 1912;1921;r.1955	d.m.	45° 52' 10.090 67° 48' 20.879	81° 57' 50"	261° 57' 50"	Leaf	6.41	0.806858
Green Maine 1912	n.d.	45° 52' 01.424 67° 48' 20.155	175° 17' 28"	355° 17' 27"	Leaf	267.6	2.427467
Green Tablet Maine 1912	m.	45° 52' 01.480 67° 48' 20.273	304° 04' 58"	124° 04' 58"	Green	3.08	0.488974
Poplar 2 Maine 1912	n.d.	45° 52' 01.493 67° 48' 12.276	89° 16' 49"	269° 16' 43"	Green	170.0	2.230366



**INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA**  
GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

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*International boundary line* St. Croix River - Monument Brook - Tertiary      *State* Maine      *Province* New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Poplar Maine 1912	m.	45 52 01.502 67 48 12.328	284 19 02	104 19 02	Poplar 2	1.17	0.068186
Edge Maine 1912	n.d.	45 52 02.112 67 48 11.112	52 43 28	232 43 27	Poplar 2	31.55	1.498991
Edge R. M. Maine 1912; 1921	m.	45 52 03.142 67 48 11.997	329 02 54	149 02 55	Edge	37.10	1.569374
Ref. Mon. 14 Maine 1912; 1921; r. 1955	d.m.	45 52 01.378 67 48 11.165	182 53 00	2 53 00	Edge	22.71	1.356160
Ref. Mon. 15 New Brunswick 1917; 1921; r. 1955	d.m.	45 52 04.829 68 48 09.974	13 33 18	193 33 17	Ref. Mon. 14	109.61	2.039860
Rockmaple Maine 1912	n.d.	45 51 59.458 67 48 10.637	150 37 30	330 37 29	Poplar 2	72.1	1.857835
Rockmaple tablet Maine 1912; 1921; r. 1955	d.m.	45 51 59.822 67 48 09.632	62 33 29	242 33 28	Rockmaple	24.42	1.387731
Hades Maine 1912	n.d.	45 51 55.057 67 48 09.222	167 20 21	347 20 20	Rockmaple	139.3	2.143853
Hades Tablet Maine 1912	m.	45 51 55.024 67 48 09.134	118 10 30	298 10 30	Hades	2.15	0.332640
Inferno Maine 1912	n.d.	45 51 51.477 67 48 08.367	170 31 31	350 31 30	Hades	112.1	2.049452
Pest Maine 1912	n.d.	45 51 52.391 67 48 00.757	80 14 44	260 14 39	Inferno	166.6	2.221608
Hardwood Maine 1912	n.d.	45 51 49.955 67 47 57.801	139 42 25	319 42 23	Pest	98.6	1.993930
Hardwood tablet Maine 1912; 1921; r. 1955	d.m.	45 51 49.930 67 47 58.022	260 40 58	80 40 58	Hardwood	4.83	0.683947
Moose Maine 1912; 1921	n.d.	45 51 44.759 67 47 55.596	163 29 11	343 29 09	Hardwood	167.4	2.223637
Moose Tablet Maine 1912; 1921; r. 1955	d.m.	45 51 44.564 67 47 56.303	248 29 11	68 29 12	Moose	16.39	1.214473
Willows New Brunswick 1912; 1921	n.d.	45 51 26.256 67 47 33.399	140 01 54	320 01 38	Moose	745.4	2.872405
Ness Maine 1912	n.d.	45 51 20.847 67 47 38.641	153 38 43 214 06 36	333 38 31 34 06 40	Moose Willows	823.9 201.7	2.915874 2.304655
Ness Tablet Maine 1912; 1921; r. 1955	d.m.	45 51 20.688 67 47 39.321	251 30 08	71 30 08	Ness	15.48	1.189659



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International boundary line St. Croix River - Monument Brook - Tertiary State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Collier	n.d.	45 51 09.755	137 19 26	317 19 15	Ness	465.8	2.668211
New Brunswick 1912		67 47 24.005	147 46 00	327 45 37	Moose	1277.7	3.106415
Mid	n.d.	45 51 09.010	257 44 33	77 44 37	Collier	108.4	2.034840
Maine 1912		67 47 28.913					
Ref. Mon. 16 (=Birch)	d.m.	45 51 07.610	149 53 22	329 53 21	Mid	49.98	1.698837
Maine 1912;1921;r.1955		67 47 27.751	150 06 24	330 06 16	Ness	471.4	2.673411
			168 02 57	348 02 53	Willows	588.4	2.769698
			230 39 22	50 39 25	Collier	104.5	2.019070
Ref. Mon. 17	d.m.	45 51 09.558	52 11 17	232 11 14	Ref. Mon. 16 (comp.)	98.1	1.991854
New Brunswick 1912;1921;r.1955		67 47 24.157	208 19 07	28 19 07	Collier	6.90	0.838849
Birch Tablet	d.m.	45 51 07.409	246 30 34	66 30 34	Ref. Mon. 16	15.55	1.191730
Maine 1912;1921;r.1955		67 47 28.412					
North Stump	d.	45 51 06.705	110 37 21	290 37 18	Ref. Mon. 16	79.4	1.899570
New Brunswick 1917;1921;l.1946		67 47 24.309					
Raspberry	d.m.	45 50 54.731	138 42 17	318 42 05	Ref. Mon. 16	529.3	2.723661
Maine 1912;1921;r.1955		67 47 11.563	144 04 37	324 04 16	Ness	995.7	2.998145
Cropley	d.m.	45 50 50.063	123 56 58	303 56 51	Raspberry	258.1	2.411773
New Brunswick 1912;1921;r.1955		67 47 01.641	133 52 54	313 52 35	Ref. Mon. 16	781.6	2.892983
			136 24 47	316 24 31	North Stump	709.4	2.85088
Landing	n.d.	45 50 46.376	125 35 53	305 35 41	Raspberry	443.2	2.646560
New Brunswick 1912		67 46 54.863	127 53 32	307 53 27	Cropley	185.3	2.267932
Landing Tablet	d.m.	45 50 46.633	128 19 21	308 19 16	Cropley (comp.)	170.7	2.232336
New Brunswick 1912;1921;r.1955		67 46 55.433	302 52 07	122 52 07	Landing	14.64	1.165689
Cedar	d.m.	45 50 40.895	136 33 51	316 33 42	Cropley	389.8	2.590846
Maine 1912;1921;r.1955		67 46 49.220	142 53 16	322 53 12	Landing Tablet (comp.)	222.2	2.346701
			144 15 56	324 15 52	Landing	208.5	2.319060
Extra	n.d.	45 50 48.083	308 46 07	128 46 09	Landing	84.17	1.925174
New Brunswick 1912		67 46 57.904	319 49 25	139 49 31	Cedar	290.5	2.463091
Ref. Mon. 18 (=Narrows)	d.m.	45 50 34.371	125 16 02	305 15 53	Cedar	348.9	2.542675
Maine 1912;1921;r.1955		67 46 36.019	132 21 13	312 21 00	Landing	550.2	2.740521
Narrows Tablet	d.m.	45 50 34.531	324 57 04	124 57 04	Ref. Mon. 18	8.62	0.935507
Maine 1912;1921;r.1955		67 46 36.346					
Ref. Mon. 19	d.m.	45 50 35.957	29 09 45	209 09 44	Ref. Mon. 18	56.06	1.748626
New Brunswick 1917;1921;r.1955		67 46 34.753	116 02 07	296 01 57	Cedar (comp.)	347.4	2.540852
Fawn	d.m.	45 50 08.221	142 08 15	322 07 54	Ref. Mon. 18	1022.7	3.009743
Maine 1912;1921;n.r.1946		67 46 06.931					



GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line St. Croix River - Monument Brook - TertiaryState MaineProvince New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Calf	d.m.	45 50 13.310	36 05 29	216 05 25	Fawn	194.4	2.288789
New Brunswick 1912;1921;r.1955		67 46 01.624	131 13 22	311 12 57	Ref. Mon. 18	986.8	2.994226
Deer	d.m.	45 49 58.675	176 10 24	356 10 23	Fawn	295.4	2.470365
Maine 1912;1921;n.r.1946		67 46 06.018	191 51 09	11 51 12	Calf	461.7	2.664340
Deer mark	d.m.	45 49 58.203	203 07 36	23 07 36	Deer	15.84	1.199892
Maine 1912;1921;n.r.1946		67 46 06.306					
Doe	d.l.	45 49 59.993	81 17 10	261 17 01	Deer	268.5	2.429015
New Brunswick 1912		67 45 53.719	131 41 49	311 41 39	Fawn	381.9	2.581933
			157 27 53	337 27 47	Calf	445.1	2.648492
Doe mark	d.m.	45 49 59.612	145 05 41	325 05 41	Doe	14.33	1.156095
New Brunswick 1912;1921		67 45 53.339					



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State Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Wall Maine 1912;1921;r.1955	d.m. 45 49 42.037 67 45 55.974	157 07 16 185 01 02 334 51 21.0	337 07 09 5 01 04 154 51 27.1	Deer Doe Gull Rock 2	557.6 556.5 434.4	2.746293 2.745478 2.637889
Ref. Mon. 20 New Brunswick 1912;1921;r.1955	d.m. 45 49 46.812 67 45 42.518	11 04 52.6 63 05 25.9 125 50 13 149 17 20 330 48 43.3	191 04 49.1 243 05 16.3 305 49 56 329 17 12 150 49 12.7	Gull Rock 2 Wall Deer Doe Picnic	550.9 325.7 625.6 473.4 1815.9	2.741095 2.512835 2.796320 2.675188 3.259101
Buck New Brunswick 1921;r.1955	d.m. 45 49 59.370 67 45 55.525	1 02 17 324 05 27	181 02 16 144 05 36	Wall Ref. Mon. 20	535.2 478.7	2.728526 2.680039
Ref. Mon. 21 Maine 1912;1921;r.1955	d.m. 45 49 38.312 67 45 56.721	187 58 25.8 229 25 51.7 258 43 26.8 317 58 23.9 324 11 38.8	7 58 26.4 49 26 01.9 78 44 17.3 137 59 03.5 144 11 45.5	Wall Ref. Mon. 20 North Picnic Gull Rock 2	116.2 403.6 1550.5 1780.8 343.0	2.065040 2.605905 3.190464 3.250620 2.535336
Boulders New Brunswick 1912; r.1955	d.m. 45 49 14.744 67 45 41.429	155 35 59.2 163 56 15.9 178 38 23.9 229 06 51.2 304 37 33.9	335 35 48.2 343 56 11.6 358 38 23.1 49 07 30.7 124 38 02.5	Ref. Mon. 21 Gull Rock 2 Ref. Mon. 20 North Picnic	799.0 467.7 990.4 1574.7 1047.6	2.902544 2.669944 2.995790 3.197194 3.020211
Ref. Mon. 22 New Brunswick 1912; r.1955	d.m. 45 49 14.589 67 45 41.314	152 29 18	332 29 18	Boulders	5.38	0.731007
Ref. Mon. 23 Maine 1912; r.1955	d.m. 45 49 14.559 67 45 50.931	189 26 41.9 268 24 29.7 269 44 40.0	9 26 44.4 88 24 36.5 89 44 46.8	Gull Rock 2 Boulders Ref. Mon. 22	440.6 205.2 207.6	2.644047 2.312181 2.317251
Watson New Brunswick 1912;1921;r.1955	d.m. 45 49 11.743 67 45 51.019	181 14 53.4 188 08 50.2 245 53 12.2	1 14 53.5 8 08 52.8 65 53 19.1	Ref. Mon. 23 Gull Rock 2 Boulders	87.0 547.6 226.8	1.939427 2.738464 2.355660



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International boundary line		St. Croix River - Thoroughfare - Third Order			State		Maine		Province		New Brunswick	
STATION		LATITUDE AND LONGITUDE		AZIMUTH		BACK AZIMUTH		TO STATION		DISTANCE (METERS)		LOGARITHM
Wet	d.m.	45° 49'	09.318	141° 05'	32.5	321° 05'	30.5	Watson		96.2		1.983175
New Brunswick 1917;r.1955		67° 45'	48.220	160° 07'	00.3	340° 06'	58.4	Ref. Mon. 23		172.1		2.235725
				181° 35'	45.9	1° 35'	46.5	Gull Rock 2		617.2		2.790406
				221° 11'	23.4	41° 11'	28.3	Boulders		222.6		2.347536
Piedra	d.m.	45° 49'	08.527	199° 56'	41.2	19° 56'	43.5	Ref. Mon. 23		198.1		2.296964
New Brunswick 1912;1921;r.1955		67° 45'	54.062	213° 29'	22.1	33° 29'	24.3	Watson		119.1		2.075752
				259° 02'	07.1	79° 02'	11.3	Wet		128.5		2.108768
Newer	d.	45° 49'	09.926	244° 13'	01.9	64° 13'	05.8	Watson		129.0		2.110519
Maine 1946		67° 45'	56.399	276° 03'	50.0	96° 03'	55.9	Wet		177.6		2.249332
				310° 34'	09.5	130° 34'	11.2	Piedra		66.4		1.822235
Fare	d.	45° 49'	05.275	196° 33'	06.0	16° 33'	07.4	Newer		149.8		2.175492
New Brunswick 1946		67° 45'	58.375	222° 50'	48.7	42° 50'	51.8	Piedra		136.9		2.136507
Ref. Mon. 24	d.m.	45° 49'	06.197	244° 20'	25.0	64° 20'	36.9	Watson		395.4		2.597040
New Brunswick 1912; r.1955		67° 46'	07.528	244° 24'	03.3	64° 24'	11.3	Newer		266.4		2.425574
				256° 06'	13.9	76° 06'	23.6	Piedra		299.5		2.476376
				256° 58'	58.4	76° 59'	12.3	Wet		427.8		2.631269
				278° 11'	58.1	98° 12'	04.7	Fare		199.6		2.300257
Ref. Mon. 25 ecc.	d.	45° 49'	08.058	291° 52'	08.1	111° 52'	15.2	Fare		230.7		2.363105
Maine 1946		67° 46'	08.293	343° 57'	33.4	163° 57'	33.9	Ref. Mon. 24		59.8		1.776695
Ref. Mon. 25	d.m.	45° 49'	08.201	12° 29'	46.4	192° 29'	46.4	Ref. Mon. 25 ecc.		4.53		0.655742
Maine 1917; r.1955		67° 46'	08.248	345° 54'	04.2	165° 54'	04.7	Ref. Mon. 24		63.8		1.804903
Flat 1946	d.m.	45° 49'	07.333	255° 06'	01.7	75° 06'	05.0	Ref. Mon. 25		104.2		2.017962
New Brunswick 1955		67° 46'	12.913	257° 21'	13.0	77° 21'	16.3	Ref. Mon. 25 ecc.		102.2		2.009532
				264° 49'	40.1	84° 49'	53.6	Piedra		408.6		2.611348
				281° 26'	53.1	101° 27'	03.5	Fare		320.2		2.505474
				286° 47'	42.5	106° 47'	46.3	Ref. Mon. 24		121.4		2.084377
Rough	d.	45° 49'	09.260	283° 21'	04.0	103° 21'	09.2	Ref. Mon. 25 ecc.		160.7		2.205915
Maine 1946		67° 46'	15.534	298° 41'	05.0	118° 41'	10.7	Ref. Mon. 24		197.0		2.294523
				316° 25'	50.5	136° 25'	52.4	Flat		82.1		1.914307
Difficile	d.m.	45° 49'	09.139	268° 18'	29.9	88° 18'	34.1	Rough		126.7		2.102865
New Brunswick 1912;1921;r.1955		67° 46'	21.401	286° 55'	03.0	106° 55'	09.1	Flat		191.5		2.282264
Rot	d.	45° 49'	10.333	10° 22'	21.7	190° 22'	21.5	Difficile		37.5		1.573876
Maine 1946		67° 46'	21.088	297° 41'	09.9	117° 41'	15.8	Flat		199.3		2.299561
Logs	d.m.	45° 49'	10.220	277° 09'	20.6	97° 09'	28.4	Rough		237.9		2.376475
Maine 1912; r.1955		67° 46'	26.469	286° 56'	06.7	106° 56'	16.4	Flat		305.9		2.485638
				286° 57'	59.3	106° 58'	02.9	Difficile		114.4		2.058426
Clear	d.	45° 49'	08.956	177° 24'	02.4	357° 24'	02.4	Logs		39.1		1.591865
New Brunswick 1946		67° 46'	26.387	249° 36'	34.3	69° 36'	38.1	Rot		122.0		2.086520
				266° 59'	47.1	86° 59'	50.7	Difficile		107.80		2.032607
Clear tablet	d.m.	45° 49'	08.908	179° 41'	53.1	359° 41'	53.1	Logs		40.5		1.607533
New Brunswick 1946; 1955		67° 46'	26.459	226° 34'	41.8	46° 34'	41.8	Clear		2.15		0.331589



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State Maine

Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
Ref. Mon. 26 ecc. Maine 1946	d.	45 49 11.044 67 46 35.454	277 28 03.6 288 13 35.3			97 28 10.1 108 13 41.8			Logs Clear	195.6 206.1	2.291430 2.314038
Ref. Mon. 26 Maine 1917; r. 1955	d.m.	45 49 11.203 67 46 35.413	10 21 50.6 278 55 30.6			190 21 50.6 98 55 37.1			Ref. Mon. 26 ecc. Logs	4.98 195.4	0.697002 2.291012
Ref. Mon. 27 ecc. New Brunswick 1946	d.	45 49 08.399 67 46 35.412	179 22 15.0 253 45 26.3 264 57 01.3			359 22 15.0 73 45 32.8 84 57 07.8			Ref. Mon. 26 ecc. Logs Clear	81.7 201.1 195.6	1.912108 2.303408 2.291377
Ref. Mon. 27 New Brunswick 1917;r.1955	d.m.	45 49 08.292 67 46 35.099	116 07 39.6 174 51 15.3 175 42 01.1 252 16 17.9			296 07 39.4 354 51 15.1 355 42 00.9 72 16 24.2			Ref. Mon. 27 ecc. Ref. Mon. 26 ecc. Ref. Mon. 26 Logs	7.53 85.3 90.1 195.6	0.876537 1.931109 1.954905 2.291378
Thor Maine 1946	d.	45 49 10.396 67 46 41.377	261 06 06.7 277 49 03.2 295 34 58.1			81 06 11.0 97 49 14.0 115 35 02.4			Ref. Mon. 26 ecc. (comp.) Clear Ref. Mon. 27 ecc.	129.4 326.7 142.8	2.112059 2.514093 2.154653
Dead Maine 1946	d.	45 49 05.394 67 46 54.014	240 28 56.6 246 28 07.1 256 59 13.1			60 29 05.6 66 28 20.4 76 59 26.4			Thor Ref. Mon. 26 ecc. Ref. Mon. 27 ecc.	313.5 437.0 412.2	2.496231 2.640507 2.615077
Fox ecc. New Brunswick 1946	d.	45 49 00.210 67 46 50.381	153 53 51.1 211 43 07.4			333 53 48.5 31 43 13.8			Dead Thor	178.2 369.7	2.250993 2.567888
Packard ecc. Maine 1946	d.	45 49 02.355 67 46 57.549	43 59 50.2 219 08 09.4 234 35 00.0 240 38 38.8 248 40 09.2 293 10 14.6			223 58 42.6 39 08 11.9 54 35 11.5 60 38 54.6 68 40 25.0 113 10 19.7			Caribou Dead Thor Ref. Mon. 26 ecc. Ref. Mon. 27 ecc. Fox ecc.	2930.8 121.0 428.4 547.3 513.1 168.3	3.466989 2.082613 2.631868 2.738226 2.710179 2.226195
Packard (U.S.C.&G.S.) Maine 1890;1917;r.1955	d.m.	45 49 01.932 67 46 57.276	155 43 08.9			335 43 08.7			Packard ecc.	14.31	1.155744
Thoroughfare Maine 1911;r. 1955	d.m.	45 49 00.495 67 46 53.544	220 40 08.4 230 10 11.2 277 20 31.4			40 40 17.1 50 10 24.2 97 20 33.7			Thor Ref. Mon. 26 ecc. Fox ecc.	403.1 508.6 68.8	2.605366 2.706341 1.837893
Fox New Brunswick 1912;1921;r.1955	d.m.	45 49 00.236 67 46 50.618	97 12 32.1 278 59 06.8			277 12 30.0 98 59 07.0			Thoroughfare Fox ecc.	63.7 5.18	1.803907 0.714720
Ref. Mon. 28 New Brunswick 1917;r. 1955	d.m.	45 49 01.224 67 46 50.326	2 09 50.3 11 40 30.0 72 02 14.8			182 09 50.3 191 40 29.8 252 02 12.5			Fox ecc. Fox Thoroughfare	31.3 31.2 73.0	1.496133 1.493527 1.863481
Ref. Mon. 29 Maine 1917; r. 1955	d.m.	45 49 00.894 67 46 53.239	28 07 08.6 260 47 02.4 288 53 36.6 289 44 38.0			208 07 08.4 80 47 04.5 108 53 38.7 109 44 39.9			Thoroughfare Ref. Mon. 28 Fox ecc. Fox	14.0 63.7 65.2 60.1	1.145113 1.804183 1.814344 1.778974



International boundary line			St. Croix River - Grand Lake - Third Order			State			Maine			Province			New Brunswick					
STATION			LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION			DISTANCE (METERS)			LOGARITHM		
Penguin	d.m.	45 48 53.435	48 30 49.7	228 29 40.9	Caribou	2767.0	3.442006													
New Brunswick 1946; 1955		67 46 55.835	95 37 27.2	275 36 35.0	Orient	1579.7	3.198562													
			172 21 23.9	352 21 22.7	Packard ecc.	277.9	2.443814													
			209 23 30.4	29 23 34.3	Fox ecc.	240.0	2.380287													
North Point	d.m.	45 48 13.472	153 36 55.5	333 36 32.6	Orient	1549.9	3.190310													
New Brunswick 1911;r.1955		67 47 36.747	209 16 51.7	29 17 19.8	Packard ecc.	1730.3	3.238132													
			214 44 59.9	34 45 33.1	Fox ecc.	1756.3	3.244594													
			215 35 51.6	35 36 20.9	Penguin	1517.5	3.181116													
			239 20 58.7	59 21 54.0	Veysey	1936.0	3.286899													
			310 03 46.1	130 05 12.4	Green Mountain	3397.5	3.531164													
Ref. Mon. 30	d.m.	45 48 58.941	31 25 54.1	211 25 25.6	North Point	1645.2	3.216210													
Maine 1917; r.1955		67 46 57.018	173 49 02.1	353 49 01.7	Packard ecc.	106.0	2.025307													
			351 27 20.6	171 27 21.4	Penguin	171.9	2.235298													
Ref. Mon. 31 (1939)	d.m.	45 48 54.995	26 58 32.7	206 58 31.9	Penguin	54.03	1.732663													
New Brunswick 1939;r. 1946		67 46 54.700																		
Ref. Mon.31A (=Penguin R.M.2)	d.m.	45 48 53.521	84 54 35.9	264 54 34.9	Penguin	29.78	1.473911													
New Brunswick 1939;r.1955		67 46 54.461	173 32 33.1	353 32 32.9	Ref. Mon. 31 (1939)	45.8	1.660895													
Ref. Mon. 32 ecc.	d.	45 48 21.921	238 26 58.3	58 28 00.2	Ref. Mon. 30	2184.9	3.339428													
Maine 1946		67 48 23.260	242 43 23.6	62 44 26.3	Penguin	2123.6	3.327082													
			254 46 41.7	74 48 10.4	Veysey	2766.8	3.441981													
			284 33 17.0	104 33 50.4	North Point	1037.7	3.016075													
Ref. Mon. 32	d.m.	45 48 21.912	268 43 52.6	88 43 53.0	Ref. Mon. 32 ecc.	12.69	1.103422													
Maine 1917;r.1955		67 48 23.847																		
Ref. Mon. 33	d.m.	45 48 01.674	72 08 31.2	252 08 07.0	Caribou	766.9	2.884729													
New Brunswick 1911;1917;r.1955		67 47 58.015	138 54 43.1	318 54 25.0	Ref. Mon. 32 ecc.	829.4	2.918790													
			172 32 09.8	352 32 02.2	Orient	1767.7	3.247405													
			220 01 44.5	40 02 29.1	Penguin	2087.2	3.319571													
Ref. Mon. 34	d.m.	45 47 41.241	28 20 20.7	208 20 11.1	Moon	611.1	2.786140													
New Brunswick 1911;1917;r.1955		67 48 20.530	148 22 17.7	328 22 09.6	Caribou	464.7	2.667152													
			186 08 28.8	6 08 37.3	Orient	2397.3	3.379728													
Ref. Mon. 35 ecc.	d.	45 47 34.213	199 25 53.7	19 26 00.9	Caribou	649.7	2.812694													
Maine 1946		67 48 41.822	228 07 45.9	48 08 17.3	Ref. Mon. 33	1270.4	3.103951													
			244 44 05.0	64 44 20.3	Ref. Mon. 34	508.4	2.706278													
Ref. Mon. 35	d.m.	45 47 34.080	222 53 10.5	42 53 10.6	Ref. Mon. 35 ecc.	5.60	0.747889													
Maine 1917; r. 1955		67 48 41.998	244 30 08.6	64 30 24.0	Ref. Mon. 34	513.7	2.710693													
Medselene tablet	d.m.	45 47 23.206	174 28 06.2	354 28 06.1	Moon	18.98	1.278295													
Maine 1911;r. 1955		67 48 33.876																		
York	d.m.	45 47 19.580	106 40 42.6	286 40 28.1	Moon	456.0	2.658949													
New Brunswick 1911; r.1955		67 48 13.739	159 51 37.1	339 51 24.1	Caribou	1133.7	3.054513													
Ref. Mon. 36	d.m.	45 46 56.144	145 45 28.4	325 45 09.1	Moon	1033.6	3.014350													
New Brunswick 1917; r.1955		67 48 07.035	163 20 16.8	343 19 59.0	Caribou	1866.4	3.270994													



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State Maine

Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Round Maine 1946; 1955	d.m.	45 46 43.790 67 48 31.471	177 30 29.1 234 09 00.1	357 30 27.3 54 09 17.6	Moon Ref. Mon. 36	1237.0 651.3	3.092363 2.813757
Ref. Mon. 37 Maine 1917; r. 1955	d.m.	45 46 43.577 67 48 32.207	247 33 56.5	67 33 57.0	Round	17.21	1.235718
Cedar Point 2 Maine 1911; 1917; r. 1955	d.m.	45 46 19.366 67 48 59.748	208 07 38.3 219 00 38.1 225 04 46.5 354 46 47.4	28 08 11.3 39 00 58.4 45 05 24.3 174 46 54.5	York Round Ref. Mon. 36 Piney Point	2108.1 970.5 1608.2 2397.8	3.323888 2.986999 3.206339 3.379819
Ref. Mon. 38 New Brunswick 1911; 1917; r. 1955	d.m.	45 45 59.413 67 48 23.330	17 48 14.1 128 03 32.0 172 41 06.7 174 57 51.7 184 47 05.9 191 21 50.1 241 34 02.9 357 15 45.4	197 47 55.2 308 03 05.9 352 41 00.9 354 57 44.1 4 47 12.8 11 22 01.8 61 36 02.5 177 15 52.9	Piney Point Cedar Point 2 Round Moon York Ref. Mon. 36 Green Mountain Ref. Mon. 44	1861.0 999.4 1381.4 2616.0 2483.7 1786.5 4101.2 4766.7	3.269738 2.999720 3.140304 3.417641 3.395104 3.252013 3.612916 3.678218
Ref. Mon. 39 New Brunswick 1917; r. 1946	d.m.	45 45 36.270 67 48 06.440	1 56 50.9	181 56 46.3	Ref. Mon. 44	4049.1	3.607359
Ref. Mon. 40 Maine 1917; r. 1955	d.m.	45 45 10.652 67 48 32.755	164 37 41.9 187 42 15.5 215 42 56.6	344 37 22.7 7 42 22.3 35 43 15.5	Cedar Point 2 Ref. Mon. 38 Ref. Mon. 39	2200.2 1519.2 974.2	3.342464 3.181605 2.988642
Ref. Mon. 41 New Brunswick 1917; r. 1955	d.m.	45 44 54.893 67 46 55.774	31 01 46.1 95 07 17.9 103 04 38.1 129 55 01.5 136 28 46.9	211 00 50.9 275 05 56.3 283 03 28.6 309 54 10.9 316 27 44.2	Ref. Mon. 44 Piney Point Ref. Mon. 40 Ref. Mon. 39 Ref. Mon. 38 (comp.)	3231.5 2471.4 2151.9 1991.2 2747.5	3.509399 3.392937 3.332828 3.299104 3.438936
Norm Maine 1946; 1955	d.m.	45 44 31.969 67 48 44.773	202 38 59.6 253 16 13.6 341 27 36.3	22 39 27.1 73 17 31.7 161 27 59.2	Ref. Mon. 39 Ref. Mon. 41 Ref. Mon. 44	2151.2 2460.2 2174.3	3.332679 3.390970 3.337328
Ref. Mon. 42 Maine 1917; r. 1955	d.m.	45 44 15.176 67 47 47.291	19 40 25.4 112 39 09.2 137 01 08.3	199 40 07.2 292 38 28.1 317 00 23.7	Ref. Mon. 44 Norm Piney Point	1638.7 1346.5 1977.2	3.214498 3.129212 3.296051
Ref. Mon. 43 Maine 1917; r. 1955	d.m.	45 44 16.073 67 49 12.425	230 36 47.1 270 51 14.5 320 37 01.8	50 37 06.9 90 52 15.4 140 37 44.5	Norm Ref. Mon. 42 Ref. Mon. 44	773.5 1840.8 2032.1	2.888433 3.265003 3.307939
Work (U.S.C.&G.S.) Maine 1890; 1917; r. 1955	d.m.	45 43 12.664 67 49 07.029	191 07 01.7 196 27 11.1 212 39 04.2 221 46 08.5 251 44 09.2 329 59 33.3	11 07 17.6 16 27 54.5 32 41 35.1 41 47 05.5 71 44 48.0 150 00 33.6	Norm Ref. Mon. 39 Green Mountain Ref. Mon. 42 Ref. Mon. 44 Ref. Mon. 48	2495.3 4623.1 8434.4 2588.0 1234.9 3643.3	3.397119 3.664934 3.926053 3.412957 3.091619 3.561492



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International boundary line St. Croix River - Grand Lake - Third Order

State Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE		AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
Little River Point (U.S.C.&G.S.) Maine 1890; r. 1955 d.m.	45 42	40.529	225 47	45.8		45 48	19.5		Work	1423.1	3.153243
	67 49	54.202	237 49	37.4		57 50	49.9		Ref. Mon. 44	2590.6	3.413396
			307 15	33.8		127 17	07.8		Ref. Mon. 48	3571.7	3.552878
Ref. Mon. 45(=White Horse) d.m. (U.S.C.&G.S.) Maine 1890;1917; r. 1955	45 42	07.556	174 06	49.8		354 06	42.9		Work	2020.8	3.305521
	67 48	57.446	201 56	13.4		21 56	45.3		Ref. Mon. 44	2584.2	3.412328
			305 20	15.0		125 21	08.4		Ref. Mon. 48	1979.4	3.296531
Ref. Mon. 46(=Black Rock) d.m. (U.S.C.&G.S.) Maine 1890;1917; r. 1955	45 41	10.940	163 08	34.3		343 08	06.6		Little River Point	2890.2	3.460922
	67 49	15.455	182 46	33.1		2 46	39.1		Work	3762.5	3.575474
			192 33	52.4		12 34	05.3		Ref. Mon. 45	1790.8	3.253054
			198 06	01.2		18 06	46.0		Ref. Mon. 44	4360.9	3.639576
			245 46	04.8		65 49	06.9		Pemberton Ridge	6034.6	3.780650
			253 15	05.9		73 16	12.2		Ref. Mon. 48	2093.1	3.320799
Haley d.m. New Brunswick 1911; r. 1955	45 41	45.111	69 57	22.3		249 56	41.3		Ref. Mon. 48	1318.7	3.120161
	67 46	45.565	71 59	46.6		251 57	59.3		Ref. Mon. 46	3410.5	3.532821
			103 39	51.5		283 38	17.1		Ref. Mon. 45	2936.2	3.467779
			131 28	12.0		311 26	30.7		Work	4082.9	3.610974
			237 52	08.4		57 53	23.2		Pemberton Ridge	2669.5	3.426437
			338 36	41.1		158 37	28.5		Ref. Mon. 51	3933.1	3.594739
Cedar Point 1890 l. Maine 1890	45 46	20.29	253 23	53		73 26	18		Green Mountain	4580.4	3.660901
	67 48	59.57	354 55	52		174 55	59		Piney Point	2425.9	3.384864
Orient Church (U.S.C.&G.S.) n.d. Maine 1890	45 48	51.70	307 26	28		127 28	53		Green Mountain	5536.6	3.743245
	67 48	59.87	359 55	12		179 55	12		Cedar Point 1890	4674.7	3.669752
Weston Methodist Church d. Maine 1889 (U.S.C.&G.S.)r.1955	45 43	59.915	168 25	27.2		348 25	17.4		Peekaboo Mountain	1461.7	3.164868
	67 52	35.265	238 01	50.4		58 06	50.5		Green Mountain	10666.6	4.028026
			285 33	15.6		105 38	40.8		Pemberton Ridge	10198.5	4.008536
			313 14	57.0		133 23	35.9		Spruce Mountain	21590.0	4.334252
Billy (U.S.C.&G.S.) n.d. New Brunswick 1890	45 41	28.739	131 55	44.7		311 51	59.6		Peekaboo Mountain	9133.4	3.960634
	67 47	34.489	239 52	34.6		59 54	24.4		Pemberton Ridge	3837.2	3.584010
			317 45	23.3		137 50	27.0		Spruce Mountain	13695.2	4.136569
Ref. Mon. 47 d.m. Maine 1911;1917;r.1955	45 40	28.195	138 46	33.9		318 45	55.6		Ref. Mon. 46	1754.7	3.244211
	67 48	22.017	203 48	10.3		23 48	38.3		Ref. Mon. 48	2101.4	3.322499
Greenland Point (U.S.C.&G.S.) d.m. Maine 1890;1917;r.1955	45 40	23.911	97 07	50.2		277 07	15.3		Ref. Mon. 47	1066.2	3.027853
	67 47	33.135	123 15	45.6		303 14	32.4		Ref. Mon. 46	2648.0	3.422913
			174 10	35.1		354 10	28.2		Ref. Mon. 48	2065.5	3.315021
			202 19	12.0		22 19	46.1		Haley	2710.1	3.432978
			219 57	05.4		39 58	54.3		Pemberton Ridge	5123.0	3.709521
Ref. Mon. 49 d.m. New Brunswick 1911;1917;r.1955	45 41	03.356	59 44	18.6		239 43	09.6		Greenland Point	2415.8	3.383063
	67 45	56.731	70 58	04.2		250 56	20.3		Ref. Mon. 47	3326.4	3.521974
			93 08	11.9		273 05	49.7		Ref. Mon. 46	4306.7	3.634147
			350 58	08.6		170 58	21.1		Ref. Mon. 51	2403.1	3.380765



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State Maine

Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Ref. Mon. 50 Maine 1917; r. 1955	d.m.	45 40 05.754 67 46 26.228	111 09 59.0 147 38 28.2 172 14 00.2 199 44 40.0 202 19 21.1 245 29 37.8 300 21 14.7	291 09 11.1 327 37 33.4 352 13 46.4 19 45 01.1 22 20 22.1 65 31 04.2 120 21 48.3	Greenland Point Ref. Mon. 48 Haley Ref. Mon. 49 Pemberton Ridge Lark Ref. Mon. 51	1552.9 3096.4 3095.9 1889.5 4850.7 2871.9 1177.1	3.191157 3.490863 3.490788 3.276340 3.685803 3.458166 3.070821
Ref. Mon. 52 New Brunswick 1917; r. 1955	d.m.	45 40 13.803 67 45 03.022	42 57 59.0 82 09 12.7 95 30 05.6	222 57 33.1 262 08 13.2 275 28 18.2	Ref. Mon. 51 Ref. Mon. 50 Greenland Point	1152.5 1818.1 3264.2	3.061643 3.259623 3.513771
Tongue Maine 1911; 1917; r. 1955	d.m.	45 39 41.109 67 45 04.167	102 18 41.7 155 52 13.1 181 24 24.1 188 13 57.1 295 40 39.4	282 18 16.6 335 51 35.5 1 24 24.9 8 14 01.8 115 42 03.6	Ref. Mon. 51 Ref. Mon. 49 Ref. Mon. 52 Spit Forest	778.6 2782.5 1009.7 985.9 2829.5	2.891331 3.44434 3.004185 2.993842 3.451708
Manley Maine 1946; 1955	d.m.	45 39 48.494 67 44 23.501	75 29 02.3 87 50 34.3 135 20 08.8 178 34 24.6 282 55 32.8	255 28 33.2 267 49 40.1 315 19 44.4 358 34 23.2 102 55 55.1	Tongue Ref. Mon. 51 Spit Lark Forest City Ch. Spire (comp.)	909.4 1642.3 1051.4 1724.1 695.9	2.958766 3.215441 3.021766 3.236567 2.842545
Tink New Brunswick 1946; 1955	d.m.	45 40 10.822 67 44 23.527	311 03 35.9 94 31 36.5 321 13 24.0 322 04 44.7 359 57 13.5	131 04 31.0 274 31 12.1 141 13 46.3 142 05 39.8 179 57 13.5	Forest Spit Forest City Ch. Spire (comp.) Forest Manley	2214.1 740.8 1083.9 2717.4 689.3	3.345202 2.869721 3.034982 3.434157 2.838422
Ref. Mon. 53 Maine 1918; r. 1955	d.m.	45 40 08.711 67 44 52.803	139 42 13.7 264 07 34.3	319 42 10.2 84 07 55.2	Spit Tink	162.0 637.1	2.209633 2.804190
Ref. Mon. 54 New Brunswick 1917; r. 1955	d.m.	45 40 33.773 67 44 43.514	14 34 04.7 25 11 45.3 328 35 31.0 342 46 48.2	194 33 58.1 205 11 35.2 148 35 45.3 162 47 02.5	Ref. Mon. 53 Spit Tink Manley	799.4 718.5 830.2 1463.5	2.902789 2.856431 2.919189 3.165389
Foster Maine 1946	d.m.	45 39 59.941 67 44 16.646	109 05 11.3 113 57 44.3 150 53 38.1 156 05 17.5 313 51 13.5	289 04 45.5 293 57 15.0 330 53 18.9 336 05 12.6 133 51 30.9	Ref. Mon. 53 Spit Ref. Mon. 54 Tink Forest City Ch. Spire	828.2 971.2 1195.5 367.5 734.8	2.918145 2.987298 3.077556 2.565236 2.866150
Camp Maine 1917; r. 1955	d.m.	45 39 58.319 67 44 15.720	158 11 25.7 311 59 51.2	338 11 25.0 132 00 07.9	Foster Forest City Ch. Spire	53.93 686.0	1.731793 2.836320



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International boundary line St. Croix River - Grand Lake - Third OrderState MaineProvince New Brunswick

STATION		LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
		°	'	"	°	'	"	°	'	"			
Ref. Mon. 55	d.m.	45	39	59.228	6	51	44.3	186	51	44.2	Camp (comp.)	28.2	1.450918
Maine 1917; r. 1955		67	44	15.565	133	15	15.8	313	15	15.0	Foster	32.14	1.507063
					150	26	20.5	330	26	00.5	Ref. Mon. 54 (comp.)	1226.2	3.088556
Bluff (U.S.C.&G.S.)	d.m.	45	37	44.125	167	17	37	347	16	31	Pemberton Ridge	9082.2	3.958191
Maine 1890		67	43	28.702	309	35	44	129	37	52	Spruce Mountain	5035.5	3.702046
Hedge (U.S.C.&G.S.)	d.m.	45	38	41.992	175	14	18	355	13	58	Pemberton Ridge	7097.5	3.851102
Maine 1890		67	44	33.816	313	20	58	133	23	52	Spruce Mountain	7276.6	3.861928



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State Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Superior schoolhouse chimney d. New Brunswick 1880 (U.S.C.&G.S.)	45 40 17.36 67 43 55.19	125 46 51 330 42 29	305 40 29 150 44 56	Peekaboo Mountain Spruce Mountain	14219.2 9104.0	4.152876 3.959232
Ruin New Brunswick 1946; 1955	d.m. 45 39 56.109 67 43 57.099	111 22 09.1 128 27 09.0 326 59 09.0 344 43 47.1	291 21 25.9 308 26 50.2 146 59 45.3 164 43 50.6	Spit Tink (comp.) Forest Forest City Ch.spire	1407.3 730.5 2014.9 405.1	3.148393 2.863605 3.304252 2.607554
Marsh New Brunswick 1946; 1955	d.m. 45 39 55.662 67 44 02.530	113 22 40.2 135 50 27.6 263 18 39.3	293 22 30.2 315 50 12.7 83 18 43.2	Foster Tink Ruin	332.9 652.4 118.4	2.522293 2.814511 2.073256
Ref. Mon. 56 Maine 1912; r. 1955	d.m. 45 39 51.906 67 44 06.576	147 51 32.2 217 03 33.1 237 41 08.9 309 55 50.9	327 51 20.2 37 03 36.0 57 41 15.7 129 56 01.2	Tink Marsh Ruin Forest City Ch.spire	689.7 145.3 242.7 406.7	2.838659 2.162326 2.385135 2.609248
Field New Brunswick 1917; r. 1955	d.m. 45 39 57.365 67 43 53.974	58 17 35.0 60 10 30.2	238 17 26.0 240 10 28.0	Ref. Mon. 56 Ruin	320.7 77.98	2.506053 1.892010
Ref. Mon. 57 New Brunswick 1917; r. 1955	d.m. 45 39 56.889 67 43 55.191	59 46 06.9 109 52 33.3	239 46 05.5 289 51 48.7	Ruin Spit	47.81 1437.5	1.679542 3.157610
Ref. Mon. 58 New Brunswick 1917; r. 1955	d.m. 45 39 49.813 67 43 55.054	104 31 28.3 167 10 01.5 342 22 23.1	284 31 20.1 347 10 00.1 162 22 25.2	Ref. Mon. 56 Ruin Forest City Ch.spire	257.7 199.3 206.1	2.411048 2.299613 2.314076
Brabazon 2 New Brunswick 1912; r. 1955	d.m. 45 39 49.951 67 43 46.702	30 32 17.3 88 38 58.3 97 59 13.5	210 32 13.4 268 38 52.3 277 58 59.3	Forest City Ch.spire Ref. Mon. 58 Ref. Mon. 56	233.0 180.8 434.44	2.367368 2.257314 2.637926
Inter Maine 1946; 1955	d.m. 45 39 46.383 67 43 43.769	63 32 29.3 113 26 02.9	243 32 23.3 293 25 54.8	Forest City Ch.spire Ref. Mon. 58	203.2 266.3	2.307898 2.425324
Forest City west bridge tablet Maine-New Brunswick 1939	d.m. 45 39 46.605 67 43 44.025	321 05 10.2	141 05 10.4	Inter	8.82	0.945289
Forest City east bridge tablet Maine-New Brunswick 1939	d.m. 45 39 46.553 67 43 43.735	7 55 56.6	187 55 56.6	Inter	5.29	0.723441
House New Brunswick 1917	n.d. 45 39 50.139 67 43 48.514	85 55 49.4 97 56 33.2 152 05 02.0	265 55 44.7 277 56 20.3 332 04 58.1	Ref. Mon. 58 Ref. Mon. 56 Field	141.9 394.8 252.5	2.152099 2.596368 2.402191
Ref. Mon. 59 New Brunswick 1917; r. 1955	d.m. 45 39 46.729 67 43 40.930	80 08 41.8 107 17 51.2	260 08 39.8 287 17 41.1	Inter Ref. Mon. 58 (comp.)	62.38 320.2	1.795028 2.505487
Ref. Mon. 60 Maine 1917; r. 1955	d.m. 45 39 45.079 67 43 38.904	110 55 11.6 139 15 45.8	290 55 08.1 319 15 44.3	Inter Ref. Mon. 59	112.8 67.23	2.052165 1.827548



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International boundary line St. Croix River - Forest City - Third Order Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
Tassel	l.	45	39	34.139	113	32	19.8	293	31	58.0	Forest City Ch.spire	720.0	2.857314
Maine 1912		67	43	21.682	158	31	23.5	338	30	12.5	Pemberton Ridge	5871.0	3.768712
Brabazon 1	d.m.	45	39	53.223	75	28	35.5	255	28	22.6	Brabazon 2	402.71	2.604997
New Brunswick 1912; r.1955		67	43	28.694	345	33	03.8	165	33	08.8	Tassel (comp.)	608.4	2.784214
Ref. Mon. 61	d.m.	45	39	51.205	190	43	40.7	10	43	41.1	Brabazon 1	63.42	1.802225
New Brunswick 1917; r.1955		67	43	29.240	342	44	52.4	162	44	57.8	Tassel	551.7	2.741703
Tass	d.m.	45	39	33.998	147	42	01.3	327	41	15.9	Lark	2568.8	3.409724
Maine 1946; 1955		67	43	22.062	158	36	48.5	338	35	37.7	Pemberton Ridge	5872.1	3.768791
Ref. Mon. 62	d.m.	45	39	40.900	22	01	25.5	202	01	22.7	Tassel	225.2	2.352510
Maine 1917; r. 1955		67	43	17.782	142	03	31.9	322	03	23.7	Ref. Mon. 61	403.4	2.605746
Forest City Baptist Ch.spire	d.	45	39	52.869	278	57	19.3	98	57	30.1	Ref. Mon. 61	329.9	2.518410
New Brunswick 1917; r. 1946		67	43	44.293	319	44	51.1	139	45	07.3	Tassel	757.6	2.879457



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Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Ref. Mon. 64 ecc. Maine 1946	d.m.	45° 40' 01.900 67° 43' 00.126	28° 52' 07.4 63° 11' 13.7	208° 51' 51.7 243° 10' 36.4	Tass Forest City Ch.spire (comp.)	983.6 1262.4	2.992832 3.101210
			125° 20' 28.9 336° 23' 54.7	305° 19' 27.8 156° 25' 42.2	Lark Spruce Mountain	2264.7 8144.6	3.355007 3.910871
Ref. Mon. 64 (1946) Maine r. 1955	d.m.	45° 40' 02.351 67° 43' 00.362	62° 31' 10.1 125° 07' 38.4 339° 53' 24.2	242° 30' 33.0 305° 06' 37.5 159° 53' 24.4	Forest City Ch.spire (comp.) Lark (comp.) Ref. Mon. 64 ecc.	1264.3 2252.5 14.83	3.101835 3.352661 1.171277
Stag Maine 1912; r. 1955	d.m.	45° 40' 28.060 67° 43' 34.233	114° 21' 28.3 317° 16' 05.5 317° 34' 00.8 347° 18' 28.8	294° 20' 51.6 137° 16' 29.7 137° 34' 25.2 167° 18' 48.7	Lark Ref. Mon. 64 (1946) Ref. Mon. 64 ecc. Forest	1217.6 1080.5 1094.2 2743.1	3.085496 3.033632 3.039107 3.438238
Lea New Brunswick 1946; 1955	d.m.	45° 40' 40.338 67° 44' 07.869	107° 52' 52.9 297° 30' 13.6 308° 58' 42.5 336° 27' 29.9	287° 52' 40.2 117° 30' 37.6 128° 59' 30.9 156° 28' 13.8	Lark Stag Ref. Mon. 64 ecc. Forest	400.6 820.8 1886.3 3332.4	2.602704 2.914225 3.275621 3.522754
Gould New Brunswick 1912; r. 1955	d.m.	45° 40' 07.550 67° 43' 27.710	35° 26' 34.2 167° 25' 47.1 285° 10' 05.1 286° 17' 00.8 352° 47' 21.0	215° 26' 16.6 347° 25' 42.4 105° 10' 24.6 106° 17' 20.5 172° 47' 25.2	Forest City Ch.spire (comp.) Stag Ref. Mon. 64 (1946) Ref. Mon. 64 ecc. Tassel	913.2 648.8 613.4 622.0 1039.7	2.960568 2.812086 2.787715 2.793823 3.016920
Dry Maine 1912; r. 1955	d.m.	45° 40' 15.586 67° 43' 13.800	50° 30' 50.3 131° 02' 58.0	230° 30' 40.4 311° 02' 43.4	Gould Stag	390.1 586.5	2.591226 2.768234
Ref. Mon. 64 (old position) Maine 1912	l.	45° 40' 02.346 67° 43' 00.364	27° 55' 27.0 29° 39' 50.6 62° 31' 31.6 105° 11' 20.7 144° 34' 11.0	207° 55' 11.7 209° 39' 38.1 242° 30' 54.5 285° 11' 01.2 324° 34' 01.4	Tassel Ref. Mon. 62 Forest City Ch.spire Gould Dry	985.6 761.9 1264.2 613.4 501.7	2.993683 2.881916 3.101801 2.787728 2.700431
City New Brunswick 1912; r. 1955	d.m.	45° 39' 53.733 67° 43' 21.189	78° 04' 04.3 84° 28' 07.3 161° 41' 29.1 193° 20' 14.2 239° 27' 04.5 239° 27' 55.6	258° 03' 46.0 264° 28' 01.9 341° 41' 24.5 13° 20' 19.5 59° 27' 19.4 59° 28' 10.5	Brabazon 2 (comp.) Brabazon 1 Gould Dry Ref. Mon. 64 (1946) (comp.) Ref. Mon. 64 (old position)	564.5 163.22 4449.3 693.4 523.5 523.4	2.751672 2.212785 2.652562 2.840971 2.718919 2.718830
South Base New Brunswick 1912; r. 1955	d.m.	45° 40' 23.404 67° 43' 42.190	230° 08' 55.1 291° 26' 26.1 327° 21' 51.2	50° 09' 00.8 111° 26' 46.4 147° 22' 01.6	Stag Dry Gould	224.3 660.2 581.2	2.350893 2.819688 2.764339
North Base New Brunswick 1912; r. 1955	d.m.	45° 40' 31.772 67° 43' 51.196	126° 14' 23.9 287° 20' 06.0 322° 57' 54.8	306° 14' 12.0 107° 20' 18.1 142° 58' 01.2	Lea Stag South Base	447.4 384.6 323.6	2.650684 2.585033 2.510072
Ref. Mon. 63 New Brunswick 1917; r. 1955	d.m.	45° 39' 53.221 67° 43' 10.473	139° 51' 23.8 217° 50' 22.8	319° 51' 11.5 37° 50' 30.0	Gould Ref. Mon. 64 (old position)	578.7 356.7	2.762485 2.552343



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State Maine

Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Ref. Mon. 65	d.m.	45 40 14.839	178 58 12.4	358 58 12.2	Stag	408.2	2.610914
New Brunswick 1917; r. 1955		67 43 33.894	266 57 48.6	86 58 03.0	Dry	435.6	2.639059
Ref. Mon. 66	d.m.	45 40 34.523	65 24 01.1	245 23 55.0	North Base	204.0	2.309625
Maine 1912; r. 1955		67 43 42.626	317 41 00.1	137 41 06.1	Stag	269.8	2.431110
			358 25 27.6	178 25 27.9	South Base	343.4	2.535817
Milk	d.m.	45 40 40.238	298 48 25.8	118 48 36.4	Ref. Mon. 66	366.1	2.563640
New Brunswick 1912; r. 1955		67 43 57.450	332 37 19.7	152 37 24.2	North Base	294.3	2.468822
Butter	d.m.	45 40 43.001	6 07 36.8	186 07 35.6	North Base	348.7	2.542407
Maine 1912; r. 1955		67 43 49.477	63 41 28.8	243 41 23.1	Milk	192.5	2.284407
			330 28 14.3	150 28 19.2	Ref. Mon. 66	300.8	2.478314
Gib	d.m.	45 40 54.732	6 35 15.3	186 35 13.6	Milk	450.5	2.653665
Maine 1912; r. 1955		67 43 55.062	31 57 14.0	211 57 04.9	Lea	523.7	2.719110
			154 22 01.7	334 21 14.5	Pemberton Ridge	3299.7	3.518477
			341 32 39.9	161 32 43.9	Butter	381.8	2.581854
			343 14 34.3	163 15 09.1	Forest	3654.6	3.562845
			353 16 07.0	173 16 09.8	North Base (comp.)	713.8	2.853559
Ref. Mon. 67	d.m.	45 40 51.568	231 46 54.6	51 46 58.7	Gib	157.9	2.198423
New Brunswick 1917; r. 1955		67 44 00.795	317 11 45.8	137 11 53.9	Butter	360.5	2.556886
Ref. Mon. 68	d.m.	45 41 02.962	0 58 22.0	180 58 21.8	Ref. Mon. 67	351.8	2.546316
Maine 1917; r. 1955		67 44 00.519	335 04 13.6	155 04 17.5	Gib	280.2	2.447429
			338 48 15.6	158 48 23.5	Butter	661.0	2.820175
Baldy	d.m.	45 40 53.484	253 33 58.8	73 34 03.1	Gib	136.2	2.134261
New Brunswick 1912; r. 1955		67 44 01.100	322 08 40.7	142 08 49.0	Butter	409.9	2.612672
			349 04 03.6	169 04 06.2	Milk	416.5	2.619631
Way	d.m.	45 41 01.541	316 36 20.1	136 36 26.6	Gib	289.3	2.461351
New Brunswick 1912; r. 1955		67 44 04.247	344 41 28.0	164 41 30.2	Baldy	257.9	2.411469
Narrow	d.m.	45 41 03.280	6 50 35.6	186 50 34.4	Baldy	304.6	2.483735
Maine 1912; r. 1955		67 43 59.423	62 47 17.4	242 47 14.0	Way	117.4	2.069578
			340 19 24.0	160 19 27.1	Gib	280.3	2.447562
Pemb	d.m.	45 41 07.312	13 12 00.8	193 11 59.8	Narrow	127.9	2.106745
Maine 1912; r. 1955		67 43 58.074	36 51 45.5	216 51 41.1	Way	222.7	2.347674
Ton	d.m.	45 41 08.371	280 01 58.6	100 02 04.7	Pemb	187.6	2.273277
New Brunswick 1912; r. 1955		67 44 06.612	315 17 45.9	135 17 51.0	Narrow	221.1	2.344656
			346 21 29.9	166 21 31.6	Way	217.0	2.336397
Green	d.m.	45 41 16.553	322 03 54.1	142 04 01.5	Pemb	361.7	2.558359
New Brunswick 1912; r. 1955		67 44 08.350	351 31 47.3	171 31 48.6	Ton	255.4	2.407194
Oldgate	d.m.	45 41 20.768	10 27 05.4	190 27 02.9	Pemb	422.4	2.625752
New Brunswick 1912; r. 1955		67 43 54.533	34 19 50.5	214 19 41.9	Ton	463.5	2.666015
			66 28 48.0	246 28 38.1	Green	326.1	2.513314



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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Ref. Mon. 69	d.m.	45 41 22.787	282 04 16.8	102 04 26.4	Oldgate	298.0	2.474278
New Brunswick 1917; r. 1955		67 44 08.002	335 47 12.8	155 47 19.9	Pemb	523.8	2.719195
Ref. Mon. 70	d.m.	45 41 20.325	102 44 47.2	282 44 36.1	Ref. Mon. 69 (comp.)	344.6	2.537319
New Brunswick 1917; r. 1955		67 43 52.469	107 02 16.5	287 02 15.0	Oldgate	46.71	1.669446
Ref. Mon. 71 (=Newgate)	d.m.	45 41 18.803	44 10 05.7	224 09 55.4	Ton	449.0	2.652252
Maine 1912; r. 1955		67 43 52.155	78 47 16.0	258 47 04.4	Green	357.3	2.553002
			171 45 06.7	351 45 06.5	Ref. Mon. 70	47.5	1.676296
Driver	d.m.	45 41 21.999	79 49 50.2	259 49 43.2	Oldgate	215.20	2.332842
New Brunswick 1912; r. 1955		67 43 44.744					
Rapids	d.m.	45 41 20.455	214 48 27.0	34 48 28.1	Driver	58.1	1.763886
Maine 1912; r. 1946		67 43 46.276					
Salmon	d.m.	45 41 19.263	98 09 51.7	278 09 41.0	Oldgate (comp.)	327.2	2.514826
New Brunswick 1912; r. 1946		67 43 39.565	104 12 56.4	284 12 51.6	Rapids	149.8	2.175526
			127 00 07.0	307 00 03.3	Driver	140.34	2.147167
Shade	d.m.	45 41 18.716	142 57 15.6	322 57 13.1	Driver	127.0	2.103894
Maine 1912; r. 1946		67 43 41.208	244 32 09.1	64 32 10.3	Salmon	39.4	1.595186
Ref. Mon. 72	d.m.	45 41 19.426	293 21 01.7	113 21 02.1	Salmon	12.7	1.104819
New Brunswick 1917; r. 1946		67 43 40.106	95 55 04.7	275 54 55.9	Ref. Mon. 70	269.0	2.429714
Mouth	d.m.	45 41 09.738	125 04 48.2	305 04 32.2	Oldgate (comp.)	592.6	2.772728
New Brunswick 1912; r. 1946		67 43 32.123	151 17 48.0	331 17 42.7	Salmon	335.28	2.525402
Ref. Mon. 74	d.m.	45 41 06.217	158 11 07.3	338 11 01.9	Ref. Mon. 72	439.3	2.642739
Maine 1912; r. 1955		67 43 32.562	184 58 52.7	4 58 53.0	Mouth	109.1	2.037870
Ref. Mon. 73	d.m.	45 41 07.231	14 13 27.5	194 13 27.2	Ref. Mon. 74	32.3	1.509085
New Brunswick 1917; r. 1955		67 43 32.195	155 33 09.9	335 33 04.2	Ref. Mon. 72	413.6	2.616584
Ref. Mon. 75	d.m.	45 41 03.425	113 41 01.5	293 40 55.0	Ref. Mon. 74	214.6	2.331582
New Brunswick 1912; r. 1955		67 43 23.481	136 10 47.3	316 10 41.1	Mouth	270.1	2.431548



GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line St. Croix River - Spednik Lake - Third Order

State Maine

Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Sockalexis Maine 1912; r. 1955	d.m.	45 41 00.830 67 43 29.078	155 37 09.8 166 31 29.2 236 31 05.4	335 37 07.3 346 31 27.0 56 31 09.4	Ref. Mon. 74 Mouth Ref. Mon. 75	182.6 282.8 145.2	2.261482 2.451470 2.162062
Bege Maine 1946; 1955	d.m.	45 40 57.457 67 43 24.448	147 00 33.5 150 56 45.9 186 28 52.1 258 29 39.8	327 00 27.7 330 56 40.4 6 28 52.8 78 29 57.6	Ref. Mon. 74 (comp.) Ref. Mon. 73 Ref. Mon. 75 Boom	322.4 345.2 185.4 550.3	2.508455 2.538061 2.268218 2.740562
Halo Maine 1912; r. 1955	d.m.	45 40 47.266 67 43 13.422	142 49 16.4 146 36 41.6 156 25 34.6 215 18 41.4	322 49 08.5 326 36 28.2 336 25 27.4 35 18 51.3	Bege Ref. Mon. 73 Ref. Mon. 75 Boom	394.9 738.2 544.3 520.0	2.596448 2.868176 2.735833 2.716017
Ref. Mon. 76 Maine 1917; r. 1955	d.m.	45 40 58.459 67 43 25.973	199 22 50.9 313 09 20.9	19 22 52.7 133 09 22.0	Ref. Mon. 75 Bege	162.5 45.24	2.210927 1.655523
Nogo Maine 1912; r. 1955	d.m.	45 40 41.470 67 43 13.155	150 02 05.9 161 45 15.1 178 09 11.1	330 01 54.5 341 45 07.7 358 09 10.9	Sockalexis Ref. Mon. 75 Halo	689.9 713.7 179.0	2.838785 2.853501 2.252892
Bob New Brunswick 1912; r. 1955	d.m.	45 40 52.075 67 43 07.638	20 02 17.0 40 08 09.3 114 32 57.9 120 13 30.2 135 37 37.2 212 27 00.6	200 02 13.1 220 08 05.2 294 32 45.9 300 13 14.9 315 37 25.9 32 27 06.4	Nogo Halo Bege Sockalexis Ref. Mon. 75 Boom	348.5 194.2 399.9 537.0 490.2 326.9	2.542164 2.288198 2.601986 2.729952 2.690406 2.514462
Ref. Mon. 77 New Brunswick 1912; r. 1955	d.m.	45 40 51.776 67 42 56.272	3 40 54.2 48 57 09.6 69 26 08.7 92 08 31.4 106 02 46.3 166 05 56.7 282 45 42.2	183 40 46.9 228 56 57.5 249 25 56.4 272 08 23.2 286 02 26.1 346 05 54.3 102 46 03.4	Forest Nogo Halo Bob Bege Boom Square	3415.3 484.5 396.4 246.2 634.5 293.7 658.4	3.533434 2.685303 2.598157 2.391217 2.802418 2.467877 2.818514
All Maine 1946; 1955	d.m.	45 40 47.189 67 42 55.189	65 34 49.9 90 20 41.9 170 36 03.9	245 34 37.0 270 20 28.8 350 36 03.1	Nogo Halo Ref. Mon. 77	427.0 394.6 143.5	2.630477 2.596169 2.156996
Hy-U Maine 1912; r. 1955	d.m.	45 40 46.107 67 42 54.389	152 36 21.5	332 36 20.9	All	37.64	1.575613
Ref. Mon. 78 Maine 1912; r. 1955	d.m.	45 40 45.310 67 42 48.515	111 52 44.8 139 56 18.0 153 48 30.2 263 29 10.1	291 52 40.1 319 56 12.5 333 48 22.3 83 29 25.8	All Ref. Mon. 77 Boom Square	155.6 260.8 540.2 477.4	2.192117 2.416342 2.732526 2.678866
Upper New Brunswick 1912; r. 1955	d.m.	45 40 44.634 67 42 30.240	93 01 28.9 226 24 18.0	273 01 15.8 46 24 20.6	Ref. Mon. 78 Square	396.1 108.8	2.597759 2.036633



## INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA

GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

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International boundary line St. Croix River - Spednik Lake - Third Order

State Maine

Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Ref. Mon. 79 New Brunswick 1912; r. 1955	d.m.	45 40 38.551 67 42 11.094	21 45 42.8 104 27 11.6 112 40 12.0 128 04 15.1	201 45 03.2 284 26 44.8 292 39 39.7 308 04 04.0	Forest Ref. Mon. 78 Ref. Mon. 77 Square	3230.1 836.3 1059.6 426.2	3.509213 2.922378 3.025128 2.629653
Drake Maine 1946; 1955	d.m.	45 40 32.365 67 42 36.881	147 47 25.7 200 46 41.8 251 06 22.8	327 47 17.3 20 46 46.5 71 06 41.2	Ref. Mon. 78 Upper Ref. Mon. 79	472.4 405.1 589.9	2.674286 2.607603 2.770764
Duck Maine 1912; r. 1955	d.m.	45 40 31.154 67 42 39.939	181 55 40.5	1 55 40.5	Drake	37.41	1.573037
Ref. Mon. 80 ecc. Maine 1946	d.m.	45 40 18.627 67 42 29.173	158 31 38.9 212 27 38.2 322 33 22.2	338 31 33.4 32 27 51.1 142 33 48.4	Drake Ref. Mon. 79 Loose ecc.	455.7 729.0 1305.6	2.658724 2.862735 3.115825
Ref. Mon. 80 Maine 1912; r. 1955	d.m.	45 40 18.633 67 42 29.655	271 01 39.6	91 01 39.9	Ref. Mon. 80 ecc.	10.43	1.018169
Ender New Brunswick 1946; 1955	d.m.	45 40 37.133 67 42 25.152	8 39 39.1 59 53 23.1 261 48 45.0	188 39 36.2 239 53 14.7 81 48 55.0	Ref. Mon. 80 ecc. Drake Ref. Mon. 79	577.9 293.4 307.4	2.761868 2.467528 2.487691
Ref. Mon. 81 New Brunswick 1912; r. 1955	d.m.	45 40 05.268 67 42 00.051	36 04 16.6 123 12 02.2 136 23 05.3 139 43 32.4 143 12 25.6 155 59 56.2 166 54 20.8 345 20 03.9	216 03 29.1 303 11 41.4 316 22 39.0 319 42 52.2 323 11 43.0 335 59 37.2 346 54 12.9 165 20 09.3	Forest Ref. Mon. 80 ecc. Drake Ref. Mon. 77 Boom Square Ref. Mon. 79 Loose ecc.	2440.1 753.3 1155.6 1882.1 2149.2 1412.6 1055.0 645.2	3.387399 2.876983 3.062803 3.274651 3.332275 3.150004 3.023254 2.809706
Loose New Brunswick 1912; r. 1955	d.m.	45 39 45.353 67 41 52.503	0 19 09.1	180 19 09.1	Loose ecc.	9.38	0.972002
Ref. Mon. 82 Maine 1912; r. 1955	d.m.	45 39 37.718 67 42 20.407	171 27 22.2 207 23 12.9 249 27 22.9	351 27 15.9 27 23 27.4 69 27 42.8	Ref. Mon. 80 ecc. Ref. Mon. 81 Loose ecc.	1277.2 957.9 645.1	3.106251 2.981325 2.809597
Ref. Mon. 83 ecc. New Brunswick 1946	d.m.	45 39 32.677 67 41 43.729	101 05 32.3 153 33 17.9	281 05 06.1 333 33 11.6	Ref. Mon. 82 Loose ecc.	809.2 426.6	2.908033 2.630020
Ref. Mon. 83 New Brunswick 1912; r. 1955	d.m.	45 39 32.668 67 41 43.527	93 47 34.5	273 47 34.4	Ref. Mon. 83 ecc.	4.39	0.642725
Orphan Maine 1912; r. 1955	d.m.	45 39 21.704 67 42 00.492	193 29 27.0 226 58 08.0	13 29 32.7 46 58 20.0	Loose ecc. Ref. Mon. 83 ecc.	741.2 496.5	2.869933 2.695900
Annie Maine 1946; 1955	d.m.	45 39 14.817 67 41 52.544	139 31 53.2 141 00 50.6 180 03 06.2 199 05 24.7	319 31 33.3 321 00 44.9 0 03 06.2 19 05 31.0	Ref. Mon. 82 Orphan Loose ecc. Ref. Mon. 83 ecc.	929.4 273.5 933.4 583.5	2.968205 2.437018 2.970050 2.766037



**INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA**  
GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

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*International boundary line* St. Croix River - Spednik Lake - Third Order

*State* Maine

*Province* New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
None	d.m.	45° 39' 02.081	118° 44' 55.5	298° 44' 31.8	Annie	817.6	2.912535
New Brunswick 1912; r. 1955		67° 41' 19.437	150° 53' 36.1	330° 53' 18.7	Ref. Mon. 83 ecc.	1081.2	3.033886
Jimmie	d.m.	45° 38' 50.431	148° 49' 32.5	328° 49' 17.4	Annie	880.0	2.944460
Maine 1946; 1955		67° 41' 31.506	168° 31' 51.2	348° 31' 42.4	Ref. Mon. 83 ecc.	1330.9	3.124130
			216° 00' 00.8	36° 00' 09.4	None	444.6	2.647960
Jim	d.m.	45° 38' 50.882	299° 10' 47.6	119° 10' 48.4	Jimmie	28.54	1.455524
Maine 1912; r. 1955		67° 41' 32.657					
Ref. Mon. 84	d.m.	45° 39' 19.163	4° 02' 52.3	184° 02' 50.3	Jimmie	889.3	2.949036
New Brunswick 1917; r. 1955		67° 41' 28.607	75° 29' 10.1	255° 28' 53.0	Annie	535.4	2.728640
			339° 22' 08.3	159° 22' 14.9	None	563.5	2.750908
Ref. Mon. 85	d.m.	45° 38' 54.579	192° 24' 17.5	12° 24' 23.0	Ref. Mon. 84	777.1	2.890503
Maine 1917; r. 1955		67° 41' 36.318	237° 38' 13.8	57° 38' 25.9	None	432.7	2.636214
			320° 51' 55.6	140° 51' 59.1	Jimmie	165.1	2.217720
Short	d.m.	45° 38' 53.900	72° 48' 18.3	252° 48' 06.9	Jimmie	362.2	2.558969
New Brunswick 1912; r. 1955		67° 41' 15.526	92° 40' 06.0	272° 39' 51.1	Ref. Mon. 85	450.7	2.653890
Byron	d.m.	45° 38' 32.059	150° 50' 00.8	330° 49' 50.4	Jimmie	649.6	2.812638
Maine 1912; r. 1955		67° 41' 16.886	176° 35' 23.5	356° 35' 21.7	None	928.5	2.967799
			182° 30' 03.1	2° 30' 04.1	Short	675.0	2.829272
Table Rock (U.S.C.&G.S.)	d.m.	45° 38' 11.489	108° 06' 49.2	288° 05' 21.4	Walls Hill North	2798.5	3.446922
New Brunswick 1890; r. 1955		67° 40' 39.375	128° 01' 07.6	308° 00' 40.8	Byron	1031.2	3.013323
			149° 07' 39.0	329° 07' 13.2	Short	1525.6	3.183431
			329° 47' 11.6	149° 47' 43.4	Spednik	1914.2	3.281987
			357° 01' 47.4	177° 01' 54.4	Spruce Mountain	4060.9	3.608624
Ref. Mon. 86	d.m.	45° 38' 17.330	120° 57' 51.4	300° 57' 26.4	Byron	883.9	2.946414
New Brunswick 1917; r. 1955		67° 40' 41.887	343° 12' 39.4	163° 12' 41.2	Table Rock	188.3	2.274959
Ref. Mon. 87	d.m.	45° 38' 17.502	174° 05' 29.2	354° 05' 25.4	Short	1129.7	3.052970
Maine 1917; r. 1955		67° 41' 10.155	270° 29' 44.3	90° 30' 04.5	Ref. Mon. 86	612.3	2.786935
			285° 33' 29.5	105° 33' 51.5	Table Rock	692.0	2.840115
Shaw ecc.	d.m.	45° 38' 02.749	142° 04' 53.3	322° 04' 41.6	Ref. Mon. 87	577.4	2.761470
Maine 1946; 1955		67° 40' 53.772	151° 03' 00.7	331° 02' 44.2	Byron	1034.1	3.014578
			163° 23' 26.9	343° 23' 11.4	Short	1648.0	3.216952
			209° 45' 39.8	29° 45' 48.3	Ref. Mon. 86	518.6	2.714800
			229° 07' 36.9	49° 07' 47.2	Table Rock	412.4	2.615285
			317° 20' 57.3	137° 21' 39.4	Spednik	1882.1	3.274640
Shaw	d.m.	45° 38' 02.523	242° 28' 24.8	62° 28' 25.2	Shaw ecc.	15.10	1.178972
Maine 1912; r. 1955		67° 40' 54.390					
Creek ecc.	d.m.	45° 37' 33.679	168° 34' 43.2	348° 34' 37.2	Shaw ecc.	915.6	2.961713
Maine 1946		67° 40' 45.401	186° 22' 46.0	6° 22' 50.3	Table Rock	1174.6	3.069889
			293° 59' 32.8	114° 00' 08.9	Spednik	1197.3	3.078188
Creek	d.m.	45° 37' 33.783	294° 40' 45.6	114° 40' 45.8	Creek ecc.	7.67	0.884554
Maine 1912; r. 1955		67° 40' 45.723					



INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA  
GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

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International boundary line St. Croix River - Spednik Lake - Third Order State Maine Province New Brunswick

STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Crab New Brunswick 1912; r. 1955	d.m. 45 37 46.524 67 40 08.703	63 29 28.9 117 10 02.5 341 18 58.3	243 29 02.7 297 09 30.3 161 19 08.2	Creek ecc. Shaw ecc. Spednik	888.4 1097.2 932.6	2.948603 3.040301 2.969709
Hinkley Point New Brunswick 1946; 1955	d.m. 45 37 34.320 67 39 39.698	33 02 36.9 89 12 35.7 120 57 11.2	213 02 26.0 269 11 48.7 300 56 50.4	Spednik Creek ecc. Crab	604.5 1423.4 732.6	2.781376 3.153340 2.864873
Hinkley New Brunswick 1912; r. 1955	d.m. 45 37 35.080 67 39 39.438	13 30 13.5	193 30 13.3	Hinkley Point	24.13	1.382522
Ref. Mon. 89 New Brunswick 1917; r. 1955	d.m. 45 37 34.820 67 39 39.999	337 04 13.1	157 04 13.3	Hinkley Point	16.75	1.223984
Ref. Mon. 91 New Brunswick 1917; r. 1955	d.m. 45 37 17.538 67 38 53.945	40 57 52.1 90 30 00.3 117 10 12.3 117 36 03.5 244 30 19.1	220 56 43.7 270 29 16.7 297 07 29.1 297 35 30.8 64 30 47.4	Spruce Mountain Spednik Walls Hill North Hinkley Point Solid	3164.4 1320.9 5556.0 1118.4 948.7	3.500292 3.120863 3.744766 3.048607 2.977113
Ref. Mon. 88 Maine 1912; r. 1955	d.m. 45 37 15.208 67 39 44.163	151 11 51.9 189 18 32.2 266 12 44.9	331 11 34.3 9 18 35.4 86 13 20.8	Crab Hinkley Point Ref. Mon. 91	1103.3 597.9 1090.3	3.042703 2.776632 3.037558
Spingolly New Brunswick 1912; r. 1955	d.m. 45 37 45.293 67 38 53.381	0 48 59.9 71 20 48.0 297 59 13.3	180 48 59.5 251 20 14.9 117 59 41.2	Ref. Mon. 91 Hinkley Point Solid	857.0 1059.0 955.9	2.932968 3.024890 2.980394
McAllister (U.S.C.&G.S.) New Brunswick 1890; r. 1955	d.m. 45 37 17.146 67 38 55.218	246 18 59.9	66 19 00.8	Ref. Mon. 91	30.11	1.478773
Lyons Maine 1912; r. 1955	d.m. 45 36 59.166 67 39 17.506	156 06 29.5 200 09 00.8 221 58 58.6 234 28 42.4 280 41 08.6	336 06 13.6 20 09 18.0 41 59 15.4 54 29 27.5 100 43 13.9	Hinkley Point Spingolly Ref. Mon. 91 Solid Norway	1187.0 1517.0 763.1 1679.2 3866.7	3.074464 3.180974 2.882564 3.225104 3.587339
Upper End Birch Island Maine 1912; r. 1955	d.m. 45 37 19.972 67 38 21.169	83 57 47.7 138 15 01.4 203 42 09.5	263 57 24.2 318 14 38.3 23 42 14.3	Ref. Mon. 91 Spingolly Solid	714.0 1047.9 363.9	2.853721 3.020317 2.560902
Ref. Mon. 92 New Brunswick 1917; r. 1955	d.m. 45 37 33.945 67 38 13.468	11 49 09.1 59 59 23.1 112 03 40.9	191 49 08.4 239 58 54.1 292 03 12.3	Solid Ref. Mon. 91 Spingolly	100.4 1012.7 932.9	2.001791 3.005471 2.969828
Ref. Mon. 92-A New Brunswick 1939; r. 1955	d.m. 45 37 34.545 67 38 12.038	59 07 11.8	239 07 10.8	Ref. Mon. 92	36.10	1.557491
Ref. Mon. 90 Maine 1917; r. 1955	d.m. 45 36 42.640 67 38 56.889	138 47 56.3 183 23 15.6	318 47 41.6 3 23 17.7	Lyons Ref. Mon. 91	678.1 1079.3	2.831314 3.033142



GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line St. Croix River - Spednik Lake - Third Order State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Pike Maine 1912; r. 1955	d.m.	45 36 17.910 67 38 12.777	132 14 56.2 154 09 04.0 161 56 34.5 256 56 26.0	312 14 09.9 334 08 34.5 341 56 05.4 76 57 45.0	Lyons Ref. Mon. 91 Spingolly Norway	1894.6 2045.6 2837.6 2460.7	3.277517 3.310824 3.452949 3.391054
Ref. Mon. 94 New Brunswick 1917; r. 1955	d.m.	45 37 22.281 67 37 53.221	12 02 17.6	192 02 03.6	Pike	2032.0	3.307924
Birch Island Maine 1946; 1955	d.m.	45 37 08.965 67 37 59.225	10 33 15.6 197 33 29.5	190 33 05.9 17 33 33.8	Pike Ref. Mon. 94	1603.3 431.2	3.205026 2.634674
Ref. Mon. 93 Maine 1917; r. 1955	d.m.	45 37 09.267 67 38 00.687	286 24 54.7	106 24 55.7	Birch Island	33.02	1.518785
Lower End Birch Island Maine 1912; r. 1955	d.m.	45 36 58.427 67 37 49.455	22 00 02.9 71 33 31.3 90 41 37.0 112 53 58.4 173 40 46.3	201 59 46.2 251 32 43.0 270 40 34.0 292 53 12.2 353 40 43.6	Pike Ref. Mon. 90 Lyons Ref. Mon. 91 Ref. Mon. 94	1349.1 1540.3 1907.9 1516.7 741.0	3.130044 3.187595 3.280550 3.180891 2.869792
Pat New Brunswick 1955	d.m.	45 36 51.040 67 36 50.806	60 04 23.3 94 31 37.4 100 10 47.4 110 28 40.7 125 30 16.7 306 57 59.3	240 03 24.7 274 29 52.5 280 10 05.5 290 27 51.8 305 29 32.1 126 58 19.7	Pike Lyons Lower End Birch Is. Birch Island Ref. Mon. 94 Norway	2049.7 3188.4 1291.1 1582.3 1661.0 777.0	3.311687 3.503575 3.110945 3.199295 3.220365 2.890413
Patterson New Brunswick 1912; r. 1955	d.m.	45 36 51.288 67 36 50.444	45 38 47.2	225 38 46.9	Pat	10.96	1.039715
Ref. Mon. 96 Maine 1917; r. 1955	d.m.	45 36 06.906 67 36 41.182	171 17 56.4 204 43 27.5	351 17 49.6 24 43 41.1	Pat Norway	1378.4 985.7	3.139387 2.993732
Bright Maine 1912; r. 1955	d.m.	45 36 07.551 67 37 04.792	192 43 07.6 226 32 29.5 272 13 38.0	12 43 17.7 46 33 00.0 92 13 54.9	Pat Norway Ref. Mon. 96	1376.4 1272.8 512.1	3.138754 3.104749 2.709329
Ref. Mon. 95 New Brunswick 1917; r. 1955	d.m.	45 36 41.640 67 36 20.213	13 22 43.7 22 57 58.6	193 22 42.3 202 57 43.6	Norway Ref. Mon. 96	182.0 1164.7	2.260043 3.066196
Garfield Maine 1912; r. 1955	d.m.	45 36 13.835 67 36 03.437	75 20 53.8 138 13 13.1 149 14 05.6 157 02 58.4	255 20 26.8 318 12 39.3 329 13 52.2 337 02 46.4	Ref. Mon. 96 Pat Norway Ref. Mon. 95	845.5 1540.5 793.0 932.2	2.927115 3.187649 2.899270 2.969527
Dirty New Brunswick 1912; r. 1955	d.m.	45 36 34.227 67 35 51.167	22 53 47.6 94 24 56.8 109 59 10.4	202 53 38.8 274 24 34.6 289 58 49.6	Garfield Norway Ref. Mon. 95	683.4 673.5 669.7	2.834679 2.828334 2.825880
Windy Maine 1946; 1955	d.m.	45 36 17.424 67 35 46.139	73 32 06.2 126 10 21.0 168 08 17.1	253 31 53.8 306 09 55.2 348 08 13.5	Garfield Norway Dirty	390.9 966.8 530.1	2.592058 2.985343 2.724345



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International boundary line St. Croix River - Spednik Lake - Third Order State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Ref. Mon. 97	d.m.	45 36 13.363	114 21 04.9	294 20 55.8	Windy	304.1	2.483016
Maine 1917; r. 1955		67 35 33.354	149 04 11.2	329 03 58.5	Dirty	751.0	2.875612
Wind (U.S.C.&G.S.)	d.m.	45 36 19.092	17 46 54.2	197 46 53.7	Windy	54.08	1.733019
Maine 1890; r. 1955		67 35 45.377					
Robertson	d.m.	45 36 13.427	88 21 21.2	268 21 18.9	Ref. Mon. 97	69.3	1.840615
Maine 1912; r. 1955		67 35 30.159	121 38 01.9	301 37 24.7	Norway	1323.3	3.121674
			144 40 04.0	324 39 49.0	Dirty	787.2	2.896065
Ref. Mon. 98	d.m.	45 36 39.934	23 10 39.5	203 10 28.0	Robertson	890.2	2.949483
New Brunswick 1917; r. 1955		67 35 13.992	77 39 58.2	257 39 31.7	Dirty	824.6	2.916238
Fog	d.m.	45 36 34.744	37 13 30.9	217 13 14.5	Robertson	826.5	2.917253
New Brunswick 1912; r. 1955		67 35 07.087	62 08 31.1	242 07 50.9	Garfield	1381.2	3.140271
			89 02 44.0	269 02 12.6	Dirty	955.3	2.980147
			91 16 09.7	271 15 16.1	Norway	1627.1	3.211406
			136 57 25.2	316 57 20.3	Ref. Mon. 98	219.2	2.340857
Ref. Mon. 99	d.m.	45 35 58.714	123 05 25.8	303 05 02.9	Robertson	832.0	2.920143
Maine 1917; r. 1955		67 34 57.993	169 57 13.8	349 57 07.3	Fog	1129.7	3.052961
Aurora (U.S.C.&G.S.)	d.m.	45 36 12.328	52 19 17.8	232 18 59.8	Ref. Mon. 99	687.6	2.837335
New Brunswick 1890; r. 1955		67 34 32.883	87 14 49.2	267 10 34.2	Spruce Mountain	7741.4	3.888820
			91 34 15.6	271 33 34.7	Robertson	1241.7	3.094023
			107 05 52.5	287 04 34.4	Norway	2477.3	3.393983
			133 02 22.2	313 01 57.7	Fog	1014.1	3.006071
			278 32 06.2	98 33 19.7	Hardwood Is. (comp.)	2255.2	3.353186
			295 36 24.6	115 36 46.0	Fen	721.5	2.858242
			334 50 29.6	154 51 52.1	Pirate	5895.9	3.770551
Martin	d.m.	45 35 53.269	119 08 35.8	299 07 59.0	Robertson	1278.1	3.106554
Maine 1912; r. 1955		67 34 38.650	154 18 07.4	334 17 47.0	Fog	1421.0	3.152607
			191 59 32.0	11 59 36.1	Aurora	601.5	2.779252
Muncy	d.m.	45 35 45.196	124 50 22.2	304 50 10.4	Martin	436.3	2.639806
Maine 1912; r. 1955		67 34 22.127	164 26 58.4	344 26 50.7	Aurora	869.5	2.939259
Herb	d.m.	45 35 56.653	46 41 14.3	226 41 01.9	Muncy	515.6	2.712319
New Brunswick 1912; r. 1955		67 34 04.818	81 53 45.0	261 53 20.8	Martin	740.7	2.869620
			128 30 36.4	308 30 16.3	Aurora	777.3	2.890572
Ref. Mon. 100	d.m.	45 35 58.251	48 48 05.5	228 47 50.3	Muncy	611.9	2.786701
New Brunswick 1917; r. 1955		67 34 00.883	59 55 43.0	239 55 40.2	Herb	98.5	1.993545
Sandy	d.m.	45 35 53.101	69 40 41.6	249 40 19.9	Muncy	702.8	2.846802
New Brunswick 1911; r. 1955		67 33 51.721	111 07 02.4	291 06 53.1	Herb	304.3	2.483245



GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line St. Croix River - Spednik Lake - Third Order

State Maine

Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Rocky Point (U.S.C.&G.S.) Maine 1890; r. 1955	d.m.	45 35 40.446 67 33 56.909	105 01 02.9 141 37 11.2 161 05 22.8 171 05 39.7 196 03 14.2 245 53 08.0 249 09 41.1 310 42 26.1	285 00 44.9 321 36 45.5 341 05 17.2 351 05 36.9 16 03 17.9 65 53 55.8 69 15 55.6 130 44 32.8	Muncy Aurora Herb Ref. Mon. 100 Sandy Hardwood Island Mount Henry Vance Mountain	565.9 1255.6 528.9 556.4 406.6 1589.3 12147.4 5075.5	2.752741 3.098864 2.723343 2.745382 2.609125 3.201202 4.084482 3.705476
Muco 1946 Maine 1955	d.m.	45 35 33.258 67 33 39.510	120 28 33.7 136 12 11.0 149 01 21.8 150 29 45.3 156 38 05.9 230 56 26.0	300 28 21.3 316 11 32.9 329 01 06.6 330 29 28.6 336 37 57.2 50 57 01.4	Rocky Point Aurora Ref. Mon. 100 Fen Sandy Hardwood Island	437.6 1671.2 900.0 1027.6 667.3 1382.5	2.641049 3.223032 2.954233 3.011816 2.824353 3.140670
Muddie 1946 Maine 1955	d.m.	45 35 42.255 67 33 15.875	61 32 07.1 121 11 50.1 223 24 39.1	241 31 50.2 301 11 16.5 43 24 57.6	Muco Fen Hardwood Island	582.7 1190.4 816.8	2.765468 3.075704 2.912095
Ref. Mon. 101 Maine 1917; r. 1955	d.m.	45 35 41.595 67 33 15.649	166 27 26.3	346 27 26.1	Muddie	20.96	1.321289
Cleft Maine 1911; r. 1955	d.m.	45 35 40.155 67 32 44.693	95 28 56.6 111 55 02.3 170 07 55.0 300 55 52.1	275 28 34.3 291 54 06.4 350 07 51.2 120 56 50.1	Muddie Fen Hardwood Island Birch Point	679.0 1826.0 668.0 2052.0	2.831841 3.261511 2.824790 3.312186
Ref. Mon. 102-A New Brunswick 1921; r. 1955	d.m.	45 36 04.507 67 32 38.437	10 13 27.6 49 45 01.2 69 27 51.9	190 13 23.2 229 44 34.5 249 27 43.7	Cleft Muddie Hardwood Island	763.9 1063.2 267.0	2.883063 3.026603 2.426582
Ref. Mon. 102 New Brunswick 1917; r. 1955	d.m.	45 36 02.384 67 32 34.010	18 38 42.3 85 21 16.2 124 20 42.9	198 38 34.7 265 21 04.8 304 20 39.7	Cleft Hardwood Island Ref. Mon. 102-A	724.3 347.2 116.2	2.859900 2.540523 2.065195
Pine New Brunswick 1911; r. 1955	d.m.	45 35 56.397 67 31 21.034	1 57 53.2 18 51 21.0 74 33 01.8 94 39 25.0 294 20 59.0 352 59 54.8	181 57 51.4 198 50 26.4 254 32 02.0 274 38 21.4 114 22 01.2 173 00 10.1	Birch Point Pirate Cleft Hardwood Island Musquash Vance Mountain	1557.3 5119.8 1881.3 1934.0 2074.9 3832.4	3.192384 3.709255 3.274453 3.286452 3.316997 3.583467
Ref. Mon. 103 Maine 1917; r. 1955	d.m.	45 35 05.168 67 31 23.339	172 15 33.5	352 15 33.4	Birch Point	25.39	1.404661
Walker Maine 1911; r. 1955	d.m.	45 35 04.114 67 31 21.364	127 13 13.1 141 17 01.9	307 13 11.7 321 17 00.4	Ref. Mon. 103 Birch Point	53.8 73.9	1.730592 1.868841
Ref. Mon. 104 New Brunswick 1917; r. 1955	d.m.	45 35 51.163 67 30 29.138	40 11 39.5 98 10 47.8	220 11 00.6 278 10 10.7	Birch Point Pine	1825.9 1136.3	3.261480 3.055492



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International boundary line St. Croix River - Spednik Lake - Third Order

State Maine

Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Ref. Mon. 105 Maine 1911; r. 1955	d.m.	45 34 55.859 67 30 00.929	99 54 45.6 160 17 55.0 188 38 27.9	279 53 46.6 340 17 34.9 8 38 33.1	Birch Point Ref. Mon. 104 Musquash	1817.1 1813.6 1024.8	3.259371 3.258540 3.010654
Ref. Mon. 106 New Brunswick 1917; r. 1955	d.m.	45 35 33.068 67 29 55.151	6 13 25.3 348 02 06.5	186 13 21.1 168 02 07.5	Ref. Mon. 105 Musquash	1155.5 138.5	3.062788 2.141601
South 1946 Maine 1955	d.m.	45 34 57.953 67 29 39.512	96 17 09.5 146 47 12.5 161 53 14.7 162 38 10.5	276 15 55.2 326 46 37.1 341 53 04.4 342 37 59.2	Birch Point Ref. Mon. 104 Musquash Ref. Mon. 106	2267.9 1963.6 998.0 1135.9	3.355619 3.293060 2.999139 3.055327
Bay Maine 1911; r. 1955	d.m.	45 34 58.849 67 29 40.289	328 39 35.9	148 39 36.5	South	32.40	1.510549
Heifer New Brunswick 1911; r. 1955	d.m.	45 35 33.715 67 29 32.292	8 04 11.8 71 34 41.3 184 14 37.6	188 04 06.8 251 34 26.0 4 14 41.0	South Musquash Pearce	1115.1 492.0 1376.1	3.047310 2.691962 3.138644
White Owl Maine 1911; r. 1955	d.m.	45 35 26.341 67 29 22.231	23 08 47.3 96 01 03.4 106 13 53.3 136 13 53.0	203 08 35.1 276 00 40.9 286 13 29.8 316 13 45.8	South Musquash Ref. Mon. 106 Heifer	953.1 688.7 743.2 315.3	2.979143 2.838004 2.871103 2.498656
Ref. Mon. 107 New Brunswick 1917; r. 1955	d.m.	45 35 35.719 67 29 33.354	320 12 50.2 339 35 53.6	140 12 58.2 159 35 54.4	White Owl Heifer	376.8 66.0	2.576055 1.819577
Todd (U.S.C.&G.S.) Maine 1890; r. 1908	d.m.	45 33 29.194 67 32 29.078	114 08 33.8 151 57 25.6 228 28 06.4	294 02 50.5 331 55 57.2 48 33 18.1	Spruce Mt. Aurora Mount Henry	11414.1 5707.0 12624.2	4.057440 3.756409 4.101204
Musquash Mountain Maine 1888	d.	45 23 20.499 67 47 49.765	228 11 35.3 229 12 42.8 312 11 12.7	48 25 35.5 49 19 22.2 132 18 02.2	Vance Mountain Tomah Mountain Neal	29377.2 11251.7 11971.3	4.468011 4.051218 4.078140
Musquash barn, S. gable New Brunswick 1890	d.	45 37 34.493 67 32 54.210	21 06 19.9 265 26 06.7 336 47 01.2	201 05 35.1 85 31 36.5 156 48 06.1	Rocky Point Mount Henry Birch Point	3774.0 10026.6 4988.6	3.576800 4.001152 3.697979
Tracy farm, westerly of 3 bldgs., W. gable; New Brunswick 1890 n.d.		45 41 32.360 67 28 49.832	17 41 00 55 58 44	197 38 23 235 50 24	Todd Spruce Mt.	15654.7 18299.7	4.194645 4.262443
Breeze Maine 1911	d.m.	45 35 15.619 67 29 34.779	42 54 16.0 134 19 10.0 185 30 42.4	222 53 57.2 314 18 56.4 5 30 44.1	Ref. Mon. 105 Musquash Heifer	832.8 577.1 561.3	2.920533 2.761235 2.749161
Ref. Mon. 108 Maine 1917; r. 1955	d.m.	45 35 33.914 67 29 13.515	38 56 42.4 89 08 17.5 97 23 10.2	218 56 36.2 269 08 04.1 277 22 56.0	White Owl Heifer Ref. Mon. 107	300.6 407.1 433.6	2.477976 2.609655 2.637104
Morrison Maine 1911; r. 1955	d.m.	45 35 56.045 67 29 00.639	22 13 02.8 27 02 18.6 44 51 47.5 139 27 33.1 236 41 32.2	202 12 53.5 207 02 03.1 224 51 24.8 319 27 13.8 56 42 20.2	Ref. Mon. 108 White Owl Heifer Pearce Indian Island R.M.	738.1 1029.6 972.6 898.6 1741.2	2.868097 3.012660 2.987937 2.953589 3.240843



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GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line St. Croix River - Spednik Lake - Third Order State Maine Province New Brunswick

STATION			LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION		DISTANCE (METERS)	LOGARITHM
Erle 1946	d.m.	45 35 53.126	199 17 49.0	19 17 57.9	Pearce	819.0	2.913304								
New Brunswick 1955		67 29 40.083	263 58 40.7	83 59 08.9	Morrison	859.6	2.934302								
Ref. Mon. 109	d.m.	45 36 02.503	23 35 32.4	203 35 28.3	Erle	315.9	2.499525								
Maine 1917; r. 1955		67 29 34.250	196 36 40.9	16 36 45.7	Pearce	504.6	2.702945								
Ref. Mon. 110	d.m.	45 36 09.214	234 44 33.7	54 44 46.6	Pearce	478.7	2.680076								
New Brunswick 1917; r. 1955		67 29 45.631	292 37 46.2	112 38 18.4	Morrison	1056.5	3.023850								
			310 01 52.0	130 02 00.1	Ref. Mon. 109	322.1	2.508056								
			346 23 23.9	166 23 27.9	Erle	511.0	2.708456								
Ref. Mon. 111	d.m.	45 35 58.745	71 14 52.4	251 14 35.6	Erle	539.5	2.732000								
Maine 1917; r. 1955		67 29 16.511	106 47 43.6	286 47 30.9	Ref. Mon. 109	401.6	2.603750								
			117 07 24.5	297 07 03.7	Ref. Mon. 110	709.1	2.850680								
			158 10 19.5	338 10 11.6	Pearce	645.9	2.810144								
			283 36 58.5	103 37 09.9	Morrison	354.0	2.548942								
Lindsay	d.m.	45 36 24.430	20 43 10.0	200 42 59.1	Morrison	936.9	2.971703								
New Brunswick 1911; r. 1955		67 28 45.345	33 01 18.7	213 00 45.1	Heifer	1867.3	3.271215								
			50 50 08.1	230 49 29.0	Erle	1530.1	3.184726								
			78 04 26.0	258 03 55.8	Pearce	935.7	2.971159								
			265 56 27.7	85 57 04.8	Indian Island R.M.	1126.6	3.051755								
Ref. Mon. 112	d.m.	45 36 25.144	7 05 27.8	187 05 24.1	Morrison	905.3	2.956799								
New Brunswick 1917; r. 1955		67 28 55.483	275 43 55.5	95 44 02.7	Lindsay	220.8	2.343981								
Ref. Mon. 113	d.m.	45 35 56.486	113 17 11.3	293 16 20.0	Pearce	1693.5	3.228773								
Maine 1917; r. 1955		67 28 15.814	135 49 40.8	315 49 12.5	Ref. Mon. 112	1233.6	3.091189								
			143 26 03.1	323 25 42.0	Lindsay	1074.2	3.031075								
			207 10 32.2	27 10 48.2	Indian Island R.M.	1059.3	3.025024								
Draper	d.m.	45 36 03.583	79 31 01.3	259 30 19.9	Morrison	1278.4	3.106677								
Maine 1946; 1955		67 28 02.637	124 49 06.5	304 48 36.0	Lindsay	1127.3	3.052046								
			195 19 46.6	15 19 53.2	Indian Island R.M.	749.9	2.875021								
Indian Island (U.S.C.&G.S.)	d.m.	45 36 27.047	73 31 38.2	253 31 38.1	Indian Island R.M.	4.07	0.609335								
New Brunswick 1888; r. 1955		67 27 53.308													
Haley Point	d.m.	45 36 05.032	81 59 20.6	261 59 10.1	Draper	320.8	2.506295								
Maine 1946; 1955		67 27 47.978	170 01 06.4	350 01 02.5	Indian Island R.M.	689.0	2.838190								
Betula	d.m.	45 35 59.980	104 17 17.9	284 16 57.7	Haley Point	632.0	2.800734								
Maine 1911; r. 1955		67 27 19.717	112 08 36.3	292 07 35.1	Lindsay	2003.3	3.301756								
			138 45 04.4	318 44 40.3	Indian Island R.M.	1110.0	3.045304								
			278 54 30.3	98 56 14.4	Howland 1917	3195.3	3.504515								
Ref. Mon. 114	d.m.	45 36 31.374	23 33 03.3	203 32 51.6	Haley Point	887.1	2.947997								
New Brunswick 1917; r. 1955		67 27 31.622	345 05 36.7	165 05 45.2	Betula	1003.0	3.001287								
Ref. Mon. 115	d.m.	45 36 00.092	278 00 04.8	98 00 05.6	Betula	24.78	1.394160								
Maine 1917; r. 1955		67 27 20.849													
Ref. Mon. 115-A	d.m.	45 36 00.029	247 20 10	67 20 10	Ref. Mon. 115	5.02	0.700446								
Maine 1918; r. 1955		67 27 21.063													



## INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA

GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

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International boundary line St. Croix River - Spednik Lake - Third OrderState MaineProvince New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
King	d.m.	45 36 24.181	12 43 22.6	192 43 17.0	Betula	766.0	2.884210
New Brunswick 1946; 1955		67 27 11.933	52 52 57.8	232 52 32.0	Haley Point	979.6	2.991064
			117 29 53.1	297 29 39.0	Ref. Mon. 114	481.0	2.682118
Ref. Mon. 116	d.m.	45 36 16.604	56 01 28.4	236 01 03.3	Betula	918.3	2.962992
New Brunswick 1917; r. 1955		67 26 44.579	102 08 50.8	282 08 01.6	Indian Island R.M.	1527.5	3.183971
			114 06 12.4	294 05 38.8	Ref. Mon. 114	1116.8	3.047959
Flat Top	d.m.	45 35 56.639	99 10 46.8	279 10 25.7	Betula	646.8	2.810782
New Brunswick 1911; r. 1955		67 26 50.255	151 04 50.7	331 04 35.2	King	971.5	2.987431
Big Top	d.m.	45 35 48.740	155 05 29.6	335 05 24.3	Betula	382.6	2.582731
Maine 1946; 1955		67 27 12.282	180 23 44.9	0 23 45.2	King	1094.2	3.039091
			242 56 30.8	62 56 46.6	Flat Top	536.1	2.729232
La Coute	d.m.	45 35 42.923	125 53 13.1	305 52 49.1	Betula	898.4	2.953471
Maine 1946; 1955		67 26 46.133	133 00 11.3	312 59 23.2	Indian Island R.M.	1995.8	3.300126
			168 05 14.2	348 05 11.3	Flat Top	432.8	2.636244
			269 15 29.2	89 16 49.3	Howland 1917	2429.1	3.385439
O'Malley	d.m.	45 35 45.313	72 29 42.3	252 29 34.6	La Coute	245.3	2.389703
New Brunswick 1911; r. 1955		67 26 35.339	115 12 51.3	295 12 19.8	Betula	1063.1	3.026564
			137 14 47.3	317 14 36.9	Flat Top	476.2	2.677778
Ref. Mon. 117	d.m.	45 35 43.405	294 33 49.0	114 33 50.1	La Coute	35.76	1.553381
Maine 1911; r. 1955		67 26 47.633					
Ref. Mon. 118	d.m.	45 35 45.235	98 25 58.6	278 25 58.1	O'Malley	16.49	1.217213
New Brunswick 1917; r. 1955		67 26 34.586					
Tar	d.m.	45 35 25.904	152 51 14.2	332 51 05.3	La Coute	590.5	2.771201
Maine 1946; 1955		67 26 33.703	176 36 45.9	356 36 44.7	O'Malley	600.3	2.778342
			255 32 31.7	75 33 42.9	Howland 1917	2230.1	3.348319
Maxwell	d.m.	45 35 23.059	98 37 45.9	278 37 26.8	Tar	585.6	2.767577
New Brunswick 1946; 1955		67 26 06.995	125 52 00.3	305 51 32.3	La Coute	1046.8	3.019860
			138 11 54.9	318 11 34.6	O'Malley	921.7	2.964582
Ref. Mon. 119	d.m.	45 35 10.321	141 54 09.5	321 53 59.3	Maxwell	499.7	2.698750
New Brunswick 1917; r. 1955		67 25 52.770					
Ref. Mon. 119-A	d.m.	45 35 10.746	66 14 13	246 14 12	Ref. Mon. 119	32.58	1.513002
New Brunswick 1918; r. 1955		67 25 51.394					
Ref. Mon. 120	d.m.	45 34 56.437	136 40 21.0	316 39 52.7	Tar	1250.7	3.097153
Maine 1911; r. 1955		67 25 54.112	141 50 51.2	321 50 14.0	La Coute	1825.2	3.261310
			161 14 04.0	341 13 54.8	Maxwell	868.1	2.938556
			183 52 56.4	3 52 57.4	Ref. Mon. 119	429.6	2.633098
			221 35 20.9	41 36 03.8	Howland 1917	1960.5	3.292364



International boundary line St. Croix River - Slednik Lake - Third Order

State Maine

Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Casey	d.m.	45 35 03.653	34 15 25.2	214 15 20.2	Ref. Mon. 120	269.5	2.430632
New Brunswick 1911; r. 1955		67 25 47.113	124 13 41.2	304 13 07.9	Tar	1221.4	3.086874
			144 16 21.9	324 16 07.7	Maxwell	738.0	2.868083
			149 13 05.7	329 13 01.7	Ref. Mon. 119	239.6	2.379519
Howland ecc.	d.m.	45 35 39.449	79 31 23.2	259 30 08.7	Tar	2297.4	3.361242
New Brunswick 1946		67 24 49.482	144 15 39.7	324 15 36.4	Howland 1917	170.31	2.231233
Lacey	d.m.	45 34 45.105	127 53 33.1	307 53 18.3	Ref. Mon. 120	569.7	2.755612
New Brunswick 1911; r. 1955		67 25 33.376	152 31 22.4	332 31 12.6	Casey	645.5	2.809870
Ref. Mon. 122	d.m.	45 34 45.524	65 56 37.8	245 56 36.8	Lacey	31.73	1.501467
New Brunswick 1917; r. 1955		67 25 32.040					
McGrath	d.m.	45 34 43.498	140 26 50.2	320 26 39.3	Ref. Mon. 120	518.1	2.714423
Maine 1911; r. 1955		67 25 38.894	164 01 13.5	344 01 07.6	Casey	647.3	2.811089
			247 28 20.9	67 28 24.8	Lacey	129.5	2.112315
Ref. Mon. 121	d.m.	45 34 42.276	184 15 53.9	4 15 54.0	McGrath	37.8	1.577752
Maine 1917; r. 1955		67 25 39.024	234 30 00.2	54 30 04.2	Lacey	150.4	2.177250
Pierrot	d.m.	45 34 39.045	141 54 34.4	321 54 20.5	Ref. Mon. 120	682.2	2.833929
Maine 1946		67 25 34.699	188 43 02.9	8 43 03.8	Lacey	189.3	2.277047
			203 43 48.0	23 44 17.0	Howland 1917	2188.1	3.340077
Varney	d.m.	45 34 40.607	73 44 55.6	253 44 50.1	Pierrot	172.4	2.236424
New Brunswick 1946; 1955		67 25 27.067	101 14 12.8	281 14 04.2	Ref. Mon. 121	264.3	2.422148
			135 25 38.0	315 25 33.4	Lacey	194.9	2.289798
Sept	d.m.	45 34 42.706	330 17 03.2	150 17 04.4	Varney	74.62	1.872827
New Brunswick 1911; r. 1955		67 25 28.773					
New Pier	d.m.	45 34 34.426	172 19 54.8	352 19 53.3	Lacey	332.6	2.521968
New Brunswick 1946; 1955		67 25 31.329	205 50 08.1	25 50 11.2	Varney	212.0	2.326377
Ref. Mon. 123	d.m.	45 34 26.022	177 22 39.1	357 22 38.2	Lacey	589.8	2.770672
Maine 1917; r. 1955		67 25 32.132	183 50 12.6	3 50 13.2	New Pier	260.1	2.415072
Ref. Mon. 124 ecc.	d.	45 34 25.079	103 09 10.5	283 09 06.4	Ref. Mon. 123	127.9	2.106964
New Brunswick 1946		67 25 26.387	159 37 40.3	339 37 36.8	New Pier	307.8	2.488326
Ref. Mon. 124	d.m.	45 34 25.071	90 59 58.1	270 59 57.7	Ref. Mon. 124 ecc.	13.04	1.115211
New Brunswick 1917; r. 1955		67 25 25.786					
Bogan	d.m.	45 34 19.800	148 55 20.8	328 55 09.0	Pierrot	693.7	2.841185
New Brunswick 1946; 1955		67 25 18.183	163 18 28.1	343 18 21.8	Varney	670.6	2.826489
			191 22 35.4	11 22 52.6	Howland 1917	2649.3	3.423131
Domino	d.	45 34 21.739	185 35 24.9	5 35 26.8	Varney	585.3	2.767383
Maine 1946		67 25 29.697	283 28 48.8	103 28 57.0	Bogan	256.7	2.409499



INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA  
GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

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International boundary line St. Croix River - Spednik Lake - Third Order

State Maine

Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Black Chimney 1946 Maine 1955	d.	45 34 14.860 67 25 36.585	195 39 15.1 215 01 39.4 215 06 58.0 249 04 44.9	15 39 18.3 35 01 46.7 35 07 03.0 69 04 58.1	Ref. Mon. 123 Ref. Mon. 124 ecc. Domino Bogan	357.9 385.3 259.6 427.2	2.553730 2.585773 2.414372 2.630619
Brown 2 New Brunswick 1946; 1955	d.m.	45 34 18.925 67 25 19.962	70 48 18.7 129 42 12.6 160 12 33.3 167 02 21.2 234 58 51.4	250 48 06.8 309 42 03.9 340 12 23.7 347 02 16.2 54 58 52.7	Black chimney Ref. Mon. 123 Lacey Varney Bogan	381.7 343.0 859.0 686.9 47.10	2.581703 2.535274 2.933982 2.836896 1.672987
Pile New Brunswick 1946; 1955	d.m.	45 34 12.442 67 25 27.384	110 30 52.0 170 05 19.0 221 17 26.1	290 30 45.4 350 05 17.4 41 17 32.7	Black chimney Domino Bogan	213.0 291.4 302.4	2.328428 2.464459 2.480514
Ref. Mon. 125 Maine 1917; r. 1955	d.m.	45 34 11.098 67 25 43.973	234 03 31.1 263 25 03.8	54 03 36.4 83 25 15.7	Black Chimney Pile	197.9 362.1	2.296417 2.558851
Ref. Mon. 126 New Brunswick 1917; r. 1955	d.m.	45 34 06.683 67 25 38.460	138 44 47.3 189 09 07.4 226 42 12.1	318 44 43.3 9 09 08.7 46 42 25.3	Ref. Mon. 125 Black chimney Brown 2	181.3 255.7 551.1	2.258385 2.407731 2.741262
Cemetery 2 New Brunswick 1946; 1955	d.m.	45 34 02.578 67 25 24.237	144 46 15.5 190 24 27.6	324 46 06.7 10 24 30.7	Black chimney Brown 2	464.2 513.1	2.666698 2.710214
St. Croix New Brunswick 1917; r. 1955	d.m.	45 33 58.680 67 25 26.468	192 11 37.9 302 30 22.4	12 12 01.0 122 33 34.4	Howland 1917 Brandy Hill	3324.3 6920.9	3.521702 3.840164
Vanceboro schoolhouse 1946 chimney Maine 1955	d.	45 33 56.411 67 25 54.892	201 39 33.0 207 34 15.6 227 47 02.0 230 18 51.4 263 30 46.6	21 40 16.4 27 34 23.3 47 47 28.2 50 19 11.0 83 31 06.9	Howland 1917 Ref. Mon. 125 Bogan Pile St. Croix (comp.)	3571.6 511.5 1074.8 775.1 620.4	3.552868 2.708875 3.031310 2.889363 2.792649
Hutchins House Chimney Maine 1924; r. 1946; 1955	d.	45 34 16.695 67 25 36.727	6 55 52 42 16 43	186 55 51 222 16 38	Ref. Mon. 126 Ref. Mon. 125	311.4 233.6	2.493282 2.368383



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International boundary line St. Croix River - Vanceboro to Woodland - Minor Scheme State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Vanceboro school flag pole Maine 1917	1.	45 33 56.702 67 25 54.780	201 40 33.9 264 18 57.5 299 33 08.3 0 35 17.3	21 41 17.2 84 19 17.7 119 36 40.5 180 35 15.4	Howland 1917 St. Croix Brandy Hill Elbow Rip	3562.4 617.0 7415.7 5442.9	3.551742 2.790281 3.870152 3.735832
McAdam Junction water tower (U.S.C.&G.S.)New Brunswick 1888	d.	45 35 40.293 67 19 34.369	14 43 55 120 30 51	194 42 55 300 26 49	Brandy Hill Mount Henry	7091.9 8508.1	3.850762 3.929832
Vanceboro U.S.Customs house flag- staff (U.S.C.&G.S.)Maine 1888; r. 1935		45 33 41.371 67 26 00.439	93 14 58 187 21 56	273 11 24 7 22 30	Vance Mountain Mount Henry	6495.9 8053.7	3.812637 3.905996
Howland 1890(U.S.C.&G.S.) d.m. New Brunswick 1890; r. 1908		45 35 43.761 67 24 55.601	66 38 17 174 57 00	246 33 57 354 56 48	Vance Mountain Mount Henry	8596.2 4225.0	3.934309 3.625828
Ref. Mon. 127 ecc. New Brunswick 1946	n.d.	45 33 53.772 67 25 39.705	103 53 41.9	283 53 31.1	Vanceboro Schoolhouse chimney	339.3	2.530549
Ref. Mon. 127 New Brunswick 1917; r. 1955	d.m.	45 33 54.119 67 25 39.456	26 40 11.8	206 40 11.6	Ref. Mon. 127 ecc.	12.01	1.079402
Shed New Brunswick 1946	d.	45 33 51.596 67 25 36.975	110 56 13.0 138 36 47.3	290 56 00.2 318 36 45.3	Vanceboro schoolhouse chimney Ref.Mon. 127 ecc.	416.0 89.5	2.619106 1.952034
Ref. Mon. 129 Maine 1917; r. 1955	d.m.	45 33 54.651 67 25 48.588	274 44 15.6 278 01 10.5 290 31 53.6	94 44 22.1 98 01 16.8 110 32 01.9	Ref.Mon. 127 (comp.) Ref.Mon. 127 ecc. Shed	198.7 194.5 268.9	2.298214 2.289014 2.429641
Ref. Mon. 130 Maine 1917; r. 1955	d.m.	45 33 46.430 67 25 40.690	135 00 54.4 185 22 54.8 206 47 47.6 219 11 43.0	315 00 44.3 5 22 55.5 26 47 50.3 39 11 53.2	Vanceboro schoolhouse Ref.Mon. 127 ecc. Shed St. Croix	435.7 227.7 178.7 488.0	2.639166 2.357331 2.252096 2.688434
Ref. Mon. 128 New Brunswick 1917	1.	45 33 48.712 67 25 34.083	63 49 15.2 208 12 55.7	243 49 10.5 28 13 01.2	Ref. Mon. 130 St. Croix	159.7 349.3	2.203224 2.543150
Tan (=Ref.Mon.128-sub) New Brunswick 1946	d.m.	45 33 49.775 67 25 39.066	18 49 47.7 120 50 12.8	198 49 46.5 300 50 01.5	Ref.Mon. 130 Vanceboro schlhse.chy.	109.1 399.7	2.037841 2.601744
Wharf New Brunswick 1946	d.	45 33 46.298 67 25 34.988	131 09 59.1 165 14 20.4	311 09 49.4 345 14 19.0	Ref. Mon. 129 Shed	391.8 169.1	2.593054 2.228260
Boro Maine 1946	d.	45 33 41.983 67 25 39.983	144 01 35.8 184 43 41.1 192 23 51.5 219 07 10.8	324 01 25.2 4 43 41.8 12 23 53.7 39 07 14.4	Vanceboro schlhse.chy. Tan Shed Wharf	550.4 241.4 303.9 171.7	2.740676 2.382672 2.482678 2.234787
Dunk New Brunswick 1921	n.d.	45 33 56.970 67 25 42.622	61 02 40 322 02 45	241 02 36 142 02 47	Ref.Mon. 129 Ref.Mon. 127	147.9 111.6	2.169878 2.047700
West Abutment Maine 1911	1.	45 33 49.807 67 25 41.961	345 11 18	165 11 19	Ref.Mon. 130	107.8	2.032807



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International boundary line St. Croix River - Vanceboro to Woodland - Minor Scheme State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
East Abutment New Brunswick 1911	l.	45 33 50.502 67 25 39.970	7 05 11 63 35 36	187 05 11 243 35 35	Ref. Mon. 130 West Abutment	126.7 48.2	2.102710 1.683318
Tab New Brunswick 1921	n.d.	45 33 48.433 67 25 34.890	63 49 15 105 27 53 120 06 30 243 49 15	243 49 11 285 27 48 300 06 26 63 49 15	Ref. Mon. 130 West Abutment East Abutment Ref. Mon. 128	140.2 159.1 127.3 19.51	2.146633 2.201706 2.104946 1.290196
Bar Maine 1921	n.d.	45 33 36.050 67 25 33.496	154 02 31 175 28 46	334 02 26 355 28 45	Ref. Mon. 130 Tab	356.4 383.5	2.551968 2.583759
Ted New Brunswick 1917	n.d.	45 33 52.332 67 25 19.813	100 05 27.4 143 37 54.0	280 05 02.4 323 37 49.2	Vanceboro school flag pole 1917 St. Croix	770.2 243.4	2.886607 2.386303
T.S. A-16 Maine 1917	n.d.	45 33 32.746 67 25 41.112	158 09 36.2 201 38 01.7 217 22 26.9	338 09 26.4 21 38 12.1 37 22 42.1	Vanceboro school flag pole 1917 St. Croix Ted	796.8 861.3 760.9	2.901334 2.935174 2.881339
T.S. A-16a Maine 1917	n.d.	45 33 41.029 67 25 43.906	236 15 38.0 346 40 06.1	56 15 55.2 166 40 08.1	Ted T.S. A-16	628.3 262.8	2.798175 2.419637
T.S. A-15 Maine 1917	n.d.	45 33 11.651 67 25 39.393	176 43 27.9 190 55 33.9	356 43 26.7 10 55 43.1	T.S. A-16 St. Croix	652.3 1478.7	2.814470 3.169891
T.S. A-14 Maine 1917	n.d.	45 33 07.245 67 25 43.655	214 11 46	34 11 49	T.S. A-15	164.47	2.216077
T.S. A-13 Maine 1917	n.d.	45 32 58.669 67 25 49.192	204 24 03	24 24 07	T.S. A-14	290.73	2.463490
T.S. A-12 Maine 1917	n.d.	45 32 54.342 67 25 52.962	211 28 20	31 28 23	T.S. A-13	156.63	2.194877
T.S. A-11 Maine 1917	n.d.	45 32 48.034 67 25 58.507	211 42 13	31 42 17	T.S. A-12	228.88	2.359617
T.S. A-10 Maine 1917	n.d.	45 32 41.125 67 26 00.217	189 51 51	9 51 52	T.S. A-11	216.48	2.335423
T.S. A-9 Maine 1917	n.d.	45 32 35.748 67 26 06.027	217 12 39	37 12 43	T.S. A-10	208.41	2.318921
T.S. A-8 Maine 1917	n.d.	45 32 31.880 67 26 11.534	225 00 53	45 00 57	T.S. A-9	168.91	2.227667
T.S. A-7 Maine 1917	n.d.	45 32 23.215 67 26 14.107	191 47 15	11 47 17	T.S. A-8	273.28	2.436609
T.S. A-6 Maine 1917	n.d.	45 32 18.405 67 26 14.779	185 36 33	5 36 33	T.S. A-7	149.19	2.173745



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International boundary line St. Croix River - Vanceboro to Woodland - Minor Scheme State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.S. A-5 Maine 1917	n.d.	45 32 11.405 67 26 14.308	177 17 32	357 17 32	T.S. A-6	216.36	2.335168
T.S. A-4 Maine 1917	n.d.	45 32 00.840 67 26 16.415	187 58 34	7 58 35	T.S. A-5	329.37	2.517680
T.S. A-3 Maine 1917	n.d.	45 31 50.732 67 26 18.539	188 24 03	8 24 05	T.S. A-4	315.43	2.498903
Goodine Maine 1917	n.d.	45 31 52.561 67 26 10.461	72 09 02 153 11 04	252 08 56 333 11 00	T.S. A-3 T.S. A-4	184.2 286.4	2.265185 2.456967
Ref. Mon. 136 ecc. Maine 1917; r. 1921	n.d.	45 31 46.079 67 26 09.952	176 50 20	356 50 20	Goodine	200.41	2.301918
New Goodine Maine 1921	n.d.	45 31 52.870 67 26 10.497	356 46 13	176 46 13	Ref. Mon. 136 ecc.	209.98	2.322172
Ref. Mon. 136 Maine 1917; r. 1946	d.m.	45 31 46.037 67 26 09.683	102 23 15	282 23 15	Ref. Mon. 136 ecc.	5.98	0.776936
Ref. Mon. 135 New Brunswick 1917; r. 1946	d.m.	45 31 45.101 67 26 07.183	116 41 15 118 03 55 162 50 14	296 41 13 298 03 53 342 50 12	Ref. Mon. 136 ecc. Ref. Mon. 136 Goodine	67.2 61.5 241.0	1.827634 1.788599 2.382085
T.S. A-2 Maine 1917	n.d.	45 31 40.950 67 26 19.605	184 22 44	4 22 45	T.S. A-3	302.88	2.481267
North=T.S. A-1 Maine 1917	n.d.	45 31 23.072 67 26 22.885	187 20 50	7 20 52	T.S. A-2	556.52	2.745482
Field Maine 1917	n.d.	45 31 17.605 67 26 18.028	148 00 52	328 00 49	North=T.S. A-1	199.0	2.298850
Flag Maine 1917	n.d.	45 31 09.187 67 26 06.992	137 20 06	317 19 58	Field	353.4	2.548299
Tree Maine 1917	n.d.	45 31 09.403 67 26 25.052	211 02 44 270 58 15	31 02 49 90 58 28	Field Flag	295.6 392.0	2.470654 2.593310
Camp Maine 1917	n.d.	45 31 05.458 67 26 03.269	104 26 51 139 29 54 144 56 21 320 31 51	284 26 35 319 29 43 324 56 18 140 31 55	Tree Field Flag Elbow Rip	488.2 493.2 140.7 202.0	2.688598 2.693017 2.148145 2.305270
Can New Brunswick 1917	n.d.	45 31 09.841 67 25 57.414	43 12 02 84 27 06 359 44 42	223 11 58 264 26 59 179 44 42	Camp Flag Elbow Rip	185.6 208.9 291.2	2.268670 2.319841 2.464247
Ref. Mon. 136-A (=Holbrook) Maine 1910; r. 1946	d.m.	45 31 09.988 67 26 00.179	274 19 29 348 17 21	94 19 31 168 17 23	Can Elbow Rip	60.2 302.1	1.779469 2.480094
Ref. Mon. 135-A (=Wood) New Brunswick 1910; r. 1946	d.m.	45 31 11.285 67 25 58.043	49 10 27 342 58 41	229 10 25 162 58 41	Holbrook=Ref. Mon. 136-A Can	61.26 46.63	1.787212 1.668707



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International boundary line St. Croix River - Vanceboro to Woodland - Minor Scheme State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Hornet Maine 1921	d.m.	45 31 18.474 67 25 58.795	6 32 21 355 47 31	186 32 20 175 47 32	Ref. Mon. 136-A=Holbrook Ref. Mon. 135-A=Wood	263.7 222.5	2.421103 2.347383
Found Maine 1921	d.m.	45 31 20.339 67 25 57.421	10 36 27 27 22 32	190 36 25 207 22 31	Ref. Mon. 136-A=Holbrook Hornet	325.1 64.8	2.512039 1.811859
Pole New Brunswick 1921	d.m.	45 31 19.254 67 25 56.609	63 04 23 152 14 13	243 04 21 332 14 12	Hornet Found	53.2 37.8	1.726005 1.577947
Black New Brunswick 1921	d.m.	45 31 25.940 67 25 55.712	5 23 23 12 06 33	185 23 23 192 06 32	Pole Found	207.3 176.9	2.316643 2.247619
Crib New Brunswick 1921	n.d.	45 30 59.154 67 25 32.079	23 07 26 245 43 18	203 07 23 65 43 20	Ref. Mon. 138 Yard	255.0 61.1	2.406572 1.785690
Case New Brunswick 1921	n.d.	45 31 07.217 67 25 40.274	324 27 04 350 51 57	144 27 10 170 52 00	Crib Ref. Mon. 138	305.9 489.7	2.485648 2.689902
Tower Maine 1917	n.d.	45 31 02.665 67 25 55.172	34 12 02 116 08 23 167 37 00	214 12 01 296 08 18 347 36 59	Elbow Rip Camp Can	84.2 195.7 226.8	1.925517 2.291696 2.355719
Base Maine 1917	n.d.	45 30 58.037 67 25 52.497	124 46 16 157 52 51	304 46 13 337 52 49	Elbow Rip Tower	128.33 154.2	2.108332 2.188109
Yard New Brunswick 1917; r. 1921	n.d.	45 30 59.968 67 25 29.515	83 11 28 91 17 34 98 30 29	263 11 12 271 17 15 278 30 11	Base Elbow Rip Tower	502.4 604.4 563.1	2.701017 2.781313 2.750562
Wall Maine 1917	n.d.	45 30 50.479 67 25 42.255	136 23 15 223 20 53	316 23 08 43 21 02	Base Yard	322.3 402.8	2.508251 2.605109
Ref. Mon. 137 New Brunswick 1917; r. 1946	d.m.	45 30 51.856 67 25 29.285	81 24 49 110 44 50	261 24 40 290 44 34	Wall Base	284.7 538.8	2.454395 2.731388
Ref. Mon. 138 Maine 1917; r. 1946	d.m.	45 30 51.557 67 25 36.693	74 34 58 120 15 09 121 21 16 210 58 00 266 43 00	254 34 54 300 14 58 301 21 02 30 58 05 86 43 05	Wall Base Elbow Rip Yard (comp.) Ref. Mon. 137	125.2 397.1 526.0 302.8 161.1	2.097669 2.598898 2.721021 2.481145 2.206999
Point Maine 1917	n.d.	45 30 41.899 67 25 24.850	125 02 26 129 00 33 169 42 42	305 02 14 309 00 11 349 42 39	Wall Elbow Rip Yard	461.4 907.9 567.0	2.664091 2.958043 2.753546
Log Maine 1917	n.d.	45 30 39.575 67 25 27.934	137 17 00 223 01 09	317 16 50 43 01 11	Wall Point	458.2 98.1	2.661070 1.991762
Rock Maine 1917	n.d.	45 30 37.063 67 25 25.920	150 36 04 188 50 32	330 36 03 8 50 33	Log Point	89.1 151.1	1.949638 2.179315
T.S. N-1 Maine 1917	n.d.	45 33 27.174 67 25 36.211	8 11 46.0 148 17 20.5	188 11 43.7 328 17 17.0	T.S. A-15 T.S. A-16	484.2 202.2	2.685012 2.305819



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International boundary line St. Croix River - Vanceboro to Woodland - Minor Scheme State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.S. N-2 Maine 1917	n.d.	45 33 17.969 67 25 27.849	147 27 17	327 27 11	T.S. N-1	337.12	2.527781
Ref. Mon. 131 New Brunswick 1917; r. 1946	d.m.	45 33 16.468 67 25 21.395	55 34 55 108 18 07 135 48 14	235 34 49 288 18 03 315 48 04	T.S. N-3 T.S. N-2 T.S. N-1	227.2 147.4 461.0	2.356427 2.168625 2.663655
Ref. Mon. 132 Maine 1917; r. 1946	d.m.	45 33 24.054 67 25 26.638	11 29 24 334 05 57	191 29 22 154 06 01	T.S. N-3 Ref. Mon. 131	370.0 260.3	2.568242 2.415543
T.S. N-3 Maine 1917; r. 1921	n.d.	45 33 12.308 67 25 30.036	195 11 28	15 11 30	T.S. N-2	181.05	2.257808
T.S. N-4 Maine 1917	n.d.	45 33 08.706 67 25 32.821	208 30 56	28 30 58	T.S. N-3	126.56	2.102295
T.S. N-5 Maine 1917	n.d.	45 33 02.354 67 25 30.345	164 40 51	344 40 49	T.S. N-4	203.33	2.308191
T.S. N-6 Maine 1917; r. 1921	n.d.	45 32 57.914 67 25 28.526	163 56 50	343 56 49	T.S. N-5	142.65	2.154272
T.S. N-7 Maine 1917; r. 1921	n.d.	45 32 57.081 67 25 23.471	103 12 29	283 12 25	T.S. N-6	112.64	2.051683
T.S. N-7a Maine 1921	n.d.	45 32 56.644 67 25 20.929	103 43 59	283 43 57	T.S. N-7	56.78	1.754159
T.S. N-8 Maine 1917; r. 1921	n.d.	45 32 52.257 67 25 25.003	192 34 48	12 34 49	T.S. N-7	152.58	2.183498
T.S. N-9 Maine 1917; r. 1921	n.d.	45 32 43.612 67 25 29.370	199 32 29	19 32 32	T.S. N-8	283.2	2.452099
T.S. N-9a Maine 1917; r. 1921	n.d.	45 32 46.203 67 25 31.295	216 08 30 332 25 31	36 08 34 152 25 32	T.S. N-8 T.S. N-9	231.4 90.24	2.364439 1.955399
T.S. N-10 Maine 1917	n.d.	45 32 40.572 67 25 32.035	211 37 43	31 37 45	T.S. N-9	110.24	2.042334
T.S. N-11 Maine 1917	n.d.	45 32 34.853 67 25 37.004	211 24 21	31 24 25	T.S. N-10	206.87	2.315691
T.S. N-12 Maine 1917	n.d.	45 32 33.021 67 25 36.639	172 01 28	352 01 28	T.S. N-11	57.13	1.756830
T.S. N-13 Maine 1917; r. 1921	n.d.	45 32 30.087 67 25 36.077	172 19 56	352 19 56	T.S. N-12	91.39	1.960914
T.S. N-13a Maine 1921	n.d.	45 32 29.635 67 25 34.722	115 23 54	295 23 53	T.S. N-13	32.55	1.512506
T.S. N-14 Maine 1917; r. 1921	n.d.	45 32 26.239 67 25 35.345	172 23 09	352 23 08	T.S. N-13	119.87	2.078716



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International boundary line St. Croix River - Vanceboro to Woodland - Minor Scheme State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T. S. N-15 Maine 1917; r. 1921	n.d.	45 32 26.411 67 25 39.184	273 38 40	93 38 43	T.S. N-14	83.46	1.921460
T. S. N-16 Maine 1917; r. 1921	n.d.	45 32 24.748 67 25 43.692	242 18 04	62 18 07	T.S. N-15	110.46	2.043215
Ref.Mon.134=T.S. N-17 Maine 1917; r. 1946	d.m.	45 32 26.922 67 25 49.415	298 23 48	118 23 52	T.S. N-16	141.16	2.149698
Ref.Mon.134-A Maine 1921	n.d.	45 32 26.125 67 25 49.849	200 56 53	20 56 53	Ref.Mon. 134	26.33	1.420530
T.S. N-18 Maine 1917; r. 1921	d.m.	45 32 28.725 67 25 58.538	285 42 37	105 42 44	Ref.Mon.134=T.S.N-17	205.6	2.313066
T.S. N-18a Maine 1921	n.d.	45 32 21.439 67 26 01.429	195 34 50 237 00 05	15 34 52 57 00 14	T.S.N-18 Ref.Mon. 134	233.5 310.8	2.368323 2.492475
T.S. N-18b New Brunswick 1921	n.d.	45 32 21.560 67 25 58.813	86 14 52 181 32 52	266 14 50 1 32 52	T.S. N-18a T.S. N-18	56.9 221.3	1.754871 2.344976
T.S. N-18c New Brunswick 1921	n.d.	45 32 16.299 67 26 01.153	177 50 20 197 21 20	357 50 20 17 21 22	T.S. N-18a T.S. N-18b	158.8 170.2	2.200855 2.230851
T.S. N-18d Maine 1921	n.d.	45 32 11.526 67 26 05.606	205 26 32 213 15 02	25 26 37 33 15 05	T.S. N-18b T.S. N-18c	343.0 176.2	2.535335 2.246008
Ref.Mon. 133 New Brunswick 1917; r. 1946	d.m.	45 32 25.022 67 25 50.450	123 05 07 200 56 52	303 05 01 20 56 53	T.S. N-18 Ref.Mon.134=T.S.N-17	209.4 62.8	2.321069 1.797970
T.S. N-19 Maine 1917	n.d.	45 32 31.716 67 25 55.336	36 57 25	216 57 23	T.S. N-18	115.53	2.062698
T.S. N-20 Maine 1917	n.d.	45 32 34.000 67 25 54.413	15 51 41 28 47 36 333 36 23 342 45 49	195 51 40 208 47 33 153 36 27 162 45 52	T.S. N-19 T.S. N-18 Ref.Mon.134=T.S.N-17 Ref.Mon. 133	73.31 185.8 243.9 290.2	1.865162 2.269070 2.387293 2.462699
T.S. N-21 Maine 1917	n.d.	45 32 35.621 67 25 54.919	145 55 24 347 38 19	325 55 20 167 38 19	T.S. A-10 T.S. N-20	205.14 51.23	2.312053 1.709548
West=T.S. B-1 Maine 1917	n.d.	45 31 20.360 67 26 25.032	209 05 25 299 13 37	29 05 27 119 13 42	North=T.S. A-1 Field	95.83 174.18	1.981485 2.240994
T.S. B-2 Maine 1917	n.d.	45 31 17.653 67 26 30.353	234 06 40	54 06 44	West=T.S. B-1	142.54	2.153946
T.S. B-3 Maine 1917	n.d.	45 31 15.896 67 26 33.381	230 27 34	50 27 36	T.S. B-2	85.21	1.930513
T.S. B-4 Maine 1917	n.d.	45 31 14.659 67 26 40.244	255 37 14	75 37 19	T.S. B-3	153.77	2.186872



INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA  
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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.S. B-5 Maine 1917	n.d.	45 31 11.356 67 26 45.401	227 39 52	47 39 56	T.S. B-4	151.42	2.180173
T.S. B-6 Maine 1917	n.d.	45 31 08.423 67 26 49.259	222 45 58	42 46 01	T.S. B-5	123.33	2.091074
T.S. B-7 Maine 1917	n.d.	45 31 04.331 67 26 54.663	222 52 05	42 52 09	T.S. B-6	172.39	2.236502
T.S. B-8 Maine 1917	n.d.	45 31 02.369 67 26 56.939	219 11 57	39 11 58	T.S. B-7	78.16	1.892960
T.S. B-9 Maine	n.d.	45 30 59.607 67 27 00.906	225 16 31	45 16 34	T.S. B-8	121.18	2.083446
T.S. B-10 Maine 1917	n.d.	45 30 53.831 67 27 03.966	200 25 42	20 25 44	T.S. B-9	190.30	2.279432
T.S. B-11 Maine 1917	n.d.	45 30 48.153 67 27 08.952	211 41 27	31 41 31	T.S. B-10	206.02	2.313900
T.S. B-12 Maine 1917	n.d.	45 30 43.466 67 27 11.013	197 10 35	17 10 36	T.S. B-11	151.46	2.180284
T.S. B-13 Maine 1917	n.d.	45 30 39.864 67 27 12.428	195 26 31	15 26 32	T.S. B-12	115.36	2.062039
T.S. B-14 Maine 1917	n.d.	45 30 34.317 67 27 15.927	203 54 57	23 54 59	T.S. B-13	187.34	2.272628
Ref. Mon. 142 ecc. Maine 1917	n.d.	45 30 34.581 67 27 10.337	86 09 38 164 26 54	266 09 34 344 26 52	T.S. B-14 T.S. B-13	121.6 169.3	2.084988 2.228678
Ref. Mon. 141 New Brunswick 1910; r. 1946	d.m.	45 30 33.410 67 27 10.764	104 01 53 194 23 42	284 01 49 14 23 42	T.S. B-14 Ref. Mon. 142 ecc.	115.5 37.3	2.062622 1.571955
Ref. Mon. 142 Maine 1910; r. 1946	d.m.	45 30 34.224 67 27 11.202	91 36 10 239 37 17 339 16 42	271 36 06 59 37 17 159 16 42	T.S. B-14 Ref. Mon. 142 ecc. Ref. Mon. 141 (comp.)	102.6 21.8 26.9	2.011126 1.338004 1.429347
T.S. B-15 Maine 1917; r. 1921	n.d.	45 30 31.846 67 27 19.473	225 15 19	45 15 22	T.S. B-14	108.37	2.034921
T.S. B-16 Maine 1917	n.d.	45 30 32.385 67 27 23.571	280 35 11	100 35 14	T.S. B-15	90.51	1.956675
T.S. B-17 Maine 1917	n.d.	45 30 30.438 67 27 30.996	249 32 57	69 33 02	T.S. B-16	172.01	2.235557
T.S. B-18 Maine 1917	n.d.	45 30 28.930 67 27 35.840	246 06 46	66 06 50	T.S. B-17	115.00	2.060689
T.S. B-19 Maine 1917	n.d.	45 30 30.114 67 27 43.567	282 17 26	102 17 31	T.S. B-18	171.67	2.234686

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International boundary line St. Croix River - Vanceboro to Woodland - Minor Scheme State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.S. B-19a Maine 1917; r. 1921	n.d.	45 30 28.221 67 27 44.211	193 27 06	13 27 06	T.S. B-19	60.08	1.778747
Ref. Mon. 146 Maine 1917; r. 1946	d.m.	45 30 25.037 67 27 44.181	179 37 02	359 37 02	T.S. B-19a	98.30	1.992546
Ref. Mon. 145 New Brunswick 1917; r. 1946	d.m.	45 30 26.602 67 27 46.325	222 33 26 316 04 02	42 33 28 136 04 04	T.S. B-19a Ref. Mon. 146	67.9 67.1	1.831568 1.826661
Little Falls Maine 1911; r. 1946	d.m.	45 30 24.995 67 27 44.246	227 34 04	47 34 04	Ref. Mon. 146	1.91	0.281033
Little Falls bench mark Maine 1917; r. 1946	d.m.	45 30 25.014 67 27 44.227	234 54 04	54 54 04	Ref. Mon. 146	1.21	0.084576
Strait New Brunswick 1911; r. 1946	d.m.	45 30 26.337 67 27 46.217	164 04 02	344 04 02	Ref. Mon. 145	8.51	0.930133
T.S. B-20 Maine 1917	n.d.	45 30 28.937 67 27 56.476	262 36 25	82 36 34	T.S. B-19	282.6	2.451144
T.S. B-20a Maine 1917; r. 1921	n.d.	45 30 32.162 67 27 53.581	32 15 45 286 12 43	212 15 43 106 12 50	T.S. B-20 T.S. B-19	117.74 226.4	2.070928 2.354837
T.S. B-21 Maine 1917	n.d.	45 30 28.991 67 28 00.192	271 10 33	91 10 36	T.S. B-20	80.69	1.906822
T.S. B-22 Maine 1917	n.d.	45 30 25.825 67 28 03.363	215 09 08	35 09 10	T.S. B-21	119.55	2.077532
T.S. B-23 Maine 1917; r. 1921	n.d.	45 30 22.130 67 28 06.272	208 58 03	28 58 05	T.S. B-22	130.40	2.115287
T.S. B-23a Maine 1921	n.d.	45 30 22.162 67 28 03.847	88 55 06	268 55 04	T.S. B-23	52.66	1.721484
T.S. B-23b Maine 1921	n.d.	45 30 20.086 67 28 07.432	201 45 48	21 45 49	T.S. B-23	67.94	1.832126
T.S. B-24 Maine 1917; r. 1921	n.d.	45 30 22.511 67 28 12.186	275 14 15	95 14 19	T.S. B-23	128.92	2.110335
T.S. B-25 Maine 1917	n.d.	45 30 20.112 67 28 16.457	231 23 03	51 23 06	T.S. B-24	118.66	2.074322
T.S. B-26 Maine 1917; r. 1921	n.d.	45 30 18.153 67 28 21.926	243 00 39	63 00 43	T.S. B-25	133.23	2.124603
T.S. B-27 Maine 1917; r. 1921	n.d.	45 30 15.522 67 28 23.340	200 41 50	20 41 51	T.S. B-26	86.83	1.938673
T.S. B-28 Maine 1917	n.d.	45 30 12.340 67 28 22.852	173 50 28	353 50 28	T.S. B-27	98.79	1.994721



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International boundary line St. Croix River - Vanceboro to Woodland - Mirror Scheme State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.S. B-29 Maine 1917; r. 1921	n.d.	45 30 08.581 67 28 21.372	164 31 03	344 31 02	T.S. B-28	120.41	2.080650
T.S. B-30 Maine 1917; r. 1921	n.d.	45 30 05.925 67 28 18.690	144 37 41	324 37 39	T.S. B-29	100.60	2.002615
T.S. B-30a Maine 1921	n.d.	45 30 08.959 67 28 16.713	24 37 42	204 37 41	T.S. B-30	103.02	2.012933
T.S. B-31 Maine 1917; r. 1921	n.d.	45 30 03.007 67 28 20.424	202 40 48	22 40 49	T.S. B-30	97.65	1.989660
T.S. B-31a Maine 1921	n.d.	45 30 03.594 67 28 19.861	34 00 42	214 00 42	T.S. B-31	21.87	1.339838
T.S. B-32 Maine 1917; r. 1921	n.d.	45 29 57.546 67 28 17.432	158 55 44	338 55 42	T.S. B-31	180.69	2.256944
T.S. B-33 Maine 1917; r. 1921	n.d.	45 29 55.718 67 28 13.170	121 22 26	301 22 23	T.S. B-32	108.39	2.035002
T.S. B-33a Maine 1917; r. 1921	n.d.	45 29 51.992 67 28 06.840	129 55 29	309 55 24	T.S. B-33	179.22	2.253393
T.S. B-33b Maine 1917; r. 1921	n.d.	45 29 47.656 67 28 06.576	177 32 58	357 32 58	T.S. B-33a	134.00	2.127093
T.S. B-33c Maine 1917	n.d.	45 29 45.138 67 28 06.637	180 58 42	0 58 42	T.S. B-33b	77.75	1.890675
Ref.Mon. 148 Maine 1917; r. 1946	d.m.	45 29 45.447 67 28 08.202	285 39 39	105 39 40	T.S. B-33c	35.29	1.547650
Ref.Mon. 147 New Brunswick 1917; r. 1946	d.m.	45 29 43.988 67 28 09.679	215 27 24 241 44 24	35 27 25 61 44 26	Ref.Mon. 148 T.S. B-33c	55.3 75.0	1.742582 1.874980
T.S. B-33d Maine 1921	n.d.	45 29 53.093 67 28 05.329	43 58 59	223 58 58	T.S. B-33a	47.24	1.674348
T.S. B-33e Maine 1921	n.d.	45 29 52.354 67 27 59.035	86 14 04	266 13 58	T.S. B-33a	169.83	2.230027
T.S. B-33f Maine 1921	n.d.	45 29 50.690 67 27 54.183	115 59 37	295 59 34	T.S. B-33e	117.20	2.068912
Duck Maine 1924; r. 1946	d.m.	45 29 47.096 67 28 10.533	315 10 16 349 03 46	135 10 18 169 03 47	Ref.Mon. 148 Ref.Mon. 147	71.8 97.7	1.856036 1.989967
T.S. B-34 Maine 1917	n.d.	45 29 52.808 67 28 15.638	210 48 47	30 48 49	T.S. B-33	104.60	2.019520
T.S. B-35 Maine 1917; r. 1921	n.d.	45 29 51.018 67 28 19.441	236 12 07	56 12 10	T.S. B-34	99.36	1.997212

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STATION		LATITUDE AND LONGITUDE	AXIMUTH	BACK AXIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.S. B-36 Maine 1917; r. 1921	n.d.	45 29 49.586 67 28 22.759	238 28 04	58 28 06	T.S. B-35	84.52	1.926940
T.S. B-37 Maine 1917; r. 1921	n.d.	45 29 48.490 67 28 27.963	253 19 23	73 19 27	T.S. B-36	117.95	2.071706
T.S. B-37a Maine 1921	n.d.	45 29 46.378 67 28 28.440	189 02 01	9 02 01	T.S. B-37	66.02	1.819674
T.S. B-38 Maine 1917; r. 1921	n.d.	45 29 50.112 67 28 32.792	295 31 58	115 32 01	T.S. B-37	116.20	2.065197
T.S. B-38a Maine 1921	n.d.	45 29 48.928 67 28 35.011	232 48 41	52 48 43	T.S. B-38	60.47	1.781558
T.S. B-39 Maine 1917	n.d.	45 29 51.330 67 28 35.744	300 23 40	120 23 42	T.S. B-38	74.32	1.871090
T.S. B-40 Maine 1917; r. 1921	n.d.	45 29 51.514 67 28 42.614	272 10 47	92 10 52	T.S. B-39	149.26	2.173945
T.S. B-40a Maine 1921	n.d.	45 29 50.206 67 28 41.863	158 01 22	338 01 21	T.S. B-40	43.56	1.639048
T.S. B-41 Maine 1917; r. 1921	n.d.	45 29 49.659 67 28 50.332	251 07 45	71 07 51	T.S. B-40	177.09	2.248185
T.S. B-41a Maine 1921	n.d.	45 29 48.006 67 28 48.604	143 41 16	323 41 15	T.S. B-41	63.34	1.801661
T.S. B-42 Maine 1917	n.d.	45 29 49.399 67 28 54.993	265 27 42	85 27 45	T.S. B-41	101.51	2.006508
T.S. B-43 Maine 1917; r. 1921	n.d.	45 29 46.452 67 29 04.982	247 14 28	67 14 35	T.S. B-42	235.18	2.371405
T.S. B-44=Boot Point bench mark Maine 1917; r. 1946		45 29 45.997 67 29 10.170	262 53 22	82 53 26	T.S. B-43	113.52	2.055081
T.S. B-45 Maine 1917	n.d.	45 29 43.333 67 29 15.985	236 55 24	56 55 28	T.S. B-44=Boot Point bench mark	150.68	2.178067
Ref. Mon. 149 New Brunswick 1917; r. 1946	d.m.	45 29 39.981 67 29 13.392	151 27 35 200 38 38	331 27 33 20 38 40	T.S. B-45 Boot Point bench mark= T.S. B-44	117.8 198.5	2.071203 2.297716
Ref. Mon. 150 Maine 1917; r. 1946	d.m.	45 29 41.754 67 29 13.208	4 10 59 128 57 37 206 43 53	184 10 59 308 57 35 26 43 55	Ref. Mon. 149 T.S. B-45 Boot Point bench mark= T.S. B-44	54.9 77.5 146.7	1.739491 1.889523 2.166331



International boundary line St. Croix River - Vanceboro to Woodland - Minor Scheme State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Tree=T.S. B-44a Maine 1921	n.d.	45 29 40.513 67 29 00.718	129 31 19 153 12 39	309 31 12 333 12 36	Boot Point bench mark= T.S. B-44 T.S. B-43	266.0 205.4	2.424963 2.312602
Wing Maine 1921	n.d.	45 29 39.361 67 28 55.030	106 01 58	286 01 54	Tree=T.S. B-44a	128.73	2.109688
T.S. B-46 Maine 1917	n.d.	45 29 39.683 67 29 17.915	200 24 02	20 24 03	T.S. B-45	120.22	2.079973
T.S. B-47 Maine 1917; r. 1921	n.d.	45 29 37.273 67 29 23.532	238 36 32	58 36 36	T.S. B-46	142.86	2.154924
T.S. B-48 Maine 1917; r. 1921	n.d.	45 29 33.173 67 29 26.519	207 08 05	27 08 07	T.S. B-47	142.22	2.152948
T.S. B-48a Maine 1921	n.d.	45 29 32.855 67 29 24.882	105 26 36	285 26 35	T.S. B-48	36.88	1.566801
T.S. B-48b Maine 1921	n.d.	45 29 32.676 67 29 23.962	105 26 37	285 26 36	T.S. B-48a	20.73	1.316525
T.S. B-49 Maine 1917	n.d.	45 29 26.989 67 29 25.414	172 50 10	352 50 09	T.S. B-48	192.42	2.284239
T.S. B-50 Maine 1917; r. 1921	n.d.	45 29 23.795 67 29 25.917	186 19 03	6 19 04	T.S. B-49	99.21	1.996549
T.S. B-51 Maine 1917; r. 1921	n.d.	45 29 21.738 67 29 29.951	234 03 24	54 03 27	T.S. B-50	108.20	2.034228
T.S. B-52 Maine 1917; r. 1921	n.d.	45 29 21.033 67 29 45.143	266 13 16	86 13 27	T.S. B-51	330.61	2.519318
T.S. B-53 Maine 1917; r. 1921	n.d.	45 29 28.332 67 29 45.231	359 30 56	179 30 56	T.S. B-52	225.35	2.352857
T.S. B-54 Maine 1917	n.d.	45 29 26.559 67 29 52.701	251 21 19	71 21 24	T.S. B-53	171.18	2.233462
T.S. B-55 Maine 1917; r. 1921	n.d.	45 29 27.727 67 29 55.564	300 06 23	120 06 25	T.S. B-54	71.86	1.856497
T.S. B-56 Maine 1917	n.d.	45 29 29.139 67 30 00.332	292 49 39	112 49 42	T.S. B-55	112.33	2.050481
T.S. B-57 Maine 1917	n.d.	45 29 27.915 67 30 03.370	153 23 50 240 12 00	333 23 50 60 12 02	Scott T.S. B-56	12.09 76.01	1.082574 1.880884
Ref. Mon. 151 New Brunswick 1917; r. 1946	d.m.	45 29 26.069 67 30 02.975	171 26 32 211 11 24 252 20 48	351 26 32 31 11 26 72 20 53	T.S. B-57 T.S. B-56 T.S. B-55 (comp.)	57.7 110.8 168.9	1.760813 2.044547 2.227534

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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Ref. Mon. 152 Maine 1917; r. 1946	d.m.	45 29 27.406 67 30 03.937	218 05 53 333 09 37	38 05 54 153 09 38	T.S. B-57 Ref.Mon. 151	19.96 46.3	1.300257 1.665439
Scott Brook Maine 1924; r. 1946	d.m.	45 29 26.794 67 30 04.928	228 41 47 297 50 28	48 41 48 117 50 30	Ref.Mon. 152 Ref.Mon. 151	28.6 48.0	1.456891 1.680881
T.S. C-1 Maine 1917	n.d.	45 30 34.732 67 25 21.913	129 36 27	309 36 24	Rock	112.89	2.052654
T.S. C-2 Maine 1917	n.d.	45 30 29.698 67 25 21.354	175 32 21	355 32 21	T.S. C-1	155.88	2.192792
T.S. P-1 Maine 1917	n.d.	45 30 26.963 67 25 18.325	142 05 53	322 05 51	T.S. C-2	107.03	2.029496
T.S. P-2 Maine 1917; r. 1921	n.d.	45 30 24.130 67 25 18.293	179 33 01	359 33 01	T.S. P-1	87.47	1.941837
T.S. P-4 Maine 1917; r. 1921	n.d.	45 30 21.043 67 25 14.380	138 17 25	318 17 22	T.S. P-2	127.68	2.106126
T.S. P-5 Maine 1921	n.d.	45 30 22.442 67 25 20.933	227 42 28 286 53 08	47 42 30 106 53 13	T.S. P-2 T.S. P-4	77.5 148.7	1.889141 2.172232
T.S. P-6 Maine 1921	n.d.	45 30 18.536 67 25 13.596	127 07 51 167 36 25	307 07 46 347 36 25	T.S. P-5 T.S. P-4	199.8 79.2	2.300528 1.898989
Crib 4 Maine 1921	n.d.	45 30 12.318 67 25 15.012	157 38 50 189 05 50	337 38 46 9 05 51	T.S. P-5 T.S. P-6	338.0 194.4	2.528862 2.288745
Crib 3 Maine 1921	n.d.	45 30 05.925 67 25 06.681	137 29 56 158 54 56	317 29 50 338 54 51	Crib 4 T.S. P-6	267.7 417.3	2.427645 2.620423
Crib 2 New Brunswick 1921	n.d.	45 30 09.844 67 24 57.973	57 23 02 101 40 02	237 22 56 281 39 50	Crib 3 Crib 4	224.5 377.7	2.351136 2.577167
Crib 1 New Brunswick 1921	n.d.	45 30 13.709 67 24 58.926	35 01 01 350 10 01	215 00 56 170 10 02	Crib 3 Crib 2	293.4 121.1	2.467511 2.083183
T.S. P-7 Maine 1921	n.d.	45 30 19.388 67 25 04.829	323 49 57 333 11 57	143 50 01 153 12 02	Crib 1 Crib 2	217.2 330.1	2.336765 2.518641
Ref. Mon. 137-A New Brunswick 1921; r. 1946	d.m.	45 30 02.928 67 25 06.903	148 43 56 182 58 56	328 43 50 2 58 56	Crib 4 Crib 3	339.2 92.7	2.530405 1.966887
Ref. Mon. 137-B New Brunswick 1921; r. 1946	d.m.	45 30 14.318 67 25 19.864	174 42 47 300 22 47 321 20 01	354 42 46 120 22 50 141 20 10	T.S. P-5 Crib 4 Ref.Mon. 137-A	251.9 122.1 450.4	2.401212 2.086665 2.653551
T.S. C-3 Maine 1917	n.d.	45 30 28.815 67 25 25.470	253 02 14	73 02 17	T.S. C-2	93.41	1.970393
T.S. C-4 Maine 1917	n.d.	45 30 29.814 67 25 29.764	288 18 40	108 18 43	T.S. C-3	98.19	1.992061



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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.S. C-5 Maine 1917	n.d.	45 30 29.393 67 25 36.874	265 11 33	85 11 38	T.S. C-4	154.90	2.190038
T.S. C-5a Maine 1917	n.d.	45 30 32.110 67 25 41.584	309 22 16	129 22 19	T.S. C-5	132.27	2.121450
T.S. C-6 Maine 1917	n.d.	45 30 25.061 67 25 44.282	230 15 22 195 03 48	50 15 27 15 03 50	T.S. C-5 T.S. C-5a	209.2 225.4	2.320475 2.352893
T.S. C-7 Maine 1917	n.d.	45 30 20.846 67 25 41.434	154 35 25	334 35 23	T.S. C-6	144.05	2.158522
T.S. C-8 Maine 1917; r. 1921	n.d.	45 30 16.121 67 25 38.069	153 23 54	333 23 52	T.S. C-7	163.13	2.212539
T.S. C-9 Maine 1917; r. 1921	n.d.	45 30 13.914 67 25 34.754	133 26 32	313 26 30	T.S. C-8	99.11	1.996127
T.S. C-9a Maine 1921	n.d.	45 30 14.626 67 25 32.616	64 40 34	244 40 32	T.S. C-9	51.36	1.710616
T.S. C-10 Maine 1917; r. 1921	n.d.	45 30 10.536 67 25 36.724	202 17 55	22 17 56	T.S. C-9	112.70	2.051939
Ref. Mon. 140 Maine 1917; r. 1946	d.m.	45 30 10.267 67 25 35.157	103 42 14	283 42 13	T.S. C-10	35.01	1.544223
Ref. Mon. 139 New Brunswick 1917; r. 1946	d.m.	45 30 09.101 67 25 34.219	129 10 05 150 30 15	309 10 03 330 30 14	T.S. C-10 Ref. Mon. 140	70.1 41.4	1.846024 1.616725
T.S. C-11 Maine 1917	n.d.	45 30 08.545 67 25 40.856	235 34 20	55 34 23	T.S. C-10	108.74	2.036400
T.S. C-12 Maine 1917; r. 1921	n.d.	45 30 08.373 67 25 46.278	267 24 33	87 24 37	T.S. C-11	117.83	2.071273
T.S. C-12a Maine 1921	n.d.	45 30 07.488 67 25 49.913	250 54 30	70 54 33	T.S. C-12	83.52	1.921767
T.S. C-12b Maine 1921	n.d.	45 30 04.080 67 25 50.240	183 51 30 212 59 02	3 51 30 32 59 05	T.S. C-12a T.S. C-12 (comp.)	105.46 158.0	2.023092 2.198671
T.S. C-13 Maine 1917; r. 1921	n.d.	45 30 14.894 67 25 51.773	329 20 37	149 20 41	T.S. C-12	234.01	2.369236
T.S. C-14 Maine 1917	n.d.	45 30 18.111 67 25 58.204	305 25 31	125 25 36	T.S. C-13	171.33	2.233838
T.S. C-15 Maine 1917	n.d.	45 30 19.570 67 26 04.680	287 45 39	107 45 44	T.S. C-14	147.63	2.169172
T.S. C-16 Maine 1917; r. 1921	n.d.	45 30 18.968 67 26 11.176	262 29 17	82 29 22	T.S. C-15	142.24	2.153023

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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.S. C-17 Maine 1917; r. 1921	n.d.	45 30 20.865 67 26 15.083	304 37 46	124 37 49	T.S. C-16	103.08	2.013155
T.S. C-17a Maine 1921	n.d.	45 30 19.048 67 26 14.441	166 03 16	346 03 16	T.S. C-17	57.79	1.761854
T.S. C-18 Maine 1917; r. 1921	n.d.	45 30 23.886 67 26 25.661	292 06 03	112 06 10	T.S. C-17	247.85	2.394187
T.S. C-19 Maine 1917; r. 1921	n.d.	45 30 22.756 67 26 32.620	256 59 39	76 59 44	T.S. C-18	155.04	2.190456
T.S. C-19a Maine 1921	n.d.	45 30 19.969 67 26 32.198	173 55 47	353 55 47	T.S. C-19	86.52	1.937105
T.S. C-20 Maine 1917	n.d.	45 30 25.541 67 26 38.284	304 57 58	124 58 02	T.S. C-19	150.06	2.176263
T.S. C-21 Maine 1917	n.d.	45 30 27.510 67 26 42.429	304 02 14	124 02 17	T.S. C-20	108.59	2.035777
T.S. C-22 Maine 1917	n.d.	45 30 29.503 67 26 44.907	318 50 24	138 50 26	T.S. C-21	81.72	1.912312
T.S. C-23 Maine 1917	n.d.	45 30 31.957 67 26 47.384	324 38 17	144 38 19	T.S. C-22	92.88	1.967944
T.S. C-24 Maine 1917	n.d.	45 30 34.250 67 26 49.882	322 32 54	142 32 56	T.S. C-23	89.15	1.950129
T.S. C-25 Maine 1917; r. 1921	n.d.	45 30 36.697 67 26 54.177	309 01 29	129 01 32	T.S. C-24	120.00	2.079166
T.S. C-26 Maine 1917; r. 1921	n.d.	45 30 37.944 67 26 57.889	295 32 19	115 32 21	T.S. C-25	89.29	1.950797
T.S. C-26a Maine 1921	n.d.	45 30 37.815 67 26 59.469	263 22 18	83 22 19	T.S. C-26	34.53	1.538246
T.S. C-27 Maine 1917	n.d.	45 30 39.182 67 27 03.121	288 36 22	108 36 25	T.S. C-26	119.83	2.078583
T.S. C-28 Maine 1917	n.d.	45 30 36.610 67 27 06.324	54 16 35 221 11 52	234 16 33 41 11 54	Ref. Mon. 142 ecc. T.S. C-27	107.30 105.53	2.030602 2.023392
T.S. D-1 Maine 1917; r. 1921	n.d.	45 30 25.636 67 27 16.353	160 32 28	340 32 26	T.S. B-15	203.35	2.308240
T.S. D-1a Maine 1921	n.d.	45 30 26.106 67 27 14.817	66 29 29	246 29 28	T.S. D-1	36.36	1.560656
T.S. D-2 Maine 1917	n.d.	45 30 19.266 67 27 11.625	152 26 13	332 26 10	T.S. D-1	221.84	2.346046



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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.S. D-3 Maine 1917; r. 1921	n.d.	45 30 15.396 67 27 06.919	139 27 57	319 27 54	T.S. D-2	157.22	2.196497
T.S. D-4 Maine 1917; r. 1921	n.d.	45 30 11.390 67 27 05.986	170 41 51	350 41 50	T.S. D-3	125.33	2.098069
T.S. D-4a Maine 1921	n.d.	45 30 11.659 67 27 01.550	85 04 54	265 04 51	T.S. D-4	96.67	1.985281
T.S. D-5 Maine 1917; r. 1921	n.d.	45 29 58.484 67 27 02.616	169 35 38	349 35 36	T.S. D-4	405.10	2.607564
T.S. D-6 Maine 1917; r. 1921	n.d.	45 29 59.627 67 27 06.592	292 14 00	112 14 03	T.S. D-5	93.26	1.969681
Ref. Mon. 143 New Brunswick 1917; r. 1946	d.m.	45 29 55.960 67 27 06.785	182 07 14 229 16 25	2 07 14 49 16 28	T.S. D-6 T.S. D-5	113.3 119.4	2.054200 2.077149
Ref. Mon. 144 Maine 1917; r. 1946	d.m.	45 29 57.425 67 27 07.459	252 44 03 342 04 47	72 44 06 162 04 47	T.S. D-5 Ref. Mon. 143	110.11 47.6	2.041824 1.677188
T.S. D-7 Maine 1917	n.d.	45 30 00.711 67 27 10.998	289 16 26	109 16 29	T.S. D-6	101.33	2.005742
T.S. D-8 Maine 1917	n.d.	45 30 03.065 67 27 13.332	325 07 15	145 07 17	T.S. D-7	88.59	1.947386
T.S. D-9 Maine 1917	n.d.	45 30 03.980 67 27 16.503	292 18 34	112 18 36	T.S. D-8	74.40	1.871584
T.S. D-10 Maine 1917	n.d.	45 30 06.826 67 27 19.138	326 55 33	146 55 35	T.S. D-9	104.84	2.020524
T.S. D-11 Maine 1917	n.d.	45 30 07.999 67 27 21.787	302 11 53	122 11 55	T.S. D-10	67.96	1.832224
T.S. D-12 Maine 1917	n.d.	45 30 10.378 67 27 22.025	355 58 24	175 58 24	T.S. D-11	73.64	1.867113
T.S. D-13 Maine 1917	n.d.	45 30 13.474 67 27 22.642	352 01 34	172 01 34	T.S. D-12	96.52	1.984596
T.S. D-14 Maine 1917	n.d.	45 30 14.879 67 27 28.501	288 49 56	108 50 00	T.S. D-13	134.39	2.128356
T.S. D-15 Maine 1917	n.d.	45 30 17.512 67 27 27.362	16 55 28	196 55 27	T.S. D-14	84.97	1.929278
T.S. D-16 Maine 1917	n.d.	45 30 24.318 67 27 36.497	185 43 28 316 39 21	5 43 28 136 39 27	T.S. B-18 T.S. D-15	143.10 288.92	2.155642 2.460778
T.S. B-58 Maine 1917; r. 1921	n.d.	45 29 24.885 67 30 10.773	239 48 12	59 48 17	T.S. B-57	185.98	2.269461

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T.S. B-58a Maine 1917; r. 1921	n.d.	45 29 27.534 67 30 13.986	319 32 12	139 32 14	T.S. B-58	107.52	2.031471
T.S. B-59 Maine 1917	n.d.	45 29 20.933 67 30 16.689	196 03 47 226 28 36	16 03 49 46 28 40	T.S. B-58a T.S. B-58	212.1 177.2	2.326497 2.248358
T.S. B-60 Maine 1917	n.d.	45 29 17.496 67 30 18.885	204 11 59	24 12 01	T.S. B-59	116.34	2.065729
T.S. B-61 Maine 1917	n.d.	45 29 12.151 67 30 19.020	181 01 19	1 01 19	T.S. B-60	165.04	2.217586
T.S. B-62 Maine 1917; r. 1921	n.d.	45 29 09.630 67 30 16.822	148 28 42	328 28 41	T.S. B-61	91.32	1.960546
T.S. B-63 Maine 1917; r. 1921	n.d.	45 29 06.836 67 30 16.003	168 21 06	348 21 05	T.S. B-62	88.08	1.944857
T.S. B-64 Maine 1917	n.d.	45 29 04.267 67 30 16.983	195 01 29	15 01 30	T.S. B-63	82.10	1.914364
T.S. B-65 Maine 1917; r. 1921	n.d.	45 28 59.216 67 30 11.471	142 29 25	322 29 21	T.S. B-64	196.59	2.293560
T.S. B-66 Maine 1917; r. 1921	n.d.	45 28 56.804 67 30 08.701	141 04 06	321 04 04	T.S. B-65	95.74	1.981092
T.S. B-67 Maine 1917; r. 1921	n.d.	45 28 52.769 67 30 07.724	170 20 21	350 20 20	T.S. B-66	126.36	2.101619
T.S. B-68 Maine 1917; r. 1921	n.d.	45 28 47.668 67 30 08.569	186 38 50	6 38 51	T.S. B-67	158.56	2.200181
T.S. B-69 Maine 1917	n.d.	45 28 43.517 67 30 06.773	163 04 11	343 04 10	T.S. B-68	133.95	2.126954
T.S. B-70 Maine 1917; r. 1921	n.d.	45 28 39.923 67 30 02.909	142 53 49	322 53 46	T.S. B-69	139.10	2.143331
T.S. B-71 Maine 1917; r. 1921	n.d.	45 28 35.020 67 29 59.659	154 59 45	334 59 43	T.S. B-70	167.00	2.222719
T.S. B-72 Maine 1917	n.d.	45 28 33.653 67 29 55.677	116 00 40	296 00 37	T.S. B-71	96.23	1.983311
T.S. B-73 Maine 1917	n.d.	45 28 30.431 67 29 54.401	164 26 00	344 25 59	T.S. B-72	103.26	2.013916
T.S. B-74 Maine 1917; r. 1921	n.d.	45 28 29.496 67 29 50.495	108 47 02	288 46 59	T.S. B-73	89.62	1.952405
T.S. B-75 Maine 1917; r. 1921	n.d.	45 28 24.624 67 29 48.180	161 30 55	341 30 53	T.S. B-74	158.61	2.200337



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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.S. B-76 Maine 1917; r. 1921	n.d.	45 28 29.685 67 29 46.176	160 18 28	340 18 27	T.S. B-75	129.16	2.111144
T.S. B-77 Maine 1917	n.d.	45 28 16.772 67 29 41.950	142 46 06	322 46 03	T.S. B-76	151.71	2.181012
T.S. B-78 Maine 1917; r. 1921	n.d.	45 28 14.041 67 29 35.791	122 13 11	302 13 07	T.S. B-77	158.15	2.199067
T.S. B-79 Maine 1917; r. 1921	n.d.	45 28 11.126 67 29 31.262	132 27 28	312 27 25	T.S. B-78	133.34	2.124946
T.S. B-80 Maine 1917	n.d.	45 28 07.806 67 29 28.364	148 26 45	328 26 43	T.S. B-79	120.29	2.080233
Ref. Mon. 153 New Brunswick 1917; r. 1946	d.m.	45 28 10.697 67 29 26.819	20 36 34 97 48 55	200 36 33 277 48 52	T.S. B-80 T.S. B-79	95.4 97.4	1.979374 1.988649
Ref. Mon. 154 Maine 1917; r. 1946	d.m.	45 28 09.703 67 29 29.491	242 08 31 337 19 12	62 08 33 157 19 13	Ref. Mon. 153 T.S. B-80	65.7 63.49	1.817270 1.802698
T.S. B-81 Maine 1917	n.d.	45 28 06.751 67 29 25.969	122 02 55	302 02 53	T.S. B-80	61.39	1.788126
T.S. B-82 Maine 1917	n.d.	45 28 03.893 67 29 20.096	124 40 09	304 40 05	T.S. B-81	155.14	2.190714
T.S. B-83 Maine 1911; r. 1917	n.d.	45 28 04.563 67 29 24.540	282 05 53	102 05 56	T.S. B-82	98.73	1.994466
T.S. B-83a Maine 1911	n.d.	45 28 05.359 67 29 22.679	58 41 54	238 41 53	T.S. B-83	47.32	1.675054
T.S. B-83b Maine 1911	n.d.	45 28 04.537 67 29 20.283	116 00 05	296 00 03	T.S. B-83a	57.91	1.762791
Ref. Mon. 154-A Maine 1911; r. 1946	d.m.	45 28 04.657 67 29 20.218	20 50 26 127 43 02	200 50 26 307 42 55	T.S. B-83b Ref. Mon. 154	3.97 254.6	0.598790 2.405941
T.S. B-84 Maine 1911; r. 1917	n.d.	45 28 03.309 67 29 29.461	250 05 01	70 05 05	T.S. B-83	113.68	2.055701
T.S. B-85 Maine 1917	n.d.	45 28 02.878 67 29 35.818	87 30 59 264 29 22	267 30 51 84 29 26	McGlinchey T.S. B-84	234.01 138.73	2.369243 2.142167
T.S. F-1 Maine 1917	n.d.	45 28 00.932 67 29 16.526	139 41 17	319 41 15	T.S. B-82	119.9	2.078721
T.S. F-2 Maine 1917; r. 1921	n.d.	45 27 57.799 67 29 15.449	166 23 55	346 23 54	T.S. F-1	99.5	1.997829
T.S. F-3 Maine 1917; r. 1921	n.d.	45 27 53.245 67 29 16.072	185 29 42	5 29 42	T.S. F-2	141.2	2.149965

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STATION		LATITUDE AND LONGITUDE	AXIMUTH	BACK AXIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.S. F-4 Maine 1917; r. 1921	n.d.	45 27 48.277 67 29 10.835	143 25 52	323 25 48	T.S. F-3	191.0	2.280950
T.S. F-5 Maine 1917; r. 1921	n.d.	45 27 45.362 67 29 08.983	155 54 54	335 54 53	T.S. F-4	98.6	1.993811
T.S. F-5a Maine 1921	n.d.	45 27 44.521 67 29 06.433	115 05 56	295 05 54	T.S. F-5	61.2	1.786628
T.S. F-6 Maine 1917	n.d.	45 27 40.068 67 29 05.257	153 39 06	333 39 03	T.S. F-5	182.4	2.261027
T.S. F-7 Maine 1917	n.d.	45 27 37.272 67 29 01.907	139 51 40	319 51 38	T.S. F-6	112.9	2.052695
T.S. F-8 Maine 1917	n.d.	45 27 33.319 67 28 59.963	160 54 46	340 54 45	T.S. F-7	129.1	2.111103
T.S. F-9 Maine 1917; r. 1921	n.d.	45 27 30.822 67 28 59.865	178 24 47	358 24 47	T.S. F-8	77.1	1.887225
T.S. F-9a New Brunswick 1917	n.d.	45 27 26.964 67 28 55.249	139 54 08 152 26 03	319 54 05 332 26 00	T.S. F-9 T.S. F-8	155.7 221.3	2.192318 2.345054
T.S. F-10 Maine 1917; r. 1921	n.d.	45 27 20.703 67 29 09.973	215 06 19	35 06 26	T.S. F-9	381.9	2.581917
T.S. F-11 Maine 1917	n.d.	45 27 13.795 67 29 11.060	186 19 01	6 19 02	T.S. F-10	214.6	2.331563
Ref. Mon. 155 New Brunswick 1917; r. 1946	d.m.	45 27 12.004 67 29 07.724	127 20 18 169 41 08	307 20 16 349 41 07	T.S. F-11 T.S. F-10	91.2 273.0	1.959852 2.436118
Ref. Mon. 156 Maine 1917; r. 1946	d.m.	45 27 11.849 67 29 10.158	161 56 22 264 49 30	341 56 21 84 49 31	T.S. F-11 Ref. Mon. 155	63.2 53.1	1.800720 1.725173
Split Rock Maine 1924; r. 1946	d.m.	45 27 10.145 67 29 08.421	144 20 31	324 20 30	Ref. Mon. 156	64.8	1.811312
T.S. F-11a New Brunswick 1917	n.d.	45 27 12.017 67 29 07.668	126 40 15 169 25 04	306 40 13 349 25 03	T.S. F-11 T.S. F-10	91.9 272.8	1.963291 2.435820
T.S. F-12 Maine 1917; r. 1921	n.d.	45 27 08.744 67 29 08.457	160 03 37	340 03 35	T.S. F-11	165.9	2.219785
T.S. F-13 Maine 1917; r. 1921	n.d.	45 27 04.024 67 29 06.650	164 55 08	344 55 07	T.S. F-12	150.9	2.178754
T.S. F-13a New Brunswick 1917	n.d.	45 26 57.771 67 29 01.108	148 02 39	328 02 35	T.S. F-13	227.5	2.357005
T.S. F-14 Maine 1917; r. 1921	n.d.	45 26 54.885 67 29 02.634	162 48 55 200 24 45	342 48 52 20 24 46	T.S. F-13 T.S. F-13a	295.3 95.1	2.470300 1.978074



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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.S. F-14a Maine 1917	n.d.	45 26 51.802 67 28 57.140	128 34 00	308 33 56	T.S. F-14	152.7	2.183819
T.S. F-15 New Brunswick 1917	n.d.	45 26 50.156 67 28 47.983	104 19 47 114 38 21	284 19 40 294 38 10	T.S. F-14a T.S. F-14	205.4 350.3	2.312578 2.544410
T.S. F-15a Maine 1917	n.d.	45 26 48.329 67 28 50.874	128 13 19 228 04 57	308 13 14 48 04 59	T.S. F-14a T.S. F-15	173.3 84.4	2.238871 1.926526
T.S. F-16 Maine 1917	n.d.	45 26 45.324 67 28 43.935	149 28 24	329 28 21	T.S. F-15	173.2	2.238491
T.S. F-16a New Brunswick 1917; r. 1921	n.d.	45 26 46.327 67 28 40.098	69 37 13 124 35 56	249 37 10 304 35 50	T.S. F-16 T.S. F-15	89.0 208.2	1.949154 2.318395
T.S. F-17 Maine 1917; r. 1921	n.d.	45 26 39.288 67 28 41.362	163 17 52	343 17 50	T.S. F-16	194.5	2.289029
T.S. F-18 Maine 1917	n.d.	45 26 32.841 67 28 40.432	174 12 15	354 12 14	T.S. F-17	200.1	2.301144
T.S. F-19 Maine 1917; r. 1921	n.d.	45 26 30.509 67 28 42.271	209 02 18	29 02 19	T.S. F-18	82.3	1.915600
T.S. F-19a Maine 1917; r. 1921	n.d.	45 26 30.591 67 28 47.402	271 17 52	91 17 56	T.S. F-19	111.5	2.047440
T.S. F-20 Maine 1917	n.d.	45 26 26.685 67 28 53.180	226 09 56 243 31 57	46 10 00 63 32 05	T.S. F-19a T.S. F-19	174.1 264.8	2.240744 2.422989
T.S. F-20a Maine 1917	n.d.	45 26 24.384 67 28 52.776	172 57 41	352 57 41	T.S. F-20	71.6	1.854820
Ref. Mon. 157 ecc. New Brunswick 1917	n.d.	45 26 21.700 67 28 48.795	133 45 13 148 13 48	313 45 10 328 13 45	T.S. F-20a T.S. F-20	119.8 181.0	2.078481 2.257730
T.S. F-21 Maine 1917	n.d.	45 26 18.385 67 28 49.628	190 02 13	10 02 14	Ref. Mon. 157 ecc.	103.9	2.016800
Ref. Mon. 157 New Brunswick 1917; r. 1946	d.m.	45 26 21.700 67 28 48.796	269 59 39	89 59 39	Ref. Mon. 157 ecc.	0.025	8.397940
Ref. Mon. 158 Maine 1917; r. 1946	d.m.	45 26 21.700 67 28 51.162	269 59 37 269 59 37 341 57 45	89 59 39 89 59 39 161 57 46	Ref. Mon. 157 Ref. Mon. 157 ecc. T.S. F-21	51.4 51.4 107.6	1.711124 1.711337 2.031965
Meetinghouse Rock Tablet New Brunswick 1921; r. 1946	d.m.	45 26 19.591 67 28 46.336	121 49 40	301 49 37	Ref. Mon. 158	123.4	2.091471
T.S. F-22 Maine 1917	n.d.	45 26 15.082 67 28 48.015	161 01 20 175 15 27	341 01 19 355 15 27	T.S. F-21 Ref. Mon. 157 ecc.	107.8 205.0	2.032755 2.311814
T.S. F-23 Maine 1917	n.d.	45 26 10.476 67 28 48.013	179 58 54	359 58 54	T.S. F-22	142.2	2.152900

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T.S. F-24 Maine 1917; r. 1921	n.d.	45 26 08.389 67 28 47.906	177 56 30	357 56 30	T.S. F-23	64.5	1.809393
T.S. F-25 Maine 1917; r. 1921	n.d.	45 26 03.586 67 28 46.506	168 24 21	348 24 20	T.S. F-24	151.4	2.180085
T.S. F-25a New Brunswick 1917	n.d.	45 26 03.826 67 28 41.389	86 10 58	266 10 54	T.S. F-25	111.5	2.047179
T.S. F-26 Maine 1917; r. 1921	n.d.	45 25 56.410 67 28 41.117	152 07 58 178 31 20	322 07 54 358 31 20	T.S. F-25 T.S. F-25a	250.6 229.0	2.398975 2.359898
T.S. F-26a Maine 1917; r. 1921	n.d.	45 25 55.347 67 28 44.757	247 27 52	67 27 55	T.S. F-26	85.6	1.932724
T.S. F-26b New Brunswick 1921	n.d.	45 25 50.526 67 28 37.194	132 09 19 154 51 03	312 09 13 334 51 00	T.S. F-26a T.S. F-26	221.8 200.7	2.345870 2.302492
T.S. F-27 Maine 1917	n.d.	45 25 49.691 67 28 43.509	171 10 12 194 04 13	351 10 11 14 04 15	T.S. F-26a T.S. F-26	176.7 213.8	2.247215 2.330085
T.S. F-27 (1921) Maine 1921	n.d.	45 25 49.651 67 28 43.502	171 10 47 193 56 55 258 51 24	351 10 46 13 56 57 78 51 29	T.S. F-26a T.S. F-26 T.S. F-26b	177.9 215.0 139.7	2.250264 2.332433 2.145340
T.S. F-28 Maine 1917	n.d.	45 25 30.414 67 28 37.924	168 28 11	348 28 07	T.S. F-27	607.4	2.783472
T.S. F-29 Maine 1917	n.d.	45 25 30.768 67 28 31.651	70 51 50 85 24 58	250 51 43 265 24 54	Keene T.P. F-28	211.6 136.8	2.325466 2.136155
T.S. F-29a Maine 1917	n.d.	45 25 24.971 67 28 30.099	115 08 04 134 38 49 169 19 40	295 07 56 314 38 44 349 19 39	Keene T.S. F-28 T.S. F-29	258.0 239.1 182.1	2.411692 2.378582 2.260332
Ref. Mon. 159 New Brunswick 1917; r. 1946	d.m.	45 25 35.137 67 28 28.407	6 41 18 27 36 18	186 41 17 207 36 16	T.S. F-29a T.S. F-29	316.0 152.2	2.499668 2.182420
Ref. Mon. 160 Maine 1917; r. 1946	d.m.	45 25 33.628 67 28 30.612	14 21 02 54 40 40 225 49 16	194 21 01 234 40 32 45 49 17	T.S. F-29 Keene (comp.) Ref. Mon. 159	91.1 272.7 66.8	1.959697 2.435635 1.825049
B.M.No.5=Grassy Is.bench mark Maine 1917; r. 1946	d.m.	45 25 28.803 67 28 29.028	88 03 47 166 58 55 183 56 55	268 03 38 346 58 54 3 56 55	Keene Ref. Mon. 160 Ref. Mon. 159	257.1 152.9 196.0	2.410036 2.184378 2.292273
Grassy Maine 1924; r. 1946	d.m.	45 25 38.095 67 28 33.243	310 58 29	130 58 32	Ref. Mon. 159	139.3	2.143801
Grass Maine 1921	n.d.	45 25 22.841 67 28 19.324	110 33 01 131 06 24	290 32 45 311 06 17	Keene Grassy Is.bench mark	499.7 280.0	2.698690 2.447139



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Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.S. G-1 Maine 1917; r. 1921	n.d.	45 25 19.815 67 28 00.040	102 33 58 103 41 44 106 51 44 116 12 19	282 33 45 283 41 23 286 51 15 296 11 57	Grass T.S. F-29a Keene T.S. F-29	429.5 672.6 926.9 765.9	2.632946 2.827744 2.967037 2.884163
T.S. G-2 Maine 1917; r. 1921	n.d.	45 25 18.200 67 27 57.002	127 02 50	307 02 48	T.S. G-1	82.8	1.917867
T.S. G-2a New Brunswick 1921	n.d.	45 25 21.420 67 27 50.783	53 40 29 76 10 19	233 40 25 256 10 13	T.S. G-2 T.S. G-1	167.8 207.3	2.224820 2.316530
T.S. G-2b New Brunswick 1921	n.d.	45 25 20.877 67 27 42.880	84 58 57 95 34 37	264 58 45 275 34 31	T.S. G-1 T.S. G-2a	374.5 172.6	2.573473 2.237138
T.S. G-3 Maine 1917	n.d.	45 25 15.706 67 27 53.747	137 24 30	317 24 28	T.S. G-2	104.6	2.019486
T.S. G-4 Maine 1917	n.d.	45 25 13.767 67 27 50.636	131 30 30	311 30 28	T.S. G-3	90.3	1.955778
T.S. G-5 Maine 1917; r. 1921	n.d.	45 25 12.881 67 27 47.381	111 08 10	291 08 07	T.S. G-4	75.9	1.880132
T.S. G-5a Maine 1917; r. 1921	n.d.	45 25 10.678 67 27 45.384	147 26 17	327 26 16	T.S. G-5	80.7	1.906776
T.S. G-6 New Brunswick 1917; r. 1921	n.d.	45 25 09.923 67 27 40.079	101 25 25 119 54 14	281 25 21 299 54 09	T.S. G-5a T.S. G-5	117.7 183.1	2.070666 2.262795
T.S. G-6a New Brunswick 1921	n.d.	45 25 11.750 67 27 36.979	50 05 20 98 46 46	230 05 18 278 46 39	T.S. G-6 T.S. G-5	87.9 228.8	1.943854 2.359539
T.S. G-7 Maine 1917	n.d.	45 25 00.768 67 27 37.343	168 06 51	348 06 49	T.S. G-6	288.8	2.460641
T.S. G-7a Maine 1917	n.d.	45 25 03.507 67 27 39.805	178 16 34 327 40 00	358 16 34 147 40 02	T.S. G-6 T.S. G-7	198.2 100.1	2.297013 2.009362
T.S. G-8 Maine 1917; r. 1921	n.d.	45 24 58.884 67 27 36.217	157 10 32	337 10 31	T.S. G-7	63.1	1.800067
T.S. G-8a Maine 1921	n.d.	45 25 00.453 67 27 37.004	340 32 31	160 32 32	T.S. G-8	51.4	1.710616
T.S. G-9 Maine 1917; r. 1921	n.d.	45 24 56.393 67 27 35.906	174 58 40	354 58 40	T.S. G-8	77.2	1.887593
T.S. G-10 Maine 1917; r. 1921	n.d.	45 24 54.239 67 27 35.094	165 09 07	345 09 06	T.S. G-9	68.8	1.837458
T.S. G-11 Maine 1917; r. 1921	n.d.	45 24 52.283 67 27 32.004	131 56 23	311 56 21	T.S. G-10	90.3	1.955793

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International boundary line St. Croix River - Vanceboro to Woodland - Minor Scheme State MaineProvince New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Ref. Mon. 161	d.m.	45 24 54.649	7 22 48	187 22 48	T.S. G-11	73.6	1.867096
New Brunswick 1917; r. 1946		67 27 31.569	80 37 13	260 37 11	T.S. G-10	77.7	1.890326
Ref. Mon. 162	d.m.	45 24 53.339	208 15 42	28 15 43	Ref. Mon. 161	45.9	1.661817
Maine 1917; r. 1946		67 27 32.569	339 21 54	159 21 55	T.S. G-11	34.8	1.541989
T.S. G-11a	n.d.	45 24 51.210	109 50 33	289 50 30	T.S. G-11	97.6	1.989641
Maine 1921		67 27 27.780					
T.S. G-12	n.d.	45 24 48.403	158 25 19	338 25 18	T.S. G-11	128.8	2.109980
Maine 1917		67 27 29.825					
T.S. G-13	n.d.	45 24 43.366	155 39 35	335 39 33	T.S. G-12	170.7	2.232138
Maine 1917		67 27 26.590					
T.S. G-14	n.d.	45 24 40.138	141 27 20	321 27 17	T.S. G-13	127.4	2.105244
Maine 1917		67 27 22.939					
T.S. G-15	n.d.	45 24 36.962	172 52 10	352 52 09	T.S. G-14	98.8	1.994847
Maine 1917		67 27 22.375					
T.S. G-16	n.d.	45 24 26.351	149 47 20	329 47 14	T.S. G-15	379.1	2.578735
Maine 1917		67 27 13.604	219 49 42	39 49 51	Loon Bay	441.5	2.644924
T.S. G-17	n.d.	45 24 23.805	120 26 41	300 26 37	T.S. G-16	155.1	2.190691
Maine 1917		67 27 07.454	199 38 20	19 38 25	Loon Bay	443.4	2.646842
Coot	d.m.	45 24 33.677	25 56 30	205 56 25	T.S. G-17	338.9	2.530012
New Brunswick 1911; r. 1946		67 27 00.638	51 16 30	231 16 21	T.S. G-16	361.4	2.558022
Rock	d.m.	45 24 28.682	29 50 07	209 50 04	T.S. G-17	173.5	2.239419
Maine 1911; r. 1946		67 27 03.484	71 53 55	251 53 48	T.S. G-16	231.5	2.364623
			201 52 22	21 52 24	Coot	166.1	2.220437
Irish	d.m.	45 24 28.723	89 33 55	269 33 50	Rock	165.4	2.218551
New Brunswick 1911; r. 1946		67 26 55.878	145 54 19	325 54 16	Coot	184.6	2.266348
T.S. H-39	n.d.	45 24 21.133	119 17 34	299 17 29	T.S. G-17	168.6	2.226842
Maine 1917		67 27 00.693					
T.S. H-38	n.d.	45 24 13.982	145 00 41	325 00 36	T.S. H-39	269.5	2.430486
Maine 1917		67 26 53.588					
T.S. H-37	n.d.	45 24 09.237	161 55 02	341 55 00	T.S. H-38	154.1	2.187834
Maine 1917		67 26 51.388					
T.S. H-36	n.d.	45 24 07.753	118 05 11	298 05 08	T.S. H-37	97.3	1.988244
Maine 1917		67 26 47.440					
T.S. H-35	n.d.	45 24 07.894	86 56 18	266 56 16	T.S. H-36	81.6	1.911479
Maine 1917		67 26 43.697					
T.S. H-34	n.d.	45 24 04.454	154 02 12	334 02 10	T.S. H-35	118.1	2.072382
Maine 1917		67 26 41.319					



International boundary line St. Croix River - Vanceboro to Woodland - Minor Scheme State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE			AZIMUTH		BACK AZIMUTH		TO STATION	DISTANCE (METERS)	LOGARITHM
T.S. H-33 Maine 1917	n.d.	45 67	24 26	02.116 36.121	122 34	07	302 34	03	T.S. H-34	134.1	2.127393
T.S. H-32 Maine 1917	n.d.	45 67	23 26	59.334 31.344	129 34	39	309 34	36	T.S. H-33	134.8	2.129715
T.S. H-32a Maine 1917	n.d.	45 67	24 26	00.701 29.958	35 31	45	215 31	44	T.S. H-32	51.9	1.714950
T.S. H-32b Maine 1917	n.d.	45 67	23 26	58.181 26.267	134 06	05	314 06	02	T.S. H-32a	111.8	2.048445
Ref. Mon. 163 New Brunswick 1917; r. 1946	d.m.	45 67	24 26	11.084 23.751	7 22	49 50	25 31	187 202	T.S. H-32b T.S. H-32a	402.1 347.8	2.604330 2.541359
Ref. Mon. 164 Maine 1917; r. 1946	d.m.	45 67	24 26	07.291 33.343	240 331	41 18	26 41	60 151	Ref. Mon. 163 T.S. H-32b	239.2 320.6	2.378848 2.505952
163a New Brunswick 1917; r. 1921	n.d.	45 67	24 26	00.022 22.014	132 173	19 41	29 19	312 353	Ref. Mon. 164 Ref. Mon. 163	333.3 343.6	2.522792 2.536042
164a Maine 1917	n.d.	45 67	23 26	56.803 22.954	145 191	05 37	29 26	325 11	Ref. Mon. 164 163a	394.8 101.5	2.596419 2.006367
164b Maine 1917	n.d.	45 67	23 26	52.790 17.927	138 158	34 17	12 32	318 338	164a 163a	165.2 240.3	2.218111 2.380806
163b New Brunswick 1917	n.d.	45 67	23 26	55.291 17.300	10 110	01 47	12 14	190 290	164b 164a	78.4 131.5	1.894321 2.119068
163c New Brunswick 1917	n.d.	45 67	23 26	45.177 03.284	126 135	25 41	52 27	306 315	164b 163b	395.8 436.4	2.597513 2.639875
164c Maine 1917	n.d.	45 67	23 26	44.251 05.659	134 241	39 03	24 48	314 61	164b 163c	375.1 59.0	2.574131 1.771136
164d Maine 1917	n.d.	45 67	23 26	40.527 00.142	133 154	46 32	27 26	313 334	164c 163c	166.2 159.0	2.220647 2.201365
163d New Brunswick 1917	n.d.	45 67	23 25	36.549 53.129	128 140	50 20	33 06	308 320	164d 163c	195.8 346.0	2.291908 2.539129
164e Maine 1917	n.d.	45 67	23 25	33.558 54.308	149 195	28 31	13 36	329 15	164d 163d	249.8 95.8	2.397565 1.981472
163e New Brunswick 1917	n.d.	45 67	23 25	32.205 49.140	110 147	23 06	41 06	290 327	164e 163d	119.9 159.7	2.078931 2.203403
164f Maine 1917	n.d.	45 67	23 25	28.656 46.917	133 156	16 10	14 54	313 336	164e 163e	220.8 119.8	2.344013 2.078297
163f New Brunswick 1917	n.d.	45 67	23 25	28.511 40.829	91 117	56 59	16 25	271 297	164f 164e	132.5 332.0	2.122238 2.521194

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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.S. H-31 Maine 1917	n.d.	45 23 57.032 67 26 29.842	155 18 30	335 18 29	T.S. H-32	78.2	1.893310
T.S. H-30 Maine 1917	n.d.	45 23 53.479 67 26 28.023	160 09 58	340 09 57	T.S. H-31	116.6	2.066780
T.S. H-29 Maine 1917	n.d.	45 23 49.696 67 26 24.042	143 26 59	323 26 56	T.S. H-30	145.4	2.162485
T.S. H-28 Maine 1917	n.d.	45 23 47.669 67 26 21.317	136 32 54	316 32 52	T.S. H-29	86.2	1.935427
T.S. H-27 Maine 1917	n.d.	45 23 44.826 67 26 19.931	161 02 44	341 02 43	T.S. H-28	92.8	1.967495
T.S. H-26 Maine 1917	n.d.	45 23 44.328 67 26 15.722	99 32 19	279 32 16	T.S. H-27	92.8	1.967709
T.S. H-25 Maine 1917	n.d.	45 23 42.156 67 26 13.546	144 46 50	324 46 48	T.S. H-26	82.1	1.914143
T.S. H-24 Maine 1917	n.d.	45 23 38.849 67 26 12.029	162 05 42	342 05 41	T.S. H-25	107.3	2.030563
T.S. H-23 Maine 1917	n.d.	45 23 37.369 67 26 11.624	169 04 29	340 04 29	T.S. H-24	46.5	1.667657
T.S. H-22 Maine 1917	n.d.	45 23 35.876 67 26 08.310	122 35 31	302 35 29	T.S. H-23	85.6	1.932274
T.S. H-21 Maine 1917	n.d.	45 23 33.077 67 26 02.497	124 20 58	304 20 54	T.S. H-22	153.2	2.185152
T.S. H-20 Maine 1917	n.d.	45 23 32.812 67 25 58.285	95 06 37	275 06 34	T.S. H-21	92.0	1.963678
T.S. H-19 Maine 1917; r. 1921	n.d.	45 23 31.559 67 25 55.841	126 02 59	306 02 57	T.S. H-20	65.7	1.817860
T.S. H-19a Maine 1921	n.d.	45 23 33.942 67 25 55.116	12 05 49	192 05 48	T.S. H-19	75.2	1.876484
T.S. H-19b New Brunswick 1921	n.d.	45 23 31.948 67 25 48.354	85 46 49 112 42 29	265 46 43 292 42 24	T.S. H-19 T.S. H-19a	163.3 159.5	2.213024 2.202656
T.S. H-19c New Brunswick 1921	n.d.	45 23 27.005 67 25 39.569	122 20 50 128 36 50	302 20 39 308 36 44	T.S. H-19a T.S. H-19b	400.3 244.6	2.602405 2.388400
T.S. H-18 Maine 1917; r. 1921	n.d.	45 23 28.647 67 25 56.283	186 06 33	6 06 33	T.S. H-19	90.4	1.956167
T.S. H-17 Maine 1917	n.d.	45 23 25.173 67 25 57.421	192 59 55	12 59 56	T.S. H-18	110.0	2.041533



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International boundary line St. Croix River - Vanceboro to Woodland - Minor Scheme State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.S. H-16 Maine 1917	n.d.	45 23 22.295 67 26 01.142	222 20 09	42 20 12	T.S. H-17	120.2	2.079856
T.S. H-15 Maine 1917	n.d.	45 23 20.967 67 26 02.901	223 01 12	43 01 13	T.S. H-16	56.1	1.748853
T.S. H-14 Maine 1917	n.d.	45 23 17.374 67 26 01.557	165 13 58	345 13 57	T.S. H-15	114.7	2.059643
T.S. H-13 Maine 1917	n.d.	45 23 13.999 67 26 03.980	206 49 58	26 50 00	T.S. H-14	116.8	2.067370
T.S. H-12 Maine	n.d.	45 23 10.854 67 26 03.249	170 41 32	350 41 32	T.S. H-13	98.4	1.992955
T.S. H-11 Maine 1917	n.d.	45 23 07.329 67 25 57.266	129 53 57	309 53 53	T.S. H-12	169.7	2.229611
T.S. H-10 Maine 1917	n.d.	45 23 02.680 67 25 52.177	142 21 17	322 21 13	T.S. H-11	181.3	2.258290
T.S. H-9 Maine 1917	n.d.	45 23 00.245 67 25 50.152	149 38 09	329 38 07	T.S. H-10	87.1	1.940187
T.S. H-8 Maine 1917	n.d.	45 22 58.914 67 25 48.346	136 15 56	316 15 55	T.S. H-9	56.9	1.754778
T.S. H-7 Maine 1917	n.d.	45 22 58.048 67 25 46.070	118 21 13	298 21 11	T.S. H-8	56.3	1.750272
T.S. H-6 Maine 1917	n.d.	45 22 56.377 67 25 43.776	135 56 57	315 56 55	T.S. H-7	71.8	1.856054
T.S. H-5 Maine 1917	n.d.	45 22 54.856 67 25 39.475	116 38 36	296 38 33	T.S. H-6	104.7	2.019890
T.S. H-4 Maine 1917	n.d.	45 22 53.777 67 25 37.732	131 18 03	311 18 02	T.S. H-5	50.5	1.703161
T.S. H-3 Maine 1917	n.d.	45 22 52.114 67 25 33.443	118 49 00	298 48 57	T.S. H-4	106.5	2.027333
T.S. H-2 Maine 1917	n.d.	45 22 50.194 67 25 32.772	166 09 34	346 09 33	T.S. H-3	61.0	1.785715
T.S. H-1 Maine 1917	n.d.	45 22 45.204 67 25 26.790	139 48 24 265 37 28	319 48 20 85 37 41	T.S. H-2 Canoose	201.7 414.4	2.304652 2.617466
Ref. Mon. 165 New Brunswick 1917; r. 1946	d.m.	45 22 52.660 67 25 23.457	17 29 11	197 29 09	T.S. H-1	241.3	2.382586
Ref. Mon. 165 ecc. New Brunswick 1917; r. 1921	n.d.	45 22 49.187 67 25 22.357	38 06 41 167 24 45	218 06 38 347 24 44	T.S. H-1 Ref. Mon. 165	156.3 109.8	2.193882 2.040789

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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Ref. Mon. 166	d.m.	45 22 52.279	262 02 37	82 02 40	Ref. Mon. 165	84.9	1.928761
Maine 1917; r. 1946		67 25 27.320	311 28 26	131 28 30	Ref. Mon. 165 ecc.	144.1	2.158774
Extra	n.d.	45 22 49.924	130 57 23	310 57 20	Ref. Mon. 166	110.9	2.045080
New Brunswick 1921		67 25 23.469	180 11 07	0 11 07	Ref. Mon. 165	84.5	1.926678
Ash	n.d.	45 22 56.532	331 50 52	151 50 56	Extra	231.4	2.364336
New Brunswick 1921		67 25 28.487	349 03 21	169 03 22	Ref. Mon. 166	133.7	2.126220
T.S. H-1a	n.d.	45 22 46.179	194 46 58	14 47 00	Ref. Mon. 165	206.9	2.315839
Maine 1921		67 25 25.884	219 33 53	39 33 56	Ref. Mon. 165 ecc.	120.5	2.080927
T.S. J-1	n.d.	45 22 40.544	153 34 43	333 34 41	T.S. H-1	160.7	2.205893
Maine 1917; r. 1921		67 25 23.504	242 49 10	62 49 21	Canoose	384.2	2.584528
T.S. J-2	n.d.	45 22 36.676	186 52 41	6 52 41	T.S. J-1	120.3	2.080183
Maine 1917; r. 1921		67 25 24.166					
T.S. J-2a	n.d.	45 22 37.874	67 53 26	247 53 23	T.S. J-2	98.2	1.992121
Maine 1921		67 25 19.985					
T.S. J-2b	n.d.	45 22 30.778	151 55 01	331 54 57	T.S. J-2a	248.3	2.394992
Maine 1921		67 25 14.613					
T.S. J-2c	n.d.	45 22 34.048	17 26 00	197 25 59	T.S. J-2b	105.8	2.024471
Maine 1921		67 25 13.156					
T.S. J-2d	n.d.	45 22 27.821	223 32 07	43 32 10	T.S. J-2b	125.9	2.100152
Maine 1921		67 25 18.600					
T.S. J-2e	n.d.	45 22 23.578	179 24 11	359 24 11	T.S. J-2d	131.0	2.117266
New Brunswick 1921		67 25 18.537					
T.S. J-2f=Clear	d.m.	45 22 25.409	303 53 55	123 53 58	T.S. J-2e	101.3	2.005822
Maine 1910; r. 1921		67 25 22.403					
T.S. J-2g	n.d.	45 22 21.818	195 51 15	15 51 16	T.S. J-2f	115.3	2.061671
New Brunswick 1921		67 25 23.850					
T.S. J-2h	n.d.	45 22 20.836	258 38 20	78 38 25	T.S. J-2g	153.9	2.187373
New Brunswick 1921		67 25 30.786					
T.S. J-2k	n.d.	45 22 24.900	301 21 57	121 22 04	T.S. J-2h	241.0	2.382091
Maine 1921		67 25 40.245					
T.S. J-2m	n.d.	45 22 22.665	227 34 31	47 34 33	T.S. J-2k	102.3	2.009850
Maine 1921		67 25 43.715					
T.S. J-2n	n.d.	45 22 20.754	242 35 36	62 35 40	T.S. J-2m	128.2	2.107817
Maine 1921		67 25 48.945					
T.S. J-3	n.d.	45 22 33.723	213 14 02	33 14 04	T.S. J-2	109.0	2.037389
Maine 1917		67 25 26.911					



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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.S. J-4 Maine 1917	n.d.	45 22 30.547 67 25 28.561	200 05 43	20 05 44	T.S. J-3	104.4	2.018753
T.S. J-5 Maine 1917	n.d.	45 22 29.902 67 25 32.871	258 00 11	78 00 14	T.S. J-4	95.9	1.981721
T.S. J-6 Maine 1917	n.d.	45 22 28.448 67 25 36.437	239 56 35	59 56 37	T.S. J-5	89.6	1.952484
T.S. J-7 Maine 1917	n.d.	45 22 28.807 67 25 39.322	280 00 27	100 00 29	T.S. J-6	63.7	1.804420
T.S. J-8 Maine 1917	n.d.	45 22 26.726 67 25 44.079	238 10 15	58 10 18	T.S. J-7	121.8	2.085738
T.S. J-9 Maine 1917	n.d.	45 22 21.444 67 25 48.328	209 32 44	29 32 47	T.S. J-8	187.5	2.272914
T.S. J-10 Maine 1917	n.d.	45 22 19.863 67 25 49.608	209 42 18	29 42 19	T.S. J-9	56.2	1.749671
T.S. J-11 New Brunswick 1917	n.d.	45 22 11.384 67 25 53.063	196 01 36	16 01 38	T.S. J-10	272.3	2.435126
T.S. J-11a Maine 1917	n.d.	45 22 17.080 67 25 53.440	224 08 56 357 19 46	44 08 58 177 19 46	T.S. J-10 T.S. J-11	119.7 176.0	2.078203 2.245620
Ref. Mon. 167(1917) New Brunswick 1917; r. 1946	d.m.	45 22 18.092 67 25 48.714	73 05 47 160 25 23 176 30 25	253 05 44 340 25 22 356 30 25	T.S. J-11a T.S. J-10 T.S. J-2n	107.5 58.0 82.3	2.031320 1.763517 1.915608
Ref. Mon. 168 Maine 1917; r. 1946	d.m.	45 22 18.570 67 25 50.451	204 42 00 291 20 15 205 55 19	24 42 00 111 20 16 25 55 20	T.S. J-10 Ref. Mon. 167(1917) T.S. J-2n	43.9 40.6 75.0	1.642606 1.608202 1.874871
Ref. Mon. 167(1921) New Brunswick 1921; r. 1946	d.m.	45 22 17.584 67 25 48.477	125 19 46 161 46 53	305 19 45 341 46 53	Ref. Mon. 168 Ref. Mon. 167(1917)	52.6 16.5	1.721360 1.217729
T.S. J-12 New Brunswick 1917	n.d.	45 22 07.036 67 25 52.377	173 39 24	353 39 24	T.S. J-11	135.1	2.130506
T.S. J-13 New Brunswick 1917; r. 1921	n.d.	45 22 03.805 67 25 56.737	223 34 10	43 34 13	T.S. J-12	137.7	2.138835
T.S. J-14 New Brunswick 1917; r. 1921	n.d.	45 21 54.845 67 26 03.242	207 05 55	27 06 00	T.S. J-13	310.7	2.492401
T.S. J-14a New Brunswick 1917	n.d.	45 21 57.711 67 25 57.488	54 45 32 184 57 40	234 45 28 4 57 41	T.S. J-14 T.S. J-13	153.3 188.9	2.185606 2.276152
T.S. J-15 New Brunswick 1917; r. 1921	n.d.	45 21 48.610 67 26 01.672	169 56 10	349 56 09	T.S. J-14	195.5	2.291146

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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.S. J-16 New Brunswick 1917; r. 1921	n.d.	45 21 39.853 67 26 00.246	173 27 13	353 27 12	T.S. J-15	272.1	2.434782
T.S. J-17 New Brunswick 1917; r. 1921	n.d.	45 21 37.573 67 25 52.041	111 30 58	291 30 52	T.S. J-16	192.0	2.283227
T.S. J-17a New Brunswick 1921	n.d.	45 21 37.593 67 25 53.411	271 10 04	91 10 05	T.S. J-17	29.8	1.474577
T.S. J-18 New Brunswick 1917; r. 1921	n.d.	45 21 34.402 67 25 49.381	149 24 01	329 23 59	T.S. J-17	113.7	2.055864
T.S. J-19 Maine 1917	n.d.	45 21 26.850 67 25 37.998	133 15 51	313 15 43	T.S. J-18	340.2	2.531771
T.S. J-19a Maine 1917	n.d.	45 21 28.553 67 25 44.184	147 56 28 291 19 46	327 56 24 111 19 50	T.S. J-18 T.S. J-19	213.1 144.6	2.328572 2.160025
Ref. Mon. 169 New Brunswick 1917; r. 1946	d.m.	45 21 25.841 67 25 31.904	103 13 07	283 13 03	T.S. J-19	136.2	2.134282
Ref. Mon. 170 Maine 1917; r. 1946	d.m.	45 21 26.708 67 25 37.820	138 38 03 281 44 23	318 38 03 101 44 27	T.S. J-19 Ref. Mon. 169	5.9 131.5	0.767317 2.118950
Station "T" (1910) Maine 1910; r. 1917	d.m.	45 21 25.641 67 25 35.618	125 45 43 265 38 32	305 45 41 85 38 34	T.S. J-19 Ref. Mon. 169	63.8 81.1	1.805096 1.908777
Hi Roc New Brunswick 1910; r. 1946	d.m.	45 21 25.847 67 25 31.921	85 29 15 103 10 30 297 44 34	265 29 13 283 10 26 117 44 34	Station "T" (1910) T.S. J-19 Ref. Mon. 169	80.7 135.8 0.41	1.906906 2.133033 9.614350
Cottage New Brunswick 1910; r. 1946	d.m.	45 22 29.449 67 25 10.720	63 52 14	243 52 06	Clear=T.S. J-2f	283.2	2.452032
Wing Maine 1910; r. 1924	d.m.	45 22 31.734 67 25 13.921	43 23 18 315 22 33	223 23 12 135 22 35	Clear=T.S. J-2f Cottage	268.7 99.1	2.429264 1.996247
Boles New Brunswick 1910	d.m.	45 22 23.638 67 25 18.411	122 11 21 201 21 13 223 00 50	302 11 18 21 21 16 43 00 55	Clear=T.S. J-2f Wing Cottage	102.6 268.4 245.3	2.011290 2.428729 2.389756
Dingle New Brunswick 1910	d.m.	45 22 21.436 67 25 24.628	201 32 45 243 19 19	21 32 46 63 19 23	Clear=T.S. J-2f Boles	131.9 151.4	2.120126 2.180137
Road Maine 1910	d.m.	45 22 23.832 67 25 28.295	249 12 43 271 35 56 312 50 29	69 12 47 91 36 03 132 50 32	Clear=T.S. J-2f Boles Dingle	137.1 215.1 108.8	2.137130 2.332733 2.036633
Guzzle New Brunswick 1910	d.m.	45 22 20.846 67 25 31.031	212 51 39 262 33 38	32 51 41 82 33 43	Road Dingle	109.7 140.5	2.040326 2.147677



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International boundary line St. Croix River - Vanceboro to Woodland - Minor Schemes State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Midway Maine 1910	d.m.	45 22 23.806 67 25 33.094	269 33 56 291 40 05 333 50 06	89 33 59 111 40 11 153 50 07	Road Dingle Guzzle	104.4 198.2 101.8	2.018858 2.297147 2.007808
Middle New Brunswick 1910	d.m.	45 22 22.327 67 25 35.380	227 27 17 295 47 40	47 27 19 115 47 43	Midway Guzzle	67.5 105.1	1.829339 2.021616
Shad Maine 1910	d.m.	45 22 25.698 67 25 38.697	295 35 54 311 55 20 325 15 07	115 35 58 131 55 25 145 15 09	Midway Guzzle Middle	135.2 224.2 126.6	2.130914 2.350617 2.102555
T.S. B-36 New Brunswick 1910; r. 1946	d.m.	45 22 20.442 67 25 39.310	184 41 59 235 45 45	4 42 00 55 45 48	Shad Middle	162.8 103.4	2.211651 2.014700
Hut Maine 1910	d.m.	45 22 22.181 67 25 44.168	227 38 18 268 38 53 296 55 25	47 38 22 88 38 59 116 55 28	Shad Middle T.S. B-36	161.1 191.3 118.6	2.207150 2.281684 2.073967
T.S. B-37 New Brunswick 1910; r. 1946	d.m.	45 22 18.996 67 25 44.418	183 10 09 248 07 19	3 10 09 68 07 22	Hut T.S. B-36	98.5 119.8	1.993327 2.078413
Dam Maine 1910	d.m.	45 22 19.842 67 25 47.708	226 51 05 264 12 57 290 03 11	46 51 07 84 13 02 110 03 13	Hut T.S. B-36 T.S. B-37	105.6 183.7 76.2	2.023534 2.264046 1.881939
Foot New Brunswick 1910	d.m.	45 22 13.510 67 25 50.638	198 03 58 218 37 49	18 04 01 38 37 54	Dam T.S. B-37	205.6 216.8	2.313076 2.336057
Dink Maine 1910	d.m.	45 22 17.019 67 25 52.415	229 36 23 250 40 17 340 21 08	49 36 27 70 40 23 160 21 09	Dam T.S. B-37 Foot	134.5 184.4 115.0	2.128741 2.265794 2.060775
Station "A" (1910) New Brunswick 1910	d.m.	45 22 10.606 67 25 53.868	189 04 19 218 05 43	9 04 20 38 05 45	Dink Foot	200.5 113.9	2.302082 2.056603
Station B (1910) Maine 1910	d.m.	45 22 08.964 67 25 57.813	205 16 59 228 02 48 239 26 08	25 17 03 48 02 53 59 26 11	Dink Foot Station A (1910)	275.0 209.9 99.7	2.439370 2.322113 1.998717
Station C (1910) New Brunswick 1910	d.m.	45 22 02.108 67 25 56.612	172 57 34 192 49 23	352 57 33 12 49 25	Station B (1910) Station A (1910)	213.2 269.1	2.328887 2.429836
Station D (1910) Maine 1910	d.	45 22 03.382 67 26 01.583	205 27 28 216 58 17 289 58 11	25 27 31 36 58 23 109 58 15	Station B (1910) Station A (1910) Station C (1910)	190.9 279.2 115.1	2.280719 2.445855 2.061090
Station E (1910) New Brunswick 1910	d.	45 21 53.085 67 26 04.769	192 18 12 212 30 22	12 18 14 32 30 28	Station D (1910) Station C (1910)	325.4 330.3	2.512359 2.518942
Station F (1910) Maine 1910	d.m.	45 21 52.790 67 26 08.036	203 14 37 220 50 09 262 43 05	23 14 41 40 50 17 82 43 07	Station D (1910) Station C (1910) Station E (1910)	355.9 380.2 71.7	2.551271 2.580025 1.855431

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STATION		LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
		°	'	"	°	'	"	°	'	"			
Station G (1910)	d.	45	21	45.625	147	44	46	327	44	41	Station F (1910)	261.6	2.417624
New Brunswick 1910		67	26	01.621	163	26	13	343	26	10	Station E (1910)	240.3	2.380718
Station H (1910)	d.m.	45	21	44.638	162	55	53	342	55	50	Station F (1910)	263.3	2.420431
Maine 1910		67	26	04.485	178	38	39	358	38	38	Station E (1910)	260.8	2.416390
					243	56	58	63	57	00	Station G (1910)	69.4	1.841201
Station K (1910)	d.m.	45	21	40.950	151	16	27	331	16	25	Station H (1910)	129.8	2.113396
New Brunswick 1910; r. 1946		67	26	01.617	179	58	13	359	58	13	Station G (1910)	144.3	2.159337
Station L (1910)	d.m.	45	21	37.336	173	27	15	353	27	14	Station H (1910)	226.9	2.355848
Maine 1910		67	26	03.296	188	06	32	8	06	33	Station G (1910)	258.5	2.412425
					198	07	54	18	07	55	Station K (1910)	117.4	2.069670
Station M (1910)	d.m.	45	21	37.642	87	41	31	267	41	23	Station L (1910)	234.6	2.370296
New Brunswick 1910		67	25	52.527	117	18	02	297	17	55	Station K (1910)	222.7	2.347630
Station N (1910)	d.m.	45	21	36.867	96	18	44	276	18	40	Station L (1910)	131.6	2.119202
Maine 1910		67	25	57.287	143	12	41	323	12	38	Station K (1910)	157.4	2.196947
					257	00	01	77	00	05	Station M (1910)	106.3	2.026660
Station O (1910)	d.	45	21	33.721	114	33	21	294	33	14	Station N (1910)	233.7	2.368734
New Brunswick 1910		67	25	47.519	138	00	03	318	00	00	Station M (1910)	162.9	2.211897
Station P (1910)	d.m.	45	21	31.842	128	30	17	308	30	10	Station N (1910)	249.2	2.396576
Maine 1910		67	25	48.327	152	57	18	332	57	15	Station M (1910)	201.1	2.303320
					196	51	09	16	51	09	Station O (1910)	60.6	1.782630
Station Q (1910)	d.	45	21	30.067	105	27	01	285	26	54	Station P (1910)	205.7	2.313195
New Brunswick 1910		67	25	39.219	121	58	51	301	58	44	Station O (1910)	213.0	2.328379
					309	21	37	129	21	42	H1 Roc	205.4	2.312692
					330	09	30	150	09	33	Station T (1910)	157.5	2.197364
Station R (1910)	d.m.	45	21	27.472	122	23	11	302	23	04	Station P (1910)	251.9	2.401222
Maine 1910		67	25	38.554	134	40	32	314	40	25	Station O (1910)	274.4	2.438412
					169	45	58	349	45	58	Station Q (1910)	81.4	1.910753
					289	09	33	109	09	38	H1 Roc	152.8	2.184245
					311	28	49	131	28	52	Station T (1910)	85.3	1.931058
Station U (1910)	d.m.	45	21	20.605	179	49	18	359	49	18	Station T (1910)	155.5	2.191686
New Brunswick 1910		67	25	35.596	206	17	48	26	17	50	H1 Roc	180.5	2.256513
Station V (1910)	d.m.	45	21	21.691	200	35	25	20	35	27	Station T (1910)	130.3	2.114900
Maine 1910		67	25	37.723	224	32	27	44	32	31	H1 Roc	180.0	2.255341
					305	54	00	125	54	02	Station U (1910)	57.2	1.757123
Station W (1910)	d.m.	45	21	17.059	208	22	16	28	22	18	Station V (1910)	162.5	2.210932
New Brunswick 1910		67	25	41.271	228	26	59	48	27	03	Station U (1910)	165.1	2.217675
Station X (1910)	d.m.	45	21	17.583	232	46	12	52	46	17	Station V (1910)	209.6	2.321417
Maine 1910		67	25	45.390	246	21	54	66	22	01	Station U (1910)	232.7	2.366840
					280	14	05	100	14	08	Station W (1910)	91.1	1.959601



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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Station Y (1910) New Brunswick 1910	d.m.	45 21 10.594 67 25 42.675	164 40 46 188 42 18	344 40 44 8 42 19	Station X (1910) Station W (1910)	223.7 201.9	2.349700 2.305141
Station Z (1910) Maine 1910	d.m.	45 21 12.234 67 25 46.556	188 44 02 217 40 54 300 56 23	8 44 03 37 40 58 120 56 26	Station X (1910) Station W (1910) Station Y (1910)	167.1 188.2 98.5	2.222881 2.274595 1.993418
Fin New Brunswick 1910; r. 1946	d.m.	45 21 03.799 67 25 43.336	164 56 07 183 55 21	344 56 05 3 55 22	Station Z (1910) Station Y (1910)	269.7 210.3	2.430872 2.322793
T.S. J-20 Maine 1917; r. 1921	n.d.	45 21 19.591 67 25 44.173	210 57 06	30 57 10	T.S. J-19	261.3	2.417192
T.S. J-21 Maine 1917; r. 1921	n.d.	45 21 16.438 67 25 46.555	208 02 11	28 02 13	T.S. J-20	110.3	2.042557
T.S. J-21a Maine 1921	n.d.	45 21 15.759 67 25 46.221	160 51 11	340 51 11	T.S. J-21	22.2	1.346207
T.S. J-22 Maine 1917	n.d.	45 21 13.078 67 25 46.440	178 36 55	358 36 55	T.S. J-21	103.8	2.016057
T.S. J-23 Maine 1917	n.d.	45 21 11.057 67 25 49.207	223 58 41	43 58 43	T.S. J-22	86.7	1.938132
T.S. J-24 Maine 1917; r. 1921	n.d.	45 21 08.487 67 25 49.492	184 28 19	4 28 19	T.S. J-23	79.6	1.900911
T.S. J-24a Maine 1921	n.d.	45 21 06.863 67 25 46.960	132 17 27	312 17 25	T.S. J-24	74.5	1.872246
T.S. J-25 Maine 1917; r. 1921	n.d.	45 21 05.606 67 25 52.972	220 25 29	40 25 31	T.S. J-24	116.8	2.067554
T.S. J-25a New Brunswick 1917; r. 1921	n.d.	45 21 00.543 67 25 47.866	144 34 58 171 47 20 185 46 34	324 34 55 351 47 19 5 46 35	T.S. J-25 T.S. J-24 T.S. J-24a	191.8 247.8 196.1	2.282823 2.394058 2.292455
Ref. Mon. 169-A=Kin New Brunswick 1921; r. 1946	d.m.	45 21 03.342 67 25 45.570	30 03 13 164 26 56	210 03 11 344 26 55	T.S. J-25a T.S. J-24a	99.8 112.8	1.999182 2.052432
Ref. Mon. 170-A=Cor Maine 1921; r. 1946	d.m.	45 21 06.381 67 25 49.145	173 21 59 252 38 23 320 19 53	353 21 59 72 38 25 140 19 56	T.S. J-24 T.S. J-24a Ref. Mon. 169-A=Kin	65.4 49.8 121.9	1.815893 1.697509 2.085992
T.S. J-26 Maine 1917; r. 1921	n.d.	45 20 56.006 67 25 55.707	191 21 25 230 37 24	11 21 27 50 37 32	T.S. J-25 T.S. J-25a	302.3 220.8	2.480432 2.344010
T.S. J-27 Maine 1917; r. 1921	n.d.	45 20 52.153 67 25 53.506	158 03 47	338 03 45	T.S. J-26	128.3	2.108080
T.S. J-28 Maine 1917	n.d.	45 20 48.342 67 25 50.080	147 37 56	327 37 54	T.S. J-27	139.3	2.143968

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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.S. J-29 Maine 1917; r. 1921	n.d.	45 20 45.096 67 25 48.290	158 45 26	338 45 25	T.S. J-28	107.5	2.031496
T.S. J-30 Maine 1917; r. 1921	n.d.	45 20 41.660 67 25 47.440	170 06 14	350 06 13	T.S. J-29	107.7	2.032184
T.S. J-31 Maine 1917; r. 1921	n.d.	45 20 38.682 67 25 47.880	185 56 01	5 56 01	T.S. J-30	92.7	1.966892
T.S. J-32 Maine 1917	n.d.	45 20 36.106 67 25 49.388	202 25 13	22 25 14	T.S. J-31	86.0	1.934700
T.S. J-33 Maine 1917	n.d.	45 20 33.100 67 25 51.622	207 39 19	27 39 21	T.S. J-32	104.8	2.020310
T.S. J-34 Maine 1917	n.d.	45 20 30.070 67 25 54.258	211 31 41	31 31 43	T.S. J-33	109.8	2.040451
T.S. J-35 Maine 1917; r. 1924	n.d.	45 20 27.772 67 25 57.442	224 20 02	44 20 04	T.S. J-34	99.2	1.996488
T.S. J-36 Maine 1917; r. 1921	n.d.	45 20 26.494 67 26 02.033	248 26 50	68 26 54	T.S. J-35	107.5	2.031249
Ref. Mon. 171 New Brunswick 1917; r. 1946	d.m.	45 20 25.178 67 25 58.253	116 15 34 192 25 39	296 15 31 12 25 40	T.S. J-36 T.S. J-35	91.8 82.0	1.962708 1.913811
Ref. Mon. 172 Maine 1917; r. 1946	d.m.	45 20 27.472 67 25 57.813	7 42 08 221 03 56	187 42 07 41 03 56	Ref. Mon. 171 T.S. J-35	71.5 12.3	1.854072 1.089329
McNicholl R.M. New Brunswick 1910; r. 1946	d.m.	45 20 22.368 67 26 02.233	211 24 38	31 24 41	Ref. Mon. 172	184.6	2.266327
McNicholl New Brunswick 1910; r. 1946	d.m.	45 20 22.537 67 26 01.246	76 20 39 172 00 56 206 07 39	256 20 38 352 00 55 26 07 41	McNicholl R.M. T.S. J-36 Ref. Mon. 172	22.124 123.4 169.7	1.344864 2.091156 2.229680
T.S. J-36a New Brunswick 1917	n.d.	45 20 22.325 67 26 02.409	183 38 41 212 44 36	3 38 41 32 44 40	T.S. J-36 T.S. J-35	129.0 199.9	2.110445 2.300907
T.S. J-37 Maine 1917	n.d.	45 20 17.839 67 26 18.188	232 46 26	52 46 38	T.S. J-36	441.7	2.645162
T.S. J-38 Maine 1917	n.d.	45 20 16.776 67 26 21.011	241 53 48	61 53 50	T.S. J-37	69.7	1.843042
T.S. J-39 Maine 1917	n.d.	45 20 14.489 67 26 23.109	212 53 42	32 53 44	T.S. J-38	84.1	1.924771
T.S. J-40 Maine 1917	n.d.	45 20 10.827 67 26 29.523	231 00 29	51 00 34	T.S. J-39	179.7	2.254510
Granite 2 Maine 1917; r. 1921	n.d.	45 20 07.996 67 26 30.770	197 15 34	17 15 35	T.S. J-40	91.5	1.961502



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International boundary line St. Croix River - Vanceboro to Woodland - Minor Scheme State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Marsh New Brunswick 1917	n.d.	45 20 01.617 67 26 31.572	185 04 17	5 04 18	Granite 2	197.7	2.296020
Cove Maine 1917	n.d.	45 20 01.552 67 26 34.393	201 37 55 268 08 37	21 37 58 88 08 39	Granite 2 Marsh	214.0 61.4	2.330402 1.788486
Root New Brunswick 1917; r. 1921	n.d.	45 19 53.896 67 26 33.288	174 11 20 187 10 48 188 54 30	354 11 19 7 10 50 8 54 31	Cove Granite 2 Marsh	237.6 438.7 241.3	2.375795 2.642181 2.382469
Grass Maine 1917	n.d.	45 19 56.416 67 26 34.314	200 23 49 343 58 07	20 23 51 163 58 08	Marsh Root	171.3 80.9	2.233780 1.908058
Chub Rock New Brunswick 1910; r. 1946	d.m.	45 19 49.134 67 26 41.221	213 47 02 229 35 58	33 47 07 49 36 04	Grass Root	270.5 226.8	2.432103 2.355709
Can New Brunswick 1910	n.d.	45 19 54.862 67 26 32.473	47 07 54	227 07 48	Chub Rock	259.9	2.414843
Elm Maine 1910	n.d.	45 20 02.533 67 26 34.382	350 02 42	170 02 43	Can	240.5	2.381044
Granite Maine 1910	n.d.	45 20 08.154 67 26 30.651	25 05 11	205 05 08	Elm	191.6	2.282461
Beaver Maine 1910; r. 1946	d.m.	45 20 10.597 67 26 27.779	39 39 29	219 39 27	Granite	98.0	1.991142
Water Maine 1917	n.d.	45 19 50.216 67 26 44.268	244 35 06 296 43 30	64 35 14 116 43 32	Root Chub Rock	264.7 74.3	2.422781 1.870953
Milberry Maine 1917; r. 1921	n.d.	45 19 42.116 67 27 11.703	247 17 11 251 55 21 336 00 14	67 17 30 71 55 42 156 00 18	Water Chub Rock Clark 1918	647.6 698.2 325.5	2.811338 2.844009 2.512510
Ref. Mon. 174 Maine 1917; r. 1946	d.m.	45 19 43.484 67 27 09.089	53 25 57 253 57 48	233 25 55 73 58 07	Milberry Chub Rock	70.9 631.4	1.850534 2.800321
Ref. Mon. 173 New Brunswick 1917; r. 1946	d.m.	45 19 39.430 67 27 10.282	159 33 02 191 44 26	339 33 01 11 44 27	Milberry Ref. Mon. 174	88.5 127.8	1.946929 2.106611
Clark 1917 New Brunswick 1917	n.d.	45 19 34.125 67 27 05.900	152 52 36 223 28 42	332 52 32 43 28 57	Milberry Water	277.2 684.6	2.442769 2.835431
Tree Maine 1917; r. 1918	n.d.	45 19 32.179 67 27 27.091	227 31 41 262 34 55 268 50 33	47 31 52 82 35 10 88 50 48	Milberry Clark 1917 Clark 1918	454.3 465.4 467.6	2.657374 2.667830 2.669866
South Clark New Brunswick 1917	n.d.	45 19 31.109 67 27 06.025	94 07 16 160 00 19 181 40 36	274 07 01 340 00 15 1 40 36	Tree Milberry Clark 1917	460.0 361.6 93.1	2.662736 2.558237 1.969177

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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
North Cherry Maine 1917; r. 1921	n.d.	45 19 16.383 67 27 17.962	157 49 08 208 23 29 209 45 45	337 49 02 28 23 38 29 45 54	Tree Clark 1918 South Clark	526.6 565.0 523.7	2.721502 2.752086 2.719081
Cherry Maine 1917; r. 1921	n.d.	45 19 10.006 67 27 12.391	148 21 10 191 59 18 192 00 51	328 21 06 11 59 23 12 00 56	North Cherry Clark 1918 South Clark	231.2 709.4 666.1	2.364076 2.850898 2.823513
Post New Brunswick 1917	n.d.	45 19 12.299 67 27 10.255	33 18 22 126 54 38	213 18 20 306 54 32	Cherry North Cherry	84.7 209.9	1.927909 2.322045
T.S. K-23 New Brunswick 1917	n.d.	45 19 03.943 67 27 05.750	142 18 24 159 10 33	322 18 19 339 10 30	Cherry Post	236.5 276.0	2.373909 2.440902
T.S. K-23 (1921) New Brunswick 1921	n.d.	45 19 03.946 67 27 05.760	142 19 55	322 19 50	Cherry	236.3	2.373551
T.S. K-22 New Brunswick 1917; r. 1921	n.d.	45 18 58.723 67 27 08.044	164 47 42 197 08 53 197 13 21	344 47 39 17 08 55 17 13 23	Cherry T.S. K-23 (1921) T.S. K-23	361.0 168.8 168.7	2.557476 2.227261 2.227192
T.S. K-21 New Brunswick 1917	n.d.	45 18 52.516 67 27 10.682	196 41 41	16 41 43	T.S. K-22	200.1	2.301149
T.S. K-20 New Brunswick 1917; r. 1921	n.d.	45 18 48.865 67 27 12.149	195 49 31	15 49 32	T.S. K-21	117.2	2.068765
T.S. K-19 New Brunswick 1917; r. 1921	n.d.	45 18 45.427 67 27 14.935	209 45 43	29 45 45	T.S. K-20	122.3	2.087291
T.S. K-18 New Brunswick 1917	n.d.	45 18 41.753 67 27 19.576	221 42 47	41 42 50	T.S. K-19	151.9	2.181614
T.S. K-17 New Brunswick 1917	n.d.	45 18 38.172 67 27 23.957	220 48 10	40 48 13	T.S. K-18	146.0	2.164453
T.S. K-16 New Brunswick 1917; r. 1921	n.d.	45 18 34.016 67 27 27.445	210 38 29	30 38 31	T.S. K-17	149.1	2.173513
T.S. K-15 New Brunswick 1917; r. 1921	n.d.	45 18 30.916 67 27 30.020	210 22 25	30 22 27	T.S. K-16	110.9	2.045057
T.S. K-14 New Brunswick 1917	n.d.	45 18 24.900 67 27 31.321	188 40 32	8 40 33	T.S. K-15	187.9	2.273883
T.S. K-13 New Brunswick 1917; r. 1921	n.d.	45 18 20.212 67 27 32.043	186 12 16	6 12 17	T.S. K-14	145.6	2.163091
T.S. K-12 New Brunswick 1917; r. 1921	n.d.	45 18 15.625 67 27 30.930	170 17 03	350 17 02	T.S. K-13	143.7	2.157389
T.S. K-11 New Brunswick 1917	n.d.	45 18 12.525 67 27 32.678	201 42 05	21 42 06	T.S. K-12	103.0	2.012777



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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.S. K-10 New Brunswick 1917	n.d.	45 18 11.320 67 27 34.573	227 59 07	47 59 08	T.S. K-11	55.6	1.744814
Ref. Mon. 176 Maine 1917; r. 1946	d.m.	45 18 12.419 67 27 37.160	268 05 16 301 02 55	88 05 19 121 02 57	T.S. K-11 T.S. K-10	97.7 65.8	1.989907 1.818160
Ref. Mon. 175 New Brunswick 1917; r. 1946	d.m.	45 18 11.275 67 27 35.318	131 21 34 265 05 06	311 21 32 85 05 06	Ref. Mon. 176 T.S. K-10	53.5 16.3	1.728068 1.212045
T.S. K-9 New Brunswick 1917	n.d.	45 18 06.945 67 27 34.323	177 41 00	357 41 00	T.S. K-10	135.2	2.130881
T.S. K-8 New Brunswick 1917	n.d.	45 18 03.519 67 27 36.257	201 43 47	21 43 48	T.S. K-9	113.8	2.056318
T.S. K-7 New Brunswick 1917; r. 1921	n.d.	45 17 56.646 67 27 42.211	211 26 23	31 26 27	T.S. K-8	248.7	2.395687
T.S. K-7a New Brunswick 1917; r. 1921	n.d.	45 17 58.427 67 27 38.184	57 55 16 194 57 05	237 55 13 14 57 06	T.S. K-7 T.S. K-8	103.6 162.7	2.015214 2.211382
T.S. K-6 New Brunswick 1917; r. 1921	n.d.	45 17 55.485 67 27 45.241	241 30 24	61 30 26	T.S. K-7	75.1	1.875738
T.S. K-5 New Brunswick 1917; r. 1921	n.d.	45 17 55.381 67 27 50.031	268 14 22	88 14 26	T.S. K-6	104.4	2.018814
T.S. K-4 New Brunswick 1917; r. 1921	n.d.	45 17 54.417 67 27 53.707	249 36 09	69 36 12	T.S. K-5	85.4	1.931681
T.S. K-4a New Brunswick 1921	n.d.	45 17 56.884 67 27 58.198	307 53 43	127 53 46	T.S. K-4	124.0	2.093450
T.S. K-4b New Brunswick 1921	n.d.	45 17 54.309 67 28 04.154	238 30 31	58 30 35	T.S. K-4a	152.2	2.182378
T.S. K-4c New Brunswick 1921	n.d.	45 17 50.643 67 28 07.196	210 21 06	30 21 08	T.S. K-4b	131.2	2.117818
T.S. K-3 New Brunswick 1917	n.d.	45 17 47.226 67 27 56.861	197 12 17	17 12 19	T.S. K-4	232.4	2.366199
T.S. K-3 (1921) New Brunswick 1921	n.d.	45 17 47.192 67 27 56.892	197 16 59	17 17 01	T.S. K-4	233.6	2.368471
T.S. K-2 New Brunswick 1917	n.d.	45 17 37.740 67 27 58.325	186 13 01	6 13 02	T.S. K-3	294.6	2.469175
T.S. K-1 New Brunswick 1917	n.d.	45 17 35.370 67 28 01.358	222 05 43	42 05 45	T.S. K-2	98.6	1.993834
Spednic South (Ref. Mon. 177 ref.) New Brunswick 1912; r. 1946	d.m.	45 17 35.631 67 28 04.858	276 01 16	96 01 19	T.S. K-1	76.7	1.884720

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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Ref. Mon. 178	d.m.	45 17 36.799	16 25 01	196 25 01	Spednic South	37.6	1.574926
Maine 1917; r. 1946		67 28 04.371	303 53 14	123 53 17	T.S. K-1	79.1	1.898042
Ref. Mon. 177	d.m.	45 17 35.637	44 40 32	224 40 32	Spednic South	0.26	9.418514
New Brunswick 1917; r. 1946		67 28 04.850	196 13 36	16 13 36	Ref.Mon. 178	37.4	1.572252
Spednic North (Ref.Mon.178 ref.)		45 17 36.659	12 50 38	192 50 38	Spednic South	32.55	1.512564
Maine 1912; r. 1946	d.m.	67 28 04.526					
Cabin	d.m.	45 17 34.363	187 15 53	7 15 53	Spednic South	39.46	1.596113
New Brunswick 1912; r. 1924		67 28 05.087					
Pine	n.d.	45 17 35.183	267 54 31	87 54 43	Spednic South	380.1	2.579850
Maine 1917; r. 1921		67 28 22.288					
North Pine	n.d.	45 17 37.703	39 55 59	219 55 57	Pine	101.5	2.006304
Maine 1917		67 28 19.299	281 29 05	101 29 15	Spednic South	321.1	2.506639
Bank	n.d.	45 17 32.880	219 25 29	39 25 31	Pine	92.0	1.963876
Maine 1917; r. 1921		67 28 24.970					
High	n.d.	45 17 31.701	251 52 06	71 52 09	Bank	117.0	2.068099
Maine 1917; r. 1921		67 28 30.071					
East Poplar	n.d.	45 17 14.027	208 25 56	28 26 06	High	620.5	2.792727
New Brunswick 1917; r. 1921		67 28 43.628	214 56 10	34 55 23	Bank	710.0	2.851254
Poplar	n.d.	45 17 16.746	225 03 58	45 04 14	Bank	705.3	2.848368
New Brunswick 1917; r. 1921		67 28 47.882	312 08 51	132 08 54	East Poplar	125.0	2.097070
Marsh 2	n.d.	45 17 18.874	327 43 58	147 43 59	Poplar	77.7	1.890363
New Brunswick 1917		67 28 49.785					
Shore	n.d.	45 17 21.390	319 58 58	139 59 00	Marsh 2	101.4	2.006132
New Brunswick 1917		67 28 52.777					
Dead	n.d.	45 17 23.462	302 54 54	122 54 58	Shore	117.7	2.070862
New Brunswick 1917; r. 1921		67 28 57.312					
Wood	n.d.	45 17 24.709	287 16 43	107 16 47	Dead	129.6	2.112487
New Brunswick 1917; r. 1921		67 29 02.989					
Pulp	n.d.	45 17 25.649	290 20 44	110 20 47	Wood	83.5	1.921571
New Brunswick 1917		67 29 06.581					
Boom	n.d.	45 17 24.014	112 07 02	292 06 40	Ross	743.0	2.871011
New Brunswick 1917; r. 1921		67 29 08.131	213 47 46	33 47 47	Pulp	60.7	1.783534
Ref. Mon. 180 ecc.	n.d.	45 17 13.224	207 21 38	27 21 43	Boom	375.1	2.574128
Maine 1917		67 29 16.041					
Ref. Mon. 180	d.m.	45 17 13.168	146 20 51	326 20 51	Ref.Mon. 180 ecc.	2.10	0.321604
Maine 1917; r. 1946		67 29 15.988					



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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Log 2	n.d.	45 17 06.221	163 56 24	343 56 22	Ref.Mon. 180 ecc.	225.0	2.352100
New Brunswick 1917		67 29 13.186	191 20 22	11 20 25	Boom	560.2	2.748371
Ref. Mon. 179	d.m.	45 17 07.231	19 19 00	199 19 00	Log 2	33.0	1.518526
New Brunswick 1917; r. 1946		67 29 12.685	158 25 47	338 25 45	Ref.Mon. 180 ecc.	199.0	2.298785
West	n.d.	45 16 45.456	167 41 48	347 41 38	Ross	1504.6	3.177429
Maine 1917; r. 1921		67 29 25.007	192 50 26	12 50 32	Ref.Mon. 180 ecc.	879.2	2.944097
			197 10 07	17 10 19	Boom	1245.9	3.095476
			201 53 42	21 53 50	Log 2	690.9	2.839409
Birch	n.d.	45 16 47.304	83 51 45	263 51 28	West	533.6	2.727177
New Brunswick 1917; r. 1921		67 29 00.668	148 56 32	328 56 05	Ross	1649.5	3.217357
Penn	n.d.	45 16 38.106	129 22 45	309 22 36	West	357.6	2.553422
Maine 1917; r. 1921		67 29 12.324	160 37 07	340 36 48	Ross	1798.9	3.255012
			175 43 39	355 43 36	Ref.Mon. 180 ecc.	1087.1	3.036282
			178 45 42	358 45 41	Log 2	868.1	2.938589
			221 49 13	41 49 21	Birch	381.0	2.580954
West Dam	d.m.	45 16 29.746	114 54 06	294 53 48	Penn	613.0	2.787442
Maine 1917; r. 1955		67 28 46.816	150 53 01	330 52 51	Birch	620.4	2.792697
Ref. Mon. 181 (=East Dam)	d.m.	45 16 38.489	11 15 15	191 15 13	West Dam	275.2	2.439655
New Brunswick 1918; 1955		67 28 44.352	88 53 26	268 53 06	Penn	609.8	2.785193
Ref. Mon. 182	d.m.	45 16 27.341	216 28 47	36 28 49	West Dam	92.3	1.965315
Maine 1917; 1955		67 28 49.334					
Base 2	n.d.	45 16 34.069	56 13 41	236 13 34	West Dam	240.1	2.380359
New Brunswick 1917; r. 1921		67 28 37.661	133 05 34	313 05 29	Ref.Mon. 181	199.7	2.300446
Drop	n.d.	45 16 30.992	155 53 42	335 53 39	Ref.Mon. 181	253.5	2.404061
New Brunswick 1921		67 28 39.601	204 00 22	24 00 24	Base 2	104.0	2.016955
Turning Point 956	d.m.	45 16 30.514	8 13 28	188 13 28	West Dam	24.0	1.379362
Maine & New Brunswick 1924; 1955		67 28 46.659	191 32 32	11 32 34	Ref.Mon. 181	251.3	2.400171
Gravel	n.d.	45 16 23.887	144 29 22	324 29 18	West Dam	222.2	2.346719
Maine 1917; r. 1921		67 28 40.896	170 30 39	350 30 37	Ref.Mon. 181	457.0	2.659943
			192 38 36	12 38 39	Base 2	322.1	2.508038
Point 2	n.d.	45 16 24.548	73 09 08	253 09 06	Gravel	70.4	1.847304
New Brunswick 1917		67 28 37.807	161 39 32	341 39 28	Ref.Mon. 181	453.4	2.656498
Gorge	d.m.	45 16 13.625	161 29 33	341 29 30	Gravel	334.1	2.523840
Maine 1910; r. 1955		67 28 36.031	166 42 16	346 42 11	Ref.Mon. 181	788.7	2.896917
			173 27 05	353 27 04	Point 2	339.4	2.530712
Lower Pitch	d.m.	45 16 17.207	37 10 56	217 10 53	Gorge	138.8	2.142322
New Brunswick 1910; r. 1955		67 28 32.184	137 21 32	317 21 26	Gravel	280.4	2.447701

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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
North Lower Pitch New Brunswick 1917	n.d.	45 16 19.311 67 28 33.154	19 39 50 129 55 58 341 57 56	199 39 48 309 55 53 161 57 57	Gorge Gravel Lower Pitch	186.4 220.1 68.3	2.270431 2.342595 1.834498
Ref. Mon. 184 Maine 1918; r. 1955	d.m.	45 16 13.180 67 28 36.094	185 43 13	5 43 13	Gorge	13.81	1.140306
Ref. Mon. 183 New Brunswick 1918; r. 1955	d.m.	45 16 12.104 67 28 35.189	149 17 48 158 39 20	329 17 47 338 39 19	Ref. Mon. 184 Gorge	38.6 50.4	1.587149 1.702744
T.S. L-27 Maine 1917	n.d.	45 16 10.644 67 28 37.723	200 25 26 210 48 02	20 25 29 30 48 06	North Lower Pitch Lower Pitch	285.5 235.9	2.455621 2.372687
T.S. L-26 Maine 1917	n.d.	45 15 58.634 67 28 38.869	183 51 22	3 51 23	T.S. L-27	371.6	2.570072
T.S. L-26a New Brunswick 1917	n.d.	45 16 03.162 67 28 34.170	36 14 14 161 27 55	216 14 11 341 27 53	T.S. L-26 T.S. L-27	173.3 243.6	2.238775 2.386712
T.S. L-25 Maine 1917; r. 1921	n.d.	45 15 54.700 67 28 37.043	161 51 08	341 51 07	T.S. L-26	127.8	2.106572
T.S. L-24 Maine 1917; r. 1921	n.d.	45 15 48.227 67 28 36.889	179 01 51	359 01 51	T.S. L-25	199.8	2.300690
T.S. L-23 Maine 1917; r. 1921	n.d.	45 15 45.397 67 28 32.329	131 18 09	311 18 06	T.S. L-24	132.3	2.121714
T.S. L-22 Maine 1917; r. 1921	n.d.	45 15 41.839 67 28 27.704	137 26 54	317 26 51	T.S. L-23	149.1	2.173531
T.S. L-21 Maine 1917; r. 1921	n.d.	45 15 38.167 67 28 25.732	159 13 05	339 13 04	T.S. L-22	121.2	2.083418
T.S. L-21a Maine 1921	n.d.	45 15 40.271 67 28 21.884	52 15 08	232 15 05	T.S. L-21	106.11	2.025757
T.S. L-20 Maine 1917; r. 1921	n.d.	45 15 34.230 67 28 26.603	188 52 22	8 52 23	T.S. L-21	123.0	2.089992
T.S. L-19 Maine 1917; r. 1921	n.d.	45 15 28.875 67 28 26.656	180 23 49	0 23 49	T.S. L-20	165.3	2.218278
T.S. L-18 Maine 1917	n.d.	45 15 24.510 67 28 26.327	176 57 20	356 57 20	T.S. L-19	134.9	2.130166
T.S. L-17 Maine 1917; r. 1921	n.d.	45 15 20.872 67 28 25.500	170 52 48	350 52 47	T.S. L-18	113.7	2.055945
T.S. L-16 Maine 1917; r. 1921	n.d.	45 15 17.448 67 28 20.290	132 56 03	312 55 59	T.S. L-17	155.2	2.190798
T.S. L-15 Maine 1917	n.d.	45 15 14.740 67 28 17.539	144 20 13	324 20 11	T.S. L-16	102.9	2.012429



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STATION		LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION		DISTANCE (METERS)	LOGARITHM
T.S. L-14 Maine 1917; r. 1921	n.d.	45 15 12.040 67 28 14.510			141 36 01			321 35 59			T.S. L-15.		106.4	2.026741
T.S. L-13 Maine 1917; r. 1921	n.d.	45 15 08.613 67 28 11.819			150 59 11			330 59 09			T.S. L-14		121.0	2.082729
T.S. L-12 Maine 1917; r. 1921	n.d.	45 15 01.988 67 28 11.719			179 23 22			359 23 22			T.S. L-13		204.5	2.310732
T.S. L-11 Maine 1917	n.d.	45 14 59.809 67 28 08.337			132 21 57			312 21 55			T.S. L-12		99.8	1.999210
T.S. L-10 Maine 1917; r. 1921	n.d.	45 14 56.045 67 28 03.784			139 29 14			319 29 10			T.S. L-11		152.8	2.184211
T.S. L-9 Maine 1917; r. 1921	n.d.	45 14 50.895 67 28 01.773			164 34 44			344 34 43			T.S. L-10		164.9	2.217293
T.S. L-8 Maine 1917	n.d.	45 14 48.413 67 28 01.059			168 30 38			348 30 37			T.S. L-9		78.2	1.893131
T.S. L-7 Maine 1917	n.d.	45 14 45.536 67 27 58.124			144 13 23			324 13 21			T.S. L-8		109.5	2.039353
T.S. L-6 Maine 1917; r. 1921	n.d.	45 14 42.775 67 27 55.532			146 26 45			326 26 43			T.S. L-7		102.3	2.009799
T.S. L-5 Maine 1917; r. 1921	n.d.	45 14 39.273 67 27 53.505			157 45 42			337 45 41			T.S. L-6		116.8	2.067419
T.S. L-4 Maine 1917; r. 1921	n.d.	45 14 35.999 67 27 50.411			146 15 55			326 15 53			T.S. L-5		121.5	2.084649
T.S. L-4a Maine 1921	n.d.	45 14 34.403 67 27 48.032			133 30 57			313 30 55			T.S. L-4		71.54	1.854529
T.S. L-3 Maine 1917	n.d.	45 14 34.706 67 27 47.656			123 35 27			303 35 25			T.S. L-4		72.1	1.858164
T.S. L-2 Maine 1917	n.d.	45 14 30.625 67 27 43.645			145 13 32			325 13 29			T.S. L-3		153.4	2.185740
T.S. L-1 Maine 1917	n.d.	45 14 28.442 67 27 34.895			109 26 59			289 26 53			T.S. L-2		202.4	2.306188
Maurel ecc. Maine 1917; r. 1918	n.d.	45 14 28.850 67 27 31.167			81 11 25			261 11 22			T.S. L-1		82.3	1.915275
Maurel Maine 1910; r. 1939	d.m.	45 14 28.972 67 27 31.172			358 16 52			178 16 52			Maurel ecc.		3.76	0.575765

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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Pomhanan	d.m.	45 14 32.371	33 02 01	213 01 58	T.S. L-1	144.7	2.160463
New Brunswick 1910; r. 1939		67 27 31.278	358 43 17	178 43 17	Maurel ecc.	108.7	2.036366
			358 44 14	178 44 14	Maurel	105.0	2.021059
Ref. Mon. 185	d.m.	45 14 31.740	31 13 16	211 13 14	T.S. L-1	119.0	2.075703
New Brunswick 1918; r. 1939		67 27 32.066	221 21 43	41 21 44	Pomhanan	26.0	1.414791
			347 36 25	167 36 26	Maurel ecc.	91.3	1.960609
Ref. Mon. 186	d.m.	45 14 28.827	128 22 07	308 22 07	Maurel ecc.	1.17	0.069477
Maine 1918; r. 1939		67 27 31.124	167 08 46	347 08 45	Ref. Mon. 185	92.2	1.964924
T.S. M-1	n.d.	45 14 29.144	85 08 09	265 08 06	T.S. Maurel ecc.	107.0	2.029394
Maine 1917; r. 1921		67 27 26.285					
T.S. M-2	n.d.	45 14 28.685	97 25 24	277 25 20	T.S. M-1	109.8	2.040523
Maine 1917; r. 1921		67 27 21.294					
T.S. M-3	n.d.	45 14 25.508	148 18 37	328 18 35	T.S. M-2	115.3	2.061743
Maine 1917		67 27 18.517					
T.S. M-4	n.d.	45 14 22.792	132 13 50	312 13 47	T.S. M-3	124.8	2.096088
Maine 1917		67 27 14.281					
T.S. M-5	n.d.	45 14 18.602	139 27 23	319 27 19	T.S. M-4	170.2	2.230957
Maine 1917		67 27 09.209					
T.S. M-6	n.d.	45 14 15.443	136 44 44	316 44 41	T.S. M-5	133.9	2.126781
Maine 1917		67 27 05.002					
T.S. M-7	n.d.	45 14 12.144	172 06 09	352 06 09	T.S. M-6	102.8	2.012108
Maine 1917		67 27 04.354					
T.S. M-8	n.d.	45 14 07.961	154 07 32	334 07 30	T.S. M-7	143.5	2.156951
Maine 1917; r. 1921		67 27 01.482					
T.S. M-9	n.d.	45 14 03.706	152 36 27	332 36 25	T.S. M-8	147.9	2.170112
Maine 1917; r. 1921		67 26 58.361					
T.S. M-10	n.d.	45 13 59.419	195 03 20	15 03 21	T.S. M-9	137.1	2.136915
Maine 1917		67 26 59.993					
T.S. M-11	n.d.	45 13 57.281	141 03 51	321 03 49	T.S. M-10	84.8	1.928635
Maine 1917		67 26 57.549					
T.S. M-12	n.d.	45 13 53.550	154 41 28	334 41 26	T.S. M-11	127.4	2.105049
Maine 1917		67 26 55.053					
T.S. M-13	n.d.	45 13 50.757	142 52 35	322 52 33	T.S. M-12	108.1	2.033956
Maine 1917		67 26 52.061					
T.S. M-14	n.d.	45 13 47.976	154 50 29	334 50 28	T.S. M-13	94.8	1.977028
Maine 1917		67 26 50.212					



GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line St. Croix River - Vanceboro to Woodland - Minor Scheme State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE		AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.S. M-15 Maine 1917	n.d.	45 13 67 26	44.213 44.072	130 55 56			310 55 52			T.S. M-14.	177.3	2.248719
T.S. M-16 Maine 1917	n.d.	45 13 67 26	42.976 41.512	124 22 57			304 22 55			T.S. M-15	67.7	1.830320
T.S. M-17 Maine 1917; r. 1921	n.d.	45 13 67 26	39.225 34.565	127 22 52			307 22 47			T.S. M-16	190.7	2.280416
T.S. M-18 Maine 1917; r. 1921	n.d.	45 13 67 26	35.998 31.613	147 07 18			327 07 16			T.S. M-17	118.6	2.074139
T.S. M-19 Maine 1917; r. 1921	n.d.	45 13 67 26	30.095 27.610	154 23 48			334 23 45			T.S. M-18	202.1	2.305541
T.S. M-20 Maine 1917	n.d.	45 13 67 26	26.938 25.888	158 55 05			338 55 04			T.S. M-19	104.5	2.018910
T.S. M-21 Maine 1917	n.d.	45 13 67 26	24.445 24.003	151 53 38			331 53 37			T.S. M-20	87.3	1.940854
T.S. M-22 Maine 1917; r. 1921	n.d.	45 13 67 26	21.089 20.637	144 40 00			324 39 58			T.S. M-21	127.0	2.103769
T.S. M-23 Maine 1917; r. 1921	n.d.	45 13 67 26	16.201 19.095	167 25 59			347 25 58			T.S. M-22	154.6	2.189210
Ref. Mon. 187 New Brunswick 1918; r. 1939	d.m.	45 13 67 26	21.846 12.515	39 28 49 82 29 14			219 28 44 262 29 08			T.S. M-23 T.S. M-22	225.8 178.7	2.353680 2.252174
Ref. Mon. 188 Maine 1918; r. 1939	d.m.	45 13 67 26	17.618 17.518	38 10 23 219 54 23			218 10 22 39 54 27			T.S. M-23 Ref. Mon. 187	55.7 170.1	1.745517 2.230810
T.S. M-24 Maine 1917	n.d.	45 13 67 26	12.512 20.148	191 24 31			11 24 31			T.S. M-23	116.2	2.065183
T.S. M-25 Maine 1917	n.d.	45 13 67 26	09.209 20.264	181 25 07			1 25 07			T.S. M-24	102.0	2.008543
T.S. M-26 Maine 1917	n.d.	45 13 67 26	05.688 17.784	153 32 33			333 32 31			T.S. M-25	121.4	2.084300
T.S. M-27 Maine 1917; r. 1921	n.d.	45 13 67 26	04.053 17.023	161 47 31			341 47 31			T.S. M-26	53.1	1.725300
T.S. M-28 New Brunswick 1917; r. 1921	n.d.	45 12 67 26	58.108 07.688	132 01 25			312 01 18			T.S. M-27	274.2	2.438059
T.S. M-28a Maine 1917; r. 1921	n.d.	45 12 67 26	56.464 13.524	161 57 04 248 16 06			341 57 01 68 16 10			T.S. M-27 T.S. M-28	246.4 137.1	2.391703 2.136990
T.S. M-29 New Brunswick 1917	n.d.	45 12 67 26	56.564 06.512	88 50 41 151 43 03			268 50 35 331 43 02			T.S. M-28a T.S. M-28	153.0 54.1	2.184755 1.733439

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International boundary line St. Croix River - Vanceboro to Woodland - Minor Scheme State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.S. M-30 New Brunswick 1917	n.d.	45 12 55.596 67 26 04.244	121 07 03	301 07 01	T.S. M-29	57.8	1.761904
T.S. M-31 New Brunswick 1917	n.d.	45 12 52.779 67 26 01.988	150 29 38	330 29 36	T.S. M-30	99.9	1.999740
T.S. M-32 New Brunswick 1917	n.d.	45 12 48.606 67 25 58.638	150 26 00	330 25 57	T.S. M-31	148.1	2.170656
T.S. M-33 New Brunswick 1917	n.d.	45 12 39.697 67 25 53.274	156 56 57	336 56 53	T.S. M-32	298.9	2.475540
T.S. M-34 New Brunswick 1917; r. 1921	n.d.	45 12 29.107 67 25 50.928	171 06 00	351 05 58	T.S. M-33	330.9	2.519728
T.S. M-35 New Brunswick 1917	n.d.	45 12 23.858 67 25 49.524	169 17 58	349 17 57	T.S. M-34	164.9	2.217284
T.S. M-36 New Brunswick 1917	n.d.	45 12 20.484 67 25 47.928	161 30 51	341 30 50	T.S. M-35	109.8	2.040692
T.S. M-37 New Brunswick 1917	n.d.	45 12 18.122 67 25 46.174	152 18 21	332 18 20	T.S. M-36	82.3	1.915612
T.S. M-38 New Brunswick 1917	n.d.	45 12 14.404 67 25 40.672	133 42 49	313 42 45	T.S. M-37	166.1	2.220401
T.S. M-39 New Brunswick 1917	n.d.	45 12 13.284 67 25 42.616	230 49 30	50 49 31	T.S. M-38	54.7	1.738226
T.S. M-40 New Brunswick 1917	n.d.	45 12 10.381 67 25 40.649	154 24 48	334 24 47	T.S. M-39	99.4	1.997244
T.S. M-41 New Brunswick 1917	n.d.	45 12 04.318 67 25 40.317	177 47 06	357 47 06	T.S. M-40	187.3	2.272600
T.S. M-42 New Brunswick 1917	n.d.	45 12 02.754 67 25 40.785	191 57 14	11 57 14	T.S. M-41	49.4	1.693383
Ref. Mon. 190 Maine 1918; r. 1939	d.m.	45 12 04.009 67 25 56.838	276 18 35 189 27 04	96 18 46 9 27 08	T.S. M-42 T.S. M-34 (comp.)	352.5 785.5	2.547169 2.895123
Ref. Mon. 189 New Brunswick 1918; r. 1939	d.m.	45 12 02.942 67 25 40.610	33 24 26 95 19 03	213 24 26 275 18 52	T.S. M-42 Ref. Mon. 190	6.9 355.7	0.841396 2.551111
Green Maine 1917; r. 1921	n.d.	45 11 28.412 67 25 50.567	172 54 00 191 23 09	352 53 56 11 23 16	Ref. Mon. 190 T.S. M-42	1107.4 1081.5	3.044308 3.034007
Rushes Maine 1917	n.d.	45 11 42.159 67 26 05.041	219 46 59 323 19 49	39 47 16 143 19 59	T.S. M-42 Green	827.4 529.1	2.917695 2.723526
Island New Brunswick 1917; r. 1921	n.d.	45 11 45.855 67 25 43.378	16 14 58 76 26 16	196 14 53 256 26 01	Green Rushes	560.9 486.4	2.748867 2.687036



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International boundary line St. Croix River - Vanceboro to Woodland - Minor Scheme State Maine

Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Pier No. 1 Maine 1917; r. 1918	n.d.	45 11 23.481 67 25 31.393	109 59 08 159 15 21	289 58 54 339 15 12	Green Island	445.4 738.6	2.648739 2.868392
Whidden Maine 1910; r. 1939	d.m.	45 11 14.569 67 25 49.382	176 32 05 234 59 02	356 32 04 54 59 14	Green Pier No. 1	428.1 479.5	2.631566 2.680781
Weatherby New Brunswick 1910; r. 1918	d.m.	45 11 42.908 67 25 28.750	27 14 35 46 47 07	207 14 20 226 46 51	Whidden Green	984.0 653.5	2.992982 2.815253
Lean New Brunswick 1918	n.d.	45 11 42.199 67 25 35.192	38 15 30 351 49 56	218 15 19 171 49 59	Green Pier No. 1	542.0 583.8	2.734027 2.766236
Stump New Brunswick 1918	n.d.	45 11 27.517 67 25 06.135	77 16 06 125 33 03	257 15 48 305 32 42	Pier No. 1 Lean	565.3 779.6	2.752270 2.891861
Ref. Mon. 192 Maine 1918; r. 1939	d.m.	45 11 19.648 67 25 11.772	105 26 35 206 51 59	285 26 21 26 52 03	Pier No. 1 Stump	444.4 272.3	2.647745 2.435067
Ref. Mon. 191 New Brunswick 1918; r. 1939	d.m.	45 11 22.728 67 25 01.422	67 10 36 145 10 06	247 10 29 325 10 03	Ref. Mon. 192 Stump	245.1 180.1	2.389394 2.255514
Perl Maine 1918	n.d.	45 11 08.842 67 24 55.928	133 57 50 164 22 04	313 57 39 344 22 00	Ref. Mon. 192 Ref. Mon. 191	480.5 445.1	2.681736 2.648498
Lee Maine 1918; r. 1921	n.d.	45 11 12.684 67 25 01.902	181 56 01 312 16 53	1 56 01 132 16 57	Ref. Mon. 191 Perl	310.3 176.3	2.491712 2.246218
Dry New Brunswick 1918; r. 1921	n.d.	45 11 11.266 67 24 46.126	70 43 33 97 14 39	250 43 26 277 14 28	Perl Lee	226.7 347.2	2.355439 2.540551
Ledges Maine 1918; l. 1939	l.	45 11 04.932 67 24 52.351	147 06 25 214 47 58	327 06 22 34 48 02	Perl Dry	143.8 238.1	2.157660 2.376838
Pier No. 2 New Brunswick 1918; r. 1921	n.d.	45 11 01.020 67 24 39.121	112 41 25 154 11 52	292 41 16 334 11 47	Ledges Dry	313.1 351.3	2.495651 2.545733
Pier No. 3 Maine 1918	n.d.	45 10 50.385 67 24 39.056	147 07 24 179 45 05	327 07 15 359 45 05	Ledges Pier No. 2	534.7 328.3	2.728137 2.516304
Stub New Brunswick 1918	n.d.	45 11 02.802 67 24 30.732	25 22 03 73 17 05	205 21 57 253 16 59	Pier No. 3 Pier No. 2	424.2 191.2	2.627604 2.281594
New ecc. New Brunswick 1918	d.m.	45 10 42.919 67 23 52.294	102 43 32 126 11 09	282 42 59 306 10 42	Pier No. 3 Stub	1046.7 1039.7	3.019820 3.016926
Pier No. 4 Maine 1918; r. 1921	n.d.	45 10 34.826 67 24 18.470	136 54 08 246 23 11	316 53 53 66 23 29	Pier No. 3 New ecc.	657.8 623.8	2.818115 2.795027
Mill ecc. Maine 1918	d.m.	45 10 20.121 67 24 10.910	160 00 56 210 00 28	340 00 51 30 00 41	Pier No. 4 New ecc.	483.0 812.7	2.683979 2.909952
Top New Brunswick 1918; r. 1921	n.d.	45 10 27.256 67 23 42.739	70 18 07 156 39 35	250 17 47 336 39 28	Mill ecc. New ecc.	653.4 526.6	2.815186 2.721491

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State Maine

*Province* New Brunswick

STATION		LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION		DISTANCE (METERS)	LOGARITHM
Pit New Brunswick 1918	n.d.	45 10 02.033 67 24 09.486	176 39 54.0 176 48 47.8 216 52 19	356 39 46.2 356 48 46.8 36 52 38	Middlemiss Mill ecc. Top	4077.6 559.3 973.4	3.610405 2.747616 2.988290							
Pog New Brunswick 1918; r. 1921	n.d.	45 10 04.024 67 23 32.775	85 37 10 120 49 45	265 36 44 300 49 18	Pit Mill ecc.	804.1 969.8	2.905293 2.986668							
Abutment Maine 1909; r. 1946	d.m.	45 10 01.678 67 24 18.734	179 30 12.1 196 42 11.2 266 53 24.2	359 30 10.9 16 42 16.8 86 53 30.8	Middlemiss Mill ecc. Pit	4081.8 594.5 202.3	3.610853 2.774116 2.305904							
Pole Maine 1918; r. 1921	n.d.	45 10 12.069 67 24 26.389	233 40 04 310 00 19.4 332 28 22.7	53 40 15 130 00 31.4 152 28 28.1	Mill ecc. Pit Abutment	419.6 481.9 361.7	2.622823 2.682972 2.558389							
Telline Maine 1909; r. 1946	d.m.	45 09 53.417 67 24 35.871	199 46 43.6 235 43 42.7	19 46 50.4 55 43 54.9	Pole Abutment	611.9 452.9	2.786680 2.655985							
East Abutment New Brunswick 1910; r. 1946	d.m.	45 09 59.682 67 24 16.522	65 24 37.4 141 54 45.6	245 24 23.7 321 54 44.1	Telline Abutment	464.7 78.3	2.667183 1.893747							
Ref. Mon. 193 New Brunswick 1918; r. 1946	d.m.	45 09 59.761 67 24 16.387	50 15 16	230 15 16	East Abutment	3.83	0.583006							
Ref. Mon. 194 Maine 1918; r. 1946	d.m.	45 10 01.664 67 24 18.759	230 55 14 318 35 27	50 55 14 138 35 29	Abutment Ref. Mon. 193	0.71 78.3	9.851372 1.893794							
Mill Maine 1918; r. 1939	d.m.	45 10 20.133 67 24 10.918	334 42 57	154 42 57	Mill ecc.	0.40	9.597959							
New New Brunswick 1918; r. 1939	d.m.	45 10 42.954 67 23 52.195	63 37 48	243 37 48	New ecc.	2.40	0.381093							



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International boundary line St. Croix River, Woodland to Calais - Third Order State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Suburb Maine 1909; r. 1946	d.m.	45 09 42.647 67 24 39.011	184 59 01.9 191 39 23.7 196 52 54.8 217 00 26.1 223 02 35.4 287 24 20.2 326 13 55.7	4 59 15.1 11 39 25.9 16 53 03.8 37 00 40.5 43 02 51.3 107 26 06.5 146 14 53.9	Middlemiss Telline Pole Abutment East Abutment Murchie Anderson	4686.9 339.5 949.2 735.7 719.6 3433.8 3229.3	3.670885 2.530825 2.977356 2.866712 2.857075 3.535773 3.509102
Woodland Pulp Mill, new chimney Maine 1909; r. 1918	d.	45 09 29.001 67 24 15.126	128 55 17.9 148 59 27.4 175 32 01.9	308 55 01.0 328 59 12.7 355 31 59.4	Suburb Telline Abutment	670.5 879.4 1011.8	2.826421 2.944203 3.005103
Woodland Maine 1908; r. 1939	d.m.	45 09 31.048 67 24 11.331	120 38 21.4 142 11 10.0 284 03 52.7 332 54 31.6	300 38 01.8 322 10 52.6 104 05 19.4 152 55 10.2	Suburb Telline Murchie Anderson	702.6 874.1 2754.5 2613.3	2.846739 2.941578 3.440039 3.417184
Casey's Barn Cupola, finial New Brunswick 1908; l. 1946	l.	45 09 15.537 67 22 41.467	22 42 48.5 108 03 58.5 285 04 59.7	202 42 23.4 288 02 35.2 105 05 22.7	Anderson Suburb Murchie	2003.1 2700.4 734.2	3.301702 3.431429 2.865792
Woodland Water Tank, finial Maine 1909; r. 1924	d.	45 09 26.060 67 24 19.135	139 42 34.8 227 54 20.5 280 16 34.3 327 56 30.3	319 42 20.7 47 54 26.0 100 18 06.5 147 57 14.4	Suburb Woodland Murchie Anderson	671.3 229.7 2888.7 2563.4	2.826924 2.361176 3.460705 3.408822
Cement New Brunswick 1910; r. 1939	d.m.	45 09 38.682 67 24 08.625	14 04 54.1 30 30 24.2 100 27 14.2	194 04 52.1 210 30 16.7 280 26 52.6	Woodland Woodland water tank finial Suburb	242.9 452.2 674.9	2.385514 2.655358 2.829216
Ref. Mon. 196 Maine 1918; r. 1939	d.m.	45 09 34.011 67 24 28.658	251 45 30 319 43 03	71 45 44 139 43 10	Cement Woodland water tank finial	460.7 321.7	2.663423 2.507478
Ref. Mon. 195 New Brunswick 1918; r. 1939	d.m.	45 09 38.621 67 24 08.509	30 54 20 72 04 59 126 41 24	210 54 13 252 04 45 306 41 24	Woodland wtr. tank finial Ref. Mon. 196 Cement	451.9 462.5 3.16	2.655041 2.665141 0.500315
Digester Building, S. end gable Maine 1908	n.d.	45 09 29.394 67 24 14.582	234 16 15 282 42 11	54 16 17 102 43 40	Woodland Murchie	87.4 2811.7	1.941742 3.448972
Digester Building, N. end gable Maine 1908	n.d.	45 09 30.087 67 24 14.826	248 45 40 283 06 11	68 45 42 103 07 40	Woodland Murchie	81.9 2821.7	1.913293 3.450513
Hat New Brunswick 1921	n.d.	45 09 32.904 67 24 08.310	48 13 20 178 35 20	228 13 13 358 35 20	Woodland wtr. tank finial Ref. Mon. 195	317.1 176.5	2.501162 2.246844
Hat (1924) New Brunswick 1924	n.d.	45 09 33.141 67 24 08.318	47 13 40 178 35 35	227 13 33 358 35 35	Woodland wtr. tank finial Ref. Mon. 195	321.9 169.2	2.507661 2.228449
T.P. 1006 ecc. New Brunswick 1924	n.d.	45 09 34.417 67 24 11.649	207 50 48 298 26 38	27 50 50 118 26 40	Ref. Mon. 195 Hat (1924)	146.8 82.7	2.166652 1.917502
T.P. 1006 Maine & N.B. 1924; n.r. 1939	d.m.	45 09 34.444 67 24 11.726	208 35 16 296 25 48	28 35 18 116 25 48	Ref. Mon. 195 T.P. 1006 ecc.	146.8 1.90	2.166827 0.278754

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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Upper Base New Brunswick 1910	d.m.	45 09 35.245 67 24 09.398	18 03 10.6 189 02 32.2	198 03 09.2 9 02 32.8	Woodland Cement	136.3 107.4	2.134354 2.031146
Spoilbank Maine 1910	d.m.	45 09 24.819 67 23 57.151	121 50 13.8 140 16 13.0	301 50 03.7 320 16 04.3	Woodland Upper Base	364.6 418.5	2.561794 2.621709
Spoilbank tablet Maine 1910; n.r. 1939	d.m.	45 09 25.041 67 23 55.512	79 11 11	259 11 10	Spoilbank	36.46	1.561811
Lower Base New Brunswick 1910; n.r. 1939	d.m.	45 09 29.125 67 23 50.690	39 52 15 46 42 50.1 114 48 52.4	219 52 11 226 42 45.5 294 48 39.1	Spoilbank Tablet Spoilbank Upper Base	164.3 193.9 450.2	2.215619 2.287536 2.653398
Crossing New Brunswick 1910; r. 1939	d.m.	45 09 20.115 67 23 37.527	108 42 57.7 134 03 07.8	288 42 43.8 314 02 58.5	Spoilbank Lower Base	452.6 400.0	2.655695 2.602098
Nearby Maine 1910; r. 1946	d.m.	45 09 16.106 67 23 41.477	128 09 12.1 214 52 54.2	308 09 01.0 34 52 57.0	Spoilbank Crossing	435.4 150.9	2.638881 2.178571
Wapsaconhagan Maine 1910; r. 1946	d.m.	45 09 14.379 67 23 37.120	119 15 59.5 177 07 35.1	299 15 56.4 357 07 34.8	Nearby Crossing	109.1 177.3	2.037782 2.248726
Pond New Brunswick 1910; r. 1939	d.m.	45 09 15.537 67 23 17.333	85 16 26.1 107 46 06.7	265 16 12.1 287 45 52.4	Wapsaconhagan Crossing	433.7 463.2	2.637179 2.665757
Gauge Maine 1910; r. 1946	d.m.	45 09 09.604 67 23 15.654	107 27 12.4 168 40 36.2 256 12 57.8	287 26 57.2 348 40 35.0 76 13 22.0	Wapsaconhagan Pond Casey's Barn Cupola, finial	491.5 186.8 768.9	2.691540 2.271348 2.885886
Curve New Brunswick 1910; r. 1939	d.m.	45 09 09.409 67 22 52.401	90 40 56.1 109 09 28.9	270 40 39.6 289 09 11.2	Gauge Pond	508.0 576.5	2.705845 2.760824
Lovering Maine 1910; r. 1946	d.m.	45 09 04.834 67 23 00.403	113 50 45.6 231 03 56.4 231 22 56.9	293 50 34.8 51 04 02.1 51 23 10.3	Gauge Curve Casey's Barn Cupola, finial	364.2 224.7 529.4	2.561383 2.351636 2.723799
Irving Maine 1910; r. 1939	d.m.	45 08 59.039 67 22 47.291	121 59 17.5 160 46 30.5	301 59 08.2 340 46 26.9	Lovering Curve	337.7 339.0	2.528554 2.530227
Ahearn Maine 1910; l. 1918	l.	45 08 50.762 67 22 48.620	149 21 09.9 186 28 59.5	329 21 01.5 6 29 00.4	Lovering Irving	505.0 257.2	2.703253 2.410213
Curran Maine 1918	n.d.	45 08 55.442 67 22 50.731	143 55 05.8 198 04 02.2	323 54 59.0 18 04 08.8	Lovering Casey's Barn cupola, finial	358.8 652.5	2.554811 2.814599
Ref. Mon. 198 Maine 1912; r. 1946	d.m.	45 08 50.767 67 22 48.610	149 19 18.8 162 12 02.5 191 32 02.2	329 19 10.4 342 12 00.9 11 32 07.2	Lovering Curran Casey's Barn Cupola, finial	504.9 151.6 780.4	2.703227 2.180602 2.892330
Ref. Mon. 197 New Brunswick 1918; r. 1946	d.m.	45 09 00.263 67 22 41.309	28 33 05.8 54 07 56.7 108 41 40.3	208 33 00.7 234 07 50.0 288 41 26.8	Ref. Mon. 198 Curran Lovering	333.7 254.0 440.3	2.523370 2.404813 2.643787



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International boundary line St. Croix River, Woodland to Calais - Third Order State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Ref. Mon. 197 ecc. New Brunswick 1924	n.d.	45 08 59.769 67 22 41.689	28 33 05.6 110 55 59.9 208 33 05.6	208 33 00.7 290 55 46.6 28 33 05.8	Ref. Mon. 198 Lovering Ref. Mon. 197	316.4 437.7 17.4	2.500176 2.641178 1.239426
T.S. 1-W New Brunswick 1924	n.d.	45 08 45.417 67 22 25.220	140 55 18	320 55 06	Ref. Mon. 197 ecc.	570.7	2.756432
T.S. 2-W New Brunswick 1924	n.d.	45 08 38.938 67 22 19.464	147 50 32	327 50 28	T.S. 1-W	236.3	2.373414
T.S. 3-W New Brunswick 1924	n.d.	45 08 34.307 67 22 12.660	133 52 55	313 52 50	T.S. 2-W	206.2	2.314392
T.S. 4-W New Brunswick 1924	n.d.	45 08 32.758 67 22 14.716	223 12 39	43 12 40	T.S. 3-W	65.6	1.816900
Secrip Maine 1909; r. 1946	d.m.	45 08 24.860 67 22 10.251	158 11 47	338 11 44	T.S. 4-W	262.6	2.419312
Head ecc. New Brunswick 1924	n.d.	45 08 26.579 67 22 06.965	53 32 07	233 32 05	Secrip	89.3	1.950759
A New Brunswick 1924	n.d.	45 08 30.750 67 22 12.729	316 18 23 343 40 25	136 18 27 163 40 27	Head ecc. Secrip	182.3 192.7	2.260892 2.284827
Head New Brunswick 1924; r. 1939	d.m.	45 08 26.878 67 22 07.018	352 50 09	172 50 09	Head ecc.	9.31	0.969043
Midrip Maine 1909; r. 1935	d.m.	45 08 19.611 67 22 00.866	128 19 03 148 13 24	308 18 56 328 13 19	Secrip Head ecc.	261.3 253.0	2.417217 2.403167
Pine tree on lower end of island below Hanson Is.; N.B. 1908	n.d.	45 08 47.563 67 22 33.040	320 49 49 324 36 31	140 50 12 144 36 47	Midrip Secrip	1113.0 859.7	3.046485 2.934351
Mohannas Ridge, house chimney New Brunswick 1907	n.d.	45 08 52.638 67 21 51.723	11 05 08 25 16 14	191 05 02 205 16 01	Midrip Secrip	1038.9 948.3	3.016593 2.976928
Ref. Mon. 199 New Brunswick 1918; r. 1946	d.m.	45 08 21.565 67 21 58.756	37 22 58 130 47 30	217 22 57 310 47 24	Midrip Head ecc.	75.9 236.9	1.880437 2.374549
Bailey Maine 1909; r. 1946	d.m.	45 08 20.321 67 22 05.952	63 14 59 146 09 47 256 16 07 281 09 32	243 14 19 326 09 44 76 16 12 101 09 36	Rips Secrip Ref. Mon. 199 Midrip	330.2 168.7 161.8 113.3	2.518779 2.227081 2.209111 2.054091
Ref. Mon. 200 Maine 1918; r. 1946	d.m.	45 08 20.309 67 22 05.962	210 37 57 256 09 50	30 37 58 76 09 55	Bailey Ref. Mon. 199	0.41 162.1	9.617555 2.209888
Thrip Maine 1946	d.m.	45 08 21.315 67 22 10.238	48 17 30 179 51 10 288 08 50	228 17 23 359 51 10 108 08 53	Rips Secrip Bailey	269.5 109.4 98.6	2.430595 2.039095 1.993669
Rips R.M. Maine 1946	d.m.	45 08 16.122 67 22 21.108	297 38 31	117 38 32	Rips	40.97	1.612512

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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Y Maine 1909; 1. 1946	d.	45 08 17.279 67 22 18.879	218 51 08 251 36 22	38 51 14 71 36 31	Secrip Bailey	300.5 297.7	2.477883 2.473733
Smith Maine 1909; 1. 1946	d.	45 08 13.856 67 22 17.238	161 15 02 231 00 49	341 15 01 51 00 57	Y Bailey	111.6 317.2	2.047605 2.501397
Base Maine 1909; 1. 1946	d.	45 08 14.143 67 22 10.397	86 36 39 206 59 14	266 36 34 26 59 17	Smith Bailey	149.73 214.0	2.175312 2.330498
Do New Brunswick 1921	n.d.	45 08 27.449 67 22 08.498	310 28 17 325 25 28	130 28 24 145 25 34	Ref.Mon. 199 Midrip	279.8 293.9	2.446870 2.468139
Wal Maine 1921	n.d.	45 08 25.918 67 22 11.395	233 15 23 295 56 45	53 15 25 115 56 54	Do Ref.Mon. 199	79.0 307.1	1.897529 2.487293
B-W New Brunswick 1924	n.d.	45 08 17.845 67 21 53.212	108 03 13 133 28 28	288 03 08 313 28 24	Midrip Ref.Mon. 199	175.9 166.9	2.245254 2.222512
C-W Maine 1924	n.d.	45 08 12.535 67 21 55.490	165 38 29 196 53 36	345 38 27 16 53 38	Ref.Mon. 199 B-W	287.7 171.3	2.458996 2.233745
D-W Maine 1924	n.d.	45 08 09.662 67 21 52.513	143 44 46 176 32 25	323 44 44 356 32 25	C-W B-W	110.0 253.1	2.041394 2.403238
Louder New Brunswick 1924; r. 1939	d.m.	45 08 12.767 67 21 45.987	56 05 29 134 47 45	236 05 24 314 47 40	D-W B-W	171.8 222.5	2.235095 2.347275
E-W Maine 1924	n.d.	45 08 05.436 67 21 39.736	115 02 48 148 53 21	295 02 39 328 53 17	D-W Louder	308.2 264.3	2.488791 2.422166
F-W New Brunswick 1924	n.d.	45 08 08.316 67 21 36.006	42 30 37 96 34 20	222 30 34 276 34 08	E-W D-W	120.6 363.1	2.081409 2.560001
G-W New Brunswick 1924	n.d.	45 08 05.610 67 21 31.465	88 17 48 130 05 28	268 17 42 310 05 25	E-W F-W	180.8 129.7	2.257247 2.112993
Clark Maine 1910; r. 1946	d.m.	45 08 00.352 67 21 33.634	168 05 50 196 16 55	348 05 48 16 16 56	F-W G-W	251.3 169.1	2.400129 2.228165
Ringbolt Maine 1910; r. 1946	d.m.	45 07 47.926 67 21 21.988	146 26 21 159 13 44	326 26 13 339 13 37	Clark G-W	460.3 583.9	2.663057 2.766304
Ephraim New Brunswick 1910	l.	45 07 57.974 67 21 23.332	108 03 44 354 35 32	288 03 37 174 35 33	Clark Ringbolt	236.8 311.6	2.374348 2.493532
Hall New Brunswick 1910; r. 1939	d.m.	45 07 41.535 67 20 52.649	107 06 29 127 07 25	287 06 08 307 07 03	Ringbolt Ephraim	670.8 840.9	2.826611 2.924741
Ephraim New Brunswick 1924; r. 1946	d.m.	45 07 57.972 67 21 23.342	108 05 24 354 32 59	288 05 17 174 33 00	Clark Ringbolt	236.6 311.5	2.373967 2.493498
Malloy Maine 1910; r. 1946	d.m.	45 07 41.235 67 21 08.754	125 32 06 268 29 37	305 31 56 88 29 48	Ringbolt Hall	355.4 352.1	2.550724 2.546619



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STATION		LATITUDE AND LONGITUDE		AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (MEYERS)	LOGARITHM
Lawler	d.m.	45 07	36.715	121	38	19	301	38	12	Malloy	266.0	2.424917
Maine 1910; r. 1946		67 20	58.390	220	08	15	40	08	19	Hall	194.6	2.289189
Ref. Mon. 201	d.m.	45 07	47.234	309	02	28	129	02	35	Hall	279.3	2.446122
New Brunswick 1918; r. 1946		67 21	02.577	344	15	49	164	15	52	Lawler	337.4	2.528120
Ref. Mon. 202	d.m.	45 07	44.561	187	58	00	7	58	00	Ref. Mon. 201	83.3	1.920774
Maine 1918; r. 1946		67 21	03.105	292	14	14	112	14	21	Hall	246.9	2.392460
				336	57	10	156	57	13	Lawler	263.2	2.420326
Stillman	d.m.	45 07	37.666	83	29	55	263	29	47	Lawler	259.3	2.413771
New Brunswick 1910		67 20	46.602	132	06	15	312	06	11	Hall	178.1	2.250708
Rockfield	d.m.	45 07	24.048	151	53	31	331	53	25	Lawler	443.3	2.646718
Maine 1910		67 20	48.832	186	36	52	6	36	54	Stillman	423.2	2.626559
Interval	d.m.	45 07	27.148	75	13	35	255	13	23	Rockfield	375.2	2.574301
Maine 1910; r. 1946		67 20	32.231	135	57	20	315	57	10	Stillman	451.7	2.654885
Waters	d.m.	45 07	32.087	18	58	21	198	58	19	Interval	161.3	2.207502
New Brunswick 1910; r. 1946		67 20	29.833	59	08	09	239	07	55	Rockfield	483.8	2.684631
				102	53	42	282	53	22	Lawler	640.2	2.806341
				115	10	14	295	10	02	Stillman	404.9	2.607375
Haywood	d.m.	45 07	31.412	55	02	20	235	02	14	Interval	229.7	2.361254
Maine 1910; r. 1946		67 20	23.616	98	43	13	278	43	09	Waters	137.5	2.138145
Will	d.m.	45 07	32.772	75	58	33	255	58	30	Waters	87.3	1.940843
New Brunswick 1910; r. 1939		67 20	25.959	309	21	16	129	21	17	Haywood	66.2	1.820930
Ref. Mon. 204	d.m.	45 07	31.124	135	42	38	315	42	37	Will	71.1	1.851753
Maine 1918; r. 1946		67 20	23.688	189	57	27	9	57	27	Haywood	9.03	0.955748
Ref. Mon. 203	d.m.	45 07	32.904	290	29	51	110	29	52	Will	11.64	1.065966
New Brunswick 1918; r. 1946		67 20	26.458	312	13	59	132	14	01	Ref. Mon. 204	81.8	1.912557
Frostfield	d.m.	45 07	40.058	42	56	43	222	56	34	Haywood	364.6	2.561813
Maine 1910; r. 1946		67 20	12.251	53	06	19	233	06	09	Will	374.6	2.573585
Cove	d.m.	45 07	43.621	13	13	46	193	13	45	Frostfield	113.0	2.053037
New Brunswick 1910; r. 1946		67 20	11.068	44	10	53	224	10	42	Will	467.0	2.669295
Doten	d.m.	45 07	41.890	84	33	54	264	33	35	Frostfield	596.7	2.775771
Maine 1909; r. 1946		67 19	45.069	95	22	34	275	22	16	Cove	570.7	2.756394
Abbott	d.m.	45 07	51.321	50	19	43	230	19	34	Cove	372.3	2.570919
New Brunswick 1910; r. 1946		67 19	57.954	315	57	15.2	135	57	24.3	Doten	405.0	2.607486
Heater	d.m.	45 07	54.322	44	25	43.2	224	25	31.0	Doten	537.4	2.730312
New Brunswick 1910; r. 1939		67 19	27.854	81	59	04.1	261	58	42.8	Abbott	664.3	2.822333
				245	59	55.4	66	00	16.6	Baring School, cupola	713.6	2.853477

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International boundary line St. Croix River, Woodland to Calais - Third Order State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
Pratt Maine 1909; r. 1946	d.m.	45 07 48.429 67 19 24.760	65 32 38.0 97 01 09.6 159 36 51.2 231 03 29.0			245 32 23.6 277 00 46.1 339 36 49.0 51 03 48.0			Doten Abbott Heater Baring School, cupola	487.6 730.8 194.1 751.3	2.688028 2.863828 2.287995 2.875798
Ref. Mon. 206 Maine 1918; r. 1946	d.m.	45 07 49.529 67 19 26.013	164 47 39 234 22 51 321 06 23			344 47 38 54 23 11 141 06 24			Heater Baring School, cupola Pratt	153.3 752.5 43.6	2.185683 2.876507 1.639678
Ref. Mon. 205 New Brunswick 1918; r. 1946	d.m.	45 07 54.567 67 19 28.680	292 41 26 339 27 26			112 41 27 159 27 28			Heater Ref. Mon. 206	19.6 166.1	1.291709 2.220353
Poppelmill Maine 1909; r. 1955	d.m.	45 08 01.754 67 19 06.712	43 47 39.3 63 35 30.2 252 14 55.6			223 47 26.5 243 35 15.2 72 15 01.8			Pratt Heater Baring School, cupola	569.9 515.8 199.5	2.755777 2.712493 2.299859
English New Brunswick 1910; n.r. 1939	d.m.	45 08 03.456 67 19 24.244	1 23 31.1 15 37 44.8 235 23 25.8 269 10 10.6 277 48 21.6			181 23 30.7 195 37 42.2 55 25 15.7 89 10 29.2 97 48 34.0			Pratt Heater Maguerrewoc Baring School, cupola Poppelmill	464.0 292.8 4113.5 573.1 386.7	2.666545 2.466553 3.614212 2.758243 2.587349
Rock Maine 1909; r. 1955	d.m.	45 07 26.239 67 19 32.939	189 23 23.0 213 23 59.9 225 43 52.4			9 23 29.2 33 24 24.7 45 45 48.5			English Baring School, cupola Maguerrewoc	1164.5 1386.1 4993.2	3.066138 3.141807 3.698380
S.W. corner, R.R. girder Maine 1909	n.d.	45 08 03.752 67 19 11.068	32 18 46 302 56 45			212 18 36 122 56 48			Pratt Poppelmill	559.7 113.4	2.747973 2.054736
George=Ref. Mon. 207 New Brunswick 1910; r. 1955	d.m.	45 08 14.664 67 19 09.363	43 13 26.8 323 43 13.2			223 13 16.2 143 43 21.2			English Baring School, cupola	474.8 418.9	2.676516 2.622128
Phinney Maine 1909; r. 1955	d.m.	45 08 13.055 67 19 00.093	60 41 16.8 103 46 44.3 351 03 30.6			240 40 59.6 283 46 37.7 171 03 32.0			English George=Ref. Mon. 207 Baring School, cupola	605.2 208.6 291.6	2.781918 2.319223 2.464763
Ref. Mon. 208 Maine 1918; r. 1955	d.m.	45 08 11.894 67 19 03.432	123 25 06 243 50 06			303 25 02 63 50 08			George=Ref. Mon. 207 Phinney	155.3 81.3	2.191086 1.910011
South Bar Maine 1910; r. 1955	d.m.	45 08 10.845 67 19 03.258	131 28 18.6 225 23 19.5			311 28 14.2 45 23 21.7			George=Ref. Mon. 207 Phinney	178.0 97.1	2.250491 1.987440
Chain Rock Maine 1909; r. 1955	d.m.	45 08 24.538 67 19 09.167	0 48 19.7 330 46 51.5			180 48 19.6 150 46 58.0			George=Ref. Mon. 207 Phinney	304.8 406.2	2.484086 2.608705
Murphy New Brunswick 1910; r. 1955	d.m.	45 08 23.080 67 19 12.257	236 18 21.5 319 20 31.8 346 19 15.5			56 18 23.7 139 20 40.4 166 19 17.6			Chain Rock Phinney George=Ref. Mon. 207	81.1 407.9 267.4	1.909269 2.610596 2.427142
Towers New Brunswick 1910; r. 1955	d.m.	45 08 26.764 67 19 14.405	300 59 02.2 337 34 47.7			120 59 05.9 157 34 49.2			Chain Rock Murphy	133.5 123.0	2.125437 2.090031
Ref. Mon. 209 New Brunswick 1910; r. 1955	d.m.	45 08 25.644 67 19 12.257	150 36 16 225 23 19.5			330 36 15 122 56 48			Towers	39.7	1.598794



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International boundary line St. Croix River, Woodland to Calais - Third Order

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Province New Brunswick

STATION		LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
		°	'	"	°	'	"	°	'	"			
Ref. Mon. 210	d.m.	45	08	24.570	87	25	47	267	25	46	Chain Rock	21.78	1.338012
Maine 1918; r. 1955		67	19	08.171	105	51	33	285	51	29	Ref. Mon. 209	121.3	2.083954
Sawdust Island	d.m.	45	08	29.428	8	02	12.0	188	02	11.1	Murphy	197.9	2.296471
Maine 1909; r. 1921		67	19	10.991	42	12	41.9	222	12	39.5	Towers	111.0	2.045413
					345	12	47.7	165	12	49.0	Chain Rock	156.1	2.193463
Bartlett	d.m.	45	08	30.350	275	27	52.5	95	28	02.2	Sawdust Island	298.9	2.475540
New Brunswick 1910; r. 1955		67	19	24.611	296	24	15.3	116	24	22.6	Towers	248.9	2.396079
Butler	d.m.	45	08	45.090	323	47	01.5	143	47	13.0	Sawdust Island	599.3	2.777639
New Brunswick 1910; r. 1955		67	19	27.198	333	42	32.9	153	42	42.0	Towers	631.0	2.800039
					352	55	06.0	172	55	07.8	Bartlett	458.5	2.661377
Haw Point	d.m.	45	08	43.493	38	36	13.2	218	35	59.8	Towers	660.8	2.820094
New Brunswick 1909; r. 1955		67	18	55.534	57	26	09.5	237	25	48.8	Bartlett	753.8	2.877237
					94	04	47.0	274	04	24.5	Butler	693.5	2.841050
Canal	d.m.	45	08	31.805	83	56	10.9	263	55	57.1	Bartlett	425.2	2.628585
Maine 1909; r. 1955		67	19	05.258	130	33	09.6	310	32	54.0	Butler	630.8	2.799911
					210	29	19.4	30	29	26.3	Haw Point	418.7	2.621914
Russell	d.m.	45	08	33.956	83	12	28.6	263	12	10.5	Canal	561.2	2.749116
Maine 1909; r. 1955		67	18	39.752	108	20	59.7	288	20	26.0	Butler	1092.1	3.038248
					130	29	42.8	310	29	31.6	Haw Point	453.4	2.656474
Squirrel Point	d.m.	45	08	42.250	56	23	42.7	236	23	30.2	Russell	462.6	2.665215
New Brunswick 1909; r. 1955		67	18	22.117	93	00	42.0	273	00	18.3	Haw Point	731.1	2.863962
Rideout	d.m.	45	08	28.202	105	12	54.7	285	12	33.5	Russell	676.9	2.830493
Maine 1909; r. 1955		67	18	09.858	115	19	07.7	295	18	35.3	Haw Point	1103.9	3.042939
					148	18	04.6	328	17	55.9	Squirrel Point	509.7	2.707307
Birch Hill	d.m.	45	08	48.232	16	42	59.4	196	42	53.4	Rideout	645.6	2.809962
New Brunswick 1909; r. 1955		67	18	01.359	67	50	44.3	247	50	29.6	Squirrel Point	489.7	2.689889
Stoneyfield	d.m.	45	08	32.099	81	54	32.0	261	54	04.6	Rideout	854.3	2.931594
Maine 1909; r. 1955		67	17	31.148	104	43	01.3	284	40	15.1	Mohannas	5295.6	3.723916
					105	43	18.7	285	42	42.6	Squirrel Point	1156.8	3.063259
					127	02	21.9	307	02	00.5	Birch Hill	826.8	2.917422
					151	57	05.2	331	56	10.2	Todd Mountain	3599.4	3.556234
					212	14	08.0	32	14	37.7	Maguerrewoc	1715.8	3.234461
Junction	d.m.	45	08	56.136	39	42	06.5	219	41	43.3	Rideout	1120.7	3.049507
Maine 1909; r. 1955		67	17	37.091	65	17	19.7	245	17	02.5	Birch Hill	583.6	2.766128
					235	49	59.0	55	50	32.9	Maguerrewoc	1263.0	3.101402
					350	04	29.7	170	04	33.9	Stoneyfield	753.3	2.876967
Ref. Mon. 211	d.m.	45	08	43.317	31	37	52	211	37	46	Russell	339.4	2.530730
New Brunswick 1918; r. 1955		67	18	31.605	314	28	47	134	29	02	Rideout	665.9	2.823422
Ref. Mon. 212	d.m.	45	08	33.960	211	39	55	31	40	01	Ref. Mon. 211	339.4	2.530717
Maine 1918; r. 1955		67	18	39.760	304	27	36	124	27	36	Russell	0.21	9.328380

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STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Balcolm d.m. New Brunswick 1909; r. 1939	45 09 05.971 67 18 01.188	0 23 24.8 154 03 38.0 255 31 10.4 299 58 16.9 327 52 59.9	180 23 24.7 334 03 04.3 75 32 01.4 119 58 34.0 147 53 21.2	Birch Hill Todd Mountain Maguerrewoc Junction Stoneyfield	547.6 2369.6 1622.9 607.7 1234.5	2.738475 3.374680 3.210299 2.783680 3.091496
Campbell d.m. Maine 1909; r. 1955	45 09 19.255 67 17 35.943	53 21 56.6 137 18 13.8 270 14 48.5 355 53 01.3	233 21 38.7 317 17 22.2 90 15 21.6 175 53 04.7	Balcolm Todd Mountain Maguerrewoc Stoneyfield	687.2 2341.5 1019.9 1459.5	2.837098 3.369498 3.008577 3.164200
Pineo d.m. Maine 1909; r. 1955	45 09 23.291 67 17 51.031	141 45 03.7 275 27 25.9 340 02 08.1 344 37 48.3	321 44 22.8 95 28 09.7 160 02 18.0 164 38 02.4	Todd Mountain Maguerrewoc Junction Stoneyfield	2032.6 1355.6 891.9 1638.9	3.308053 3.132143 2.950306 3.214557
White d.m. New Brunswick 1909; r. 1955	45 09 46.211 67 18 14.374	139 53 18.7 294 13 06.2 346 56 44.5	319 52 54.4 114 14 06.6 166 56 53.9	Todd Mountain Maguerrewoc Balcolm	1161.9 2038.8 1275.2	3.065169 3.309380 3.105577
Kelley d.m. Maine 1909; r. 1946	45 09 49.195 67 17 57.022	76 20 22.9 125 14 24.4 302 05 54.6	256 20 10.6 305 13 47.8 122 06 42.7	White Todd Mountain Maguerrewoc	390.0 1380.5 1747.5	2.591072 3.140035 3.242415
Stubbs d.m. Maine 1909; r. 1955	45 10 07.932 67 17 49.232	16 23 25.0 39 18 54.8 99 32 36.8	196 23 19.5 219 18 37.0 279 31 54.7	Kelley White Todd Mountain	602.9 866.7 1315.8	2.780261 2.937853 3.119200
Milltown, N.B., Congregational Church spire; N.B. 1909; r. 1955 d.	45 10 23.091 67 17 49.599	6 04 11.9 8 48 25.4 25 25 14.8 79 02 13.7 351 23 34.2 353 17 23.7	186 04 03.7 188 48 20.1 205 24 57.2 259 01 31.8 171 23 43.9 173 17 36.8	Balcolm Kelley White Todd Mountain Campbell Stoneyfield	2394.2 1058.9 1260.5 1313.6 1993.1 3450.0	3.379155 3.024844 3.100553 3.118456 3.299529 3.537820
Carl n.d. Maine 1918	45 09 41.696 67 18 08.442	137 05 23 197 50 52	317 05 18 17 51 05	White Milltown, N.B., Congr. church spire	190.3 1342.5	2.279429 3.127916
Ref. Mon. 213 d.m. New Brunswick 1918; r. 1955	45 09 38.446 67 18 13.957	201 06 10 230 12 20	21 06 27 50 12 24	Milltown, N.B., Congr. church spire Carl	1477.3 156.8	3.169475 2.195290
Ref. Mon. 214 d.m. Maine 1918; r. 1955	45 09 37.990 67 18 06.906	95 13 36 147 16 20 163 39 29	275 13 31 327 16 14 343 39 28	Ref. Mon. 213 White Carl	154.7 301.7 119.2	2.189376 2.479579 2.076451
Milltown public school brick chimney; N.B. 1909 n.d.	45 10 10.395 67 17 47.450	70 28 54 353 18 20	250 26 19 173 18 31	Mohannas Stoneyfield	5056.3 3055.2	3.703837 3.485046
Milltown waterworks chimney d. Maine 1887; r. 1935	45 10 10.378 67 17 47.435	70 29 18 321 13 55	250 26 43 141 14 36	Mohannas Maguerrewoc	5056.5 2029.7	3.703850 3.307438



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STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
Milltown grammar school cupola Maine 1887; r. 1935 d.	45 10 08.894	67 17 13.825	30 30 36	73 22 25	210 29 22	253 19 26	Baring school, cupola Mohannas	4484.6	3.651724			
Milltown cottonmill chimney New Brunswick 1955 d.	45 10 29.166	67 17 36.237	21 42 17	65 38 27	201 41 19	245 35 44	Baring school, cupola Mohannas	4832.2	3.684146			
McKay's barn, finial on cupola Maine 1909 n.d.	45 08 23.253	67 18 04.020	112 56 26	140 08 28	292 56 01	320 08 24	Russell Rideout	847.7	2.928252			
Red flag near monument on river bank Maine 1909 n.d.	45 08 31.350	67 18 12.357	97 39 23	330 40 02	277 39 04	150 40 04	Russell Rideout	603.9	2.780970			
Monument on river bank near Rideout Maine 1909 n.d.	45 08 31.270	67 18 12.286	147 51 41	330 44 34	327 51 41	150 44 36	Red flag near mon. Rideout	2.92	0.466073			
RR. crossing post Maine 1909 n.d.	45 08 41.559	67 17 28.873	9 39 37	158 15 04	189 39 35	338 14 58	Stoneyfield Junction	296.2	2.471616			
Switch lever Maine 1909 n.d.	45 08 59.058	67 17 36.525	7 48 18	351 57 56	187 48 18	171 58 00	Junction Stoneyfield	91.0	1.959296			
Right tangent to right corner of pier in stream; Maine 1909 n.d.	45 09 00.647	67 17 41.201	327 11 16	346 00 21	147 11 19	166 00 28	Junction Stoneyfield	165.7	2.219272			
Switch lever Maine 1909 n.d.	45 10 06.874	67 17 51.597	12 14 52	237 41 28	192 14 48	57 41 29	Kelley Stubbs	558.5	2.746996			
Pumping Station Maine 1909; r. 1946 d.m.	45 10 10.516	67 17 48.656	8 57 01.2	96 01 46.2	188 57 00.8	276 01 03.7	Stubbs Todd Mountain	80.8	1.907192			
Church New Brunswick 1909; r. 1946 d.m.	45 10 12.542	67 17 54.462	4 26 09.3	28 08 53.6	184 26 07.5	208 08 39.5	Kelley White	722.9	2.859070			
			93 40 00.6	321 14 56.3	273 39 22.2	141 15 00.0	Todd Mountain Stubbs	921.9	2.964661			
								1185.8	3.074026			
								182.5	2.261174			
Harrison Maine 1909; r. 1922 d.m.	45 10 22.190	67 17 22.746	57 30 31.4	83 15 21.2	237 30 13.0	263 14 20.3	Pumping Station Todd Mountain	670.8	2.826610			
								1889.1	3.276248			
Harrison ecc. Maine 1922 n.d.	45 10 22.312	67 17 22.862	326 08 18.3		146 08 18.4		Harrison	4.57	0.659820			
Ref. Mon. 215 Maine 1912; r. 1955 d.m.	45 10 11.481	67 17 46.574	56 46 29		236 46 28		Pumping Station	54.4	1.735279			
Ref. Mon. 216=Railroad New Brunswick 1909; r. 1955 d.m.	45 10 14.973	67 17 47.030	14 28 24	247 12 36	194 28 23	67 12 53	Pumping Station Harrison	142.1	2.152616			
								575.2	2.759805			
Ref. Mon. 217=Island New Brunswick 1909; r. 1939 d.m.	45 10 15.633	67 17 37.896	56 05 17.7	238 32 26.1	236 05 10.0	58 32 36.8	Pumping Station Harrison	283.1	2.452005			
								387.8	2.588645			
Gristmill New Brunswick 1909 n.d.	45 10 22.545	67 17 34.841	17 21 53.9	272 22 27.5	197 21 51.8	92 22 36.1	Ref. Mon. 217=Island Harrison	223.5	2.349363			
								264.3	2.422157			

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State Maine

Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Ref. Mon. 219=Poorhouse Maine 1909; r. 1955	d.m.	45 10 30.681 67 17 30.801	19 21 04.6 32 03 44.0 326 08 12.7 326 08 12.7	199 21 01.7 212 03 31.3 146 08 18.4 146 08 18.3	Gristmill Pumping Station (comp.) Harrison Harrison ecc.	266.2 734.5 315.7 311.1	2.425228 2.866008 2.499240 2.492940
Ref. Mon. 218 New Brunswick 1922; r. 1946	d.m.	45 10 16.530 67 17 33.760	188 24 46 233 07 35	8 24 48 53 07 42	Ref. Mon. 219=Poorhouse Harrison ecc.	441.6 297.5	2.645037 2.473463
Barton New Brunswick 1909	n.d.	45 10 35.688 67 17 44.539	297 15 36.6 311 12 18.9 332 26 16.1	117 15 46.4 131 12 34.5 152 26 23.0	Ref. Mon. 219=Poorhouse Harrison Gristmill	337.5 632.5 457.7	2.528217 2.801080 2.660566
Fowler Maine 1909; r. 1955	d.m.	45 10 41.610 67 17 31.326	57 38 22.8 358 03 12.1	237 38 13.4 178 03 12.5	Barton Ref. Mon. 219=Poorhouse	341.5 337.6	2.533448 2.528381
Byre New Brunswick 1909; r. 1955	d.m.	45 10 49.430 67 17 35.084	25 57 01.8 341 13 49.9	205 56 55.1 161 13 52.6	Barton Fowler	471.8 255.0	2.673760 2.406503
Ref. Mon. 221 New Brunswick 1922; r. 1955	d.m.	45 10 39.533 67 17 41.823	205 42 56 254 22 26	25 43 01 74 22 34	Byre Fowler	339.1 238.0	2.530333 2.376545
Ref. Mon. 220 New Brunswick 1922; r. 1955	d.m.	45 10 33.825 67 17 39.855	166 17 41 192 12 03	346 17 39 12 12 06	Ref. Mon. 221 Byre	181.4 492.9	2.258619 2.692739
Barton 2 New Brunswick 1922; r. 1955	d.m.	45 10 35.685 67 17 44.533	205 55 48 206 28 47 299 20 38	25 55 55 26 28 49 119 20 43	Byre Ref. Mon. 221 Ref. Mon. 220	471.8 132.7 117.2	2.673771 2.122932 2.068905
Slough Maine 1909; r. 1955	d.m.	45 10 54.862 67 17 24.864	19 01 55.5 53 04 42.2	199 01 50.9 233 04 34.9	Fowler Byre	432.8 279.1	2.636246 2.445811
Union New Brunswick 1909	n.d.	45 10 56.017 67 17 32.283	16 44 24.9 282 24 37.2 357 18 43.2	196 44 22.9 102 24 42.5 177 18 43.9	Byre Slough Fowler	212.3 165.9 445.2	2.327017 2.219762 2.648597
Ref. Mon. 224=Ranch Maine 1909; r. 1955	d.m.	45 11 10.403 67 17 22.133	7 05 02.4 26 31 09.8	187 05 00.5 206 31 02.6	Slough Union	483.5 496.3	2.684353 2.695771
Slope New Brunswick 1909; r. 1955	d.m.	45 11 10.483 67 17 34.006	229 15 42.9 270 32 34.8 337 30 51.2 355 11 09.4	49 16 05.6 90 32 43.2 157 30 57.7 175 11 10.6	International Bridge Ref. Mon. 224=Ranch Slough Union	919.7 259.2 521.9 448.2	2.963665 2.413661 2.717586 2.651429
Ref. Mon. 222 Maine 1922; r. 1955	d.m.	45 10 57.959 67 17 28.769	163 31 46 200 39 50	343 31 43 20 39 55	Slope Ref. Mon. 224=Ranch	403.2 410.6	2.605501 2.613409
Ref. Mon. 223 New Brunswick 1922; r. 1955	d.m.	45 11 04.508 67 17 34.329	235 38 59 329 00 58	55 39 08 149 01 02	Ref. Mon. 224=Ranch Ref. Mon. 222	322.5 235.8	2.508586 2.372609
Ref. Mon. 225=Indian Point Maine 1909; r. 1955	d.m.	45 11 14.965 67 17 21.638	4 23 27.5 21 40 12.8 62 52 00.1 222 44 57.9	184 23 27.1 201 40 05.2 242 51 51.3 42 45 11.8	Ref. Mon. 224=Ranch Union Slope International Bridge	141.3 629.4 303.4 628.9	2.150007 2.798952 2.482030 2.798582



International boundary line St. Croix River, Woodland to Calais - Third Order

State Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Ref. Mon. 226=Lawn d.m. New Brunswick 1909; r. 1955	45 11 23.567 67 17 15.139	28 07 03.3 45 33 43.1 235 26 51.6	208 06 58.7 225 33 29.7 55 27 00.9	Ref. Mon. 225=Indian Pt. Slope International Bridge	301.1 576.9 364.1	2.478677 2.761104 2.539143
Milltown Baptist Church spire d. Maine 1909; r. 1946; 1955	45 10 15.944 67 17 24.504	72 22 40 163 11 01	252 22 23 343 10 57	Pumping Station Ref. Mon. 219=Poorhouse	553.4 475.3	2.743037 2.676944
Eaton's sawmill, N.W. corner New Brunswick 1909 n.d.	45 10 12.884 67 17 40.411	67 53 58 114 02 39	247 53 53 294 02 34	Pumping Station Railroad=Ref. Mon. 216	194.3 158.3	2.288534 2.199376
Pumping station building, N.W. corner Maine 1909 n.d.	45 10 10.409 67 17 48.609	162 36 01 193 45 06	342 36 01 13 45 08	Pumping Station Railroad=Ref. Mon. 216	3.5 145.1	0.538718 2.161527
Customhouse building, SE corner at American end of bridge n.d. Maine 1909	45 10 09.959 67 17 49.136	196 33 11 211 23 47	16 33 12 31 23 47	Railroad=Ref. Mon. 216 Pumping Station	161.5 20.1	2.208104 1.303947
SE pier in bridge, SE corner New Brunswick 1909 n.d.	45 10 12.570 67 17 51.707	234 00 12 313 34 50	54 00 15 133 34 52	Railroad=Ref. Mon. 216 Pumping Station	126.2 92.0	2.101201 1.963631
Point A on waste weir n.d. New Brunswick 1909	45 10 19.926 67 17 35.775	19 16 10 256 11 47	199 16 08 76 11 56	Ref. Mon. 217=Island Harrison	140.4 293.0	2.147271 2.466816
Cross on boulder near railroad New Brunswick 1909 n.d.	45 10 13.288 67 17 47.270	19 28 58 185 45 01	199 28 57 5 45 01	Pumping Station Railroad=Ref. Mon. 216	90.8 52.3	1.958015 1.718265
Eaton's planing mill, N end eave W front New Brunswick 1909 n.d.	45 10 14.669 67 17 43.843	39 20 50 97 41 31	219 20 47 277 41 29	Pumping Station Railroad=Ref. Mon. 216	165.8 70.2	2.219519 1.846453
Eaton's planing mill, W gable n.d. W front New Brunswick 1909	45 10 14.449 67 17 43.543	42 36 19 101 59 25	222 36 15 281 59 22	Pumping Station Railroad=Ref. Mon. 216	165.0 77.8	2.217397 1.891277
Eaton's planing mill, S eaves n.d. W Front New Brunswick 1909	45 10 14.226 67 17 43.244	45 54 04 105 34 45	225 54 00 285 34 42	Pumping Station Railroad=Ref. Mon. 216	164.6 85.8	2.216418 1.933678
Cross on ledge on N side of wall holding main stream in present channel New Brunswick 1909 n.d.	45 10 13.731 67 17 42.400	53 59 54 110 45 53	233 59 50 290 45 50	Pumping Station Railroad=Ref. Mon. 216	168.9 108.1	2.227552 2.033907
Cotton mill, chimney, Milltown d. Lightning rod, New Brunswick 1909	45 10 29.183 67 17 36.195	5 04 26 25 16 37 74 31 58	185 04 25 205 16 28 254 31 07	Ref. Mon. 217=Island Pumping Station Todd Mountain	420.0 637.3 1641.8	2.623203 2.804341 3.215310
Gate House gable n.d. New Brunswick 1909	45 10 30.950 67 17 35.189	274 56 52 314 51 49	94 56 55 134 51 58	Ref. Mon. 219=Poorhouse Harrison	96.2 383.3	1.983030 2.583589
Watertank n.d. Maine 1909	45 10 32.340 67 17 34.660	301 17 12 320 17 47	121 17 15 140 17 56	Ref. Mon. 219=Poorhouse Harrison	98.6 407.3	1.993891 2.609874
SE corner, bridge girder n.d. Maine 1909	45 10 29.649 67 17 31.606	208 52 04 219 57 44	28 52 04 139 57 50	Ref. Mon. 219=Poorhouse Harrison	36.4 300.7	1.561016 2.478199
Bridgestone d.m. Maine 1909	45 11 01.110 67 17 26.191	149 28 35 197 09 42	329 28 30 17 09 45	Slope Ref. Mon. 224=Ranch	335.9 300.3	2.526219 2.477501

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STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
SE corner brick pier below Todd's mill New Brunswick 1909 n.d.	45 11 08.062	67 17 30.466		222 07 30	248 20 07		42 07 36	68 20 13		Ref.Mon.225=Indian Pt. Ref.Mon.224=Ranch	287.3 195.7	2.458373 2.291680
Young's house, finial on cupola New Brunswick 1909 n.d.	45 11 26.492	67 17 15.857		19 31 42	250 35 12		199 31 38	70 35 22		Ref.Mon.225=Indian Pt. International Bridge	377.6 318.8	2.576986 2.503549
Calais, flagstaff on Milltown Church Maine 1908 n.d.	45 10 05.412	67 16 19.614		95 12 30	160 26 17		275 10 44	340 25 47		Todd Mountain International Bridge	3268.2 2768.9	3.514302 3.442299
Stable New Brunswick 1909 n.d.	45 11 24.976	67 17 15.002		3 55 51	241 33 23		183 55 51	61 33 32		Ref.Mon.226=Lawn International Bridge	43.6 320.7	1.639509 2.506155
Vertical iron rod New Brunswick 1909 n.d.	45 10 59.299	67 17 32.865		214 21 06	308 06 02		34 21 14	128 06 08		Ref.Mon.224=Ranch Slough	415.2 222.0	2.618264 2.346321



International boundary line St. Croix River, below Calais Tertiary State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
International Bridge	d.m.	45 11 29.924	45 10 46.5	225 09 30.9	Todd mountain	3280.9	3.515998
Maine 1908; 1909; r. 1955; l. 1957		67 17 02.083	284 15 21.8	104 17 28.8	Sinclair 2	4031.3	3.605450
			312 36 43.3	132 37 01.5	Calais Cong. Ch. spire	763.6	2.882874
Barnard	l.	45 11 24.989	107 23 12.7	287 22 56.9	Internat'l. Bridge	509.9	2.707514
Maine 1909		67 16 39.790	348 19 50.8	168 19 53.2	Calais Cong. Ch. spire	372.3	2.570951
Hospital	d.m.	45 11 30.411	54 11 26.0	234 11 02.0	Calais Cong. Ch. spire	909.3	2.958703
New Brunswick 1909		67 16 02.564	78 21 49.2	258 21 22.8	Barnard	829.7	2.918933
			89 20 32.7	269 19 50.5	Internat'l. Bridge	1299.4	3.113732
Haley	d.m.	45 11 25.106	68 22 20.2	248 21 50.0	Calais Cong. Ch. spire	999.0	2.999573
New Brunswick 1909; r. 1955		67 15 53.802	89 47 51.4	269 47 18.8	Barnard	1003.9	3.001710
			130 34 27.5	310 34 21.3	Hospital	251.8	2.401068
Box	l.	45 11 11.873	93 21 32.3	273 21 10.0	Calais Cong. Ch. spire	687.0	2.836955
Maine 1909		67 16 04.927	185 09 02.1	5 09 03.8	Hospital	574.6	2.759363
			210 43 53.3	30 44 01.2	Haley	475.2	2.676910
Crocker	d.m.	45 11 14.733	83 45 19.2	263 44 53.0	Box	811.2	2.909112
New Brunswick 1909; r. 1955		67 15 27.991	88 09 41.7	268 08 53.2	Calais Cong. Ch. spire	1492.9	3.174042
			119 36 41.3	299 36 23.0	Haley	648.1	2.811639
Young	d.m.	45 10 59.141	125 15 04.7	305 14 45.2	Box	734.5	2.866003
Maine 1909; r. 1955		67 15 37.451	156 47 25.7	336 47 14.1	Haley	905.7	2.956991
			201 57 35.5	21 57 42.2	Crocker	552.3	2.742150
Box 2	d.m.	45 11 12.628	265 04 08.7	85 04 33.2	Crocker	756.5	2.878819
Maine 1946; 1955		67 16 02.516	309 15 17.8	129 15 35.6	Young	706.7	2.849245
Red House	l.	45 11 03.901	75 35 48.8	255 35 26.3	Young	714.7	2.854118
New Brunswick 1909		67 15 05.745	124 33 00.7	304 32 44.9	Crocker	589.6	2.770589
Ref. Mon. 227	d.m.	45 11 29.912	235 26 52	56 26 52	Internat'l. Bridge	0.63	9.8000
Maine 1924; r. 1955; l. 1957		67 17 02.107					
Red House 2	d.m.	45 11 04.288	74 34 30.6	254 34 08.3	Young	713.3	2.853294
New Brunswick 1946; r. 1955		67 15 05.955	97 55 27.8	277 54 23.7	Calais Cong. Ch. spire	1992.3	3.299346
			101 46 57.0	281 46 16.9	Box 2	1261.4	3.100842
			123 49 59.7	303 49 44.1	Crocker	579.1	2.762777
Tannery	d.m.	45 10 50.462	110 44 07.0	290 43 46.6	Young	669.6	2.825834
Maine 1909; r. 1939		67 15 08.767	150 44 44.8	330 44 31.1	Crocker	858.8	2.933888
			189 02 07.9	9 02 10.0	Red House	420.1	2.623328
Stroud	d.m.	45 10 48.260	12 00 45.7	192 00 41.3	Mound	654.6	2.815966
New Brunswick 1909; r. 1955		67 14 45.835	97 44 05.0	277 43 48.8	Tannery	505.3	2.703528
			138 00 22.8	318 00 08.7	Red House	649.7	2.812706

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International boundary line St. Croix River, below Calais Tertiary Maine State Province New Brunswick

STATION		LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
Big Trees	d.m.	45	10	48.172	146	47	14.3	326	46	56.8	Crocker	980.1	2.991262
Maine 1909; r. 1946		67	15	03.400	173	58	53.5	353	58	51.8	Red House	488.3	2.688654
					269	35	28.1	89	35	40.5	Stroud	383.5	2.583787
Big Trees tablet	d.m.	45	10	48.137	188	25	43.5	8	25	43.5	Big Trees	1.104	0.042969
Maine 1909; r. 1955		67	15	03.407	269	25	41.7	89	25	54.1	Stroud	383.7	2.583980
Todd Point	d.m.	45	10	40.832	161	26	46.7	341	26	38.9	Red House	751.2	2.875768
Maine 1909; r. 1946		67	14	54.796	220	28	11.0	40	28	17.3	Stroud	301.5	2.479217
					351	46	10.8	171	46	12.7	Mound	415.2	2.618260
Long Point	d.m.	45	10	31.548	71	42	11.2	251	41	59.0	Mound	396.0	2.597685
New Brunswick 1909; r. 1955		67	14	34.856	123	21	25.5	303	21	11.4	Todd Point	521.3	2.717047
					129	28	18.8	309	27	58.6	Big Trees	807.3	2.907059
					155	04	46.6	335	04	38.8	Stroud	568.9	2.755032
					355	13	25.3	175	13	27.3	Meadow	733.7	2.865500
Hybrown	d.m.	45	10	27.605	6	28	23.4	186	28	21.2	Meadow	613.3	2.787669
New Brunswick 1909; r. 1955		67	14	28.893	89	42	32.0	209	42	15.6	Mound	506.2	2.704319
					133	04	22.0	313	04	17.8	Long Point	178.3	2.251052
					337	15	17.4	157	15	29.1	Knights Point	925.6	2.966408
Donald	d.m.	45	10	03.943	75	38	40.0	255	38	24.4	Knights Point	496.6	2.696005
New Brunswick 1909; r. 1955		67	13	50.477	97	35	54.6	277	35	25.1	Meadow	916.1	2.961944
					131	03	05.2	311	02	37.9	Hybrown	1112.3	3.046236
Narrows 1909	d.m.	45	09	44.020	121	14	33.8	301	14	07.5	Knights Point	948.5	2.977027
Maine 1909; r. 1955		67	13	35.374	151	47	47.9	331	47	37.2	Donald	697.9	2.843794
Hills (=Hills Point)	d.m.	45	09	54.802	1	56	15.5	181	56	15.1	Narrows, 1909	333.0	2.522488
New Brunswick 1909; r. 1955		67	13	34.858	100	57	06.7	280	56	40.0	Knights Point	837.4	2.922953
					129	36	09.7	309	35	58.6	Donald	442.7	2.646104
Pirington	d.m.	45	09	57.095	63	32	31.5	243	32	05.2	Narrows, 1909	905.8	2.957046
Maine 1909; r. 1955		67	12	58.243	84	56	40.1	264	56	14.2	Hills	802.8	2.904594
Pine Point	d.m.	45	10	03.280	45	00	55.7	225	00	36.4	Narrows, 1909	841.1	2.924823
New Brunswick 1909; r. 1955		67	13	08.137	65	50	45.2	245	50	26.3	Hills	639.6	2.805895
					311	28	04.2	131	28	11.2	Pirington	288.3	2.459914
Quarantine	d.m.	45	10	03.051	69	49	42.2	249	49	26.0	Pirington	533.2	2.726857
Maine 1909; r. 1955		67	12	35.328	90	34	08.5	270	33	45.3	Pine Point	716.5	2.855238
Mark Point (=Marks Point Light- house) New Brunswick 1909;		45	10	11.822	42	40	39.2	222	40	25.6	Pirington	618.4	2.791271
r. 1955	d.m.	67	12	39.049	67	27	28.7	247	27	08.1	Pine Point	687.8	2.837457
					343	17	46.4	163	17	49.0	Quarantine	282.7	2.451340
Ledge	d.m.	45	10	23.045	30	58	20.7	210	58	08.7	Quarantine	719.9	2.857250
New Brunswick 1909; r. 1946		67	12	18.365	52	30	47.2	232	30	32.6	Mark Point (L.H.)	569.3	2.755305



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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Brown	d.m.	45 10 07.214	83 50 44.6	263 50 05.9	Quarantine	1197.8	3.078376
New Brunswick 1909; r. 1955		67 11 40.797	96 23 12.2	276 22 30.9	Mark Point	1280.0	3.107217
			120 47 13.2	300 46 46.5	Ledge	954.9	2.979960
Hymurch	d.m.	45 09 51.315	109 40 36.4	289 40 03.5	Quarantine (computed)	1076.2	3.031905
Maine 1909; r. 1955		67 11 48.925	120 02 50.9	300 02 15.4	Mark Point	1264.5	3.101931
			146 43 26.9	326 43 06.0	Ledge	1171.7	3.068807
			199 52 49.7	19 52 55.5	Brown	521.9	2.717610
Miller	d.m.	45 09 44.947	108 04 04.9	288 03 45.3	Hymurch	633.9	2.802020
Maine 1909; r. 1955		67 11 21.331	148 15 59.0	328 15 45.2	Brown	808.2	2.907538
Spruce Point (=Spruce Point L.H.)		45 10 02.075	26 20 58.1	206 20 49.6	Miller	590.0	2.770886
New Brunswick 1909; r. 1955	d.m.	67 11 09.340	68 59 06.4	248 58 38.3	Hymurch	926.1	2.966667
			103 00 23.3	283 00 01.0	Brown	705.1	2.848224
De Monts	d.m.	45 09 30.237	103 04 16.8	283 03 13.2	Miller	2009.3	3.303036
Maine 1909; r. 1955		67 09 51.718	120 06 39.9	300 05 44.8	Spruce Point	1959.6	3.292170
Bluff Head (=Bluff Head Point)		45 09 58.203	70 14 48.5	250 14 11.5	Miller	1210.5	3.082977
New Brunswick 1909; r. 1955	d.m.	67 10 29.167	97 45 41.9	277 45 13.4	Spruce Point	885.5	2.947166
			316 32 41.0	136 33 07.6	De Monts	1189.3	3.075274
Oak Point	d.m.	45 10 04.595	5 26 45.6	185 26 42.3	De Monts	1065.5	3.027534
New Brunswick 1909; r. 1955		67 09 47.089	77 53 11.1	257 52 41.2	Bluff Head	939.9	2.973071
Wiley	d.m.	45 09 13.662	104 15 16.3	284 14 10.9	De Monts	2079.4	3.317942
New Brunswick 1909; r. 1955		67 08 19.447	115 54 03.4	295 52 31.4	Bluff Head	3149.3	3.498216
			129 24 31.3	309 23 29.2	Oak Point	2477.2	3.393957
Warwig	d.m.	45 10 22.273	69 03 18.9	249 02 32.6	Oak Point	1526.2	3.183610
New Brunswick 1909; r. 1955		67 08 41.821	347 00 24.0	167 00 39.8	Wiley	2173.7	3.337200
Eaton	d.m.	45 08 47.826	167 26 35.7	347 26 18.6	Oak Point	2428.0	3.385249
Maine 1909; r. 1955		67 09 22.918	197 06 27.5	17 06 56.7	Warwig	3050.7	3.484396
			240 05 06.9	60 05 51.9	Wiley	1599.6	3.203998
Sand Point	d.m.	45 08 23.751	111 21 56.6	291 20 54.9	Eaton	2040.8	3.309790
New Brunswick 1909; p.l.1946		67 07 55.925	161 33 27.1	341 33 10.4	Wiley	1624.2	3.210640
			355 28 55.4	175 29 02.9	Little Docket	2954.3	3.470452
Wilson	d.m.	45 07 41.976	156 39 51.6	336 39 23.1	Eaton	2214.0	3.345171
Maine 1909; r. 1955		67 08 42.775	190 12 20.8	10 12 37.3	Wiley	2875.9	3.458772
			218 26 21.1	38 26 54.3	Sand Point	1646.5	3.216573
			322 47 35.5	142 48 16.2	Little Docket	2078.4	3.317736
Ref. Mon. 243 (=Rigby)	d.m.	45 07 31.770	34 31 17.2	214 30 47.3	Little Docket	1626.8	3.211341
New Brunswick 1909; r. 1955		67 07 03.103	98 14 25.4	278 13 14.8	Wilson	2200.9	3.342604
			144 16 37.6	324 16 00.2	Sand Point	1976.7	3.295940
			332 34 39.3	152 35 30.3	Apple Point	3418.6	3.533845
			359 52 10.2	179 52 10.4	Lambs Bluff	3082.6	3.488914

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STATION		LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
Dochet Island	d.m.	45	07	43.001	87	56	12.1	267	55	43.7	Wilson	877.2	2.943097
Maine 1909; r. 1946		67	08	02.661	186	40	23.3	6	40	28.1	Sand Point	1266.5	3.102619
					284	54	36.9	104	55	19.1	Ref. Mon. 243(=Rigby)	1347.0	3.129363
					347	18	29.3	167	18	41.6	Little Dochet	1729.4	3.237895
Lowe Point	d.m.	45	07	05.602	159	28	08.0	339	27	54.4	Wilson	1199.1	3.078840
Maine 1909; r. 1955		67	08	23.532	194	02	15.1	14	02	34.7	Sand Point	2486.8	3.395637
					201	33	22.7	21	33	37.5	Dochet Island	1241.4	3.093900
					245	18	41.6	65	19	38.6	Ref. Mon. 243(=Rigby)	1934.6	3.286589
Ref. Mon. 228	d.m.	45	11	25.103	30	44	01.2	210	43	53.3	Box	475.1	2.676827
New Brunswick 1921; r. 1955		67	15	53.804	210	44	01.2	30	44	01.2	Haley	0.09	8.9611
Ref. Mon. 229	d.m.	45	11	11.000	111	51	40	291	51	38	Box	72.4	1.859862
Maine 1921; r. 1946		67	16	01.848									
Ref. Mon. 230	d.m.	45	10	48.260	89	25	54.1	269	25	54.1	Stroud	0.12	9.0861
New Brunswick 1921; r. 1955		67	14	45.829									
Ref. Mon. 231	d.m.	45	10	48.137	89	25	41.7	269	25	41.7	Big Trees tablet	0.09	8.9611
Maine 1921; r. 1955		67	15	03.403	183	41	27.1	3	41	27.1	Big Trees (computed)	1.1	0.03879
					269	25	41.7	89	25	54.1	Stroud	383.6	2.583879
					269	25	41.7	89	25	54.1	Ref. Mon. 230	383.7	2.584014
Ref. Mon. 232	d.m.	45	09	54.835	24	11	08.5	204	11	08.5	Hills	1.10	0.041511
New Brunswick 1921; r. 1955		67	13	34.837									
Ref. Mon. 233 (=Bog Brook L.H.)	d.	45	09	45.739	204	11	04.4	24	11	08.5	Hills	306.7	2.486705
Maine 1909; r. 1955		67	13	40.611	204	11	04.4	24	11	08.5	Ref. Mon. 232	307.8	2.488260
					249	14	45.7	69	15	15.7	Pirington	989.5	2.995413
					294	53	14.4	114	53	18.1	Narrows	126.1	2.100721
Ref. Mon. 234	d.m.	45	10	03.693	15	12	34.3	195	12	34.2	Pine Point	13.21	1.120925
New Brunswick 1922; r. 1955		67	13	07.978									
Ref. Mon. 235	d.m.	45	10	02.673	135	30	29.4	315	30	29.0	Quarantine	16.37	1.214021
Maine 1922; r. 1955		67	12	34.803									
Ref. Mon. 236	d.m.	45	10	11.824	343	17	46.4	163	17	46.4	Mark Point	0.08	8.8820
New Brunswick 1921; r. 1955		67	12	39.050	343	17	46.4	163	17	49.0	Quarantine	282.8	2.451456
Ref. Mon. 237	d.m.	45	09	44.943	206	20	49.6	26	20	49.6	Miller	0.12	9.0861
Maine 1921; r. 1955		67	11	21.333	206	20	49.6	26	20	58.1	Spruce Point	590.2	2.770976
Ref. Mon. 238	d.m.	45	10	02.072	26	20	58.1	206	20	49.6	Ref. Mon. 237	590.1	2.770909
New Brunswick 1921; r. 1955		67	11	09.342	26	20	58.1	206	20	49.6	Miller	590.0	2.770819
					206	20	58.1	26	20	58.1	Spruce Point	0.09	8.9611
Ref. Mon. 239	d.m.	45	09	30.234	185	26	42.3	5	26	42.3	De Monts	0.11	9.0281
Maine 1921; r. 1955		67	09	51.718	185	26	42.3	5	26	45.6	Oak Point	1065.6	3.027578



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STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Ref. Mon. 240 d.m.	45 10 04.598	5 26 45.6	185 26 42.3	Ref. Mon. 239	1065.7	3.027621
New Brunswick 1921; r. 1955	67 09 47.089	5 26 45.6	185 26 45.6	Oak Point	0.11	9.0281
		5 26 45.6	185 26 42.3	De Monts	1065.6	3.027578
Ref. Mon. 241 d.m.	45 09 13.665	352 33 37.0	172 33 37.0	Wiley	0.11	9.0281
New Brunswick 1921; r. 1955	67 08 19.448					
Ref. Mon. 242 d.m.	45 07 43.005	346 44 40.4	166 44 40.4	Dochet Island	0.12	9.0861
Maine 1921; r. 1939	67 08 02.662					
Dochet Island Lighthouse, final	45 07 43.425	21 12 31.3	201 12 16.6	Lowe Point	1252.4	3.097758
Maine 1909; r. 1946 d.	67 08 02.802	87 04 17.0	267 03 48.7	Wilson	874.7	2.941851
		138 38 35.7	318 37 38.9	Eaton	2648.9	3.423066
		172 33 48.8	352 33 37.0	Wiley (computed)	2809.3	3.448591
		319 41 04.4	139 42 37.7	Apple Point (computed)	4450.9	3.648449
		325 21 43.6	145 23 53.1	Range Mark 1	7034.1	3.847211
		346 44 40.3	166 44 40.4	Ref. Mon. 242	13.3	1.125254
		346 44 40.3	166 44 40.4	Dochet Island	13.5	1.129205
Ref. Mon. 244 d.m.	45 06 48.354	304 09 12.1	124 09 12.1	Little Dochet	0.34	9.5254
Maine 1921; r. 1939	67 07 45.292	304 09 12.1	124 10 33.0	Apple Point	3017.2	3.479610
Ref. Mon. 245 d.m.	45 05 53.465	139 42 37.7	319 42 37.7	Apple Point	0.08	8.8820
New Brunswick 1921; r. 1955	67 05 51.096	139 42 37.7	319 41 04.4	Dochet Island L.H. final	4451.0	3.648456
St. Stephen Catholic Ch. spire	45 11 40.813	0 12 42.8	180 12 42.8	Internat'l. Bridge	336.1	2.526522
New Brunswick 1909; r. 1955 d.	67 17 02.026	283 53 19.5	103 54 01.7	Hospital	1337.1	3.126174
		288 01 38.3	108 02 26.7	Haley	1566.2	3.194855
		315 10 52.0	135 11 07.8	Barnard	688.6	2.837995
St. Stephen Methodist Ch. spire	45 11 40.666	14 28 12.0	194 28 08.0	Barnard	499.8	2.698816
New Brunswick 1909; r. 1955 d.	67 16 34.070	298 39 02.7	118 39 31.3	Haley	1001.7	3.000736
		316 43 07.5	136 43 47.7	Young	1803.1	3.256012
		324 24 13.5	144 24 34.2	Box	1093.1	3.038643
Bog Brook Ch. spire d.	45 09 43.230	141 37 40.5	321 37 20.9	Meadow	970.1	2.986795
Maine 1909; r. 1955	67 14 04.484	161 15 19.0	341 15 13.3	Knights Point	545.2	2.736549
		205 33 55.9	25 34 05.8	Donald	708.8	2.850538
		241 05 37.4	61 05 58.4	Hills	739.1	2.868695
Spruce Point Lighthouse, final	45 10 02.276	26 11 12.2	206 11 03.6	Miller	596.1	2.775352
New Brunswick 1909 n.d.	67 11 09.286	68 39 13.6	248 38 45.4	Hymurch	929.5	2.968237
		300 16 13.2	120 17 08.2	De Monts	1961.7	3.292634
Marks Point Lighthouse, final	45 10 12.199	42 09 57.3	222 09 43.6	Pirington	629.1	2.798688
on top, New Brunswick 1909 n.d.	67 12 38.908	54 48 19.8	234 47 39.8	Narrows	1509.1	3.178723
		344 31 29.1	164 31 31.6	Quarantine	293.0	2.466901

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STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
	°	'	"	°	'	"	°	'	"			
S.E. Corner beacon (Quarantine pier) Maine 1909 n.d.	45 10 06.970	67 12 28.596		50 32 54.2	64 47 23.5	299 08 57.4	230 32 49.4	244 47 02.5	119 09 25.5	Quarantine Pirington Hymurch	190.4 715.6 992.1	2.279643 2.854692 2.996540
Plaster mill chimney (U.S.C.&G.S.) Maine 1866 n.d.	45 07 23.82	67 08 54.84		197 38 22	268 00 59		17 39 11	88 03 45		Table Top Chamcook	4936.7 5102.6	3.693433 3.707795
Chamcook Church (U.S.C.&G.S.) New Brunswick 1866 n.d.	45 08 02.59	67 06 39.43		34 43 12	157 22 57		214 41 24	337 22 10		Shortland Table Top	5885.1 3800.1	3.769752 3.579796
New Brunswick, white house, chy. at east end (U.S.C.&G.S.) New Brunswick 1863 n.d.	45 08 55.14	67 07 41.85		17 05 50	307 01 44		197 04 46	127 03 38		Shortland Chamcook	6758.7 4389.4	3.829862 3.642406
Bayside schoolhouse (U.S.C.&G.S.) New Brunswick 1866 n.d.	45 08 55.142	67 07 41.873		17 05 31.5	177 01 59.3	307 01 34.3	197 04 27.1	357 01 56.1	127 03 28.0	Shortland Table Top Chamcook	6758.7 1887.8 4390.0	3.829862 3.275957 3.642463
Chick's chimney (U.S.C.&G.S.) Maine 1866 n.d.	45 09 23.76	67 10 49.79		124 30 58	255 56 36		304 28 41	75 58 46		Sinclair Table Top	5122.6 4129.9	3.709489 3.615939
Flagstaff on Calais grammar school, Maine 1908 n.d.	45 11 05.26	67 16 49.68		59 09 39	273 38 31		239 08 15	93 40 30		Todd Mountain Sinclair 2	3025.9 3643.8	3.480856 3.561550
Sinclair (U.S.C.&G.S.) New Brunswick 1866 1.	45 10 57.741	67 14 03.113		225 33 46.9	282 57 47.7	333 46 05.0	45 35 58.8	103 02 15.0	153 46 47.5	Cookson Island Table Top Lane	5681.0 8443.5 2961.3	3.754427 3.926524 3.471489
Curtis (U.S.C.&G.S.) New Brunswick 1866 n.d.	45 13 35.719	67 18 00.833		275 31 29.2	313 12 20.8	319 11 38.1	95 36 29.9	133 15 09.5	139 15 09.3	Cookson Island Sinclair Lane	9286.3 7120.4 9948.3	3.967845 3.852507 3.997747
Calais Baptist Church (U.S.C.&G.S.) Maine 1866; r. 1946 n.d.	45 11 15.995	67 16 40.678		157 55 59.3	279 17 17.4	304 06 58.3	337 55 02.4	99 19 09.2	124 09 32.6	Curtis Sinclair Lane	4654.6 3485.8 5737.9	3.667883 3.542299 3.758756
St. Stephens English Church (U.S.C.&G.S.) New Brunswick 1866; r. 1946 n.d.	45 11 37.567	67 16 20.484		149 01 49.0	292 16 43.5	312 01 54.2	329 00 37.7	112 18 20.9	132 04 14.1	Curtis Sinclair Lane	4254.3 3241.1 5801.7	3.628833 3.510697 3.763557
Kirk spire (Scotch Presby. Ch. in St. Stephens) New Brunswick 1908 n.d.	45 11 35.07	67 16 55.68		41 22 21	44 57 01		221 22 17	224 55 41		Internat'l. Bridge Todd Mountain	211.6 3492.1	2.325442 3.543082
West flag, courthouse Maine 1909 n.d.	45 11 20.60	67 16 46.53		130 18 29	252 28 24		310 18 18	72 28 55		Internat'l. Bridge Hospital	445.2 1006.5	2.648560 3.002815
Meridian Mark (U.S.C.&G.S.) New Brunswick 1866 1.	45 12 39.430	67 16 52.629		310 17 43.0	319 08 27.0	359 59 28.4	130 19 43.3	139 11 09.8	179 59 28.5	Sinclair Lane Calais Observatory	4852.4 7660.4 2917.8	3.685953 3.884254 3.465054
Danforth's house (U.S.C.&G.S.) New Brunswick 1866 n.d.	45 13 42.772	67 13 13.956		11 53 46.3	290 32 14.1	358 15 41.8	191 53 11.4	110 33 51.1	178 15 49.4	Sinclair Cookson Island Lane	5206.4 3186.3 7754.7	3.716535 3.503290 3.889565



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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (MEYERS)	LOGARITHM
Wall, ecc. New Brunswick 1957	n.d.	45 11 31.031 67 16 35.927	281 14 47.1 307 54 43.1	101 15 17.0 127 55 06.8	Haley Box 2	937.6 924.5	2.972016 2.965918
Wall New Brunswick 1957	d.m.	45 11 31.017 67 16 36.032	258 55 27.6 281 11 32.8	78 55 27.7 101 12 02.8	Wall ecc. Haley	2.33 939.8	0.367356 2.973013
U.S. Bridge Maine	d.m.	45 11 28.301 67 17 01.991	177 04 28.7 261 34 20.2 273 47 06.1	357 04 28.7 81 34 38.7 93 47 54.5	Ref. Mon. 227 Wall ecc. Haley	49.8 575.2 1491.8	1.697086 2.759789 3.173714
Can. Bridge New Brunswick	d.m.	45 11 30.366 67 17 02.638	267 58 46.7 276 09 38.9 320 23 23.6 347 29 39.2	87 59 05.7 96 10 27.8 140 23 24.1 167 29 39.7	Wall ecc. Haley Ref. Mon. 227 U.S. Bridge	583.4 1511.4 18.2 65.3	2.766001 3.179385 1.259720 1.814763
Boundary Point Maine-New Brunswick 1957	n.d.	45 11 30.271 67 17 02.608	167 29 39.3 347 29 39.3	347 29 39.2 167 29 39.7	Can. Bridge U.S. Bridge	3.003 62.3	0.477550 1.794310
East Tablet, Calais-St. Stephen Bridge Maine-New Brunswick 1957	d.m.	45 11 30.283 67 17 02.571	65 47 17.6 150 20 03.8	245 47 17.6 330 20 03.7	Boundary Point Can. Bridge	0.890 3.0	9.949399 0.470392
West Tablet, Calais-St. Stephen Bridge Maine-New Brunswick 1957	d.m.	45 11 30.116 67 17 03.096	232 20 28.6 245 47 17.2 245 47 17.2	52 20 28.9 65 47 17.6 65 47 17.6	Can. Bridge Boundary Point E.Tab., Cal.-St. Stvn. Br.	12.6 11.689 12.579	1.101919 1.067781 1.099650
Congregational Church weathervane Calais, Maine 1957	d.	45 11 13.172 67 16 36.335	129 49 39.2 132 45 07.1 180 41 18.6 180 55 31.9 248 21 18.1	309 49 21.0 312 44 48.4 0 41 18.8 0 55 32.2 68 21 48.3	U.S. Bridge Can. Bridge Wall Wall ecc. Haley	729.3 781.9 550.9 551.4 998.9	2.862880 2.893174 2.741082 2.741460 2.999538
US Post Maine 1957	d.	45 11 28.295 67 17 01.956	166 54 08.5 261 32 22.8 273 46 42.6	346 54 08.0 81 32 41.3 93 47 31.0	Can. Bridge Wall ecc. Haley	65.7 574.5 1491.1	1.817281 2.759257 3.173493
Can. Post New Brunswick 1957	d.	45 11 30.451 67 17 02.622	7 30 48.0 268 14 14.8 276 15 41.8	187 30 48.0 88 14 33.8 96 16 30.7	Can. Bridge Wall ecc. Haley	2.66 583.0 1511.4	0.424882 2.765677 3.179368

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STATION	LATITUDE AND LONGITUDE			AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
<u>POSITIONS OF LOST STATIONS</u>								
Eye (U.S.C.&G.S.)	45	07	21.36					
Maine 1866	67	09	46.74					
Devils Head (U.S.C.&G.S.)	45	09	12.31					
Maine 1866	67	09	44.12					
Birch, two-hundred-foot hill (U.S.C.&G.S.) Maine 1866	45	09	22.68					
	67	14	32.92					
Ravens Head, flag(U.S.C.&G.S.)	45	10	04.74					
New Brunswick 1866	67	10	40.48					
Breakwater, flag (U.S.C.&G.S.)	45	10	08.38					
Maine 1866	67	12	27.38					
Plaster Point,flag(U.S.C.&G.S.)	45	10	29.65					
New Brunswick 1866	67	09	44.90					
Smarts Mt.,flag (U.S.C.&G.S.)	45	12	02.68					
New Brunswick 1866	67	09	17.94					
Flag on crib	45	10	04.64					
Maine 1909	67	17	55.29					
Todd (U.S.C.&G.S.)	45	10	19.16					
New Brunswick 1866	67	18	53.41					
De Monts Id. (U.S.C.&G.S.)	45	07	43.44					
Maine 1866	67	03	02.80					
Whiddens Derrick (U.S.C.&G.S.)	45	09	53.93					
Maine 1866	67	12	03.70					
Quarantine pier, S.W. corner	45	10	06.99					
Maine 1909	67	12	28.61					
Quarantine pier, S.E. corner	45	10	08.37					
Maine 1909	67	12	27.31					
Quarantine pier, N.W. corner	45	10	07.08					
Maine 1909	67	12	28.80					
Quarantine pier, N.E. corner	45	10	08.46					
Maine 1909	67	12	27.50					



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GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line			Passamaquoddy Bay - Northern	Third Order	State	Maine	Province	New Brunswick			
STATION		LATITUDE AND LONGITUDE	AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
Pike Maine 1909; r. 1955	d.m.	45 05 15.172 67 06 40.561	156 48 40.1 222 27 06.1 298 47 22.7 306 16 41.3	336 48 24.4 42 27 41.2 118 48 34.0 126 18 41.4	Lambs Bluff Apple Point Joes Bean	1234.0 1602.3 2511.4 4603.1	3.091299 3.204748 3.399919 3.663055				
Rob Maine 1946; 1955	d.m.	45 04 43.153 67 06 29.643	166 25 12.2 201 13 10.2 276 25 47.7 296 33 26.6	346 25 04.4 21 13 37.5 96 26 51.2 116 35 18.9	Pike Apple Point Joes Bean	1016.9 2328.5 1974.6 3881.5	3.007265 3.367083 3.295480 3.589003				
Holey New Brunswick 1946; 1955	d.m.	45 05 18.546 67 05 12.505	40 20 21.7 57 04 46.6 86 54 47.0 141 56 55.7	220 19 32.0 237 03 52.0 266 53 44.6 321 56 28.4	Bin Rob Pike Apple Point	2372.3 2010.0 1928.5 1369.1	3.375176 3.303187 3.285222 3.136423				
Holey Rock New Brunswick 1909	1.	45 05 26.348 67 05 17.572	79 14 40.5 138 47 43.1	259 13 41.7 318 47 19.4	Pike Apple Point	1847.3 1112.8	3.266549 3.046408				
Robbinston Maine 1909	1.	45 04 39.360 67 06 23.463	161 18 48.5 224 48 21.4	341 18 36.4 44 49 08.1	Pike Holey Rock	1167.1 2044.7	3.067093 3.310625				
R.M. 246 (=Initial) Maine 1909; r. 1955	d.m.	45 04 19.421 67 06 23.130	179 19 17.6 196 54 39.6 208 59 35.7 214 45 16.3 254 18 07.1	359 19 17.3 16 55 37.5 28 59 36.0 34 46 02.7 74 19 06.0	Robbinston (comp.) Chamcook (comp.) Bin Holey Rock Joes	615.6 6132.5 19.15 2514.8 1890.2	2.789267 3.787636 1.282252 3.400511 3.276513				
Joes Point New Brunswick 1909	1.	45 04 35.780 67 05 00.708	74 21 39.2 93 30 08.5 119 07 11.9 166 42 29.8	254 20 40.9 273 29 09.9 299 06 01.2 346 42 17.9	R.M.246(Initial) Robbinston Pike Holey Rock	1872.3 1813.5 2499.6 1604.0	3.272375 3.258514 3.397879 3.205215				
Range Mark I New Brunswick 1919; r. 1955, 1961	d.m.	45 04 35.909 67 05 00.017	74 22 05.2 75 12 58.3 118 52 22.3 218 46 07.2	254 21 06.4 255 12 57.8 298 51 11.1 38 46 07.3	R.M.246(Initial) Joes Point Pike Joes	1887.9 15.62 2510.9 2.82	3.275985 1.193820 3.399835 0.450627				
Davidson Head (U.S.C.&G.S.) New Brunswick 1863; r. 1946	d.m.	45 00 19.080 66 59 16.995	43 37 57.7 69 31 15.3 126 03 16.4 140 59 52.3 150 28 05.8 237 09 29.4 336 20 58.8	223 34 54.3 249 28 23.2 305 56 14.7 320 57 28.4 330 24 02.0 57 11 09.3 156 21 57.5	Perry Pigeon B-sub (comp.) Shortland Navy Island Chamcook North Head Hannah	8243.3 5691.2 16113.6 7071.8 15275.3 3681.7 4538.4	3.916102 3.755205 4.207192 3.849531 4.183991 3.566054 3.656905				
Clam Cove New Brunswick 1894	p.l.	44 58 19.162 67 00 29.123	7 48 25.2 61 06 56.8 63 17 23.1 203 06 28.9 348 16 06.8	187 48 05.9 241 04 44.4 243 15 49.1 23 07 19.9 168 16 24.7	Kendall 2 Perry Pigeon (comp.) Pleasant Point, 1893 Davidson Head Cumming	4413.7 4690.5 3265.9 4025.0 2726.6	3.644803 3.671223 3.513998 3.604761 3.435616				
A-1894 Maine	1.	44 58 46.481 67 03 05.400	240 14 14.8 283 49 12.7 347 36 31.9	60 16 56.3 103 51 03.2 167 36 48.4	Davidson Head Clam Cove Pleasant Point, 1893	5762.3 3526.6 2367.1	3.760596 3.547357 3.374209				

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GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line Passamaquoddy Bay - Northern Third Order State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (FEET)	LOGARITHM
B-1894 Maine 1894; r. 1947	d.m.	44 59 14.243 67 03 20.703	222 44 30.0 249 25 23.8 294 19 13.2 338 37 56.9	42 44 30.2 69 28 16.1 114 21 14.5 158 38 07.7	B-sub Davidson Head Clam Cove A-1894	11.01 5701.1 4126.0 920.3	1.041748 3.755955 3.615530 2.963911
C-1894 Maine	l.	45 01 10.519 67 04 33.573	157 39 36.0 159 33 14.9 282 52 12.7 314 37 38.9 336 01 17.1	337 38 18.5 339 31 57.1 102 55 56.6 134 40 31.8 156 02 08.7	R.M.246(Initial)(comp.) Robbinston (comp.) Davidson Head Clam Cove B-1894	6305.1 6880.8 7111.9 7526.7 3928.2	3.799690 3.837640 3.851985 3.876604 3.594190
South Navy New Brunswick 1894	l.	45 03 15.465 67 02 38.539	4 03 15.0 7 04 16.3 33 08 51.7 320 57 45.1 342 46 23.4	184 02 56.0 187 03 46.5 213 07 30.3 141 00 07.7 162 47 55.0	A-1894 B-1894 C-1894 Davidson Head Clam Cove	8324.3 7503.5 4606.2 7008.1 9597.8	3.920347 3.875262 3.663343 3.845603 3.981173
Navy Bar Lighthouse New Brunswick 1913; r. 1946	n.d.	45 03 27.771 67 02 08.051	36 54 45.8 64 56 55.7 253 36 38.7 351 54 12.9	216 53 03.0 244 56 32.8 73 37 35.2 171 54 54.5	C-sub Navy Island Tongue (comp.) Clam	5294.8 781.1 1822.1 9162.9	3.723846 2.892734 3.260581 3.962033
Loring (U.S.C.&G.S.) Maine 1946; 1955	d.m.	45 01 10.640 67 04 33.486	216 55 39.6 226 04 16.8 283 01 33.6	36 57 22.5 46 06 56.2 103 01 33.7	Navy Bar Lighthouse Tongue(=Sand Reef L.H.) C-sub	5296.5 6845.3 4.40	3.723993 3.835395 0.643453
D-1894 Maine 1894	d. p.l.	45 04 20.238 67 06 22.944	292 08 14.9 325 09 59.0 337 45 34.7	112 10 53.8 145 14 09.4 157 46 52.1	South Navy Clam Cove C-1894	5301.2 13573.9 6326.9	3.724372 4.132704 3.801189
North Navy New Brunswick 1894	d.	45 03 51.712 67 03 54.248	9 49 01.3 105 09 44.8	189 48 33.5 285 07 59.6	C-1894 D-1894	5049.9 3370.0	3.703282 3.527633
Joes Point, house New Brunswick 1894	l.	45 04 36.05 67 04 59.83	74 59 03 354 49 22	254 58 04 174 49 40	D-1894 C-1894	1882.4 6370.6	3.274715 3.804178
Finial, center white water tower New Brunswick 1909	n.d.	45 04 55.130 67 05 01.965	74 43 55.6 106 01 08.1 123 34 28.7	254 42 58.2 285 59 58.6 303 33 03.5	Robbinston Pike Lambs Bluff	1847.8 2243.3 3170.7	3.266659 3.350890 3.501152
Tangent to North Chimney, Biological Station New Brunswick 1909	n.d.	45 04 53.867 67 05 01.082	59 21 40.0 76 03 02.7 106 49 47.7 160 13 12.7	239 20 42.0 256 02 04.4 286 48 37.3 340 13 01.1	R.M.246 (Initial) Robbinston Pike Holey Rock	2086.0 1856.7 2272.9 1065.6	3.319317 3.268735 3.356574 3.027587
North Beacon New Brunswick 1909	n.d.	45 04 15.22 67 04 05.92	92 29 23 103 55 36	272 27 46 283 53 58	R.M.246 (Initial) Robbinston	3004.4 3099.7	3.477757 3.491316
South Beacon(N.W.Beacon 1894) (St.Andrews West Entrance,N.W. Beacon - U.S.C.&G.S.) New Brunswick 1887;r.1909	n.d.	45 04 01.400 67 04 23.254	2 27 09.4 101 59 19.9 114 01 52.1 142 20 07.6 172 32 03.2	182 27 02.1 281 57 55.1 294 00 27.0 322 19 41.1 352 31 22.2	C-1894 R.M.246(Initial) Robbinston Joes Point	5279.9 2680.8 2878.9 1340.8	3.722627 3.428261 3.459222 3.127353



## GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line Passamaquoddy Bay - Northern Third Order State Maine Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
Monument, Joes Point (Iron bar in cairn) New Brunswick 1894; 1909 1.	45 04 37.272	67 04 53.176		74 21 46.6	75 01 01.2	91 52 39.2	254 20 43.1	254 59 57.7	271 51 35.4	R.M.246 (Initial) D-1894 Robbinston C-1894	2043.4 2032.8 1975.9 6396.9	3.310347 3.308088 3.295766 3.805967
				356 09 09.7			176 09 23.6					
St. Andrews, house on bluff, chy. (U.S.C.&G.S.) New Brunswick 1863 n.d.	45 05 15.504	67 03 00.020		286 36 58.5	311 52 20.6	333 14 33.8	106 44 15.2	131 56 38.5	153 18 10.4	Anley North Head Hannah	14083.2 10711.5 14900.0	4.148700 4.029850 4.173187
St. Andrews Lighthouse (U.S.C.&G.S.) New Brunswick 1866 n.d.	45 04 05.088	67 02 51.461		4 21 33.0	106 41 08.4	155 45 10.3	184 21 01.2	286 36 38.4	335 43 38.2	Perry Pigeon Shortland Chamcook North Head	12983.2 8703.6 6920.7 9242.7	4.113383 3.939700 3.840147 3.965798
				302 34 27.3			122 38 39.1					
St. Andrews, tall white spire (U.S.C.&G.S.) New Brunswick 1863 n.d.	45 04 36.191	67 03 15.258		1 54 57.6	101 07 56.9	156 32 12.5	181 54 42.7	281 03 43.8	336 30 57.3	Perry Pigeon Shortland Chamcook North Head	13913.6 7966.7 5832.0 10212.0	4.143441 3.901278 3.765817 4.009109
				305 32 17.7			125 36 46.4					
St. Andrews, short white spire (U.S.C.&G.S.) New Brunswick 1863 n.d.	45 04 45.187	67 03 28.181		0 44 05.4	99 29 42.5	158 05 34.7	180 43 59.6	279 25 38.5	338 04 28.6	Perry Pigeon Shortland Chamcook North Head	14184.8 7638.8 5466.7 10603.6	4.151822 3.883027 3.737727 4.025452
				305 52 08.7			125 56 46.5					
Beacon, west side of St. Andrews (U.S.C.&G.S.) New Brunswick 1863 n.d.	45 04 15.420	67 04 06.311		108 00 29.1	168 36 53.9	299 18 40.9	287 56 52.1	348 36 14.8	119 23 45.7	Shortland Chamcook North Head	7045.5 6110.9 10811.7	3.847911 3.786106 4.033894
Pendleton (U.S.C.&G.S.) New Brunswick 1863; r.1913 d.m.	45 01 54.037	66 57 21.679		5 41 29.9	42 43 40.1	110 12 18.3	185 41 07.1	222 39 15.2	290 08 32.8	Hannah Perry Pigeon Navy Island Shortland Chamcook Anley White Horse(USC&GS) North Head Hannabury	7123.9 12108.7 7431.2 16875.3 14435.5 6469.7 7931.8 1094.6 10755.5	3.852718 4.083099 3.871061 4.227251 4.159432 3.810887 3.899372 3.039268 4.031630
				112 52 07.2	135 52 47.5	250 18 09.2	292 43 43.9	315 47 22.0	70 21 26.2			
				303 50 42.9	328 42 12.7	344 35 12.5	123 54 15.6	148 42 31.1	164 36 44.7			
Sand Reef Lighthouse (U.S.C.&G.S.)=Tongue (1946)												
Matthews (U.S.C.&G.S.) New Brunswick 1863; r. 1918 d.m.	45 03 44.702	66 54 39.733		2 52 29.5	22 03 18.9	34 22 50.2	182 52 07.1	202 01 01.5	214 21 14.0	Hannabury Hannah North Head Navy Island Tongue (comp.) Chamcook Anley White Horse(USC&GS)	13802.9 11333.0 5271.9 10551.4 8060.5 15264.5 2832.2 8405.6	4.139969 4.054343 3.721967 4.023312 3.906363 4.183683 3.452124 3.924569
				85 24 28.4	89 58 26.7	117 05 55.1	265 18 48.2	269 54 05.9	296 58 34.7			
				295 55 10.9	338 47 46.3		115 56 33.3	158 49 24.5				
Perry, house with red door, chy. (U.S.C.&G.S.) Maine 1863 n.d.	44 59 59.00	67 04 17.26		199 07 16	254 49 10		19 08 24	74 54 22		Navy Island North Head	6471.3 10016.8	3.810990 4.000730

## INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA

GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

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International boundary line Passamaquoddy Bay - Northern

Third Order

State Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
Perry, yellow house with dormer window, S.chy.(U.S.C.&G.S.) Maine 1863 n.d.	45 00 05.84 67 04 23.22	200 51 52 256 10 06	20 53 05 76 15 23	Navy Island North Head			6317.6 10090.3	3.800552 4.003903				
Navy Island, barn, S.W.gable n.d. (U.S.C.&G.S.) New Brunswick 1887	45 03 20.97 67 02 47.34	114 36 57 159 05 01	294 32 24 339 03 26	Shortland Chamcook			9269.7 8213.4	3.967068 3.914525				
Robbinston, 2 story yellow house chy.(U.S.C.&G.S.) Maine 1863 n.d.	45 03 26.12 67 07 15.47	145 15 35 272 38 01	325 14 12 92 41 16	Shortland Navy Island			4499.1 6025.6	3.653123 3.779998				
St.Andrews, tallest spire, brown (U.S.C.&G.S.) New Brunswick 1887 n.d.	45 04 35.37 67 03 03.19	100 57 10 154 18 36	280 52 49 334 17 13	Shortland Chamcook			8230.5 5964.8	3.915427 3.775593				
Blockhouse (U.S.C.&G.S.) New Brunswick 1863 n.d.	45 04 37.38 67 04 54.81	280 04 34 299 38 32	100 13 12 119 44 11	Anley North Head			16257.7 12068.7	4.211060 4.081661				
St.Andrews, gray church spire n.d. (U.S.C.&G.S.) New Brunswick 1913	45 04 36.34 67 03 03.49	348 19 49 350 08 01	168 20 05 170 09 31	Navy Island Kendall 2			2499.0 16256.0	3.397772 4.211013				
Argyle Hotel (U.S.C.&G.S.) New Brunswick 1887 n.d.	45 04 24.04 67 02 33.68	102 22 28 150 33 48	282 17 45 330 32 03	Shortland Chamcook			8933.7 6574.0	3.951030 3.817828				
Perry, white church spire d. (U.S.C.&G.S.) Maine 1913; r. 1955	44 58 39.031 67 04 12.251	301 03 55.3 313 02 10.4 319 15 44.4	121 06 50.8 133 06 58.0 139 18 02.7	Cumming Campobello Kendall 2			6357.7 12225.7 6578.7	3.803300 4.087273 3.818142				
Algonquin Hotel, tower d. (U.S.C.&G.S.) New Brunswick 1913; r. 1955	45 04 51.124 67 03 24.052	341 47 18.8 343 26 50.5 348 53 03.5	161 47 49.7 163 29 12.1 168 54 47.9	Navy Island Cumming Kendall 2			3056.9 15406.4 16786.8	3.485287 4.187702 4.224967				
Pleasant Point, church spire 1. (U.S.C.&G.S.) Maine 1913	44 57 21.309 67 02 25.536	178 18 16.5 285 52 03.9 322 56 36.6	358 18 05.9 105 53 44.0 142 57 39.5	Navy Island Cumming Kendall 2			10986.6 3229.5 3241.2	4.040865 3.509132 3.510711				
Leonardville Harbor L.H. n.d. (U.S.C.&G.S.) New Brunswick 1918	44 58 05.285 66 57 20.466	17 52 36.6 284 41 50.0 319 25 33.9	197 52 01.0 104 44 10.0 139 27 05.1	Indian Island East Quoddy Light Hannabury			3604.0 4493.0 4354.0	3.556789 3.652541 3.638888				
Butler (U.S.C.&G.S.) d.m. New Brunswick 1863; r. 1913	45 01 12.615 66 56 34.893	235 41 11.0 299 26 32.6 348 36 04.5	55 43 54.9 119 29 32.2 168 37 03.6	Anley White Horse(USC&GS) Hannabury			6135.0 6387.8 9273.3	3.787818 3.805352 3.967232				
Hog (U.S.C.&G.S.) d.m. New Brunswick 1863; r. 1913	45 01 59.246 66 55 38.633	22 14 39.7 56 59 51.9 242 15 09.3 316 36 24.9 356 44 36.4	202 13 04.0 236 58 57.4 62 17 13.4 136 38 44.7 176 44 55.8	Hannah North Head Anley White Horse(USC&GS) Hannabury			7831.8 2012.1 4334.6 6303.3 10547.1	3.893861 3.303657 3.636950 3.799571 4.023134				
Hog-1918 (U.S.C.&G.S.) d.m. New Brunswick 1918	45 08 17.677 66 57 51.516	24 37 00.8 32 06 11.4 333 31 34.2	204 34 55.7 212 03 09.8 153 33 50.1	Tongue(Sand Reef L.H.) Navy Bar Lighthouse Matthews			9277.6 10562.0 9412.4	3.967434 4.023745 3.973701				



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GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line Passamaquoddy Bay - Northern Third Order State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
David (U.S.C.&G.S.) d.m.	45 00	16.973	149 14 03.0	329 12 09.6	Navy Bar Lighthouse	6855.8	3.836055
New Brunswick 1918	66 59	27.774	164 38 42.6	344 37 45.7	Tongue	6641.1	3.822242
			188 04 00.4	8 05 08.5	Hog-1918	14988.0	4.175744
Pendleton 2 (U.S.C.&G.S.) n.d.	45 01	38.851	41 43 25.6	221 42 12.9	David	3386.0	3.529683
New Brunswick 1918	66 57	44.878	120 18 02.1	300 14 55.9	Navy Bar Lighthouse	6669.5	3.824091
			134 02 22.0	314 00 12.3	Tongue(Sand Reef L.H.)	5578.0	3.746476
Minster Island, tower(U.S.C.&G.S.) d.	45 05	48.715	229 27 39.6	49 30 34.0	Hog-1918	7078.5	3.849941
New Brunswick 1918	67 01	57.715	291 44 23.9	111 49 34.0	Matthews	10316.2	4.013521
			342 13 11.0	162 14 57.1	David	10753.7	4.031556
Minster Island, house chy. d.	45 06	14.068	293 48 11.8	113 53 49.5	Matthews	11403.5	4.057037
(U.S.C.&G.S.)New Brunswick 1918	67 02	36.610	332 48 36.0	152 49 52.8	Tongue(Sand Reef L.H.)	5193.1	3.715428
			353 03 34.3	173 03 54.6	Navy Bar Lighthouse	5171.5	3.713613
Hospital Island, house d.	45 07	13.922	0 39 53.7	180 39 51.3	Tongue(Sand Reef L.H.)	6467.8	3.810757
(U.S.C.&G.S.)New Brunswick 1918	67 00	44.720	242 30 34.0	62 32 36.7	Hog-1918	4266.2	3.630040
			352 32 26.8	172 33 21.3	David	12980.8	4.113302
Hardwood Island, house n.d.	45 07	20.938	9 00 20.9	188 59 46.6	Tongue(Sand Reef L.H.)	6767.3	3.830416
(U.S.C.&G.S.)New Brunswick 1918	66 59	59.733	313 37 05.6	133 40 52.2	Matthews	9670.8	3.985462
			356 56 19.5	176 56 42.1	David	13106.5	4.117486
Holt (U.S.C.&G.S.) 1918 d.	45 08	59.048	0 30 20.8	180 30 16.2	David	16117.1	4.207287
New Brunswick	66 59	21.278	303 03 51.6	123 04 55.2	Hog-1918	2340.3	3.369266
			327 35 07.9	147 38 27.4	Matthews	11491.4	4.060372
Grey House, near Mt. Blair d.	45 07	32.006	52 41 42.4	232 36 44.2	Tongue(Sand Reef L.H.)	11581.4	4.063762
(U.S.C.&G.S.)New Brunswick 1918	66 53	47.098	55 30 41.3	235 24 46.6	Navy Bar Lighthouse	13298.4	4.123801
			104 48 39.8	284 45 46.6	Hog-1918	5524.0	3.742256
Graveyard (U.S.C.&G.S.) d.m.	45 01	00.319	22 39 28.5	202 38 15.3	Hannah	5884.3	3.769695
New Brunswick 1863; r.1913	66 56	10.481	298 46 12.5	118 48 54.8	White Horse(USC&GS)	5736.2	3.758621
White House, with white roof, chy. d.	45 04	38.455	1 54 05.0	181 53 48.5	Hannabury	15453.4	4.189023
(U.S.C.&G.S.)New Brunswick 1863	66 54	47.921	316 44 21.5	136 45 49.7	Anley	3978.4	3.599707
n.d.			341 16 14.8	161 17 58.8	White Horse(USC&GS)	10026.7	4.001160
Perry, yellow house, S.E. gable d.	45 00	47.683	179 13 15.1	359 13 09.7	Chamcook	12404.5	4.093581
(U.S.C.&G.S.)Maine 1863; r.1935	67 04	53.791	212 19 53.8	32 21 28.2	Navy Island	5457.9	3.737029
			263 53 03.1	83 58 41.3	North Head	10526.9	4.022300
Perry, barn, N. gable (U.S.C.&G.S.)	44 57	41.280	171 14 09.6	351 12 38.9	Chamcook	18372.7	4.264174
Maine 1863	67 02	53.419	181 34 31.6	1 34 40.8	Navy Island	10369.3	4.015748
n.d.			228 44 02.8	48 48 15.7	North Head	10419.1	4.017832
Clarks Point, yellow house chy. d.	45 05	21.753	20 02 03.1	200 00 36.5	North Head	7820.2	3.893219
(U.S.C.&G.S.) New Brunswick 1863	66 54	53.341	69 24 03.2	249 18 32.5	Navy Island	10917.8	4.038137
n.d.			326 05 57.9	146 07 30.0	Anley	5101.0	3.707651
			342 52 19.1	162 54 06.9	White Horse(USC&GS)	11335.1	4.054425



INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA  
GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

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International boundary line		Passamaquoddy Bay - Northern		Third Order		State Maine		Province New Brunswick		
STATION		LATITUDE AND LONGITUDE		AZIMUTH		BACK AZIMUTH		TO STATION	DISTANCE (METERS)	LOGARITHM
Clarks Point, unpainted house chy. (U.S.C.&G.S.) New Brunswick 1863 n.d.	45 05 28.776 66 54 40.654	21 21 06.4 330 01 16.3 344 31 07.4	201 19 30.8 150 02 39.4 164 32 46.2	North Head Anley White Horse(USC&GS)	8121.1 5138.2 11465.3	3.909614 3.710808 4.059384				
Beacon No. 1 (U.S.C.&G.S.) n.d. New Brunswick 1863	45 03 44.747 67 00 48.864	141 29 36.5 276 36 32.3 339 57 01.6	321 26 37.6 96 42 16.0 159 59 05.3	Chamcook Anley Hannah	8868.4 10696.1 11183.0	3.947845 4.029224 4.048559				
Mowatt (U.S.C.&G.S.) d.m. New Brunswick 1863; r. 1913	44 59 58.376 66 54 29.291	7 42 59.4 129 25 44.4 201 58 02.9 286 49 20.4	187 42 29.6 309 24 00.8 21 59 17.8 106 50 51.1	Hannabury North Head Anley White Horse(USC&GS)	6861.0 4150.1 6198.6 2937.1	3.836385 3.618062 3.792294 3.467922				
Hibernia Cove (U.S.C.&G.S.) d. New Brunswick 1861	44 57 24.203 66 57 51.760	10 59 53.4 241 38 00.7 300 05 27.1	190 59 39.9 61 41 54.4 120 07 20.4	Indian Island White Horse(USC&GS) Hannabury	2202.4 8235.5 4066.1	3.342893 3.915692 3.609179				
Bar Island (U.S.C.&G.S.) d. New Brunswick 1861; r. 1863	44 58 21.79 66 56 51.59	23 49 32 330 03 18	203 48 36 150 04 29	Indian Island Hannabury	4306.3 4404.9	3.634106 3.643933				
Carlow Island, chy.(U.S.C.&G.S.) Maine 1913; r. 1946	44 56 33.30 67 02 10.35	257 48 51 304 17 06	77 50 20 124 17 58	Cumming Kendall 2	2837.5 1961.0	3.452938 3.292472				
Fish (U.S.C.&G.S.) d.m. New Brunswick 1863; r. 1913	45 00 35.794 66 55 36.890	32 43 35.8 130 37 20.8 295 01 48.5 355 57 57.0	212 41 58.9 310 36 25.1 115 04 07.1 175 58 15.1	Hannah North Head White Horse(USC&GS) Hannabury	5554.5 2273.5 4737.1 7973.7	3.744645 3.356689 3.675515 3.901660				
St. Helena (U.S.C.&G.S.) d.m. New Brunswick 1863; r. 1913	44 59 22.602 66 56 34.817	35 41 01.9 173 01 36.5 267 21 46.4 342 10 26.8	215 40 05.9 353 01 21.7 87 24 45.8 162 11 25.7	Hannah North Head White Horse(USC&GS) Hannabury	2971.8 3767.3 5567.1 5981.4	3.473018 3.576026 3.745627 3.776806				
Hardwood (U.S.C.&G.S.) d.m. New Brunswick 1863; r. 1913	45 00 58.818 66 55 38.560	28 51 17.8 114 29 30.5 302 05 43.0 356 03 17.2	208 49 42.1 294 28 36.0 122 08 02.8 176 03 36.5	Hannah North Head White Horse(USC&GS) Hannabury	6146.7 1856.1 5109.8 8685.2	3.788640 3.268590 3.708401 3.938782				
Red=North Gable, red roof barn (U.S.C.&G.S.) Maine 1918 d.	44 55 13.67 67 00 12.21	144 21 35 183 26 20	324 21 04 3 26 26	Kendall 2 Cumming	1665.3 3062.0	3.221485 3.486003				
Tucker Island Spindle(U.S.C.&G.S.) New Brunswick 1918 n.d.	44 58 14.14 66 55 39.49	41 53 02 303 32 58	221 51 15 123 34 07	Indian Island East Quoddy Light	4973.3 2559.2	3.696642 3.408109				
Spruce Island Spindle(U.S.C.&G.S.) New Brunswick 1918 n.d.	44 58 02.67 66 54 59.64	51 24 03 310 05 53	231 21 48 130 06 34	Indian Island East Quoddy Light	5366.4 1646.4	3.729687 3.216546				
Ren=Wilson Landing, French-roofed house, chy.(U.S.C.&G.S.) d. New Brunswick 1918	44 55 41.58 66 56 34.50	115 27 13 238 15 10	295 26 05 58 16 09	Indian Island Hannabury	2341.6 2145.0	3.369509 3.331418				
Chim=Wilson Landing, large gray bldg., chy.(U.S.C.&G.S.) d. New Brunswick 1918	44 56 04.29 66 56 14.27	96 48 38 252 47 42	276 47 16 72 48 27	Indian Island Hannabury	2576.0 1445.2	3.410946 3.159919				



## INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA

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International boundary line Passamaquoddy Bay - Northern

Third Order

State Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Bliss Island Lighthouse n.d. (U.S.C.&G.S.) New Brunswick 1918	45 01 06.05 66 51 03.16	30 06 02 314 42 01	210 05 07 134 46 57	White Horse(USC&GS) Wolves	3397.6 12896.0	3.531177 4.110456
Range Mark 2 d.m. New Brunswick 1919; r. 1955, 1961	45 04 36.853 67 04 54.968	75 13 01.9	255 12 58.3	Range Mark 1	114.21	2.057704
Clam Ref. Mark d.m. New Brunswick 1913; r. 1919	44 57 52.474 67 01 00.512	74 14 16.8 326 03 06.4 358 34 02.7	254 13 04.6 146 03 46.4 178 34 05.5	Pleasant Point 1913 Cumming Kendall 2	2325.4 2224.9 3550.1	3.366489 3.347315 3.550239
Range Mark 4 d.m. New Brunswick 1919; r. 1946, 1961	44 58 17.055 67 00 27.983	8 14 57.7 64 46 28.6 348 30 40.1	188 14 37.6 244 44 53.5 168 30 57.2	Kendall 2 Pleasant Point 1913 Cumming	4352.8 3262.0 2657.8	3.638768 3.513478 3.424528
Range Mark 3 d.m. New Brunswick 1919; r. 1946, 1961	44 58 07.784 67 00 35.603	6 29 21.3 49 06 57.5 210 15 52.2	186 29 06.6 229 06 40.0 30 15 57.6	Kendall 2 Clam Ref. Mark Range Mark 4	4047.5 722.0 331.3	3.607189 2.858563 2.520280
<u>POSITIONS OF LOST STATIONS</u>						
Pleasant Point, windmill (U.S.C.&G.S.) Maine 1913	44 57 26.23 67 02 40.09					
Pleasant Point, church Maine 1860	44 57 21.50 67 02 25.46					
Navy Island, beacon New Brunswick 1863	45 03 27.47 67 02 08.31					
Cape Lepreau Light New Brunswick 1860	45 03 29.57 66 27 33.25					
Robbinston's wharf, tide gauge (U.S.C.&G.S.) Maine 1887	45 04 36.96 67 06 21.47					
Hannabury, tree (U.S.C.&G.S.) New Brunswick 1860	44 56 31.94 66 55 10.36					
Carlow Island Monument (U.S.C.&G.S.) Maine 1893	44 56 38.26 67 02 02.61					
Johnnie (U.S.C.&G.S.) New Brunswick 1861	44 56 38.57 66 55 44.57					
Pope's Folly (U.S.C.&G.S.) New Brunswick 1861	44 56 40.78 66 57 12.33					
Green Island (U.S.C.&G.S.) New Brunswick 1861	44 56 56.52 66 56 39.62					
Beech, flag, (U.S.C.&G.S.) New Brunswick 1860	44 56 59.44 66 59 02.17					

GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line Passamaquoddy Bay - Northern

Third Order

State Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE		AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
<u>POSITIONS OF LOST STATIONS</u>							
Herring (U.S.C.&G.S.)	44	57	07.28				
New Brunswick 1860	66	54	58.85				
Casco Island, flag (U.S.C.&G.S.)	44	57	15.02				
New Brunswick 1860	66	56	10.56				
Casco Island, E. end (U.S.C.&G.S.)	44	57	24.67				
New Brunswick 1860	66	55	44.17				
Pleasant Pt., flagstaff	44	57	26.65				
(U.S.C.&G.S.) Maine 1863	67	02	28.00				
Clam cove, flag (U.S.C.&G.S.)	44	57	57.84				
New Brunswick 1860	67	01	09.00				
Oak Head, flag (U.S.C.&G.S.)	44	58	18.36				
New Brunswick 1863	67	01	15.18				
Sand Island, house chy.	44	58	21.36				
(U.S.C.&G.S.) New Brunswick 1860	66	54	51.28				
Spruce Island, S. end (U.S.C.&G.S.)	44	58	10.37				
New Brunswick 1860	66	54	39.20				
Spruce Island, N. end (U.S.C.&G.S.)	44	58	29.80				
New Brunswick 1860	66	54	18.43				
Gleason's Hotel chy. (U.S.C.&G.S.)	44	58	25.97				
Maine 1887	67	03	15.97				
Tinkers Island, flag (U.S.C.&G.S.)	44	58	28.82				
New Brunswick 1868	66	55	26.31				
White Island, ledge (U.S.C.&G.S.)	44	58	54.64				
New Brunswick 1861	66	54	09.61				
Spectacle Island, flag (U.S.C.&G.S.)	44	59	09.52				
New Brunswick 1860	66	55	04.23				
Perry, fish house, S. gable	44	59	16.33				
(U.S.C.&G.S.) Maine 1863	67	03	23.26				
Gardners Pt., flag (U.S.C.&G.S.)	44	59	16.67				
New Brunswick 1863	67	00	32.32				
Hospital Island (U.S.C.&G.S.)	44	59	19.81				
New Brunswick 1860	66	54	54.28				
Nubble (U.S.C.&G.S.)	44	59	34.59				
New Brunswick 1860	66	54	23.84				
Mink, flag (U.S.C.&G.S.)	44	59	27.41				
New Brunswick 1863	66	56	10.32				



INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA  
GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

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International boundary line Passamaquoddy Bay - Northern Third Order State Maine Province New Brunswick

STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Mowe, flag (U.S.C.&G.S.) New Brunswick 1863	44 59 35.79 66 57 14.40					
Higgins, flag (U.S.C.&G.S.) New Brunswick 1863	44 59 52.74 66 56 10.16					
Simpson, flag (U.S.C.&G.S.) New Brunswick 1863	44 59 56.24 66 54 52.08					
Barns, flag (U.S.C.&G.S.) New Brunswick 1863	45 00 10.11 66 54 03.11					
Adam (U.S.C.&G.S.) New Brunswick 1863	45 00 49.02 66 54 26.69					
Whitehead (Admiral Owens) (U.S.C.&G.S.) New Brunswick 1860	45 01 21.77 66 51 53.80					
West Bliss, flag (U.S.C.&G.S.) New Brunswick 1863	45 01 27.88 66 50 49.30					
Perry, white house on point, chy. (U.S.C.&G.S.) Maine 1863	45 01 44.10 67 05 15.24					
Parker, flag (U.S.C.&G.S.) New Brunswick 1863	45 01 50.83 66 55 07.72					
East Bliss, flag (U.S.C.&G.S.) New Brunswick 1863	45 02 03.51 66 49 36.94					
Mascabin (U.S.C.&G.S.) New Brunswick 1863	45 02 19.34 66 53 28.47					
Pea Point, flag (U.S.C.&G.S.) New Brunswick 1863	45 02 30.91 66 48 14.82					
Deadman Head, flag (U.S.C.&G.S.) New Brunswick 1863	45 02 31.03 66 46 55.45					
Macmaster, flag (U.S.C.&G.S.) New Brunswick 1863	45 02 41.43 66 55 58.51					
Cailiff, flag (U.S.C.&G.S.) New Brunswick 1863	45 02 54.39 66 50 17.10					
St. Andrews flagstaff (U.S.C.&G.S.) New Brunswick 1863	45 04 49.50 67 03 13.41					
Flag at outer end of wharf New Brunswick 1909	45 04 55.36 67 05 07.04					
Clark's Point flagstaff (U.S.C.&G.S.) New Brunswick 1863	45 05 22.82 66 55 17.97					

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GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line Passamaquoddy Bay - Northern Third Order Maine Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
	°	'	"					
Minster Island, barn, west end (U.S.C.&G.S.) New Brunswick 1863	45	06	15.25					
	67	02	34.86					
Robbinston Spire (U.S.C.&G.S.) Maine 1887	45	05	03.24					
	67	06	43.69					



INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA  
GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

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International boundary line — Passamaquoddy Bay, Vicinity of Eastport Third Order State Maine Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
Friars Head (U.S.C.&G.S.) d.m. New Brunswick 1860; r. 1961	44 66	52 58	34.112 20.291	140 147 183 354 74	25 40 14 11 32	58.4 09.6 40.1 02.3 37.9	320 327 3 174 254	22 38 14 11 32	15.1 31.1 58.7 24.7 37.4	Perry Pigeon Prince Regents Redoubt Hannah Quoddy Friars Head 3	10881.2 5719.5 10212.1 6917.8 17.57	4.036678 3.757359 4.009116 3.839969 1.244702
Friars Head 2 (U.S.C.&G.S.) d.m. New Brunswick 1893; r. 1946, 1961	44 66	52 58	33.755 20.266	101 202 109 177	52 31 54 06	15.8 30.0 18.3 13.1	281 22 289 357	51 32 54 06	29.5 09.0 17.7 13.1	Treat 2 Campobello Friars Head 3 Friars Head 1	1470.5 3167.8 18.60 11.03	3.167462 3.500758 1.269521 1.042516
Prince Regents barn, north gable (U.S.C.&G.S.) Maine 1893 n.d.	44 67	55 00	20.09 23.29	147 188	47 29	41 09	327 8	47 29	18 23	Kendall 2 Cumming	1365.1 2889.8	3.135149 3.460873
Dog Island Maine 1894 l.	44 66	55 59	06.55 22.61	127 164	23 34	47 45	307 344	22 34	41 16	Kendall 2 Cumming	2590.5 3398.5	3.413376 3.531290
Cherry Island Monument (U.S.C.&G.S.) New Brunswick 1893 d.m.	44 66	55 58	07.34 02.65	22 335	21 30	29 01	202 155	20 30	30 27	Treat 2 Campobello	4799.3 1994.6	3.681175 3.299853
G-1894 New Brunswick 1894 n.d.	44 66	55 59	36.30 12.35	13 154	46 25	05 22	193 334	45 24	58 46	Dog Island Cumming	945.4 2614.1	2.975628 3.417324
Kendall Bluff (U.S.C.&G.S.) Maine 1893 n.d.	44 67	56 00	07.17 40.76	209 310	57 25	01 56	29 130	57 28	27 14	Cumming Campobello	1621.5 5643.9	3.209929 3.751583
H-1894 New Brunswick 1894 n.d.	44 66	55 58	24.97 26.98	65 109	01 22	11 05	245 289	00 21	32 33	Dog Island G-1894	1346.1 1054.7	3.129068 3.023125
E-1894 New Brunswick 1894 n.d.	44 66	55 59	50.96 03.72	22 314	42 52	44 44	202 134	42 53	38 10	G-1894 H-1894	490.6 1136.9	2.690743 3.055729
Cable Cross house (U.S.C.&G.S.) Maine 1893; r. 1946 d.	44 66	53 59	54.26 27.13	260 329	38 26	39 00	80 149	40 26	05 47	Campobello Friars Head 2	2716.6 2885.8	3.434021 3.460269
Eastport standpipe (U.S.C.&G.S.) Maine 1910; r. 1955, 1961 d.	44 66	54 59	25.113 23.664	0 281 338	52 06 10	06.2 00.6 28.4	180 101 158	52 07 11	04.7 24.4 12.6	Treat 2 Campobello Friars Head 3	3135.6 2654.1 3696.0	3.496317 3.423925 3.567731
Eastport Catholic Church spire (U.S.C.&G.S.) Maine 1910; r. 1946 d.	44 66	54 59	22.334 29.902	278 335 358	48 41 19	55.2 29.6 14.5	98 155 178	50 42 19	23.4 18.2 17.4	Campobello Friars Head 3 Treat 2	2774.1 3670.7 3050.7	3.443127 3.564746 3.484404
Eastport Congregational Church spire (U.S.C.&G.S.) Maine 1910; r. 1946 d.	44 66	54 59	15.396 16.635	4 274 338	04 55 42	17.1 24.9 55.7	184 94 158	04 56 43	10.6 43.7 34.9	Treat 2 Campobello Friars Head 3	2842.4 2459.3 3360.3	3.453687 3.390819 3.526383
Eastport Unitarian Church spire (U.S.C.&G.S.) Maine 1910; r. 1946 d.	44 66	54 59	10.528 21.138	2 271 336	11 21 08	46.5 56.6 11.9	182 91 156	11 23 08	43.2 18.6 54.3	Treat 2 Campobello Friars Head 3	2686.9 2549.8 3259.5	3.429259 3.406505 3.513149
Eastport Monument (U.S.C.&G.S.) Maine 1893 d.m.	44 66	54 59	32.032 44.804	149 172 174	13 06 30	32.6 50.4 40.8	329 352 354	12 06 30	42.0 19.1 27.4	Kendall 2 Clam Cove Cumming	3071.1 7078.3 4361.7	3.487299 3.849931 3.639656

International boundary line Passamaquoddy Bay, Vicinity of Eastport Third Order State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
Kendall Point Maine 1894; p.r. 1946	d.m.	44 56 07.157 67 00 40.765	134 23 53.8 183 34 55.9 209 56 43.6 337 18 40.1	314 22 28.0 3 35 04.1 29 57 09.7 157 19 19.6	Pleasant Point 1893 Clam Cove Cumming Eastport Monument	3726.0 4082.9 1621.8 3182.6	3.571243 3.610968 3.210009 3.502780						
Clark Ledge Beacon(U.S.C.&G.S.) Maine 1913; r. 1946	d.	44 54 55.269 66 59 06.660	128 35 36.0 160 55 26.6 302 52 16.0	308 34 18.4 340 54 46.2 122 53 27.7	Kendall 2 Cumming Campobello	3080.6 3835.1 2656.8	3.488640 3.583780 3.424360						
Deer Island, south end house chy. (U.S.C.&G.S.)Maine 1913	n.d.	44 55 34.388 66 59 09.920	106 59 41.5 153 56 24.8 319 00 11.4	286 58 26.2 333 55 46.7 139 01 25.4	Kendall 2 Cumming Campobello	2443.0 2690.5 3510.5	3.387924 3.429825 3.545370						
Eastport Salt Works, brick chy. (U.S.C.&G.S.) Maine 1913;r.1946	d.	44 53 40.799 66 59 35.694	253 21 50.5 321 32 56.3 353 00 54.5	73 23 22.8 141 33 49.0 173 01 01.5	Campobello Friars Head 3 Treat 2	2993.7 2634.3 1780.5	3.476213 3.420671 3.250535						
Esty (U.S.C.&G.S.) Maine 1861; r. 1946	d.m.	44 53 32.373 66 59 52.618	110 45 08.5 143 19 03.5 311 39 47.3	290 40 00.2 323 16 25.4 131 40 52.3	Foster Perry Pigeon Friars Head	10239.8 8214.7 2707.7	4.010290 3.914590 3.432597						
Grassy Point New Brunswick 1913; 1955;r.1961	d.m.	44 52 14.985 66 58 42.412	33 39 38.4 132 46 46.0 218 39 44.5	213 39 13.8 312 46 15.4 38 39 59.6	Lubec Church spire Treat 2 Friars Head 3	1383.1 1298.3 750.1	3.140864 3.113385 2.875144						
Pope Maine 1913; r. 1946	d.m.	44 52 07.205 66 59 03.584	18 19 37.5 156 28 55.0 228 29 34.1 242 40 10.2 332 25 26.2	198 19 27.8 336 28 39.3 48 30 04.1 62 40 25.1 152 25 36.8	Lubec Church spire Treat 2 Friars Head 3 Grassy Point Mulholland Point L.H.	959.8 1223.6 1246.3 523.2 711.2	2.982170 3.087624 3.095638 2.718631 2.851975						
Eastport, Weather Bureau flag- staff Maine 1913;r.1946	d.	44 54 20.712 66 59 08.612	342 25 30.6 351 34 14.1 358 27 56.6	162 26 04.2 171 34 32.6 178 28 00.2	Friars Head 3 Grassy Point Pope	3456.6 3923.4 4122.7	3.538649 3.593665 3.615184						
Eastport, Weather Bureau black signal pole Maine 1913;r.1946	d.	44 54 20.924 66 59 08.488	7 12 58.9 351 37 25.9 358 30 21.4	187 12 46.7 171 37 44.3 178 30 24.9	Treat 2 Grassy Point Pope	3029.9 3929.5 4129.2	3.481425 3.594338 3.615865						
Eastport, Weather Bureau National flagstaff Maine 1913;r.1946	d.	44 54 20.884 66 59 08.688	7 08 13.1 342 25 31.3 351 33 28.3 358 26 40.4	187 08 01.0 162 26 04.9 171 33 46.8 178 26 44.0	Treat 2 Friars Head 3 Grassy Point Pope	3028.1 3462.2 3928.9 4128.1	3.481168 3.539346 3.594272 3.615746						
Quoddy Village, tank(U.S.C.&G.S.) Maine 1946; r.1961	n.d.	44 55 41.710 67 01 39.470	69 07 05.9 157 52 40.8 242 39 19.6	249 05 09.6 337 51 56.2 62 39 50.0	Birch Pleasant Point 1913 Kendall 2	3862.7 3675.2 1061.7	3.586896 3.565286 3.025991						
Redoubt Hill, tank (U.S.C.&G.S.) Maine 1946	n.d.	44 55 12.350 67 00 46.599	84 22 27.9 149 28 04.1 171 10 42.3	264 19 54.2 329 26 42.1 351 10 35.3	Birch Pleasant Point 1913 Kendall 2	4791.8 5005.4 1410.6	3.680501 3.699440 3.149416						



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International boundary line Passamaquoddy Bay, Vicinity of Eastport Third Order State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Eastport ref. mark Maine 1913; r. 1955, 1961	d.m.	44 54 47.966 66 59 36.510	140 45 48.4 171 09 21.6 292 51 00.7	320 44 51.9 351 09 02.3 112 52 33.5	Kendall 2 Cumming Campobello	2771.8 3896.2 3132.1	3.442766 3.590641 3.495840
Deer Island ref. mark New Brunswick 1913; r. 1919, 1961	d.m.	44 55 36.228 66 59 12.436	19 31 03.5 106 04 22.0 154 28 44.7 318 55 57.5	199 30 46.5 286 03 08.5 334 28 08.4 138 57 13.3	Eastport ref. mark Kendall 2 Cumming Campobello	1580.6 2373.9 2615.3 3589.6	3.198827 3.375471 3.417523 3.555042
Range Mark 5 Maine 1919; r. 1946, 1961	d.m.	44 56 12.096 67 01 10.470	140 41 32.4 184 01 43.5 193 34 09.4	320 40 27.3 4 01 50.6 13 34 39.4	Pleasant Point 1913 Clam Ref. Mark Range Mark 4	3188.2 3106.3 3968.2	3.503541 3.492241 3.598598
Range Mark 6 Maine 1919; r. 1946, 1961	d.m.	44 56 07.186 67 01 16.036	144 04 04.9 185 58 33.8 194 43 00.3 218 50 22.0 228 24 51.1	324 03 03.7 5 58 44.8 14 43 34.2 38 50 25.9 48 25 42.1	Pleasant Point 1913 Clam Ref. Mark Range Mark 4 Range Mark 5 (comp.) Cumming	3233.8 3268.0 4145.1 194.6 2116.2	3.509707 3.514277 3.617532 2.289196 3.325553
Range Mark 7 Maine 1919; r. 1955, 1961	d.m.	44 55 10.181 67 00 05.528	142 36 05.8 166 28 32.6 180 40 19.0	322 35 29.8 346 27 53.8 0 40 20.2	Kendall 2 Clam ref. mark Cumming	1839.0 5152.9 3164.3	3.264592 3.712049 3.500278
Range Mark 8 Maine 1919; r. 1946, 1961	d.m.	44 54 32.650 66 59 42.932	65 05 34.2 148 23 13.0 156 50 24.8 164 35 25.2 173 56 55.4 353 38 24.5	245 05 32.9 328 22 21.1 336 50 08.9 344 34 30.5 353 56 40.7 173 38 36.6	Eastport Monument Kendall 2 Range Mark 7 (comp.) Clam Ref. Mark Cumming Treat 2	45.29 3076.1 1260.1 6398.7 4346.9 3388.7	1.655974 3.488000 3.100404 3.806089 3.638175 3.530032
Range Mark 9 Maine 1919; r. 1955, 1961	d.m.	44 55 21.849 67 00 21.123	144 51 11.2 187 41 51.9 253 34 29.8 316 28 41.3	324 50 46.2 7 42 04.1 73 35 18.3 136 28 52.3	Kendall 2 Cumming Deer Island ref. mark Range Mark 7	1346.2 2829.4 1570.4 496.7	3.129111 3.451696 3.196015 2.696103
Range Mark 10 Maine 1919; r. 1955, 1961	d.m.	44 55 15.816 67 00 30.295	155 58 04.9 190 58 42.5 227 12 27.0 249 44 16.9	335 57 46.4 10 59 01.2 47 12 33.5 69 45 11.9	Kendall 2 Cumming Range Mark 9 Deer Island ref. mark	1409.1 3045.9 274.1 1820.1	3.148944 3.483715 2.437946 3.260096
Cherry Island Bell New Brunswick 1919; r. 1946, 1961	d.	44 55 06.984 66 58 02.194	5 00 38.7 22 31 11.2 335 37 59.8	185 00 25.4 202 30 12.2 155 38 26.1	Friars Head 3 Treat 2 Campobello	4741.8 4792.9 1980.4	3.675945 3.680600 3.296745
Cherry Island Tower New Brunswick 1919; r. 1946, 1961	d.	44 55 06.993 66 58 02.298	4 58 58.5 22 29 35.3 335 34 36.4	184 58 45.3 202 28 36.4 155 35 02.8	Friars Head 3 Treat 2 Campobello	4741.9 4792.3 1981.6	3.675955 3.680546 3.297013

GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line Passamaquoddy Bay, Vicinity of Eastport Third Order State Maine Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
Range Mark 11 New Brunswick 1919; r. 1946, 1961	d.m.	44 55 32.773	66 59 11.194	20 33 48.7	77 36 16.3	108 18 35.9	200 33 26.3	257 35 27.0	288 17 21.6	Range Mark 8 (comp.) Range Mark 9 Kendall 2 Cumming (comp.) Cherry Island Tower Campobello	1982.2 1570.3 2431.5 2723.3 1707.8 3491.6	3.297154 3.195979 3.385874 3.435103 3.232432 3.543028
Range Mark 12 New Brunswick 1919; r. 1955, 1961	d.m.	44 54 08.903	66 57 24.393	47 55 22.9	137 52 10.9	155 07 36.1	227 55 22.5	317 50 55.5	335 07 09.3	Campobello Range Mark 11 Cherry Island Tower	16.56 3491.6 1976.6	1.219191 3.543025 3.295924
Range Mark 13 Maine 1919; r. 1955, 1961	d.m.	44 55 06.684	66 59 22.487	197 05 38.5	269 40 51.8	304 49 50.0	17 05 46.5	89 41 48.4	124 51 13.0	Range Mark 11 Cherry Island Tower Campobello	842.6 1758.9 3141.5	2.925608 3.245229 3.497132
Range Mark 14 Maine 1919; r. 1946, 1961	d.m.	44 54 41.368	66 59 02.204	150 20 54.2	172 55 02.9	238 56 48.5	330 20 39.9	352 54 56.6	58 57 30.8	Range Mark 13 (comp.) Range Mark 11 Cherry Island Tower Campobello Friars Head 3	899.2 1599.0 1533.7 2361.9 4035.3	2.953880 3.203856 3.185754 3.373259 3.605873
Range Mark 15 New Brunswick 1919; r. 1955, 1961	d.m.	44 54 12.214	66 57 30.437	114 05 44.8	124 23 10.2	138 22 52.2	294 04 40.0	304 21 51.1	318 21 41.1	Range Mark 14 Range Mark 13 Range Mark 11 Cherry Island Tower Campobello (comp.)	2205.2 2978.1 3327.0 1829.8 165.3	3.343443 3.473937 3.522050 3.262392 2.218185
Range Mark 16 New Brunswick 1919; r. 1955, 1961	d.m.	44 54 08.626	66 57 24.848	42 16 40.6	132 05 43.0		222 16 40.5	312 05 39.0		Campobello Range Mark 15 (comp.)	3.44 165.2	0.536432 2.218120
Range Mark 16 ecc. New Brunswick	d.	44 54 08.634	66 57 24.839	42 16 40.6	42 16 40.6	131 59 23.9	222 16 40.6	222 16 40.5	311 59 19.9	Range Mark 16 Campobello Range Mark 15	0.304 3.743 165.243	9.482416 0.573183 2.218123
Range Mark 17 New Brunswick 1919; r. 1946, 1961	d.m.	44 55 07.467	66 58 02.573	4 53 42.2	22 21 35.3	89 13 05.0	184 53 29.2	202 20 36.6	269 12 08.6	Friars Head 3 Treat 2 Range Mark 13 Cherry Island Tower	4756.0 4803.5 1752.9 15.8	3.677239 3.681561 3.243769 1.199027
Range Mark 18 New Brunswick 1919; r. 1946, 1961	d.m.	44 55 25.861	66 57 58.433	8 16 53.2	9 05 13.2	72 12 18.6	188 16 50.5	189 05 10.3	252 11 19.3	Cherry Island Tower Range Mark 17 Range Mark 13 Campobello	588.6 575.1 1936.2 2497.2	2.769810 2.759707 3.286959 3.397453
Cherry Island Ref. Mark New Brunswick 1913; r. 1919, 1961	d.m.	44 55 06.733	66 58 02.337	120 38 30.6	167 05 47.4		300 37 41.1	347 05 47.2		Deer Island ref. mark Range Mark 17	1786.8 23.23	3.252074 1.366049
Range Mark 19 Maine 1919; r. 1955, 1961	d.m.	44 53 51.233	66 59 12.494	257 13 45.3	334 40 20.0		77 15 01.2	154 40 56.3		Campobello Friars Head 3	2419.3 2638.9	3.383685 3.421425
Range Mark 20 Maine 1919; r. 1955, 1961	d.m.	44 53 52.221	66 59 17.412	4 58 51.7	258 26 53.0	285 47 20.1	184 58 45.8	78 28 12.4	105 47 23.6	Treat 2 Campobello Range Mark 19 Friars Head 3	2127.9 2518.3 112.1 2714.0	3.327949 3.401113 2.049728 3.433605



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GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

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International boundary line Passamaquoddy Bay, Vicinity of Eastport Third Order State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Range Mark 29 Maine 1919; r. 1955, 1961	d.m.	44 53 48.164 66 59 20.047	3 38 26.5 204 47 04.2 256 00 01.8 330 31 21.8	183 38 22.5 24 47 06.1 76 01 23.1 150 32 03.5	Treat 2 Range Mark 20 Campobello Friars Head 3	1998.7 137.9 2602.4 2631.1	3.300739 2.139660 3.415380 3.420136
Range Mark 30 Maine 1919; r. 1955, 1961	d.m.	44 53 52.385 66 59 20.934	2 53 40.8 273 44 39.9 331 30 13.8 351 30 11.7	182 53 37.4 93 44 42.4 151 30 56.1 171 30 12.3	Treat 2 Range Mark 20 Friars Head 3 Range Mark 29	2127.6 77.4 2754.5 131.7	3.327896 1.889020 3.440043 2.119683
Head Maine 1913; r. 1955, 1961	d.m.	44 53 47.678 66 59 19.190	4 12 36.4 128 33 56.4 330 43 13.6	184 12 31.7 308 33 55.7 150 43 54.6	Treat 2 Range Mark 29 Friars Head 3	1985.0 24.05 2608.8	3.297758 1.381151 3.416441
Kendall Head ref. target Maine 1913; r. 1946	d.m.	44 56 07.257 67 00 39.895	209 24 47.4 296 31 50.7 298 40 52.2 336 50 02.1	29 25 12.9 116 32 52.5 118 41 54.8 156 50 42.3	Cumming Deer Is. ref. mark Range Mark 11 Range Mark 8	1609.7 2143.8 2217.4 3176.5	3.206745 3.331178 3.345836 3.501943
Kendall Head ref. mark Maine 1919; r. 1946	d.m.	44 56 07.253 67 00 39.893	156 50 02.1 336 50 02.1	336 50 02.1 156 50 42.3	Kendall Head ref. target Range Mark 8	0.13 3176.3	9.127468 3.501925
Dog Island Light Maine 1946; 1955, 1961	d.	44 55 06.544 66 59 22.980	248 12 46.2	68 12 46.5	Range Mark 13	11.63	1.065747
Buckman Head ref. mark Maine 1913; r. 1955	d.m.	44 53 50.911 66 59 10.892	105 47 24.7 256 48 37.4	285 47 23.6 76 49 52.2	Range Mark 19 Campobello	36.53 2387.3	1.562652 3.377898
Cannery Range Target Maine 1913; r. 1936	d.m.	44 54 49.833 66 59 08.992	176 58 52.7 250 21 21.4	356 58 50.3 70 22 08.5	Deer Is. ref. mark Cherry Is. ref. mark	1434.2 1552.3	3.156601 3.190985
<u>POSITIONS OF LOST STATIONS</u>							
Kendall (U.S.C.&G.S.) Maine 1860		44 55 57.50 67 00 56.45					
Dog Island Monument (U.S.C.&G.S.) Maine 1893		44 55 06.58 66 59 22.62					
Eastport Ventilator, west gable (U.S.C.&G.S.) Maine 1893		44 54 48.78 66 59 08.58					
Eastport Selwood Factory, stack (U.S.C.&G.S.) Maine 1913		44 54 34.43 67 01 18.14					
Eastport Seacoast Factory No. 4, chimney (U.S.C.&G.S.) Maine 1913		44 54 08.77 66 59 07.19					
Eastport Seacoast Factory No. 2, chimney (U.S.C.&G.S.) Maine 1913		44 54 49.04 66 59 08.95					
Eastport Seacoast Co. iron stack (U.S.C.&G.S.) Maine 1913		44 54 08.79 66 59 07.20					

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GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line Passamaquoddy Bay, Vicinity of Eastport Third Order State Maine Province New Brunswick

STATION	LATITUDE AND LONGITUDE		AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
<u>POSITIONS OF LOST STATIONS</u>							
Kendall fish house (U.S.C.&G.S.) Maine 1893	44 67	56 01	12.40 10.11				
Cable Cross Monument (U.S.C.&G.S.) Maine 1893	44 66	53 59	50.92 10.91				
Fort Sullivan flagstaff (U.S.C.&G.S.) Maine 1861	44 66	54 59	25.62 17.66				
Marval (U.S.C.&G.S.) New Brunswick 1860	44 66	55 58	13.44 13.55				
Prince Regents Monument (U.S.C.&G.S.) Maine 1893	44 67	55 00	15.83 30.30				
Moses House, W. chimney (U.S.C.&G.S.) New Brunswick 1861	44 66	55 57	24.16 58.85				
Campobello Id.(B) (U.S.C.&G.S.) New Brunswick 1861	44 66	54 57	08.38 24.85				
Thumbcap Monument (U.S.C.&G.S.) New Brunswick 1893	44 66	55 57	25.89 58.47				
Kendall Head Monument (U.S.C.&G.S.) Maine 1893	44 67	56 01	07.19 16.06				
North Lubec Hotel, chimney (U.S.C.&G.S.) Maine 1913	44 67	53 02	53.21 36.34				



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GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line Passamaquoddy Bay, Southern Third Order State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Cooper (U.S.C.&G.S.) Maine 1918	d.m.	44 53 11.543 67 01 13.571	233 33 35.9 290 03 50.3 309 24 41.1	53 34 55.2 110 05 06.3 129 26 23.4	Eastport Unitarian church spire Treat 2 Mulholland Pt. L.H.	3066.3 2517.6 4119.9	3.486609 3.400986 3.614885
Sturgess House (U.S.C.&G.S.) d. New Brunswick 1893		44 52 32.371 66 57 30.124	92 13 36.8 97 44 54.2 182 11 18.8	272 13 01.4 277 43 32.5 2 11 22.4	Friars Head 2 Treat 2 Campobello	1101.4 2563.0 2970.9	3.041955 3.408745 3.472888
West Beacon (U.S.C.&G.S.) n.d. Maine 1806		44 50 20.778 66 58 31.561	63 22 26.7 287 47 11.3 341 04 16.7	243 20 27.3 107 48 06.9 161 04 47.2	Porcupine Indian Point Quoddy	4163.2 1819.2 2924.4	3.619425 3.259888 3.466044
Lubec Standpipe (U.S.C.&G.S.) d. Maine 1910; r. 1955		44 50 34.938 67 00 40.719	195 31 46.4 202 29 23.9 213 04 25.4 219 50 02.1	15 32 40.6 22 30 16.7 33 06 43.5 39 51 40.6	Buckman Treat 2 Campobello Friars Head 3	6300.0 4297.1 7870.5 4785.5	3.799341 3.633177 3.896002 3.679929
Liberty Point Ledge (U.S.C.&G.S.) New Brunswick 1860	n.d.	44 49 40.470 66 56 09.884	54 53 26.3 116 31 03.2	234 52 16.9 296 30 18.9	Quoddy Indian Point	2645.9 1542.0	3.422567 3.188085
Roger (U.S.C.&G.S.) Maine 1861; r. 1946	d.m.	44 52 10.116 67 00 19.501	14 26 40.7 175 26 34.9 254 11 53.8 331 35 54.7	194 25 57.3 355 26 20.6 74 13 17.8 151 37 41.3	Porcupine Prince Regents Redoubt Friars Head Quoddy	5413.0 5590.5 2715.5 6980.9	3.733436 3.747454 3.433852 3.843912
Comstock 2 (U.S.C.&G.S.) Maine 1861	d.	44 53 11.566 67 01 13.562	156 34 08.6 286 56 02.2 327 58 02.1 330 42 33.6	336 32 27.7 106 58 04.4 147 58 40.3 150 44 58.4	Perry Pigeon Friars Head Roger Quoddy	7878.7 3971.7 2237.4 9215.0	3.896453 3.598978 3.349752 3.964494
Comstock 1 (U.S.C.&G.S.) Maine 1860	d.	44 52 49.810 67 01 06.615	167 12 39.6 277 34 48.9 319 49 51.4	347 12 34.6 97 36 46.1 139 50 24.6	Comstock 2 Friars Head Roger	688.7 3679.2 1603.4	2.838015 3.565751 3.205038
Sculpin Maine 1913	l.	44 52 32.588 66 59 24.847	176 21 17.3 268 15 39.0 329 12 59.2	356 21 16.6 88 16 24.0 149 13 14.2	Treat 2 Friars Head 3 Pope (comp.)	339.0 1400.7 912.0	2.530256 3.146348 2.960007
Battery Maine 1913	n.d.	44 52 39.235 66 59 19.535	29 36 33.4 133 56 58.2 277 13 28.1	209 36 29.7 313 56 53.8 97 14 09.4	Sculpin Treat 2 Friars Head 3	236.0 191.9 1293.7	2.372911 2.283056 3.111845
Dudley Maine 1919; r. 1936	d.m.	44 52 19.618 66 59 33.060	192 07 28.3 204 14 22.7 300 37 53.0	12 07 33.4 24 14 28.5 120 38 13.8	Treat 2 Sculpin Pope	755.6 439.1 752.0	2.878280 2.642541 2.876211
Chambers New Brunswick 1913; r. 1955	d.m.	44 51 59.131 66 58 49.887	42 18 51.5 150 05 11.8 355 43 29.0	222 18 32.1 330 04 46.4 175 43 29.9	Lubec Church spire Treat 2 Mulholland Pt. L.H.	895.0 1581.9 382.2	2.951839 3.199185 2.582318
Charley New Brunswick 1913; r. 1955	d.m.	44 51 37.113 66 58 44.892	91 26 01.6 156 20 27.5 164 47 22.4	271 25 38.7 336 19 58.6 344 47 19.8	Lubec Church spire Treat 2 Mulholland Pt. L.H.	712.4 2239.0 302.3	2.852732 3.350063 2.480434

GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line Passamaquoddy Bay, Southern

Third Order

State Maine

Province New Brunswick

STATION		LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
Folly Maine 1913; r. 1919	d.m.	44 52 03.618	66 59 04.614	159 18 19.2	293 11 20.0	325 54 02.0	332 06 36.1	339 18 04.2	113 11 30.4	145 54 13.3	Treat 2 Chambers Mulholland Pt. L.H. Charley	1317.7 351.7 627.6 925.7	3.119803 2.546208 2.797652 2.966457
Breakwater 2 Maine 1919; 1955	d.	44 51 45.885	66 59 00.921	171 34 31.6	210 38 36.5	307 34 25.6		351 34 29.0	30 38 44.3	127 34 36.9	Folly Chambers Charley	553.4 475.3 444.0	2.743014 2.676934 2.647410
Lubec Traverse 3 Maine 1919	n.d.	44 51 42.040	66 58 58.590	199 54 31.7	236 18 15.8	296 49 29.8		19 54 37.8	56 18 22.8	116 49 39.4	Chambers Mulholland Pt. L.H. Charley	561.1 263.9 337.0	2.749046 2.421463 2.527650
Round Rock New Brunswick 1913; r. 1919	d.m.	44 49 40.368	66 56 09.772	54 58 36.5	116 34 50.5	131 20 26.5		234 57 27.0	296 34 06.1	311 18 14.5	Quoddy Indian Point Lubec Church spire	2646.1 1545.6 5484.8	3.422603 3.189098 3.739163
Larrabee Maine 1913; r. 1946	d.m.	44 49 10.075	66 57 38.767	154 35 53.6	199 23 34.6	244 25 48.9		334 34 44.4	19 23 53.0	64 26 51.7	Lubec Church spire Indian Point Round Rock	5044.8 1724.4 2167.3	3.702846 3.236648 3.335920
Mam Maine 1913; r. 1919	d.m.	44 49 56.600	66 59 26.800	266 17 19.1	301 10 07.0			86 18 53.7	121 11 23.2		Indian Point Larrabee	2951.8 2774.1	3.470088 3.443117
Lubec Channel L.H., final (U.S.C.&G.S.) Maine 1893; r. 1955	d.	44 50 30.883	66 58 38.209	45 14 51.1	294 47 33.4	332 21 48.3		225 14 16.8	114 48 33.7	152 22 30.2	Mam Indian Point Larrabee	1503.0 2069.0 2815.5	3.176958 3.315757 3.449563
Duck New Brunswick 1913; r. 1919	d.m.	44 50 33.118	66 57 47.733	62 37 23.5	86 26 38.8	355 36 19.3		242 36 13.6	266 26 03.2	175 36 25.6	Mam Lubec Chan. L.H. final Larrabee	2450.6 1110.7 2571.0	3.389271 3.045808 3.410100
Range Mark 39=Gunner New Brunswick 1913; r. 1946	d.m.	44 50 43.344	66 58 12.998	48 19 59.1	55 12 50.4	139 54 24.6	299 38 04.2	228 19 07.1	235 12 32.7	319 53 39.6	Mam Lubec Chan. L.H. final Lubec Church spire Duck Indian Point Larrabee	2170.1 674.2 2193.2 638.4 1822.9 2975.7	3.336493 2.828787 3.341074 2.805074 3.260752 3.473586
Cranberry Point New Brunswick 1913	d.m.	44 50 47.873	66 58 17.704	41 03 51.4	43 55 37.6	139 27 09.1	158 20 38.8	221 03 36.8	223 54 48.7	319 26 27.2	Lubec Chan. L.H. final Mam Lubec Church spire Charley Gunner=Range Mark 39	695.6 2197.3 2024.0 1635.5 170.0	2.842354 3.341893 3.306204 3.213649 2.230530
Cranberry Point, drill hole in ledge New Brunswick 1913	m.	44 50 48.917	66 58 18.427	325 08 16				145 08 17			Cranberry Point	39.29	1.594269
Telegraph Maine 1913	d.m.	44 51 08.728	66 59 10.376	170 18 27.0	298 57 22.6	301 52 16.1	328 50 12.1	350 18 22.5	118 58 00.0	121 52 56.6	Lubec Church spire Cranberry Point Range Mark 39=Gunner Lubec Chan. L.H. final	907.0 1329.5 1483.8 1365.2	2.957597 3.123695 3.171379 3.135204



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GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line Passamaquoddy Bay, Southern

Third Order

State Maine

Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Pond	d.m.	44 50 19.819	27 24 53.5	207 24 17.6	Larrabee	2425.2	3.384747
New Brunswick 1913; r. 1919		66 56 47.944	45 55 58.1	225 55 40.6	Indian Point	756.8	2.878964
			325 26 51.6	145 27 18.5	Round Rock	1478.6	3.169836
Bello	d.m.	44 49 49.672	50 09 57.3	230 09 46.3	Round Rock	448.3	2.651604
New Brunswick 1913; r. 1919		66 55 54.100	62 00 57.9	241 59 44.1	Larrabee	2604.1	3.415663
			103 11 07.2	283 10 11.8	Indian Point	1773.2	3.248765
Sail Rock	d.m.	44 48 44.712	169 31 15.4	349 31 01.1	Indian Point	2450.4	3.389232
Maine 1913; r. 1946		66 56 52.410	62 35 53.8	28 36 23.9	Round Rock	1956.9	3.291558
			212 34 04.0	32 34 45.1	Bello	2379.5	3.376493
Liberty Point	d.m.	44 49 48.401	38 47 26.6	218 46 35.9	Sail Rock	2522.1	3.401757
New Brunswick 1913		66 55 40.506	68 54 45.5	248 54 24.9	Round Rock	689.1	2.838261
			97 29 17.8	277 29 08.2	Bello	301.2	2.478853
"The Friar" Rock	n.d.	44 52 36.079	85 38 39.4	265 37 54.0	Sculpin	1416.6	3.151256
New Brunswick 1913		66 58 20.494	94 18 20.3	274 17 38.6	Battery	1299.6	3.113796
			99 08 31.4	279 07 45.3	Treat 2	1452.5	3.162106
Black Can Buoy No. 9	n.d.	44 52 11.14	26 32 04	206 32 02	Pope	135.9	2.133245
Maine 1913		66 59 00.82	231 05 26	51 05 54	Friars Head 3	1121.4	3.049779
			253 38 30	73 38 43	Grassy Point	421.1	2.624376
Lubec lower church spire	d.	44 51 39.113	201 20 08.1	21 20 17.6	Folly	812.1	2.909615
Maine 1913; r. 1946		66 59 18.073	225 02 16.9	45 02 36.8	Chambers	874.5	2.941770
			274 50 22.0	94 50 45.4	Charley	731.1	2.863988
Black Spar Buoy No. 1	n.d.	44 50 10.66	186 11 51	6 11 55	Cranberry Point	1155.4	3.062739
Maine 1913		66 58 23.08	192 23 00	12 23 07	Range Mark 39=Gunner	1032.9	3.014053
			228 14 20	48 14 45	Duck	1040.8	3.017381
Red Nun Buoy No. 4	n.d.	44 50 31.01	212 21 15	32 21 26	Cranberry Point	616.4	2.789829
Maine 1913		66 58 32.42	228 14 35	48 14 49	Range Mark 39=Gunner	571.9	2.757312
			266 11 48	86 12 20	Duck	983.7	2.992852
West Lubec Church spire	n.d.	44 49 18.606	214 39 03.3	34 40 01.2	Range Mark 39=Gunner	3180.1	3.502434
Maine 1913		66 59 35.328	246 28 23.8	66 30 04.3	Indian Point	3417.0	3.533644
			289 49 00.7	109 50 16.1	Quoddy	2497.7	3.397546
Bell Buoy	n.d.	44 49 18.34	75 15 41	255 15 10	Larrabee	1002.8	3.001224
Maine 1913		66 56 54.63	163 51 18	343 51 05	Indian Point	1427.7	3.154628
			235 23 26	55 23 57	Round Rock	1197.2	3.078170
Red Nun Buoy No. 2	n.d.	44 49 38.00	104 56 41	284 55 32	Mam	2227.2	3.347761
Maine 1913		66 57 48.84	180 49 00	0 49 01	Duck	1701.4	3.230816
			345 36 21	165 36 28	Larrabee	890.1	2.949442
Life-saving station flagpole		44 48 38.847	157 00 51.3	337 00 18.5	Mam	2607.2	3.416177
Maine 1913	n.d.	66 58 40.451	216 38 55.0	36 39 56.8	Indian Point	3229.2	3.509093
			251 36 55.0	71 37 31.7	Quoddy	1205.5	3.081169

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International boundary line Passamaquoddy Bay, Southern

Third Order

State

Maine

Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Sail Rock, highest point Maine 1913; r. 1961	n.d.	44 48 44.910 66 56 51.412	168 59 25.7 208 06 59.3 212 11 58.5	348 59 10.7 28 07 28.7 32 12 38.9	Indian Point Round Rock Bello	2448.5 1941.1 2362.6	3.388892 3.288038 3.373396
West Quoddy Head Light (West Quoddy Light, USC&GS) Maine 1860; 1913; r. 1955, 1961	d.	44 48 54.127 66 57 03.665	219 40 14.2 221 42 20.1 227 28 15.5 319 36 13.6	39 40 52.2 41 43 09.1 47 29 14.1 139 36 21.5	Round Rock Bello Liberty Point Sail Rock	1854.6 2296.9 2478.9 381.6	3.268247 3.361140 3.394254 2.581612
Range Mark 21 Maine 1919; r. 1946, 1961	d.m.	44 52 41.091 66 59 15.998	109 22 22.1 222 03 39.0 280 20 25.9	289 22 15.2 42 04 57.4 100 21 04.7	Treat 2 Campobello Friars Head 3	228.7 3636.7 1225.7	2.359315 3.560711 3.088399
Range Mark 22 Maine 1919; r. 1946, 1961	d.m.	44 52 41.962 66 59 25.658	175 36 50.5 277 13 25.9 279 52 34.8	355 36 50.4 97 13 32.7 99 53 20.4	Treat 2 Range Mark 21 Friars Head 3	49.13 213.7 1439.2	1.691382 2.329838 3.158119
Range Mark 23 Maine 1919; r. 1946, 1961	d.m.	44 52 07.082 66 59 04.150	17 41 22.5 121 22 38.8 252 57 39.6	197 41 13.2 301 22 18.4 72 57 40.0	Lubec Ch. spire (comp.) Dudley Pope	952.3 743.3 12.99	2.978781 2.871166 1.113643
Range Mark 24 Maine 1919; r. 1946, 1961	d.m.	44 52 05.844 66 59 04.705	17 41 22.1 124 20 25.4 151 49 48.4 197 41 22.1	197 41 13.2 304 20 05.4 331 49 34.2 17 41 22.5	Lubec Ch. spire Dudley Sculpin Range Mark 23	912.2 753.8 936.5 40.1	2.960095 2.877256 2.971508 1.603193
Range Mark 25 New Brunswick 1919; r. 1955, 1961	d.m.	44 52 00.882 66 58 49.055	18 39 53.1 103 53 16.1 121 27 44.8 148 29 58.1	198 39 52.5 283 53 05.1 301 27 34.5 328 29 32.1	Chambers Folly Pope Treat 2	57.1 351.9 373.9 1544.8	1.756363 2.546362 2.572791 3.188861
Range Mark 26 New Brunswick 1919; r. 1955, 1961	d.m.	44 52 00.747 66 58 47.783	98 32 50.0 147 42 27.4	278 32 49.1 327 42 00.5	Range Mark 25 Treat 2	28.23 1563.1	1.450680 3.193979
Range Mark 27 Maine 1919; r. 1955; lost 1961	d.m.	44 51 45.951 66 59 01.044	211 02 55.3 307 03 25.5	31 03 03.2 127 03 25.6	Chambers Breakwater 2	474.9 3.38	2.676600 0.528917
Range Mark 28 Maine 1919; r. 1955, 1961	d.m.	44 51 42.216 66 59 01.825	188 27 42.3 206 39 13.6 274 22 04.1	8 27 42.8 26 39 22.0 94 22 06.4	Range Mark 27 (comp.) Chambers (comp.) Lubec Traverse 3	116.6 584.2 71.23	2.066551 2.766588 1.852657
Range Mark 31 Maine 1919; r. 1946, 1961	d.m.	44 52 32.046 66 59 26.677	20 03 44.4 247 23 49.4	200 03 39.9 67 23 50.7	Dudley Sculpin	408.4 43.51	2.611111 1.638579
Gull Maine 1919; r. 1946, 1961	d.m.	44 52 37.200 66 59 46.883	289 43 51.8 330 47 25.7	109 44 06.1 150 47 35.5	Range Mark 31 Dudley	471.2 621.8	2.673188 2.793644
Range Mark 32 Maine 1919; r. 1946, 1961	d.m.	44 52 39.507 66 59 31.337	3 31 29.4 78 12 40.3 336 03 14.2	183 31 28.2 258 12 29.3 156 03 17.5	Dudley Gull Range Mark 31	615.1 348.6 252.0	2.788960 2.542301 2.401407
Range Mark 33 New Brunswick 1919; r. 1955, 1961	d.m.	44 51 37.097 66 58 44.545	93 44 33.2 156 10 05.0	273 44 33.0 336 09 35.9	Charley Treat 2 (comp.)	7.63 2242.6	0.882297 3.350745



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International boundary line Passamaquoddy Bay, Southern

Third Order

State Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
Range Mark 34 d.m. New Brunswick 1919; r. 1955, 1961	44	51	36.752	91	52	55.1	271	52	26.7	Lubec Ch. spire	883.2	2.946074
	66	58	37.123	93	44	38.5	273	44	33.0	Charley	170.9	2.232816
				93	44	38.5	273	44	33.2	Range Mark 33	163.3	2.212994
Range Mark 35 d.m. New Brunswick 1919; r. 1946, 1961	44	51	36.402	94	32	14.4	274	32	10.0	Range Mark 34	136.6	2.135331
	66	58	30.923	129	34	00.5	309	33	48.0	Mulholland Pt. L.H.	503.1	2.701669
Range Mark 36 d.m. New Brunswick 1919; r. 1946, 1961	44	51	41.054	0	22	47.6	180	22	47.6	Range Mark 35	143.6	2.157130
	66	58	30.880	45	54	47.0	225	54	42.6	Range Mark 34	190.9	2.280698
				68	25	48.4	248	25	38.5	Charley	330.8	2.519589
				84	11	26.2	264	10	53.4	Lubec Ch. spire	1025.1	3.010768
				114	27	48.6	294	27	36.1	Mulholland Pt. L.H.	427.1	2.630573
				147	59	20.1	327	58	41.3	Treat 2	2275.2	3.357027
Range Mark 37 d.m. New Brunswick 1919; r. 1946, 1961	44	50	54.641	131	57	34.6	311	56	47.1	Lubec Ch. spire	1987.8	3.298371
	66	58	10.005	149	42	23.8	329	41	59.2	Charley	1518.5	3.181410
				149	56	44.6	329	56	20.2	Range Mark 33	1514.2	3.180191
				153	39	52.8	333	38	59.3	Treat 2	3751.5	3.574200
Range Mark 38 d.m. New Brunswick 1919; r. 1946, 1961	44	50	52.731	119	38	12.5	299	38	09.2	Range Mark 37	119.23	2.076386
	66	58	05.286									
Range Mark 40 d.m. New Brunswick 1919; r. 1946, 1961	44	50	44.362	43	44	58.3	223	44	57.3	Range Mark 39=Gunner	43.51	1.638619
	66	58	10.628	314	45	54.4	134	46	36.0	Indian Point	1823.1	3.260812
Range Mark 41 d.m. Maine 1919; r. 1946, 1961	44	49	07.995	149	48	30.7	329	47	42.9	Lubec Chan.L.H., finial	2960.4	3.471352
	66	57	30.423	192	58	00.9	12	58	13.4	Indian Point	1735.0	3.239310
				238	41	32.9	58	42	40.8	Bello	2476.5	3.393846
Range Mark 42 d.m. Maine 1919; r. 1946, 1961	44	49	04.236	151	55	15.1	331	55	13.1	Range Mark 41	131.53	2.119025
	66	57	27.605									
Range Mark 43 d.m. Maine 1919; r. 1955, 1961	44	49	52.916	193	43	18	13	43	19	Mam (comp.)	117.07	2.068444
	66	59	28.064	223	03	04.4	43	03	39.5	Lubec Chan.L.H. finial	1604.0	3.205196
				264	08	48.7	84	10	24.1	Indian Point	2989.0	3.475521
				271	11	57.7	91	14	28.5	Bello	4701.2	3.672208
				298	50	00.2	118	51	17.2	Larrabee	2741.2	3.437948
Life-saving station lookout tower Maine 1919; r. 1955	44	48	53.934	130	15	16.5	310	14	07.5	Range Mark 43	2818.1	3.449964
	66	57	50.154	201	09	57.8	21	10	24.2	Indian Point	2278.6	3.357664
				235	58	36.7	55	59	58.5	Bello	3075.9	3.487978
Range Mark 44 d.m. Maine 1919; r. 1955, 1961	44	49	54.100	229	55	43.5	49	56	26.8	Lubec Chan.L.H., finial	1764.0	3.246504
	66	59	39.673	265	14	53.0	85	16	36.6	Indian Point	3239.5	3.510480
				278	09	34.1	98	09	42.3	Range Mark 43	257.6	2.410964
				307	39	13.2	127	40	30.4	Life-saving sta. look- out tower	3039.5	3.482805
Range Mark 45 d.m. New Brunswick 1919; r. 1946, 1961	44	50	30.378	5	28	48.3	185	28	40.7	Larrabee	2490.2	3.396241
	66	57	27.943	301	21	26.0	121	22	32.2	Bello	2414.0	3.382745
				338	33	05.9	158	33	16.7	Indian Point	915.7	2.961750

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
Range Mark 46 New Brunswick 1919; r. 1946, 1961	d.m.	44 50 52.258	312 58 38.1	132 59 01.3	Range Mark 45	990.7	2.995947					
		66 58 00.945	325 14 58.8	145 15 32.8	Indian Point	1859.2	3.269331					
			351 13 04.8	171 13 20.4	Larrabee	3191.7	3.504019					
Range Mark 47 New Brunswick 1919; r. 1946, 1961	d.m.	44 49 49.867	11 22 04.4	191 22 04.4	Bello	6.15	0.788875					
		66 55 54.045	61 54 41.8	241 53 28.0	Larrabee	2608.0	3.416314					
Range Mark 48 New Brunswick 1919; r. 1946, 1961	d.m.	44 49 51.764	11 22 05.5	191 22 05.1	Range Mark 47	59.72	1.776098					
		66 55 53.509										
Telegraph 1919 Maine 1919	d.	44 51 08.756	170 19 02.8	350 18 58.2	Lubec Ch. spire	906.1	2.957177					
		66 59 10.390	301 53 33.0	121 54 13.4	Range Mark 39=Gunner	1484.5	3.171583					
			328 50 38.9	148 51 01.6	Lubec Chan.L.H., finial	1366.1	3.135481					
<b>POSITIONS OF LOST STATIONS</b>												
Thornton flag (U.S.C.&G.S.) Maine 1892		44 37 34.66										
		67 16 45.03										
Front flag, Quoddy Range (U.S.C.&G.S.) Maine 1893		44 49 55.36										
		66 59 27.53										
Liberty Point, flag (U.S.C.&G.S.) New Brunswick 1860		44 49 56.13										
		66 55 55.62										
Back flag, Quoddy Range (U.S.C.&G.S.) Maine 1893		44 49 56.59										
		66 59 37.97										
Lubec Narrows Beacon (U.S.C.&G.S.) Maine 1886		44 50 20.96										
		66 58 31.15										
Mark Island, flag (U.S.C.&G.S.) Maine 1861		44 52 05.12										
		66 59 05.42										
Popes Folly Monument (U.S.C.&G.S.) Maine 1893		44 52 07.50										
		66 59 03.99										
Lizard Signal (U.S.C.&G.S.) Maine 1860		44 52 19.33										
		66 59 34.23										
Herring Cove (White Rock) (U.S.C.&G.S.) New Brunswick 1860		44 52 31.26										
		66 54 50.20										
Herring Cove, flag (U.S.C.&G.S.) New Brunswick 1860		44 52 37.00										
		66 54 56.47										
Treat (U.S.C.&G.S.) Maine 1860		44 52 43.54										
		66 59 25.83										
East Beacon (U.S.C.&G.S.) Maine 1860		44 49 49.39										
		66 57 49.23										



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International boundary line Passamaquoddy Bay, Southern

Third Order

State

Maine

Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
<u>POSITIONS OF LOST STATIONS</u>							
Lubec school flagpole Maine 1913		44 51 34.99 66 59 16.94					
Plaster Mill Chimney (U.S.C.&G.S.) Maine 1860		44 51 32.04 67 00 42.72					
Friars Head Pavilion (U.S.C.&G.S.) New Brunswick 1886		44 52 34.02 66 58 20.68					
Small Baptist Church (U.S.C.&G.S.) Maine 1860		44 52 54.28 67 01 23.17					
Breakwater Maine 1913		44 51 45.90 66 59 00.92					
Lookout flagstaff Maine 1913		44 48 53.95 66 57 50.27					
Alder New Brunswick 1913		44 50 54.85 66 58 10.50					
Extra New Brunswick 1913		44 51 35.30 66 58 30.09					
Black Can Buoy No. 5 Maine 1913		44 51 04.4 66 58 31.3					
White Can Buoy (Marked F.H.) New Brunswick 1913		44 52 38.66 66 58 49.88					
<u>1961 ADDENDA</u>							
Breakwater 3 - 1961 Maine 1919; r. 1961	d.m.	44 51 45.894 66 59 00.922	9 54 27.0 54 53 42.0 204 20 38.4 210 39 42.8	189 54 26.4 234 53 30.4 24 20 51.4 30 39 50.6	Range Mark 28 Lubec Ch. Sp. Grassy Point Chambers	115.2 440.3 985.7 475.0	2.061585 2.643795 2.993738 2.676739
Lubec Tablet Maine 1961	d.m.	44 51 45.744 66 59 01.087	8 27 42.8 218 11 46.8	188 27 42.3 38 11 46.9	Range Mark 28 Breakwater 3	110.1 5.86	2.041822 0.767995
Range Mark 27 - 1961 Maine 1961	d.m.	44 51 45.639 66 59 01.109	8 27 42.8 188 27 42.8 188 27 42.8 188 27 42.8	188 27 42.3 8 27 42.8 8 27 45.2 8 27 50.5	Range Mark 28 Lubec Tablet T.P. 8 T.P. 7	106.8 3.27 506.2 1650.8	2.028725 0.514615 2.704299 3.217687

GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line Passamaquoddy Bay - Western

Third Order

State Maine

Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Iron Works Mountain (C&GS) Maine 1887; r. 1946	d.m.	44 59 24.650 67 10 26.212	21 14 34.1 188 12 08.8 305 47 01.2 329 12 01.5 343 07 11.9	201 13 25.1 8 13 00.8 125 49 15.8 149 14 20.8 163 07 54.4	Oak Shortland (comp.) Smart Hersey Campbell	5914.0 11266.1 5145.7 8442.9 4533.7	3.771883 4.051772 3.711442 3.926492 3.656453
Moosehorn (C.&G.S.) Maine 1946	d.m.	45 05 32.836 67 14 13.005	153 57 47.0 191 41 05.8 271 50 52.9	333 55 56.1 11 41 55.3 91 54 25.6	Maguerrewoc Lane Shortland	7775.1 7529.7 6570.3	3.890708 3.876775 3.817583
Lovely (C.&G.S.) Maine 1946	d.m.	45 02 25.008 67 12 03.806	154 00 17.6 154 01 28.9 213 49 24.3 338 59 32.0	333 56 55.2 333 59 57.4 33 51 25.4 159 00 41.0	Maguerrewoc Moosehorn Shortland Iron Works Mountain	14225.6 6450.5 6721.7 5963.6	4.153072 3.809594 3.827479 3.775511
Ayers (C.&G.S.) Maine 1946	d.m.	45 00 08.420 67 14 57.684	185 34 19.3 222 03 41.1 282 46 31.0 330 57 58.0	5 34 50.8 42 05 44.0 102 49 42.9 151 00 00.8	Moosehorn Lovely Iron Works Mountain Oak	10062.3 5680.8 6097.9 7848.9	4.002698 3.754407 3.785180 3.894811
Lookout Tower (Bald Mt. Fire d. Tower) Maine 1946		45 05 16.513 67 17 21.730	138 16 42.8 185 24 42.2 186 05 52.9 263 01 11.2 341 38 49.9	318 13 30.5 5 25 05.2 6 06 20.1 83 03 25.0 161 40 32.1	John Maguerrewoc Hitchings Moosehorn Ayers	8907.0 7522.6 7913.3 4157.7 10019.6	3.949732 3.876370 3.898355 3.618856 4.000851
Charlôtte, house chimney (C.&G.S.) Maine 1887	n.d.	44 59 23.808 67 14 34.103	287 12 59.3 302 33 02.5 329 01 46.9	107 18 08.9 122 36 40.0 149 03 33.0	Smart Campbell Oak	10057.9 8008.5 6397.8	4.002508 3.903551 3.806032
Kehoe (C.&G.S.) Maine 1887; r. 1946	d.m.	44 57 31.884 67 07 46.949	235 26 39.5 295 48 13.6 347 35 16.6	55 27 01.5 115 50 25.3 167 35 43.3	Smart Cannon Hersey	830.3 4541.3 3862.8	2.919238 3.657182 3.586897
Taylor (C.&G.S.) Maine 1887; n.r. 1946	d.m.	44 58 33.561 67 11 30.985	0 26 16.9 10 24 15.8 284 20 44.8 314 39 01.0 315 15 17.9	180 26 14.9 190 23 52.5 104 23 45.0 134 42 05.9 135 16 46.0	Arcus Oak Smart Hersey Campbell	8087.8 4001.2 5774.0 8073.6 3887.1	3.907832 3.602191 3.761476 3.907068 3.589629
Antoine's chimney (C.&G.S.) d. Maine 1887; l. 1946		44 57 23.328 67 12 50.885	264 15 11.1 295 03 15.4 329 47 05.6	84 19 07.9 115 07 16.9 149 47 38.9	Smart Hersey Oak	7382.2 8274.5 2045.2	3.868184 3.917742 3.310726
Pembroke, Old English Church (C.&G.S.) Maine 1887; r. 1946 d.		44 57 42.962 67 09 53.933	18 33 41.8 50 13 29.3 267 51 19.4 333 05 11.7	198 32 31.3 230 11 57.5 87 53 11.1 153 05 31.3	Arcus Oak Smart Campbell	6883.3 3708.9 3469.3 1345.1	3.837797 3.569243 3.540242 3.128750
Pembroke, schoolhouse belfry (C.&G.S.) Maine 1887; l. 1946 d.		44 57 38.787 67 09 55.573	18 37 12.5 51 26 05.7 265 46 33.1 328 56 18.0	198 36 03.2 231 24 35.1 85 48 26.0 148 56 38.8	Arcus Oak Smart Campbell	6749.7 3599.6 3512.4 1249.7	3.829284 3.556255 3.545599 3.096814



INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA  
GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

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International boundary line Passamaquoddy Bay - Western Third Order State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Pembroke, Washington Hall (C.&G.S.) Maine 1887; l. 1946 d.		44 57 13.261 67 09 51.637	21 47 05.8 63 20 49.1 252 58 04.1 296 50 04.8	201 45 53.7 243 19 15.7 72 59 54.2 116 50 22.8	Arcus Oak Smart Campbell	6039.7 3245.7 3573.3 625.9	3.781017 3.511311 3.553068 2.796530
Pembroke, Baptist Church (C.&G.S.) Maine 1887; r. 1946 d.		44 57 13.597 67 09 46.227	22 47 06.4 64 05 53.1 252 33 26.1 303 39 23.5	202 45 50.5 244 04 15.9 72 35 12.4 123 39 37.7	Arcus Oak Smart Campbell	6094.3 3356.6 3457.0 528.5	3.784922 3.525904 3.538694 2.723074
Leach (C.&G.S.) Maine 1887; r. 1946	d.m.	44 56 22.120 67 06 02.895	41 53 06.6 148 41 08.6 356 00 15.0	221 52 19.8 328 40 17.1 176 00 29.5	Hersey Smart Case	2174.5 3072.1 6500.6	3.337352 3.487442 3.812952
William L (C.&G.S.) Maine 1887; r. 1946	d.m.	44 56 03.271 67 05 09.340	68 27 37.2 139 10 34.2 219 53 17.6	248 26 12.6 319 09 04.9 39 53 38.0	Hersey Smart Cannon	2823.5 4237.9 987.0	3.450782 3.627146 2.994303
Foster (C.&G.S.) Maine 1860	d.m.	44 55 29.677 67 07 09.232	67 27 51.9 237 32 24.0 273 53 44.2 326 07 31.7	247 24 45.1 57 34 54.3 93 58 19.2 146 11 37.4	Arcus Perry Pigeon Prince Regents Redoubt Porcupine	6284.4 5527.3 8562.3 13727.9	3.798266 3.742511 3.932589 4.137603
Pembroke (C.&G.S.) Maine 1860; p.L. 1946	d.	44 57 45.11 67 12 06.57	287 30 10 302 38 40	107 38 15 122 42 10	Prince Regents Redoubt Foster	15795.4 7744.3	4.198530 3.888984
Loring's barn, ventilator (C.&G.S.) Maine 1887	n.d.	44 55 58.240 67 03 47.150	78 45 28.9 289 39 07.5 353 47 08.6	258 43 06.3 109 41 19.9 173 47 20.7	Hersey Prince Regents Redoubt Gove	4515.4 4364.5 3483.4	3.654698 3.639930 3.542007
Yellow house chimney, near Foster (C.&G.S.) Maine 1860	n.d.	44 55 38.90 67 07 28.61	303 49 54 335 41 08	123 50 08 155 42 23	Foster Denboe	511.5 5643.0	2.708857 3.751509
Lincolns Point, white house, left one of twin chimneys (C.&G.S.) Maine 1913; r. 1946	d.	44 55 06.04 67 04 38.62	31 35 06 356 07 24	211 34 53 176 07 29	Red Island Razor Island	797.0 2392.3	2.901433 3.378810
Birch (C.&G.S.) Maine 1887; r. 1946	d.m.	44 54 57.075 67 04 24.007	172 39 19.4 265 06 33.4 323 01 21.1	352 39 07.7 85 09 11.8 143 01 59.3	Cannon Prince Regents Redoubt Gove	2823.9 4936.6 1971.2	3.450845 3.693426 3.294737
Red Island (C.&G.S.) Maine 1886; r. 1946	d.m.	44 54 44.046 67 04 57.652	15 48 36.2 42 52 01.5 116 03 04.5 301 21 26.5 333 58 48.6	195 48 04.7 222 48 44.1 296 01 31.7 121 22 28.4 154 00 45.8	Case Little 2 Hersey Gove Small	3593.1 9030.6 3208.6 2252.9 8318.2	3.555475 3.955717 3.506314 3.352750 3.920031
Mitchell (C.&G.S.) Maine 1887; l. 1946	d.	44 54 42.397 67 09 37.917	6 31 26.3 69 29 17.6 134 59 46.9	186 31 08.5 249 27 55.8 314 58 03.8	Cox Arcus Oak	4857.5 2714.6 4527.5	3.686409 3.433704 3.655860

## INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA

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GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line Passamaquoddy Bay - Western Third Order State Maine Province New Brunswick

STATION		LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
Dunn (C.&G.S.) Maine 1887; r. 1946	d.m.	44	54	41.929	23	44	56.6	203	44	43.3	Arcus	1023.9	3.010269
		67	11	15.008	107	27	34.2	287	26	21.1	Page	2380.4	3.376648
					161	32	42.7	341	32	08.1	Oak	3389.3	3.530108
Dennysville spire (C.&G.S.) Maine 1887	n.d.	44	54	16.362	99	16	43.7	279	16	22.9	King	656.0	2.816874
		67	13	45.655	209	06	46.1	29	07	57.9	Oak	4583.6	3.661203
					214	30	44.2	34	31	17.5	Page	1824.1	3.261051
					272	54	59.8	92	56	32.9	Arcus	2896.5	3.461869
Wilbur (C.&G.S.) Maine 1887; r. 1946	d.m.	44	53	49.289	1	59	10.1	181	59	04.6	Little 2	4934.4	3.693238
		67	09	29.642	12	57	50.3	192	57	26.7	Cox	3269.9	3.514537
					104	10	49.0	284	09	21.4	Arcus	2809.7	3.448654
Razor Island (C.&G.S.) Maine 1886; r. 1946	d.m.	44	53	48.719	41	41	52.1	221	41	02.0	Case	2342.7	3.369718
		67	04	31.252	132	00	15.7	311	58	24.3	Hersey	4658.3	3.668232
					161	16	10.1	341	15	51.5	Red Island (computed)	1803.4	3.256098
					177	38	34.0	357	38	27.5	Cannon	4914.9	3.691519
					331	58	47.3	152	00	25.9	Small	6533.4	3.815136
					333	13	19.6	153	15	33.8	Porcupine	9279.6	3.967528
Point Leighton (C.&G.S.) Maine 1887; r. 1946	d.m.	44	53	43.291	36	53	12.8	216	51	18.4	Little 2	5933.0	3.773275
		67	06	55.251	98	09	18.5	278	06	01.9	Arcus	6173.7	3.790545
					174	43	09.9	354	43	00.1	Hersey	3297.9	3.518241
					314	37	55.6	134	38	47.1	Case	2251.3	3.352432
Richardson (C.&G.S.) Maine 1887; r. 1935	d.m.	44	53	08.881	165	54	50.3	345	54	34.7	Arcus	1995.1	3.299962
		67	11	11.672	230	44	21.0	50	47	12.3	Hersey	6871.0	3.837023
					330	40	26.6	150	41	33.1	Little 2	4225.3	3.625853
Pole near Case (C.&G.S.) Maine 1913	n.d.	44	52	51.89	158	39	22	338	38	21	Hersey	5229.8	3.718481
		67	05	42.30	195	47	39	15	48	11	Red Island	3598.2	3.556087
Dram (C.&G.S.) Maine 1887; r. 1946	d.m.	44	53	00.538	16	24	29.3	196	23	56.9	Little 2	3572.0	3.552908
		67	08	51.480	43	03	35.0	223	02	44.5	Cox	2301.4	3.361999
					121	37	52.2	301	35	57.7	Arcus	4182.7	3.621454
Leighton's house chimney (C.&G.S.) Maine 1860	n.d.	44	52	48.41	199	50	20	19	51	52	Perry Pigeon	8444.9	3.926596
		67	05	47.22	219	17	20	39	17	23	Denboe	155.3	2.191093
Smith (C.&G.S.) Maine 1887; r. 1946	d.m.	44	52	21.319	15	26	41.5	195	26	21.8	Little 2	2298.9	3.361523
		67	09	09.549	68	09	10.0	248	08	32.2	Cox	1265.6	3.102280
					137	05	06.7	317	03	24.9	Arcus	4648.0	3.667267
Morong (C.&G.S.) Maine 1887; r. 1946	d.m.	44	52	30.737	128	20	47.5	308	18	30.5	King	5428.1	3.734650
		67	11	01.114	167	01	28.1	347	01	05.0	Arcus	3194.1	3.504351
					222	38	30.8	42	41	14.6	Hersey	7511.7	3.875738
Little (C.&G.S.) Maine 1860	n.d.	44	51	09.493	287	07	44.0	107	13	34.0	Porcupine	11412.9	4.057397
		67	09	37.392	338	32	04.0	158	34	15.4	Trescott Rock	11210.6	4.049628
May (C.&G.S.) Maine 1886; r. 1946	d.m.	44	50	06.161	136	01	45.7	316	00	45.1	Little 2	2718.6	3.434338
		67	08	11.474	212	35	49.4	32	37	34.6	Case	6079.2	3.783845
					293	00	11.3	113	01	17.3	Mc Curdy	2231.2	3.348531



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STATION		LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
		°	'	"	°	'	"	°	'	"			
Ramsdell's house chimney (C.&G.S.) Maine 1886; L. 1946	d.	44	49	49.201	115	45	31.8	295	44	30.7	Mine Hill	2114.9	3.325280
		67	02	31.990	195	28	39.9	15	28	54.3	Small	1686.6	3.227017
					299	44	56.4	119	45	46.4	Porcupine	1797.5	3.254659
Rocky (C.&G.S.) Maine 1946	d.m.	44	49	14.394	189	35	38.5	9	36	29.8	King	9561.1	3.980508
		67	15	27.798	245	10	33.9	65	14	40.9	Little 2	8476.8	3.928234
Waddle (C.&G.S.) Maine 1886; r. 1946	d.m.	44	48	13.711	32	50	43.3	212	48	59.8	Trescott Rock	5960.1	3.775253
		67	04	03.895	120	40	33.0	300	39	42.2	Dyer	1840.5	3.264938
					212	55	11.7	32	56	05.8	Baptist	3103.2	3.491809
					240	07	21.9	60	09	16.7	Porcupine	4128.4	3.615784
Kennison (C.&G.S.) Maine 1886; r. 1946	d.m.	44	46	50.649	197	13	48.1	17	15	07.6	Little 2	8367.4	3.922591
		67	11	30.301	231	11	00.4	51	14	26.4	Mc Curdy	8241.8	3.916020
					232	31	00.5	52	32	46.9	Leighton	4180.8	3.621262
Moose (C.&G.S.) Maine 1883; r. 1946	d.m.	44	44	33.487	128	24	54.9	308	23	42.7	Trescott Rock	2881.2	3.459573
		67	04	48.230	207	12	52.4	27	15	18.4	Porcupine	9957.4	3.998147
					229	12	30.9	49	17	26.7	Quoddy	12185.1	4.085830
Godfrey C.&G.S.) Maine 1883; r. 1946	d.m.	44	46	38.641	37	46	48.1	217	45	12.3	Moose	4887.1	3.689053
		67	02	32.141	68	28	16.8	248	25	28.8	Trescott Rock	5644.5	3.751622
					197	23	59.3	17	24	49.5	Porcupine	5229.7	3.718477
Lawrence (C.&G.S.) Maine 1883; r. 1946	d.m.	44	47	15.880	50	53	53.2	230	50	35.9	Moose	7943.3	3.900002
		67	00	08.043	157	21	35.2	337	20	43.8	Porcupine	4161.6	3.619261
					226	12	28.1	46	14	06.6	Quoddy	4251.1	3.628499
Flagstaff (C.&G.S.) Maine 1883; L. 1946	d.	44	48	35.01	56	33	13	236	30	19	Godfrey	6513.1	3.813785
		66	58	24.97	109	53	47	289	51	43	Porcupine	4111.9	3.614040
Kimball C.&G.S.) Maine 1883; r. 1946	d.m.	44	48	04.757	46	09	15.8	226	07	47.1	Godfrey	3836.6	3.583943
		67	00	26.296	59	28	54.0	239	24	37.3	Trescott Rock	9308.0	3.968855
					152	45	10.4	332	44	31.9	Porcupine	2623.1	3.418820
Wallace C.&G.S.) Maine 1883; r. 1946	d.m.	44	47	51.91	59	43	51	239	41	47	Godfrey	4484.6	3.651728
		66	59	35.98	139	47	49	319	46	35	Porcupine	3573.0	3.553032
Squaw Cap (C.&G.S.) Maine 1883; r. 1946	d.m.	44	46	53.156	46	09	36.1	226	07	12.4	Moose	6222.2	3.793947
		67	01	24.235	69	31	35.6	249	27	59.7	Trescott Rock	7198.9	3.857268
					73	18	06.6	253	17	18.7	Godfrey	1558.8	3.192790
					180	54	28.0	0	54	30.3	Porcupine	4542.7	3.657315
Boot Head (C.&G.S.) Maine 1883; r. 1946	d.m.	44	46	13.460	55	53	23.4	235	50	57.6	Moose	5500.2	3.740375
		67	01	21.237	79	15	11.1	259	11	33.1	Trescott Rock	6931.7	3.840841
					116	30	22.6	296	29	32.6	Godfrey	1742.1	3.241071
James Head (C.&G.S.) Maine 1883; n.r. 1946	d.m.	44	45	42.941	48	03	01.0	228	01	44.6	Moose	3206.5	3.506034
		67	02	59.832	85	39	29.9	265	37	01.3	Trescott Rock	4655.0	3.667918
					199	29	57.1	19	30	16.5	Godfrey	1824.0	3.261033

Province New Brunswick[illegible]



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STATION	LATITUDE AND LONGITUDE			AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
<u>LOST STATIONS</u>								
Tall Pine (C.&G.S.)	44	51	06.88					
Maine 1860	67	04	01.84					
Bushy top tree (C.&G.S.)	44	50	19.94					
Maine 1860	67	04	00.66					
Mortons Lookout (C.&G.S.)	44	51	14.13					
Maine 1886	67	01	02.54					
Black flag (C.&G.S.)	44	51	32.70					
Maine 1886	67	03	32.05					
Signal flagstaff (C.&G.S.)	44	51	40.34					
Maine 1860	66	59	17.98					
Machais Spruce, flag (C.&G.S.)	44	52	00.57					
Maine 1886	67	08	23.06					
Hay Island, flag (C.&G.S.)	44	52	02.19					
Maine 1886	67	03	32.04					
Pole on hill (C.&G.S.)	44	52	33.80					
Maine 1861	67	01	13.40					
Clark 2, flag (C.&G.S.)	44	52	37.64					
Maine 1886	67	02	23.76					
Fall Island, flag (C.&G.S.)	44	52	54.52					
Maine 1886	67	07	25.51					
Lincolns Ledge, flag (C.&G.S.)	44	53	21.87					
Maine 1887	67	13	22.53					
Sewards Neck, tall pine(C.&G.S.)	44	53	23.55					
Maine 1860	67	02	59.12					
Lincoln's summer house (C.&G.S.)	44	53	31.36					
Maine 1887	67	10	58.95					
Shackford (C.&G.S.)	44	54	00.96					
Maine 1861	67	01	00.34					
Allan's pine, flag (C.&G.S.)	44	54	08.74					
Maine 1887	67	15	47.22					
Gould's house (C.&G.S.)	44	54	11.15					
Maine 1860	67	03	33.60					
Everett, flag (C.&G.S.)	44	54	36.30					
Maine 1887	67	07	56.12					
Red Island, flag (C.&G.S.)	44	54	44.58					
Maine 1860	67	01	00.34					

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International boundary line		St. Croix River, Monument Brook				State				Maine				Province				New Brunswick							
STATION		LATITUDE AND LONGITUDE				AZIMUTH				BACK AZIMUTH				TO STATION				DISTANCE (METERS)				LOGARITHM			
Initial Monument		d.m.	45 67	56 46	36.229 54.467																				
T.P. 2			45 67	56 46	35.534 53.958	152	53	48					332	53	48	Initial Monument				24.1	1.381760				
T.P. 3			45 67	56 46	34.894 53.617	159	36	48					339	36	48	T.P. 2				21.1	1.324025				
T.P. 4			45 67	56 46	34.649 53.775	204	13	48					24	13	48	T.P. 3				8.3	0.918821				
T.P. 5			45 67	56 46	34.392 53.699	168	19	48					348	19	48	T.P. 4				8.1	0.908228				
T.P. 6			45 67	56 46	33.977 53.766	186	24	48					6	24	48	T.P. 5				12.9	1.110333				
T.P. 7			45 67	56 46	33.263 53.270	154	07	49					334	07	48	T.P. 6				24.5	1.388909				
T.P. 8			45 67	56 46	32.718 53.002	161	03	49					341	03	49	T.P. 7				17.8	1.250163				
T.P. 9			45 67	56 46	32.314 53.027	182	30	49					2	30	49	T.P. 8				12.5	1.096653				
T.P. 10			45 67	56 46	32.131 52.696	128	22	49					308	22	49	T.P. 9				9.1	0.958784				
T.P. 11			45 67	56 46	31.635 52.423	158	59	49					338	59	49	T.P. 10				16.4	1.214587				
T.P. 12			45 67	56 46	30.700 52.542	185	03	49					5	03	49	T.P. 11				29.0	1.462141				
T.P. 13			45 67	56 46	29.989 52.809	194	41	49					14	41	49	T.P. 12				22.7	1.355769				
T.P. 14			45 67	56 46	29.932 53.570	263	51	49					83	51	49	T.P. 13				16.5	1.217227				
T.P. 15			45 67	56 46	29.697 53.537	174	24	49					354	24	49	T.P. 14				7.3	0.863066				
T.P. 16			45 67	56 46	29.380 53.402	163	24	49					343	24	49	T.P. 15				10.2	1.008343				
T.P. 17			45 67	56 46	28.961 52.905	140	20	49					320	20	49	T.P. 16				16.8	1.225052				
T.P. 18			45 67	56 46	28.665 52.768	162	03	49					342	03	49	T.P. 17				9.6	0.982014				



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State Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 19	45 67	56 46	28.457 51.599	104 16 50	284 16 49	T.P. 18	26.0	1.414716
T.P. 20	45 67	56 46	28.183 51.064	126 15 51	306 15 50	T.P. 19	14.3	1.155079
T.P. 21	45 67	56 46	27.749 51.139	186 52 51	6 52 51	T.P. 20	13.5	1.130077
T.P. 22	45 67	56 46	27.318 51.010	168 12 51	348 12 51	T.P. 21	13.6	1.133282
T.P. 23	45 67	56 46	27.110 51.056	188 44 51	8 44 51	T.P. 22	6.5	0.812656
T.P. 24	45 67	56 46	26.729 50.888	162 53 51	342 53 51	T.P. 23	12.3	1.089648
T.P. 25	45 67	56 46	26.205 51.096	195 29 51	15 29 51	T.P. 24	16.8	1.225052
T.P. 26	45 67	56 46	25.710 51.009	172 59 51	352 59 51	T.P. 25	15.4	1.187264
T.P. 27	45 67	56 46	25.207 51.188	193 54 51	13 54 51	T.P. 26	16.0	1.203863
T.P. 28	45 67	56 46	24.779 50.991	162 12 51	342 12 51	T.P. 27	13.9	1.142758
T.P. 29	45 67	56 46	23.881 51.486	201 03 51	21 03 51	T.P. 28	29.7	1.472499
T.P. 30	45 67	56 46	23.396 51.575	187 15 51	7 15 51	T.P. 29	15.1	1.178720
T.P. 31	45 67	56 46	23.052 51.358	156 14 51	336 14 51	T.P. 30	11.6	1.064201
T.P. 32	45 67	56 46	22.449 51.695	201 17 51	21 17 51	T.P. 31	20.0	1.300773
T.P. 33	45 67	56 46	22.253 51.662	173 19 51	353 19 51	T.P. 32	6.1	0.785073
T.P. 34	45 67	56 46	21.235 52.157	198 44 51	18 44 51	T.P. 33	33.2	1.520881
T.P. 35	45 67	56 46	20.618 51.657	150 29 51	330 29 51	T.P. 34	21.9	1.340187
T.P. 36	45 67	56 46	20.066 51.838	192 50 51	12 50 51	T.P. 35	17.5	1.242781

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State Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 37	45 56 19.219 67 46 51.776			177 04 51			357 04 51	T.P. 36	26.2	1.418044
T.P. 38	45 56 18.495 67 46 51.179			150 03 51			330 03 51	T.P. 37	25.8	1.411363
T.P. 39	45 56 17.756 67 46 50.527			148 20 52			328 20 51	T.P. 38	26.8	1.427878
T.P. 40	45 56 17.696 67 46 50.228			106 01 52			286 01 52	T.P. 39	6.7	0.825818
T.P. 41	45 56 17.366 67 46 49.743			134 12 52			314 12 52	T.P. 40	14.6	1.164096
T.P. 42	45 56 17.398 67 46 48.853			87 03 53			267 03 52	T.P. 41	19.2	1.283044
T.P. 43	45 56 16.581 67 46 48.258			153 01 53			333 01 53	T.P. 42	28.3	1.451529
T.P. 44	45 56 15.851 67 46 48.592			197 48 53			17 48 53	T.P. 43	23.7	1.374491
T.P. 45	45 56 15.662 67 46 48.170			122 41 53			302 41 53	T.P. 44	10.8	1.033167
T.P. 46	45 56 14.820 67 46 47.834			164 25 53			344 25 53	T.P. 45	27.0	1.431107
T.P. 47	45 56 14.858 67 46 47.098			85 48 54			265 48 53	T.P. 46	15.9	1.201140
T.P. 48	45 56 14.184 67 46 46.729			159 06 54			339 06 54	T.P. 47	22.3	1.348048
T.P. 49	45 56 13.782 67 46 46.330			145 15 54			325 15 54	T.P. 48	15.1	1.178720
T.P. 50	45 56 13.139 67 46 46.438			186 40 54			6 40 54	T.P. 49	20.0	1.300773
T.P. 51	45 56 12.768 67 46 46.108			148 10 54			328 10 54	T.P. 50	13.5	1.130077
T.P. 52	45 56 12.009 67 46 45.872			167 46 54			347 46 54	T.P. 51	24.0	1.379954
T.P. 53	45 56 11.683 67 46 45.344			131 32 54			311 32 54	T.P. 52	15.2	1.181587
T.P. 54	45 56 10.899 67 46 44.555			144 56 55			324 56 54	T.P. 53	29.6	1.471035



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State Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 55	45 56 09.943 67 46 43.830	152 05 56	332 05 55	T.P. 54	33.4	1.523489
T.P. 56	45 56 08.924 67 46 43.902	182 49 56	2 49 56	T.P. 55	31.5	1.498054
T.P. 57	45 56 08.247 67 46 43.813	174 43 56	354 43 56	T.P. 56	21.0	1.321962
T.P. 58	45 56 07.348 67 46 43.003	147 49 57	327 49 56	T.P. 57	32.8	1.515617
T.P. 59	45 56 06.718 67 46 43.054	183 16 57	3 16 57	T.P. 58	19.5	1.289778
T.P. 60	45 56 06.461 67 46 42.636	131 21 57	311 21 57	T.P. 59	12.0	1.078924
T.P. 61	45 56 06.024 67 46 42.560	173 02 57	353 02 57	T.P. 60	13.6	1.133282
T.P. 62	45 56 05.848 67 46 42.667	202 59 57	22 59 57	T.P. 61	5.9	0.770595
T.P. 63	45 56 05.615 67 46 42.588	166 43 57	346 43 57	T.P. 62	7.4	0.868975
T.P. 64	45 56 04.510 67 46 42.924	191 58 57	11 58 57	T.P. 63	34.9	1.542568
T.P. 65	45 56 04.213 67 46 42.763	159 11 57	339 11 57	T.P. 64	9.8	0.990969
T.P. 66	45 56 04.182 67 46 42.395	96 53 57	276 53 57	T.P. 65	8.0	0.902833
T.P. 67	45 56 04.046 67 46 42.153	128 49 57	308 49 57	T.P. 66	6.7	0.825818
T.P. 68	45 56 03.402 67 46 42.464	198 34 57	18 34 57	T.P. 67	21.0	1.321962
T.P. 69	45 56 03.363 67 46 42.201	101 59 57	281 59 57	T.P. 68	5.8	0.763171
T.P. 70	45 56 02.950 67 46 42.154	175 26 57	355 26 57	T.P. 69	12.8	1.106953
T.P. 71	45 56 02.228 67 46 40.951	130 40 58 185 00 04 272 10 04	310 40 57 5 00 04 92 10 04	T.P. 70 Traverse Station 2 Ref. Mon. 2	34.2 26.2 11.1	1.533769 1.417504 1.044039
T.P. 72	45 56 02.423	74 55 01	254 55 00	T.P. 71	22.9	1.359836

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STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 73	45 56 02.382 67 46 39.705	105 10 01	285 10 01	T.P. 72	4.9	0.690196
T.P. 74	45 56 02.012 67 46 39.535	162 16 01	342 16 01	T.P. 73	12.0	1.079181
T.P. 75	45 56 02.243 67 46 39.087	53 36 01	233 36 01	T.P. 74	12.0	1.079181
T.P. 76	45 56 02.542 67 46 39.004	10 59 01	190 59 01	T.P. 75	9.4	0.973128
T.P. 77	45 56 02.657 67 46 38.651	64 55 01	244 55 01	T.P. 76	8.4	0.924279
T.P. 78	45 56 02.515 67 46 37.499	100 03 02	280 03 01	T.P. 77	25.2	1.401400
T.P. 79	45 56 02.783 67 46 36.752	62 49 03	242 49 02	T.P. 78	18.1	1.257679
T.P. 80	45 56 03.052 67 46 36.691	8 57 03	188 57 03	T.P. 79	8.4	0.924279
T.P. 81	45 56 03.285 67 46 36.113	59 57 03	239 57 03	T.P. 80	14.4	1.158362
T.P. 82	45 56 03.270 67 46 35.097	91 11 04	271 11 03	T.P. 81	21.9	1.340444
T.P. 83	45 56 02.827 67 46 34.669	146 00 04	326 00 04	T.P. 82	16.5	1.217484
T.P. 84	45 56 02.573 67 46 33.938	116 30 05	296 30 04	T.P. 83	17.6	1.245513
T.P. 85	45 56 02.774 67 46 33.355	63 44 05	243 44 05	T.P. 84	14.0	1.146128
T.P. 86	45 56 02.935 67 46 33.256	23 16 05	203 16 05	T.P. 85	5.4	0.732394
T.P. 87	45 56 03.281 67 46 33.233	2 43 05	182 43 05	T.P. 86	10.7	1.029384
T.P. 88	45 56 03.316 67 46 32.762	83 53 05	263 53 05	T.P. 87	10.2	1.008600
T.P. 89	45 56 03.584 67 46 32.734	4 12 05	184 12 05	T.P. 88	8.3	0.919078
T.P. 90	45 56 03.844 67 46 32.426	39 35 05	219 35 05	T.P. 89	10.4	1.017033



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STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 91	45 56 04.296 67 46 32.261	14 19 05	194 19 05	T.P. 90	14.4	1.158362
T.P. 92	45 56 04.828 67 46 32.154	7 59 05	187 59 05	T.P. 91	16.6	1.220108
T.P. 93	45 56 05.031 67 46 32.318	330 42 05	150 42 05	T.P. 92	7.2	0.857333
T.P. 94	45 56 05.423 67 46 32.020	27 55 05	207 55 05	T.P. 93	13.7	1.136721
T.P. 95	45 56 05.580 67 46 31.293	72 46 06	252 46 05	T.P. 94	16.4	1.214844
T.P. 96	45 56 05.541 67 46 30.716	95 32 07	275 32 06	T.P. 95	12.5	1.096910
T.P. 97	45 56 05.885 67 46 30.166	48 09 07	228 09 07	T.P. 96	15.9	1.201397
T.P. 98	45 56 05.534 67 46 29.886	150 56 07	330 56 07	T.P. 97	12.4	1.093422
T.P. 99	45 56 05.341 67 46 28.616	102 16 08	282 16 07	T.P. 98	28.0	1.447158
T.P. 100	45 56 05.064 67 46 28.061	125 34 08	305 34 08	T.P. 99	14.7	1.167317
T.P. 101	45 56 05.333 67 46 27.726	41 00 08	221 00 08	T.P. 100	11.0	1.041393
T.P. 102	45 56 05.353 67 46 26.984	87 44 09	267 44 08	T.P. 101	16.0	1.204120
T.P. 103	45 56 05.163 67 46 26.435	116 22 09	296 22 09	T.P. 102	13.2	1.120574
T.P. 104	45 56 04.690 67 46 26.614	194 47 09	14 47 09	T.P. 103	15.1	1.178977
T.P. 105	45 56 04.237 67 46 25.808	128 52 10	308 52 09	T.P. 104	22.3	1.348305
T.P. 106	45 56 03.935 67 46 25.702	166 14 10	346 14 10	T.P. 105	9.6	0.982271
T.P. 107	45 56 03.689 67 46 25.017	117 12 11	297 12 10	T.P. 106	16.6	1.220108
T.P. 108	45 56 03.363 67 46 24.916	167 47 11	347 47 11	T.P. 107	10.3	1.012837

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International boundary line <u>St. Croix River, Monument Brook</u>			State <u>Maine</u>		Province <u>New Brunswick</u>	
STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 109	45 56 03.064 67 46 24.513	136 39 11	316 39 11	T.P. 108	12.7	1.103804
T.P. 110	45 56 02.666 67 46 24.147	147 19 11	327 19 11	T.P. 109	14.6	1.164353
T.P. 111	45 56 02.495 67 46 24.280	208 34 11	28 34 11	T.P. 110	6.0	0.778151
T.P. 112	45 56 02.225 67 46 24.354	190 46 11	10 46 11	T.P. 111	8.5	0.929419
T.P. 113	45 56 01.889 67 46 23.819	131 57 11	311 57 11	T.P. 112	15.5	1.190332
T.P. 114	45 56 01.706 67 46 23.100	110 02 12	290 02 11	T.P. 113	16.5	1.217484
T.P. 115	45 56 01.245 67 46 23.110	180 53 12	0 53 12	T.P. 114	14.2	1.152288
T.P. 116	45 56 00.822 67 46 23.330	199 54 12	19 54 12	T.P. 115	13.9	1.143015
T.P. 117	45 56 00.323 67 46 22.667	137 09 13	317 09 12	T.P. 116	21.0	1.322219
T.P. 118	45 55 59.931 67 46 22.504	163 51 13	343 51 13	T.P. 117	12.6	1.100370
T.P. 119	45 55 59.661 67 46 21.519	111 27 14	291 27 13	T.P. 118	22.8	1.357935
T.P. 120	45 55 59.496 67 46 22.003	244 01 14	64 01 14	T.P. 119	11.6	1.064458
T.P. 121	45 55 59.155 67 46 22.228	204 44 14	24 44 14	T.P. 120	11.6	1.064458
T.P. 122	45 55 58.650 67 46 22.060	166 55 14	346 55 14	T.P. 121	16.0	1.204120
T.P. 123	45 55 58.382 67 46 22.124	189 29 14	9 29 14	T.P. 122	8.4	0.924279
T.P. 124	45 55 58.204 67 46 21.687	120 16 14	300 16 14	T.P. 123	10.9	1.037426
T.P. 125	45 55 57.882 67 46 21.438	151 36 14	331 36 14	T.P. 124	11.3	1.053078
T.P. 126	45 55 57.796 67 46 21.194	116 55 14	296 55 14	T.P. 125	5.9	0.770852



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State Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 127	45° 55' 57.430 67 46 20.819	144° 26' 14"	324° 26' 14"	T.P. 126	13.9	1.143015
T.P. 128	45° 55' 57.254 67 46 21.030	219° 56' 14"	39° 56' 14"	T.P. 127	7.1	0.851258
T.P. 129	45° 55' 56.675 67 46 21.248	194° 41' 14"	14° 41' 14"	T.P. 128	18.5	1.267172
T.P. 130	45° 55' 56.048 67 46 21.533	197° 36' 14"	17° 36' 14"	T.P. 129	20.3	1.307496
T.P. 131	45° 55' 55.412 67 46 20.968	148° 13' 14"	328° 13' 14"	T.P. 130	23.1	1.363612
T.P. 132	45° 55' 54.810 67 46 20.810	169° 36' 14"	349° 36' 14"	T.P. 131	18.9	1.276462
T.P. 133	45° 55' 54.801 67 46 20.184	91° 08' 15"	271° 08' 14"	T.P. 132	13.5	1.130334
T.P. 134	45° 55' 54.203 67 46 19.269	123° 18' 16" 133° 07' 16"	303° 18' 15" 313° 07' 15"	Traverse Station 5 T.P. 133	22.5 27.0	1.352182 1.431364
T.P. 135	45° 55' 54.236 67 46 18.831	83° 48' 19"	263° 48' 19"	T.P. 134	9.5	0.977357
T.P. 136	45° 55' 53.772 67 46 18.157	134° 36' 20"	314° 36' 19"	T.P. 135	20.4	1.309263
T.P. 137	45° 55' 53.791 67 46 17.346	88° 03' 21"	268° 03' 20"	T.P. 136	17.5	1.242671
T.P. 138	45° 55' 54.177 67 46 16.923	37° 24' 21"	217° 24' 21"	T.P. 137	15.0	1.175724
T.P. 139	45° 55' 54.308 67 46 16.571	62° 02' 21"	242° 02' 21"	T.P. 138	8.6	0.934081
T.P. 140	45° 55' 54.166 67 46 15.819	105° 08' 22"	285° 08' 21"	T.P. 139	16.8	1.224942
T.P. 141	45° 55' 54.384 67 46 15.699	21° 01' 22"	201° 01' 22"	T.P. 140	7.2	0.856965
T.P. 142	45° 55' 54.560 67 46 15.070	68° 10' 22"	248° 10' 22"	T.P. 141	14.6	1.163986
T.P. 143	45° 55' 54.280 67 46 14.301	117° 31' 23"	297° 31' 22"	T.P. 142	18.7	1.271475
T.P. 144	45° 55' 54.297 67 46 13.782	87° 19' 23"	267° 19' 23"	T.P. 143	11.2	1.048851

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T.P. 145	45° 55' 54.794	67° 46' 13.271		35° 38' 23"			215° 38' 23"	T.P. 144	18.9	1.276095
T.P. 146	45° 55' 54.547	67° 46' 12.614		118° 20' 24"			298° 20' 23"	T.P. 145	16.1	1.206459
T.P. 147	45° 55' 54.667	67° 46' 12.239		65° 23' 24"			245° 23' 24"	T.P. 146	8.9	0.949023
T.P. 148	45° 55' 55.068	67° 46' 12.258		358° 06' 24"			178° 06' 24"	T.P. 147	12.4	1.093055
T.P. 149	45° 55' 55.175	67° 46' 11.983		60° 52' 24"			240° 52' 24"	T.P. 148	6.8	0.832142
T.P. 150	45° 55' 55.433	67° 46' 11.897		13° 05' 24"			193° 05' 24"	T.P. 149	8.2	0.913447
T.P. 151	45° 55' 55.464	67° 46' 11.338		85° 25' 25"			265° 25' 24"	T.P. 150	12.1	1.082418
T.P. 152	45° 55' 55.769	67° 46' 10.993		38° 16' 25"			218° 16' 25"	T.P. 151	12.0	1.078814
T.P. 153	45° 55' 55.651	67° 46' 10.673		117° 44' 25"			297° 44' 25"	T.P. 152	7.8	0.891728
T.P. 154	45° 55' 55.723	67° 46' 10.455		64° 42' 25"			244° 42' 25"	T.P. 153	5.2	0.715636
T.P. 155	45° 55' 55.669	67° 46' 09.824		97° 01' 26"			277° 01' 25"	T.P. 154	13.7	1.136354
T.P. 156	45° 55' 55.706	67° 46' 09.508		80° 23' 26"			260° 23' 26"	T.P. 155	6.9	0.838482
T.P. 157	45° 55' 55.692	67° 46' 08.015		90° 45' 27"			270° 45' 26"	T.P. 156	32.2	1.507489
T.P. 158	45° 55' 55.589	67° 46' 07.763		120° 22' 27"			300° 22' 27"	T.P. 157	6.3	0.798973
T.P. 159	45° 55' 55.590	67° 46' 07.035		89° 52' 28"			269° 52' 27"	T.P. 158	15.7	1.195533
T.P. 160	45° 55' 55.299	67° 46' 06.842		155° 12' 28"			335° 12' 28"	T.P. 159	9.9	0.995268
T.P. 161	45° 55' 55.194	67° 46' 06.384		108° 15' 28"			288° 15' 28"	T.P. 160	10.4	1.016666
T.P. 162	45° 55' 54.671	67° 46' 05.487		129° 53' 29"			309° 53' 28"	T.P. 161	25.2	1.401033



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T.P. 163	45° 55' 53.970	67° 46' 05.242		166° 18' 29"			346° 18' 29"			T.P. 162	22.3	1.347938
T.P. 164	45° 55' 53.762	67° 46' 05.527		223° 43' 29"			43° 43' 29"			T.P. 163	8.9	0.949023
T.P. 165	45° 55' 53.542	67° 46' 05.175		131° 53' 29"			311° 53' 29"			T.P. 164	10.2	1.008233
T.P. 166	45° 55' 53.031	67° 46' 05.152		178° 10' 29"			358° 10' 29"			T.P. 165	15.8	1.198290
T.P. 167	45° 55' 52.446	67° 46' 04.492		141° 47' 30"			321° 47' 29"			T.P. 166	23.0	1.361361
T.P. 168	45° 55' 51.946	67° 46' 04.553		184° 53' 30"			4° 53' 30"			T.P. 167	15.5	1.189965
T.P. 169	45° 55' 51.617	67° 46' 04.371		158° 52' 30"			338° 52' 30"			T.P. 168	10.9	1.037059
T.P. 170	45° 55' 51.623	67° 46' 03.439		89° 28' 31"			269° 28' 30"			T.P. 169	20.1	1.302829
T.P. 171	45° 55' 51.233	67° 46' 02.916		136° 54' 31"			316° 54' 31"			T.P. 170	16.5	1.217117
T.P. 172	45° 55' 50.849	67° 46' 02.705		158° 58' 31"			338° 58' 31"			T.P. 171	12.7	1.103437
T.P. 173	45° 55' 50.921	67° 46' 02.078		80° 41' 32"			260° 41' 31"			T.P. 172	13.7	1.136354
T.P. 174	45° 55' 50.682	67° 46' 01.949		159° 24' 32"			339° 24' 32"			T.P. 173	7.9	0.897260
T.P. 175	45° 55' 50.369	67° 46' 01.300		124° 38' 32"			304° 38' 32"			T.P. 174	17.0	1.230082
T.P. 176	45° 55' 50.597	67° 46' 01.032		39° 20' 32"			219° 20' 32"			T.P. 175	9.1	0.958674
T.P. 177	45° 55' 50.319	67° 46' 00.401		122° 14' 33"			302° 14' 32"			T.P. 176	16.1	1.206459
T.P. 178	45° 55' 50.016	67° 45' 59.931		132° 42' 33"			312° 42' 33"			T.P. 177	13.8	1.139512
				202° 11' 33"			22° 11' 33"			Traverse Station 6	14.0	1.145761
T.P. 179	45° 55' 49.837	67° 45' 59.893		171° 33' 16"			351° 33' 15"			T.P. 178	5.6	0.748173
T.P. 180	45° 55' 49.733	67° 45' 59.313		104° 28' 16"			284° 28' 16"			T.P. 179	12.9	1.110575

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State Maine

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STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 181	45 55 49.343 67 45 58.955	147 24 16	327 24 16	T.P. 180	14.3	1.155321
T.P. 182	45 55 48.849 67 45 58.854	171 54 16	351 54 16	T.P. 181	15.4	1.187506
T.P. 183	45 55 48.664 67 45 59.108	223 47 16	43 47 16	T.P. 182	7.9	0.897612
T.P. 184	45 55 48.229 67 45 59.176	186 15 16	6 15 16	T.P. 183	13.5	1.130319
T.P. 185	45 55 47.908 67 45 58.862	146 19 16	326 19 16	T.P. 184	11.9	1.075532
T.P. 186	45 55 47.435 67 45 58.941	186 39 16	6 39 16	T.P. 185	14.7	1.167302
T.P. 187	45 55 47.080 67 45 58.319	129 16 16	309 16 16	T.P. 186	17.3	1.238031
T.P. 188	45 55 46.756 67 45 58.564	207 52 16	27 52 16	T.P. 187	11.3	1.053063
T.P. 189	45 55 46.305 67 45 58.414	166 57 16	346 57 16	T.P. 188	14.3	1.155321
T.P. 190	45 55 46.064 67 45 58.790	227 25 16	47 25 16	T.P. 189	11.0	1.041378
T.P. 191	45 55 45.737 67 45 58.389	139 28 16	319 28 16	T.P. 190	13.3	1.123837
T.P. 192	45 55 44.969 67 45 59.219	217 03 16	37 03 16	T.P. 191	29.7	1.472741
T.P. 193	45 55 44.677 67 46 00.226	247 25 15	67 25 16	T.P. 192	23.5	1.371053
T.P. 194	45 55 44.180 67 46 00.422	195 23 15	15 23 15	T.P. 193	15.9	1.201382
T.P. 195	45 55 43.920 67 46 00.674	214 04 15	34 04 15	T.P. 194	9.7	0.986757
T.P. 196	45 55 43.624 67 46 00.754	190 38 15	10 38 15	T.P. 195	9.3	0.968468
T.P. 197	45 55 43.445 67 46 00.198	114 46 15	294 46 15	T.P. 196	13.2	1.120559
T.P. 198	45 55 42.742 67 46 00.179	178 57 15	358 57 15	T.P. 197	21.7	1.336445



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STATION	LATITUDE AND LONGITUDE			AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 199	45 67	55 46	42.230 00.992	227 54 15	47 54 15	T.P. 198	23.6	1.372897
T.P. 200	45 67	55 46	41.407 00.236	147 21 15	327 21 15	T.P. 199	30.2	1.479992
T.P. 201	45 67	55 46	40.717 00.404	189 38 15	9 38 15	T.P. 200	21.6	1.334439
T.P. 202	45 67	55 45	40.466 59.765	119 25 15	299 25 15	T.P. 201	15.8	1.198642
T.P. 203	45 67	55 45	40.481 59.380	86 45 15	266 45 15	T.P. 202	8.3	0.919063
T.P. 204	45 67	55 45	40.323 58.958	118 10 15 298 10 16	298 10 15 118 10 16	T.P. 203 Ref. Mon. 3	10.3 11.6	1.012822 1.064443
T.P. 205	45 67	55 45	40.373 57.376	87 25 04	267 25 03	T.P. 204	34.1	1.533051
T.P. 206	45 67	55 45	40.642 56.424	67 59 05	247 59 04	T.P. 205	22.1	1.344689
T.P. 207	45 67	55 45	40.960 55.942	46 36 05	226 36 05	T.P. 206	14.3	1.155633
T.P. 208	45 67	55 45	41.038 55.325	79 42 05	259 42 05	T.P. 207	13.5	1.130631
T.P. 209	45 67	55 45	40.976 54.950	103 17 05	283 17 05	T.P. 208	8.3	0.919375
T.P. 210	45 67	55 45	40.951 54.245	92 56 06	272 56 05	T.P. 209	15.2	1.182141
T.P. 211	45 67	55 45	40.834 52.829	96 45 07	276 45 06	T.P. 210	30.7	1.487435
T.P. 212	45 67	55 45	40.918 52.271	77 46 08	257 46 07	T.P. 211	12.3	1.090202
T.P. 213	45 67	55 45	40.707 51.722	118 53 08	298 53 08	T.P. 212	13.5	1.130631
T.P. 214	45 67	55 45	40.076 51.410	160 58 08	340 58 08	T.P. 213	20.6	1.314164
T.P. 215	45 67	55 45	40.190 50.897	72 22 08	252 22 08	T.P. 214	11.6	1.064755
T.P. 216	45 67	55 45	40.190 49.936	90 02 09	270 02 08	T.P. 215	20.7	1.316267

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T.P. 217	45 55 40.363 67 45 49.489	61 00 09	241 00 09	T.P. 216	11.0	1.041690
T.P. 218	45 55 40.236 67 45 48.568	101 13 10	281 13 09	T.P. 217	20.2	1.305648
T.P. 219	45 55 40.067 67 45 47.017	98 53 11	278 53 10	T.P. 218	33.8	1.529214
T.P. 220	45 55 39.683 67 45 46.780	156 39 11	336 39 11	T.P. 219	12.9	1.110887
T.P. 221	45 55 39.427 67 45 46.054	116 47 12	296 47 11	T.P. 220	17.5	1.243335
T.P. 222	45 55 39.332 67 45 45.192	98 57 13	278 57 12	T.P. 221	18.8	1.274455
T.P. 223	45 55 38.744 67 45 43.917	123 26 14	303 26 13	T.P. 222	32.9	1.517493
T.P. 224	45 55 39.111 67 45 43.535	35 58 14	215 58 14	T.P. 223	14.0	1.146425
T.P. 225	45 55 39.338 67 45 43.059	55 41 14	235 41 14	T.P. 224	12.4	1.093719
T.P. 226	45 55 39.183 67 45 42.694	121 24 14	301 24 14	T.P. 225	9.2	0.964085
T.P. 227	45 55 39.197 67 45 41.872	26 04 15 88 35 15	206 04 15 268 35 14	Traverse Station 8 T.P. 226	11.6 17.7	1.064755 1.248270
T.P. 228	45 55 38.713 67 45 40.682	120 15 56	300 15 55	T.P. 227	29.7	1.472356
T.P. 229	45 55 37.936 67 45 39.547	134 26 57	314 26 56	T.P. 228	34.3	1.534894
T.P. 230	45 55 36.629 67 45 39.251	171 00 57	351 00 57	T.P. 229	40.9	1.611323
T.P. 231	45 55 35.801 67 45 39.289	181 49 57	1 49 57	T.P. 230	25.6	1.407840
T.P. 232	45 55 35.714 67 45 38.656	101 04 57	281 04 57	T.P. 231	13.9	1.142615
T.P. 233	45 55 34.919 67 45 37.423	132 44 58	312 44 57	T.P. 232	36.2	1.558309
T.P. 234	45 55 34.870 67 45 36.834	96 45 58	276 45 58	T.P. 233	12.8	1.106810



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STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 235	45 55 35.131 67 45 36.538	38 19 58	218 19 58	T.P. 234	10.3	1.012437
T.P. 236	45 55 35.198 67 45 35.924	81 07 59	261 07 58	T.P. 235	13.4	1.126705
T.P. 237	45 55 35.384 67 45 35.722	37 12 59	217 12 59	T.P. 236	7.2	0.856932
T.P. 238	45 55 35.533 67 45 35.031	72 47 00	252 46 59	T.P. 237	15.6	1.192725
T.P. 239	45 55 35.245 67 45 34.242	117 38 00	297 38 00	T.P. 238	19.2	1.282901
T.P. 240	45 55 35.101 67 45 33.636	108 45 00	288 45 00	T.P. 239	13.8	1.139479
T.P. 241	45 55 34.767 67 45 32.746	118 16 01	298 16 00	T.P. 240	21.8	1.338056
T.P. 242	45 55 34.122 67 45 32.526	166 36 01	346 36 01	T.P. 241	20.5	1.311354
T.P. 243	45 55 33.565 67 45 31.825	138 42 02	318 42 01	T.P. 242	22.9	1.359436
T.P. 244	45 55 32.714 67 45 31.937	185 14 02	5 14 02	T.P. 243	26.4	1.421204
T.P. 245	45 55 32.149 67 45 32.631	220 38 02	40 38 02	T.P. 244	23.0	1.361328
T.P. 246	45 55 31.751 67 45 32.209	143 29 02	323 29 02	T.P. 245	15.3	1.184291
T.P. 247	45 55 31.532 67 45 32.587	230 20 02	50 20 02	T.P. 246	10.6	1.024906
T.P. 248	45 55 31.224 67 45 32.676	191 28 02	11 28 02	T.P. 247	9.7	0.986372
T.P. 249	45 55 30.193 67 45 32.497	173 06 02	353 06 02	T.P. 248	32.1	1.506105
T.P. 250	45 55 29.496 67 45 33.076	210 06 02	30 06 02	T.P. 249	24.9	1.395799
T.P. 251	45 55 29.045 67 45 32.498	138 11 02	318 11 02	T.P. 250	18.7	1.271442
T.P. 252	45 55 28.697 67 45 32.836	214 07 02	34 07 02	T.P. 251	13.0	1.113543

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International boundary line St. Croix River, Monument Brook

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STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 253	45 67	55 45	27.910 32.973	186	55	02	6	55	02	T.P. 252	24.5	1.388766
T.P. 254	45 67	55 45	27.608 33.897	244	53	01	64	53	02	T.P. 253	22.0	1.342023
T.P. 255	45 67	55 45	26.492 34.074	186	18	01	6	18	01	T.P. 254	34.7	1.539930
T.P. 256	45 67	55 45	25.718 33.427	149	44	01	329	44	01	T.P. 255	27.7	1.442080
T.P. 257	45 67	55 45	25.425 32.744	84 121	12 36	01 01	264 301	12 36	01 01	Traverse Station 10 T.P. 256	10.5 17.3	1.020789 1.237646
T.P. 258	45 67	55 45	24.657 32.185	153	04	08	333	04	08	T.P. 257	26.6	1.424880
T.P. 259	45 67	55 45	23.791 32.097	175	57	08	355	57	08	T.P. 258	26.8	1.428133
T.P. 260	45 67	55 45	23.497 31.162	114	14	09	294	14	08	T.P. 259	22.1	1.344390
T.P. 261	45 67	55 45	22.982 31.174	180	54	09	0	54	09	T.P. 260	15.9	1.201395
T.P. 262	45 67	55 45	22.391 30.314	134	32	10	314	32	09	T.P. 261	26.0	1.414971
T.P. 263	45 67	55 45	22.091 30.198	164	56	10	344	56	10	T.P. 262	9.6	0.982269
T.P. 264	45 67	55 45	21.884 29.841	129	44	10	309	44	10	T.P. 263	10.0	0.999998
T.P. 265	45 67	55 45	21.237 29.742	173	56	10	353	56	10	T.P. 264	20.1	1.303194
T.P. 266	45 67	55 45	21.156 28.910	97	55	11	277	55	10	T.P. 265	18.1	1.257677
T.P. 267	45 67	55 45	21.099 27.911	94	37	12	274	37	11	T.P. 266	21.6	1.334452
T.P. 268	45 67	55 45	21.001 25.367	93	09	14	273	09	12	T.P. 267	54.9	1.739570
T.P. 269	45 67	55 45	20.366 25.017	158	58	14	338	58	14	T.P. 268	21.0	1.322217
T.P. 270	45 67	55 45	20.233 24.508	110	32	14	290	32	14	T.P. 269	11.7	1.068184



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*State* Maine

*Province* New Brunswick

STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 271	45 55 19.920 67 45 23.882	125 38 14	305 38 14	T.P. 270	16.6	1.220106
T.P. 272	45 55 19.247 67 45 24.410	208 41 14	28 41 14	T.P. 271	23.7	1.374746
T.P. 273	45 55 18.599 67 45 23.618	139 33 14	319 33 14	T.P. 272	26.3	1.419954
T.P. 274	45 55 18.779 67 45 22.799	72 32 15	252 32 14	T.P. 273	18.5	1.267170
T.P. 275	45 55 18.598 67 45 21.783	104 21 16	284 21 15	T.P. 274	22.6	1.354106
T.P. 276	45 55 17.913 67 45 21.257	151 49 16	331 49 16	T.P. 275	24.0	1.380209
T.P. 277	45 55 17.885 67 45 20.423	92 44 17	272 44 16	T.P. 276	18.0	1.255270
T.P. 278	45 55 17.405 67 45 20.076	153 13 17	333 13 17	T.P. 277	16.6	1.220106
T.P. 279	45 55 16.954 67 45 19.770	154 41 17	334 41 17	T.P. 278	15.4	1.187519
T.P. 280	45 55 16.967 67 45 17.923	89 25 19	269 25 17	T.P. 279	39.8	1.599881
T.P. 281	45 55 16.519 67 45 16.615	116 09 20	296 09 19	T.P. 280	31.4	1.496928
T.P. 282	45 55 16.627 67 45 16.197	69 42 20	249 42 20	T.P. 281	9.6	0.982269
T.P. 283	45 55 16.572 67 45 15.801	101 18 20	281 18 20	T.P. 282	8.7	0.939517
T.P. 284	45 55 15.768 67 45 15.220	153 14 21	333 14 20	T.P. 283	27.8	1.444043
T.P. 285	45 55 15.423 67 45 14.703	133 42 21	313 42 21	T.P. 284	15.4	1.187519
T.P. 286	45 55 14.853 67 45 14.620	174 13 21	354 13 21	T.P. 285	17.7	1.247971
T.P. 287	45 55 14.531 67 45 15.350	237 40 20	57 40 21	T.P. 286	18.6	1.269511
T.P. 288	45 55 13.942 67 45 15.169	167 55 20	347 55 20	T.P. 287	18.6	1.269511

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STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 289	45° 55' 13.597" 67° 45' 14.166"	116° 13' 21"	296° 13' 20"	T.P. 288	24.1	1.382015
T.P. 290	45° 55' 13.367" 67° 45' 14.087"	166° 29' 21"	346° 29' 21"	T.P. 289	7.3	0.863321
T.P. 291	45° 55' 12.544" 67° 45' 12.600"	128° 24' 22"	308° 24' 21"	T.P. 290	40.9	1.611721
T.P. 292	45° 55' 11.066" 67° 45' 12.075"	166° 03' 23"	346° 03' 22"	T.P. 291	47.0	1.672096
T.P. 293	45° 55' 10.841" 67° 45' 12.115"	187° 01' 23"	7° 01' 23"	T.P. 292	7.0	0.845096
T.P. 294	45° 55' 10.288" 67° 45' 10.452"	115° 28' 24"	295° 28' 23"	T.P. 293	39.7	1.598788
T.P. 295	45° 55' 09.803" 67° 45' 10.143"	156° 00' 24"	336° 00' 24"	T.P. 294	16.4	1.214842
T.P. 296	45° 55' 09.682" 67° 45' 11.083"	259° 32' 24"	79° 32' 24"	T.P. 295	20.6	1.313865
T.P. 297	45° 55' 09.136" 67° 45' 11.034"	176° 24' 24" 255° 20' 24"	356° 24' 24" 75° 20' 25"	T.P. 296 Traverse Station 11	16.9 42.6	1.227885 1.629408
T.P. 298	45° 55' 08.153" 67° 45' 11.521"	199° 03' 40"	19° 03' 40"	T.P. 297	32.1	1.506609
T.P. 299	45° 55' 07.702" 67° 45' 11.065"	144° 47' 40"	324° 47' 40"	T.P. 298	17.1	1.231749
T.P. 300	45° 55' 07.643" 67° 45' 10.292"	96° 15' 41"	276° 15' 40"	T.P. 299	16.8	1.224062
T.P. 301	45° 55' 06.998" 67° 45' 08.365"	115° 37' 42"	295° 37' 41"	T.P. 300	46.1	1.663395
T.P. 302	45° 55' 06.362" 67° 45' 07.573"	139° 00' 42"	319° 00' 42"	T.P. 301	26.0	1.415393
T.P. 303	45° 55' 06.051" 67° 45' 07.927"	218° 26' 42"	38° 26' 42"	T.P. 302	12.3	1.088658
T.P. 304	45° 55' 05.602" 67° 45' 07.694"	160° 05' 42"	340° 05' 42"	T.P. 303	14.8	1.169015
T.P. 305	45° 55' 05.313" 67° 45' 07.142"	126° 50' 43"	306° 50' 42"	T.P. 304	14.9	1.171939
T.P. 306	45° 55' 04.719" 67° 45' 06.768"	156° 16' 43"	336° 16' 43"	T.P. 305	20.0	1.301949



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STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 307	45 55 03.932 67 45 06.148	151 11 44	331 11 43	T.P. 306	27.7	1.442798
T.P. 308	45 55 03.700 67 45 04.762	103 27 45	283 27 44	T.P. 307	30.7	1.487304
T.P. 309	45 55 03.293 67 45 04.207	136 22 45	316 22 45	T.P. 308	17.4	1.239302
T.P. 310	45 55 02.701 67 45 04.286	185 20 45	5 20 45	T.P. 309	18.3	1.263571
T.P. 311	45 55 02.389 67 45 04.811	229 37 44	49 37 45	T.P. 310	14.9	1.171939
T.P. 312	45 55 01.953 67 45 05.326	219 32 44	39 32 44	T.P. 311	17.4	1.241791
T.P. 313	45 55 02.384 67 45 07.041	289 47 43	109 47 44	T.P. 312	39.3	1.594249
T.P. 314	45 55 02.018 67 45 07.935	239 39 42	59 39 43	T.P. 313	22.3	1.349001
T.P. 315	45 55 01.246 67 45 08.041	185 27 42	5 27 42	T.P. 314	23.9	1.378964
T.P. 316	45 55 00.196 67 45 07.028	146 01 43	326 01 42	T.P. 315	39.1	1.592039
T.P. 317	45 54 59.145 67 45 06.939	176 37 43	356 37 43	T.P. 316	32.5	1.511971
T.P. 318	45 54 58.382 67 45 07.393	202 33 43	22 33 43	T.P. 317	25.5	1.406993
T.P. 319	45 54 58.331 67 45 08.139	264 23 42	84 23 43	T.P. 318	16.2	1.208268
T.P. 320	45 54 58.921 67 45 09.628	299 34 41	119 34 42	T.P. 319	36.9	1.566955
T.P. 321	45 54 58.932 67 45 10.803	270 44 40	90 44 41	T.P. 320	25.3	1.403587
T.P. 322	45 54 58.313 67 45 10.843	182 33 40 308 58 40 329 45 48	2 33 40 128 58 41 149 45 49	T.P. 321 Ref. Mon. 4 Ref. Mon. 5	19.1 42.9 65.6	1.282054 1.632221 1.816875
T.P. 323	45 54 56.307 67 45 08.582	141 48 12	321 48 10	T.P. 322	78.8	1.896489
T.P. 324	45 54 55.476 67 45 08.525	177 14 12	357 14 12	T.P. 323	25.7	1.409896

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STATION	LATITUDE AND LONGITUDE			AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 325	45 67	54 45	54.707 10.239	237 16 11	57 16 12	T.P. 324	43.9	1.642427
T.P. 326	45 67	54 45	54.139 10.498	197 41 11	17 41 11	T.P. 325	18.4	1.264781
T.P. 327	45 67	54 45	53.347 09.555	140 17 11	320 17 11	T.P. 326	31.8	1.502390
T.P. 328	45 67	54 45	52.819 09.580	181 55 11	1 55 11	T.P. 327	16.3	1.212151
T.P. 329	45 67	54 45	52.478 10.037	223 03 11	43 03 11	T.P. 328	14.4	1.158325
T.P. 330	45 67	54 45	52.402 12.466	267 25 09	87 25 11	T.P. 329	52.4	1.719294
T.P. 331	45 67	54 45	51.181 15.393	239 08 07	59 08 09	T.P. 330	73.5	1.866250
T.P. 332	45 67	54 45	50.043 14.919	163 47 07	343 47 07	T.P. 331	36.6	1.563444
T.P. 333	45 67	54 45	49.654 15.464	224 21 07	44 21 07	T.P. 332	16.8	1.225272
T.P. 334	45 67	54 45	50.129 17.255	290 48 06	110 48 07	T.P. 333	41.3	1.615913
T.P. 335	45 67	54 45	49.737 17.674	216 46 06	36 46 06	T.P. 334	15.1	1.178940
T.P. 336	45 67	54 45	48.425 16.765	154 12 06	334 12 06	T.P. 335	45.0	1.653175
T.P. 337	45 67	54 45	47.278 17.295	197 52 06	17 52 06	T.P. 336	37.2	1.570506
T.P. 338	45 67	54 45	46.533 18.450	227 15 05	47 15 06	T.P. 337	33.9	1.530163
T.P. 339	45 67	54 45	45.921 18.875	205 53 05	25 53 05	T.P. 338	21.0	1.322182
T.P. 340	45 67	54 45	45.155 18.684	170 08 05	350 08 05	T.P. 339	24.0	1.380174
T.P. 341	45 67	54 45	44.646 18.883	195 13 05	15 13 05	T.P. 340	16.3	1.212151
T.P. 342	45 67	54 45	43.982 19.655	219 05 04	39 05 05	T.P. 341	26.4	1.421567



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STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 343	45 67	54 45	43.994 21.692	270	28	02	90	28	04	T.P. 342	43.9	1.642427
T.P. 344	45 67	54 45	43.298 22.059	200	13	02	20	13	02	T.P. 343	22.9	1.359799
T.P. 345	45 67	54 45	42.635 21.377	144	19	03	324	19	02	T.P. 344	25.2	1.401363
T.P. 346	45 67	54 45	41.777 21.275	175	16	03	355	16	03	T.P. 345	26.6	1.424845
T.P. 347	45 67	54 45	41.883 22.743	275	54	02	95	54	03	T.P. 346	31.8	1.502390
T.P. 348	45 67	54 45	42.450 23.958	303	46	01	123	46	02	T.P. 347	31.5	1.498274
T.P. 349	45 67	54 45	43.150 26.659	290	21	59	110	22	01	T.P. 348	62.1	1.793055
T.P. 350	45 67	54 45	42.968 28.040	259	16	58	79	16	59	T.P. 349	30.3	1.481406
T.P. 351	45 67	54 45	43.848 29.645	308	09	57	128	09	58	T.P. 350	44.0	1.643416
T.P. 352	45 67	54 45	43.900 30.500	275	00	56	95	00	57	T.P. 351	18.5	1.267135
T.P. 353	45 67	54 45	43.496 30.815	208	35	56	28	35	56	T.P. 352	14.2	1.152251
T.P. 354	45 67	54 45	42.522 31.101	191	35	56	11	35	56	T.P. 353	30.7	1.487101
T.P. 355	45 67	54 45	42.017 31.739	221	24	55	41	24	56	T.P. 354	20.8	1.318026
T.P. 356	45 67	54 45	41.167 31.994	191	48	55	11	48	55	T.P. 355	26.8	1.428098
T.P. 357	45 67	54 45	40.740 32.788	232	20	54	52	20	55	T.P. 356	21.6	1.334417
T.P. 358	45 67	54 45	40.051 33.029	193	42	54	13	42	54	T.P. 357	21.9	1.340407
T.P. 359	45 67	54 45	39.704 33.529	82 12 54 225 11 54	12 54 11 54	54	262 12 53 45 11 54	12 53 11 54	54	Traverse Station 14 T.P. 358	11.9 15.2	1.075510 1.181807
T.P. 360	45 67	54 45	38.904 33.548	180	56	28	0	56	28	T.P. 359	24.7	1.392618

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STATION	LATITUDE AND LONGITUDE		AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM	
T.P. 361	45 67	54 45	37.216 35.750	222 19 27	42 19 28	T.P. 360	70.5	1.848110
T.P. 362	45 67	54 45	36.795 36.579	233 57 26	53 57 27	T.P. 361	22.1	1.344313
T.P. 363	45 67	54 45	36.550 36.736	204 01 26	24 01 26	T.P. 362	8.3	0.918999
T.P. 364	45 67	54 45	36.330 37.166	233 47 26	53 47 26	T.P. 363	11.5	1.060619
T.P. 365	45 67	54 45	35.755 37.687	212 19 25	32 19 26	T.P. 364	21.0	1.322140
T.P. 366	45 67	54 45	35.642 38.077	247 31 25	67 31 25	T.P. 365	9.1	0.958962
T.P. 367	45 67	54 45	35.285 38.272	200 48 25	20 48 25	T.P. 366	11.8	1.071803
T.P. 368	45 67	54 45	34.447 39.365	222 19 24	42 19 25	T.P. 367	35.0	1.543989
T.P. 369	45 67	54 45	34.976 42.616	283 06 22	103 06 24	T.P. 368	72.0	1.857253
T.P. 370	45 67	54 45	36.603 43.138	347 22 21	167 22 22	T.P. 369	51.5	1.711728
T.P. 371	45 67	54 45	37.491 44.199	320 09 20	140 09 21	T.P. 370	35.7	1.552589
T.P. 372	45 67	54 45	37.530 44.804	275 16 20	95 16 20	T.P. 371	13.1	1.117192
T.P. 373	45 67	54 45	37.119 45.329	221 42 20	41 42 20	T.P. 372	17.0	1.230370
T.P. 374	45 67	54 45	36.297 45.613	193 33 20	13 33 20	T.P. 373	26.1	1.416561
T.P. 375	45 67	54 45	35.915 46.274	230 21 19	50 21 20	T.P. 374	18.5	1.267093
T.P. 376	45 67	54 45	36.066 46.777	293 13 19	113 13 19	T.P. 375	11.8	1.071803
T.P. 377	45 67	54 45	36.671 47.406	324 02 18	144 02 19	T.P. 376	23.1	1.363533
T.P. 378	45 67	54 45	37.149 47.530	349 43 18	169 43 18	T.P. 377	15.0	1.176012



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STATION	LATITUDE AND LONGITUDE			AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 379	45 54 37.568 67 45 47.966			324 02 18	144 02 18	T.P. 378	16.0	1.204041
T.P. 380	45 54 38.094 67 45 52.025			280 31 15	100 31 18	T.P. 379	89.0	1.949311
T.P. 381	45 54 37.406 67 45 52.752			216 26 14	36 26 15	T.P. 380	26.4	1.421525
T.P. 382	45 54 34.911 67 45 52.472			175 31 14	355 31 14	T.P. 381	77.3	1.888101
T.P. 383	45 54 34.140 67 45 53.042			207 18 14	27 18 14	T.P. 382	26.8	1.428056
T.P. 384	45 54 35.062 67 45 56.014			37 09 12 113 53 36 293 57 12	217 09 12 293 53 35 113 57 14	Ref. Mon. 7 Ref. Mon. 6 T.P. 383	13.3 29.9 70.1	1.123773 1.475321 1.845639
T.P. 385	45 54 34.910 67 45 57.111			258 46 04	78 46 05	T.P. 384	24.1	1.382001
T.P. 386	45 54 32.574 67 45 55.168			149 51 05	329 51 04	T.P. 385	83.4	1.921150
T.P. 387	45 54 28.520 67 45 55.270			181 00 05	1 00 05	T.P. 386	125.2	2.097588
T.P. 388	45 54 27.966 67 45 56.686			240 43 04	60 43 05	T.P. 387	35.0	1.544052
T.P. 389	45 54 25.323 67 45 59.752			219 00 02	39 00 04	T.P. 388	105.0	2.021173
T.P. 390	45 54 22.166 67 45 59.618			178 18 02	358 18 02	T.P. 389	97.5	1.988989
T.P. 391	45 54 20.942 67 46 01.005			218 21 01	38 21 02	T.P. 390	48.2	1.683031
T.P. 392	45 54 19.884 67 46 00.568			163 56 01	343 56 01	T.P. 391	34.0	1.531463
T.P. 393	45 54 19.207 67 46 01.133			210 14 01	30 14 01	T.P. 392	24.2	1.383799
T.P. 394	45 54 18.692 67 46 02.241			50 45 00 236 20 00	230 45 00 56 20 01	Traverse Station 17 T.P. 393	23.1 28.7	1.363596 1.457866
T.P. 395	45 54 19.352 67 46 05.095			288 19 46	108 19 48	T.P. 394	64.8	1.811547
T.P. 396	45 54 16.202 67 46 07.596			208 59 44	28 59 46	T.P. 395	111.2	2.046077

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International boundary line St. Croix River, Monument Brook

State Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 397	45 54 11.262 67 46 09.155	192 25 43	12 25 44	T.P. 396	156.2	2.193653
T.P. 398	45 54 09.720 67 46 07.972	151 48 44	331 48 43	T.P. 397	54.0	1.732366
T.P. 399	45 54 08.415 67 46 07.995	180 41 44	0 41 44	T.P. 398	40.3	1.605277
T.P. 400	45 54 07.720 67 46 08.843	220 25 43	40 25 44	T.P. 399	28.2	1.450221
T.P. 401	45 54 05.290 67 46 09.136	184 47 43	4 47 43	T.P. 400	75.3	1.876767
T.P. 402	45 54 04.929 67 46 09.595	221 39 43	41 39 43	T.P. 401	14.9	1.173158
T.P. 403	45 54 04.207 67 46 11.525	241 48 42	61 48 43	T.P. 402	47.2	1.673914
T.P. 404	45 54 02.713 67 46 12.235	198 21 41	18 21 42	T.P. 403	48.6	1.686608
T.P. 405	45 54 01.034 67 46 11.622	165 42 41	345 42 41	T.P. 404	53.5	1.728326
T.P. 406	45 54 01.045 67 46 09.043	89 38 43 133 15 43	269 38 41 313 15 43	T.P. 405 Traverse Station 18-F	55.6 6.7	1.745047 0.826047
T.P. 407	45 53 59.259 67 46 08.415	166 13 01	346 13 00	T.P. 406	56.8	1.754348
T.P. 408	45 53 58.305 67 46 09.468	217 37 00	37 37 01	T.P. 407	37.2	1.570543
T.P. 409	45 53 55.814 67 46 09.721	184 03 00	4 03 00	T.P. 408	77.1	1.887054
T.P. 410	45 53 55.743 67 46 07.854	93 08 01	273 08 00	T.P. 409	40.3	1.605305
T.P. 411	45 53 55.304 67 46 07.021	127 04 02	307 04 01	T.P. 410	22.5	1.352182
T.P. 412	45 53 54.517 67 46 06.405	151 21 02	331 21 02	T.P. 411	27.7	1.442480
T.P. 413	45 53 53.760 67 46 06.254	172 04 02	352 04 02	T.P. 412	23.6	1.372912
T.P. 414	45 53 53.003 67 46 06.934	212 05 01	32 05 02	T.P. 413	27.6	1.440909



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International boundary line St. Croix River, Monument Brook

State Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 415	45 67	53 46	51.950 10.258	245	34	59	65	35	01	T.P. 414	78.7	1.895975
T.P. 416	45 67	53 46	52.132 10.602	307	08	59	127	08	59	T.P. 415	9.3	0.968483
T.P. 417	45 67	53 46	51.828 11.889	150 251	53 17	58 58	330 71	53 17	58 59	Traverse Station 18 T.P. 416	24.0 29.3	1.380211 1.466868
T.P. 418	45 67	53 46	49.917 14.549	224	10	54	44	10	56	T.P. 417	82.3	1.915339
T.P. 419	45 67	53 46	49.994 17.116	272	26	52	92	26	54	T.P. 418	55.4	1.743449
T.P. 420	45 67	53 46	51.466 20.387	302	47	50	122	47	52	T.P. 419	83.9	1.923701
T.P. 421	45 67	53 46	51.649 23.619	274	38	48	94	38	50	T.P. 420	69.9	1.844416
T.P. 422	45 67	53 46	49.005 25.790	106 209	04 49	46 46	286 29	04 49	45 48	Traverse Station 19-B T.P. 421	23.5 94.1	1.371007 1.973529
T.P. 423	45 67	53 46	49.376 27.636	286	05	07	106	05	08	T.P. 422	41.4	1.617065
T.P. 424	45 67	53 46	47.886 27.922	187	38	07	7	38	07	T.P. 423	46.4	1.666583
T.P. 425	45 67	53 46	45.069 37.231	246	34	00	66	34	07	T.P. 424	218.7	2.339914
T.P. 426	45 67	53 46	51.275 39.516	339 345 357	17 34 21	58 58 35	159 165 177	18 35 21	00 00 36	Ref. Mon. 8 T.P. 425 Ref. Mon. 9	120.1 197.8 129.2	2.079608 2.296291 2.111304
T.P. 427	45 67	53 46	50.904 43.024	261	22	44	81	22	47	T.P. 426	76.5	1.883576
T.P. 428	45 67	53 46	48.543 46.088	222	10	42	42	10	44	T.P. 427	98.4	1.992910
T.P. 429	45 67	53 46	44.635 46.187	181	00	42	1	00	42	T.P. 428	120.7	2.081622
T.P. 430	45 67	53 46	40.301 47.251	189	43	41	9	43	42	T.P. 429	135.8	2.132815
T.P. 431	45 67	53 46	39.900 58.635	267	06	33	87	06	41	T.P. 430	245.8	2.390497
T.P. 432	45 67	53 47	44.379 05.708	66 312	01 12	28 28	246 132	01 12	27 33	Acheron Tablet T.P. 431	32.0 205.9	1.505065 2.313571

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International boundary line St. Croix River, Monument BrookState MaineProvince New Brunswick

STATION	LATITUDE AND LONGITUDE		AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 433	45 53 67 47	43.135 10.974	251 18 13	71 18 17	T.P. 432	119.8	2.078618
T.P. 434	45 53 67 47	40.701 13.200	212 34 12	32 34 13	T.P. 433	89.2	1.950164
T.P. 435	45 53 67 47	40.245 14.257	238 15 11	58 15 12	T.P. 434	26.8	1.427934
T.P. 436	45 53 67 47	40.651 16.991	282 01 09	102 01 11	T.P. 435	60.3	1.780116
T.P. 437	45 53 67 47	39.847 17.904	218 24 08	38 24 09	T.P. 436	31.7	1.500858
T.P. 438	45 53 67 47	38.945 19.202	225 07 07	45 07 08	T.P. 437	39.5	1.596396
T.P. 439	45 53 67 47	35.396 25.891	232 46 02	52 46 07	T.P. 438	181.1	2.257957
T.P. 440	45 53 67 47	33.388 24.977	162 22 03	342 22 02	T.P. 439	65.1	1.813380
T.P. 441	45 53 67 47	31.167 24.966	179 48 03	359 48 03	T.P. 440	68.6	1.836123
T.P. 442	45 53 67 47	30.411 25.429	203 09 03	23 09 03	T.P. 441	25.4	1.404633
T.P. 443	45 53 67 47	28.502 27.592	218 21 01	38 21 03	T.P. 442	75.2	1.876017
T.P. 444	45 53 67 47	28.157 28.757	247 02 00	67 02 01	T.P. 443	27.3	1.435962
T.P. 445	45 53 67 47	28.288 29.920	279 10 59	99 11 00	T.P. 444	25.4	1.404633
T.P. 446	45 53 67 47	28.108 31.883	49 00 58 262 30 58	229 00 56 82 30 59	Sucker Tablet T.P. 445	86.1 42.7	1.934802 1.630227
T.P. 447	45 53 67 47	27.761 32.810	241 47 32	61 47 33	T.P. 446	22.7	1.355785
T.P. 448	45 53 67 47	27.071 32.620	169 05 32	349 05 32	T.P. 447	21.7	1.336219
T.P. 449	45 53 67 47	26.666 32.978	211 42 32	31 42 32	T.P. 448	14.7	1.167076
T.P. 450	45 53 67 47	26.740 33.656	278 53 32	98 53 32	T.P. 449	14.8	1.170021



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International boundary line St. Croix River, Monument Brook

State Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 451	45 53 26.985	38 40 32	218 40 31	67 47 34.088	309 03 32	129 03 32	Sucker Tablet	27.9	1.445363			
							T.P. 450	12.0	1.078940			
T.P. 452	45 53 26.650	21 07 31	201 07 31	67 47 34.692	231 29 31	51 29 32	Sucker Tablet	12.2	1.087638			
							T.P. 451	16.6	1.220956			
T.P. 453	45 53 25.341	238 44 29	58 44 31	67 47 37.780	244 59 29	64 59 31	T.P. 452	77.9	1.891464			
							Sucker Tablet	68.6	1.836339			
T.P. 454	45 53 24.410	15 58 43	195 58 43	67 47 38.191	197 08 56	17 08 56	Pickereel Tablet	50.6	1.704150			
					230 53 32	50 53 34	T.P. 453	30.1	1.478354			
							Sucker Tablet	91.6	1.961671			
T.P. 455	45 53 22.533	116 25 44	296 25 43	67 47 37.969	175 16 44	355 16 43	Pickereel Tablet	20.9	1.320128			
							T.P. 454	58.1	1.764506			
T.P. 456	45 53 21.553	190 22 43	10 22 43	67 47 39.173	220 37 43	40 37 44	Pickereel Tablet	40.2	1.604415			
							T.P. 455	39.9	1.600625			
T.P. 457	45 53 20.690	221 16 41	41 16 43	67 47 41.532	242 21 41	62 21 43	Pickereel Tablet	88.1	1.944877			
							T.P. 456	57.4	1.759019			
T.P. 458	45 53 18.954	180 54 22	0 54 22	67 47 41.866	187 39 09	7 39 09	Ref. Mon. 11	23.6	1.372602			
					220 30 22	40 30 22	T.P. 457	54.1	1.733036			
							Ref. Mon. 10	24.7	1.392554			
T.P. 459	45 53 17.545	39 38 00	219 37 59	67 47 43.067	210 45 00	30 45 01	Trout Tablet	71.5	1.854306			
							T.P. 458	50.6	1.704456			
T.P. 460	45 53 15.929	62 35 59	242 35 59	67 47 44.718	215 30 59	35 31 00	Trout Tablet	11.3	1.052071			
							T.P. 459	61.3	1.787304			
T.P. 461	45 53 15.940	271 15 59	91 15 59	67 47 45.445	314 18 59	134 18 59	T.P. 460	15.7	1.195385			
							Trout Tablet	7.9	0.898864			
T.P. 462	45 53 17.804	314 18 04	134 18 06	67 47 48.181			T.P. 461	82.4	1.916041			
T.P. 463	45 53 17.773	37 45 04	217 45 03	67 47 48.758	265 34 04	85 34 04	Camp Collier Mark	57.2	1.757216			
							T.P. 462	12.5	1.095971			
T.P. 464	45 53 17.275	44 50 04	224 50 03	67 47 49.006	199 12 04	19 12 04	Camp Collier Mark	42.0	1.623727			
							T.P. 463	16.3	1.212127			
T.P. 465	45 53 16.051	224 47 03	44 47 03	67 47 50.748	224 49 03	44 49 04	Camp Collier Mark	11.2	1.050207			
							T.P. 464	53.3	1.726496			
T.P. 466	45 53 13.843	25 47 12	205 47 11	67 47 51.702	196 47 02	16 47 03	Twist Tablet	65.7	1.817697			
					200 30 02	20 30 03	T.P. 465	71.2	1.852586			
							Camp Collier Mark	81.3	1.910090			
T.P. 467	45 53 12.482	6 29 11	186 29 11	67 47 52.938	212 22 11	32 22 12	Twist Tablet	17.3	1.237040			
							T.P. 466	49.8	1.696863			

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International boundary line St. Croix River, Monument BrookState MaineProvince New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 468	45 67	53 47	11.085 52.940	175 180	49 04	11 11	355 0	49 04	11 11	Twist Tablet T.P. 467	26.0 43.1	1.415451 1.634566
T.P. 469 (Curve Tablet) Maine and New Brunswick 1912	45 67	53 47	08.683 54.749	20 207	11 45	15 00	200 27	11 45	15 01	Curve T.P. 468	24.6 83.8	1.390935 1.923237
T.P. 470	45 67	53 47	07.263 54.649	177	10	36	357	10	36	T.P. 469 (Curve Tablet)	43.9	1.642290
T.P. 471	45 67	53 47	05.802 59.238	245 274 355	29 08 44	33 33 55	65 94 175	29 08 44	36 35 55	T.P. 470 Hornet 2 Tablet Spring Tablet	108.8 51.8 89.9	2.036455 1.714156 1.953644
T.P. 472	45 67	53 47	04.247 57.570	35 143	08 09	56 44	215 323	08 09	55 43	Spring Tablet T.P. 471	50.9 60.0	1.706718 1.778059
T.P. 473	45 67	53 47	03.363 57.845	58 192	28 15	56 56	238 12	28 15	55 56	Spring Tablet T.P. 472	27.4 27.9	1.437993 1.445987
T.P. 474	45 67	53 48	02.579 01.893	254 261	29 12	53 53	74 81	29 12	56 55	T.P. 473 Spring Tablet	90.6 64.7	1.957042 1.810735
T.P. 475	45 67	53 48	00.835 02.350	190	21	58	10	21	58	T.P. 474	54.7	1.738321
T.P. 476	45 67	53 48	00.241 03.095	59 221	34 12	57 57	239 41	34 12	55 58	Ley T.P. 475	67.3 24.4	1.828200 1.386930
T.P. 477	45 67	52 48	59.276 07.550	252 276	45 25	54 54	72 96	45 25	57 55	T.P. 476 Ley	100.6 38.3	2.002556 1.582670
T.P. 478	45 67	52 48	59.482 08.237	281 293	23 14	53 53	101 113	23 14	55 54	Ley T.P. 477	53.9 16.1	1.731539 1.207573
T.P. 479	45 67	53 48	01.034 09.438	331	36	28	151	36	29	T.P. 478	54.5	1.736190
T.P. 480	45 67	53 48	01.840 11.555	298	35	26	118	35	28	T.P. 479	52.0	1.715835
T.P. 481	45 67	53 48	01.632 12.596	254	03	25	74	03	26	T.P. 480	23.3	1.368213
T.P. 482	45 67	53 48	00.367 13.189	198	08	25	18	08	25	T.P. 481	41.1	1.613894
T.P. 483	45 67	52 48	58.230 16.014	222	43	23	42	43	25	T.P. 482	89.8	1.953239
T.P. 484	45 67	52 48	56.710 16.243	185 284	59 32	23 23	5 104	59 32	23 25	T.P. 483 Dan	47.2 60.1	1.673858 1.778593



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State Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 485	45 52 55.468	67 48 15.010		5 57 56	145 16 24	233 34 24	185 57 55	325 16 23	53 34 25	Ref. Mon. 13 T.P. 484 Dan	101.3 46.7 39.2	2.005631 1.669082 1.593391
T.P. 486	45 52 52.786	67 48 16.452		39 10 30	200 34 48	311 08 25	219 10 29	20 34 49	131 08 25	Ref. Mon. 12 T.P. 485 Ref. Mon. 13	26.3 88.4 27.3	1.419596 1.946647 1.436163
T.P. 487	45 52 50.369	67 48 16.636		166 54 00	183 03 00	341 14 58	346 53 59	3 03 00	161 14 59	Ref. Mon. 12 T.P. 486 Joe	55.7 74.7 136.1	1.745832 1.873465 2.133779
T.P. 488	45 52 46.637	67 48 15.313		2 12 39	166 05 18	311 50 59	182 12 38	346 05 17	131 50 59	Tom T.P. 487 Joe	104.7 118.7 20.4	2.019875 2.074544 1.309630
T.P. 489	45 52 44.048	67 48 17.491		210 25 44	299 53 01		30 25 46	119 53 02		T.P. 488 Tom	92.7 49.5	1.967137 1.694605
T.P. 490	45 52 41.986	67 48 16.803		22 56 11	166 53 01	215 45 01	202 56 10	346 53 01	35 45 02	Phil T.P. 489 Tom	72.2 65.4 48.1	1.858256 1.815425 1.681833
T.P. 491	45 52 40.280	67 48 17.476		44 37 02	195 23 35	339 19 43	224 37 02	15 23 36	159 19 46	Phil T.P. 490 Pete	19.4 54.6 171.4	1.287802 1.737178 2.233923
T.P. 492	45 52 36.492	67 48 16.611		170 55 36	316 05 00		350 55 35	136 05 02		T.P. 491 Pete	118.4 60.3	2.073269 1.780317
T.P. 493	45 52 34.536	67 48 15.434		157 11 01	224 08 01		337 11 00	44 08 02		T.P. 492 Pete	65.5 23.6	1.816200 1.372751
T.P. 494	45 52 33.624	67 48 15.695		191 20 01	206 05 01		11 20 01	26 05 02		T.P. 493 Pete	28.7 50.2	1.458036 1.700654
T.P. 495	45 52 32.104	67 48 18.143		219 07 59	228 21 59		39 08 02	48 22 01		Pete T.P. 494	118.6 70.6	2.074154 1.849026
T.P. 496	45 52 30.819	67 48 19.237		210 43 59	216 46 59		30 43 59	36 47 02		T.P. 495 Pete	46.1 164.4	1.664153 2.215929
T.P. 497	45 52 23.057	67 48 18.941		178 28 20			358 28 20			T.P. 496	239.7	2.379725
T.P. 498	45 52 19.582	67 48 14.771		140 01 23			320 01 20			T.P. 497	140.0	2.146056
T.P. 499	45 52 17.035	67 48 16.435		25 23 22	204 32 22		205 23 19	24 32 23		Leaf T.P. 498	238.3 86.4	2.377180 1.936752
T.P. 500	45 52 15.184	67 48 16.367		33 14 22	178 32 22		213 14 19	358 32 22		Leaf T.P. 499	189.1 57.2	2.276662 1.757242

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*International boundary line* St. Croix River, Monument Brook

*State* Maine

*Province* New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 501	45 52 13.005 67 48 13.551	61 04 24 137 55 24	241 04 19 317 55 22	Leaf T.P. 500	187.8 90.7	2.273782 1.957427						
T.P. 502	45 52 12.173 67 48 14.253	66 24 24 210 33 24	246 24 19 30 33 24	Leaf T.P. 501	162.9 29.8	2.211816 1.474382						
T.P. 503	45 52 10.780 67 48 17.420	74 40 22 237 48 22	254 40 19 57 48 24	Leaf T.P. 502	83.9 80.7	1.923944 1.906900						
T.P. 504	45 52 09.565 67 48 18.314	103 57 21 207 12 21	283 57 19 27 12 22	Leaf T.P. 503	63.5 42.2	1.803061 1.625085						
T.P. 505	45 52 08.662 67 48 17.459	118 20 22 146 31 22	298 20 19 326 31 21	Leaf T.P. 504	91.0 33.4	1.959082 1.524014						
T.P. 506	45 52 07.764 67 48 14.538	113 46 24 116 22 24	293 46 22 296 22 19	T.P. 505 Leaf	68.8 159.7	1.837903 2.203397						
T.P. 507	45 52 06.684 67 48 12.658	119 35 25 129 25 25	299 35 19 309 25 24	Leaf T.P. 506	211.2 52.5	2.324679 1.720008						
T.P. 508	45 52 04.671 67 48 12.602	178 53 12 265 04 16	358 53 12 85 04 18	T.P. 507 Ref. Mon. 15	62.2 56.9	1.793525 1.755112						
T.P. 509	45 52 02.503 67 48 09.207	50 33 18 132 25 05 167 01 18	230 33 17 312 25 03 347 01 18	Ref. Mon. 14 T.P. 508 Ref. Mon. 15	54.7 99.2 73.7	1.737977 1.996544 1.867406						
T.P. 510	45 52 03.151 67 48 04.619	78 34 15	258 34 12	T.P. 509	101.0	2.004165						
T.P. 511	45 52 01.368 67 48 02.372	138 38 17	318 38 15	T.P. 510	73.3	1.865378						
T.P. 512	45 52 00.608 67 47 58.722	106 35 19	286 35 17	T.P. 511	82.2	1.914617						
T.P. 513	45 51 58.107 67 47 54.767	132 09 22	312 09 19	T.P. 512	115.1	2.060972						
T.P. 514	45 51 56.504 67 47 49.838	114 57 26	294 57 22	T.P. 513	117.3	2.069202						
T.P. 515	45 51 54.671 67 47 48.079	55 41 27 146 10 27	235 41 20 326 10 26	Hardwood Tablet T.P. 514	259.7 68.1	2.414411 1.833421						
T.P. 516	45 51 53.094 67 47 48.389	64 49 27 187 49 27	244 49 20 7 49 27	Hardwood Tablet T.P. 515	229.6 49.1	2.360981 1.691486						
T.P. 517	45 51 51.579 67 47 50.749	72 01 25 227 25 25	252 01 20 47 25 27	Hardwood Tablet T.P. 516	164.9 69.1	2.217325 1.839661						
T.P. 518	45 51 51.492 67 47 54.721	55 53 22 268 12 22	235 53 20 88 12 25	Hardwood Tablet T.P. 517	86.0 85.7	1.934452 1.933144						



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State Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 519	45 51 50.368	67 47 56.558		66 48 21	228 47 21		246 48 20	48 47 22		Hardwood Tablet T.P. 518	34.4 52.7	1.536105 1.721418
T.P. 520	45 51 47.351	67 47 55.246		143 03 22	163 06 22		323 03 20	343 06 21		Hardwood Tablet T.P. 519	99.6 97.4	1.998382 1.988385
T.P. 521	45 51 43.754	67 47 48.594		127 44 27	133 09 27		307 44 22	313 09 20		T.P. 520 Hardwood Tablet	181.5 278.8	2.258769 2.445277
T.P. 522	45 51 42.287	67 47 47.287		135 32 28	148 05 28		315 32 20	328 05 27		Hardwood Tablet T.P. 521	330.6 53.4	2.519340 1.727171
T.P. 523	45 51 40.924	67 47 47.868		141 46 27	196 35 27		321 46 20	16 35 28		Hardwood Tablet T.P. 522	354.0 43.9	2.548981 1.642693
T.P. 524	45 51 39.591	67 47 50.933		238 06 34			58 06 36			T.P. 523	77.9	1.891384
T.P. 525	45 51 37.762	67 47 52.224		206 15 33			26 15 34			T.P. 524	63.0	1.799186
T.P. 526	45 51 35.887	67 47 51.554		165 58 33			345 58 33			T.P. 525	59.7	1.775820
T.P. 527	45 51 34.680	67 47 48.517		119 37 35			299 37 33			T.P. 526	75.4	1.877217
T.P. 528	45 51 32.195	67 47 46.252		147 30 37			327 30 35			T.P. 527	91.0	1.958887
T.P. 529	45 51 30.428	67 47 42.711		125 31 40			305 31 37			T.P. 528	93.9	1.972512
T.P. 530	45 51 28.598	67 47 41.053		147 40 41			327 40 40			T.P. 529	66.9	1.825272
T.P. 531	45 51 25.568	67 47 41.108		180 43 41			0 43 41			T.P. 530	93.6	1.971122
T.P. 532	45 51 23.686	67 47 39.601		150 45 42			330 45 41			T.P. 531	66.6	1.823320
T.P. 533	45 51 16.225	67 47 30.672		140 05 48			320 05 42			T.P. 532	300.3	2.477546
T.P. 534	45 51 12.332	67 47 29.610		169 12 49	306 03 13		349 12 48	126 03 17		T.P. 533 Ref. Mon. 17	122.4 145.5	2.087627 2.162894
				344 37 13			164 37 14			Ref. Mon. 16	151.2	2.179621
T.P. 535	45 51 06.737	67 47 25.645		120 40 20	153 39 28		300 40 18	333 39 25		Ref. Mon. 16 T.P. 534	52.8 192.8	1.722842 2.285049
				271 59 20			91 59 21			North Stump	28.9	1.460171

INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA  
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International boundary line St. Croix River, Monument Brook

State Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 536	45 50 58.196	67 47 16.160		139 17 27	142 11 12	146 12 27	319 17 18	322 11 05	326 12 21	Ref. Mon. 16 T.P. 535 North Stump	383.4 333.8 316.1	2.583689 2.523483 2.499833
T.P. 537	45 50 54.695	67 47 09.635		91 30 52	127 30 58	309 39 52	271 30 51	307 30 53	129 39 58	Raspberry T.P. 536 Cropley	41.6 177.5 224.1	1.619279 2.249189 2.350402
T.P. 538	45 50 46.550	67 46 58.817		137 07 52	150 39 54	267 58 59	317 07 44	330 39 52	87 59 02	T.P. 537 Cropley Landing Tablet	343.1 124.4 73.1	2.535447 2.094800 1.863654
T.P. 539	45 50 45.451	67 46 54.757		111 10 12	133 47 07	158 13 02	291 10 09	313 47 02	338 13 02	T.P. 538 Cropley Landing Tablet	93.9 205.7 39.3	1.972818 2.313328 1.594376
T.P. 540	45 50 41.720	67 46 48.229		40 00 17	129 16 57	134 18 17	220 00 16	309 16 52	314 18 12	Cedar T.P. 539 Landing Tablet	33.3 182.0 217.2	1.521833 2.259999 2.336852
T.P. 541	45 50 36.162	67 46 41.091		129 48 03	138 05 29	272 39 03	309 47 57	318 05 24	92 39 07	Cedar T.P. 540 Ref. Mon. 19	228.3 230.6 136.9	2.358544 2.362880 2.136403
T.P. 542	45 50 35.671	67 46 39.336		111 48 44	127 06 04	264 54 04	291 48 43	307 05 57	84 54 07	T.P. 541 Cedar Ref. Mon. 19	40.8 267.4 99.3	1.610536 2.427180 1.996853
T.P. 543	45 50 35.832	67 46 36.576		85 13 31	264 24 44	345 04 44	265 13 29	84 24 45	165 04 44	T.P. 542 Ref. Mon. 19 Ref. Mon. 18	59.8 39.5 46.7	1.776399 1.596838 1.669099
T.P. 544	45 50 32.385	67 46 30.479		117 09 48	128 58 31	140 05 48	297 09 44	308 58 27	320 05 45	Ref. Mon. 18 T.P. 543 Ref. Mon. 19	134.4 169.2 143.8	2.128285 2.228481 2.157675
T.P. 545	45 50 30.465	67 46 28.143		125 21 50	139 37 21	139 55 50	305 21 44	319 37 19	319 55 45	Ref. Mon. 18 T.P. 544 Ref. Mon. 19	208.4 77.8 221.6	2.318903 1.891028 2.345529
T.P. 546	45 50 29.368	67 46 20.921		102 15 35	115 22 08	319 58 05	282 15 30	295 21 57	139 58 19	T.P. 545 Ref. Mon. 18 Calf Fawn	159.5 360.6 647.5 719.3	2.202760 2.557004 2.811209 2.856916
T.P. 547	45 50 28.031	67 46 19.184		137 45 25	320 10 36	336 37 06	317 45 24	140 10 49	156 37 15	T.P. 546 Calf Fawn	55.8 591.7 666.3	1.746355 2.772127 2.823679
T.P. 548	45 50 25.990	67 46 18.218		161 41 57	317 32 47	336 03 27	341 41 56	137 32 59	156 03 35	T.P. 547 Calf Fawn	66.4 530.5 600.2	1.821993 2.724725 2.778318



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GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line St. Croix River, Monument Brook

State Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 549	45 50 23.138	67 46 15.870		150 04 49	314 37 19	337 16 19	330 04 47	134 37 29	157 16 25	T.P. 548	101.6	2.006779
										Calf	432.0	2.635442
										Fawn	499.3	2.698379
T.P. 550	45 50 20.212	67 46 09.641		123 54 22	320 55 23	351 01 23	303 54 18	140 55 29	171 01 25	T.P. 549	162.0	2.209429
										Calf	274.5	2.438499
										Fawn	374.8	2.573789
T.P. 551	45 50 17.360	67 46 11.333		202 32 05	300 49 22	341 23 22	22 32 06	120 49 29	161 23 25	T.P. 550	95.3	1.979187
										Calf	244.0	2.387417
										Fawn	297.7	2.473817
T.P. 552	45 50 13.762	67 46 07.866		146 02 06	275 54 24	353 16 24	326 02 04	95 54 29	173 16 25	T.P. 551	133.9	2.126940
										Calf	135.4	2.131721
										Fawn	172.2	2.236158
T.P. 553	45 50 10.540	67 46 01.781		57 12 29	127 08 26	182 16 29	237 12 25	307 08 21	2 16 29	Fawn	132.2	2.121273
										T.P. 552	164.7	2.216772
										Calf	85.6	1.932405
T.P. 554	45 50 08.630	67 46 01.184		84 11 29	167 40 23	176 14 29	264 11 25	347 40 23	356 14 29	Fawn	124.7	2.095776
										T.P. 553	60.4	1.780888
										Calf	144.8	2.160822
T.P. 555	45 50 05.151	67 46 02.442		134 22 28	184 00 28	194 10 56	314 22 25	4 00 29	14 10 57	Fawn	135.6	2.132101
										Calf	252.5	2.402327
										T.P. 554	110.8	2.044507
T.P. 556	45 50 03.717	67 45 56.775		109 53 41	122 23 32	160 32 32	289 53 37	302 23 25	340 32 29	T.P. 555	130.1	2.114119
										Fawn	259.6	2.414250
										Calf	314.1	2.497090
T.P. 557	45 50 02.444	67 45 56.400		128 07 33	161 25 33	168 21 12	308 07 25	341 25 29	348 21 11	Fawn	288.9	2.460783
										Calf	353.9	2.548925
										T.P. 556	40.2	1.603696
T.P. 558	45 49 59.097	67 45 57.678		194 56 42	259 42 25	319 12 45	14 56 43	79 42 27	139 12 56	T.P. 557	107.0	2.029197
										Buck	47.2	1.674269
										Ref. Mon. 20	500.9	2.699759
T.P. 559	45 49 55.332	67 45 57.734		180 35 18	200 55 25	308 41 25	0 35 18	20 55 27	128 41 36	T.P. 558	116.2	2.065372
										Buck	133.5	2.125418
										Ref. Mon. 20	420.8	2.624030
T.P. 560	45 49 53.097	67 45 52.760		122 43 39	162 52 29	311 16 29	302 43 35	342 52 27	131 16 36	T.P. 559	127.6	2.105850
										Buck	202.6	2.306743
										Ref. Mon. 20	294.1	2.468562
T.P. 561	45 49 51.709	67 45 52.353		163 51 29	168 25 05	305 27 29	343 51 27	348 25 05	125 27 36	Buck	246.2	2.391329
										T.P. 560	43.7	1.640909
										Ref. Mon. 20	260.6	2.416005
T.P. 562	45 49 49.627	67 45 52.789		168 53 29	188 18 57		348 53 27	8 18 57		Buck	306.5	2.486481
										T.P. 561	62.0	1.812635

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International boundary line		St. Croix River - North Lake and The Thoroughfare				State Maine		Province New Brunswick					
STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION		DISTANCE (METERS)	LOGARITHM
T.P. 563	45 49 67	43.616 51.531	34 22 36 171 40 39 243 05 56	214 22 32 351 40 38 63 06 02	Ref. Mon. 21 T.P. 562 Ref. Mon. 20	198.4 187.6 218.1	2.297568 2.273191 2.338719						
T.P. 564	45 49 67	23.855 21.092	56 45 58 120 07 58 132 52 54	236 45 43 300 07 32 312 52 32	Ref. Mon. 22 Ref. Mon. 21 T.P. 563	521.9 889.2 896.6	2.717595 2.949008 2.952608						
T.P. 565	45 49 67	16.277 42.817	73 09 06 243 29 16 328 06 06	253 09 00 63 29 32 148 06 07	Ref. Mon. 23 T.P. 564 Ref. Mon. 22	183.0 524.1 61.4	2.262502 2.719398 1.788160						
T.P. 566	45 49 67	13.114 46.298	114 02 20 217 34 46 247 03 46	294 02 17 37 34 49 67 03 50	Ref. Mon. 23 T.P. 565 Ref. Mon. 22	109.5 123.2 116.8	2.039457 2.090709 2.067570						
T.P. 567	45 49 67	12.613 50.214	32 53 04 165 33 15 259 37 24	212 53 03 345 33 14 79 37 26	Watson Ref. Mon. 23 T.P. 566	32.0 62.1 85.9	1.505150 1.792743 1.934193						
T.P. 568	45 49 67	11.738 52.995	13 04 48 245 46 02 269 48 02	193 04 47 65 46 04 89 48 03	Piedra T.P. 567 Watson	101.8 65.8 42.7	2.007676 1.818450 1.630014						
T.P. 569	45 49 67	06.519 58.254	87 09 48 215 10 06 235 35 21	267 09 41 35 10 10 55 35 24	Ref. Mon. 24 T.P. 568 Piedra	200.5 197.1 109.7	2.302039 2.294726 2.040207						
T.P. 570	45 49 67	06.182 05.042	90 30 06 132 01 06 265 56 33	270 30 04 312 01 04 85 56 38	Ref. Mon. 24 Ref. Mon. 25 T.P. 569	53.7 93.2 146.9	1.729743 1.969241 2.167076						
T.P. 571	45 49 67	09.758 21.769	286 59 59 289 40 33 337 26 10	107 00 11 109 40 43 157 26 10	T.P. 570 Ref. Mon. 24 Difficile	377.6 326.5 20.7	2.577069 2.513919 1.315970						
T.P. 572	45 49 67	08.948 43.114	247 16 55 266 53 25 276 40 55	67 17 01 86 53 41 96 41 01	Ref. Mon. 26 T.P. 571 Ref. Mon. 27	180.3 461.5 174.2	2.255880 2.664171 2.241076						
T.P. 573	45 49 67	03.720 52.433	11 17 03 231 15 14 329 27 03	191 17 02 51 15 20 149 27 04	Ref. Mon. 29 T.P. 572 Ref. Mon. 28	89.0 258.0 89.5	1.949253 2.411541 1.951667						
T.P. 574	45 49 67	56.714 51.175	55 07 19 172 51 00 186 19 06	235 07 16 352 50 59 6 19 06	Ref. Mon. 31 (1939) T.P. 573 Fox	92.8 218.0 109.4	1.967607 2.338416 2.038975						
T.P. 575	45 49 67	55.101 53.008	84 54 02 198 02 04 218 28 13	264 54 01 18 02 06 38 28 15	Ref. Mon. 31 (1939) Fox T.P. 574	36.7 166.7 63.6	1.564735 2.222008 1.803606						



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GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

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International boundary line St. Croix River

Grand Lake

State Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 576	45 48 55.523	67 46 55.222	159 49 37 285 15 47 325 20 42	49 37 15 47 20 42	339 49 36 105 15 48 145 20 42	49 36 15 48 20 42	Ref. Mon. 30 T.P. 575 Ref. Mon. 31 (1939)	112.4 49.6 19.8	2.050866 1.695387 1.297460			
T.P. 577	45 48 10.721	67 48 09.565	138 14 35 229 14 32 318 14 35	14 35 14 32 14 35	318 14 25 49 15 25 138 14 43	14 25 15 25 14 43	Ref. Mon. 32 T.P. 576 Ref. Mon. 33	463.1 2118.9 374.5	2.665678 3.326116 2.573487			
T.P. 578	45 47 39.657	67 48 25.279	64 30 21 199 28 58 244 30 21	30 21 28 58 30 21	244 30 09 19 29 09 64 30 24	30 09 29 09 30 24	Ref. Mon. 35 T.P. 577 Ref. Mon. 34	400.1 1017.4 113.6	2.602128 3.007505 2.055443			
T.P. 579	45 46 51.762	67 48 15.813	5 44 21 54 29 44 172 07 43 234 29 44	44 21 29 44 07 43 29 44	185 44 16 234 29 32 352 07 36 54 29 50	44 16 29 32 07 36 29 50	Ref. Mon. 38 Ref. Mon. 37 T.P. 578 Ref. Mon. 36	1624.4 435.1 1492.8 232.9	3.210684 2.638562 3.173990 2.367244			
T.P. 580	45 46 10.144	67 48 21.789	5 44 17 185 44 17	44 17	185 44 16 5 44 21	44 16 44 21	Ref. Mon. 38 T.P. 579	333.0 1291.4	2.522409 3.111058			
T.P. 581	45 46 02.277	67 48 35.468	230 35 07 288 37 37 357 53 35	35 07 37 37 53 35	50 35 17 108 37 46 177 53 37	35 17 37 46 53 37	T.P. 580 Ref. Mon. 38 Ref. Mon. 40	382.6 276.8 1594.9	2.582704 2.442136 3.202744			
T.P. 582	45 45 18.673	67 48 24.517	35 43 03 170 01 51 215 43 03	43 03 01 51 43 03	215 42 57 350 01 43 35 43 16	42 57 01 43 43 16	Ref. Mon. 40 T.P. 581 Ref. Mon. 39	305.0 1366.9 669.2	2.484294 3.135728 2.825549			
T.P. 583	45 45 01.650	67 47 37.338	103 04 08 117 16 16 283 04 08	04 08 16 16 04 08	283 03 29 297 15 43 103 04 38	03 29 15 43 04 38	Ref. Mon. 40 T.P. 582 Ref. Mon. 41	1229.6 1147.2 922.3	3.089770 3.059634 2.964878			
T.P. 584	45 43 51.676	67 46 57.098	63 28 11 123 46 11 158 04 14	28 11 46 11 04 14	243 27 17 303 45 35 338 03 45	27 17 45 35 03 45	Ref. Mon. 44 Ref. Mon. 42 T.P. 583	1829.8 1305.4 2328.9	3.262403 3.115749 3.367157			
T.P. 585	45 43 45.800	67 48 36.943	140 37 27 265 11 14 320 37 27	37 27 11 14 37 27	320 37 02 85 12 25 140 37 44	37 02 12 25 37 44	Ref. Mon. 43 T.P. 584 Ref. Mon. 44	1209.2 2166.5 822.9	3.082485 3.335765 2.915351			
T.P. 586	45 41 45.538	67 48 13.138	125 20 47 172 06 26 305 20 47	20 47 06 26 20 47	305 20 15 352 06 09 125 21 08	20 15 06 09 21 08	Ref. Mon. 45 T.P. 585 Ref. Mon. 48	1175.2 3748.5 804.2	3.070094 3.573853 2.905384			
T.P. 587	45 41 37.237	67 49 07.091	12 33 58 192 33 58 257 36 46	33 58 33 58 36 46	192 33 52 12 34 05 77 37 25	33 52 34 05 37 25	Ref. Mon. 46 Ref. Mon. 45 T.P. 586	831.8 959.0 1195.1	2.920026 2.981826 3.077417			
T.P. 588	45 40 39.329	67 48 15.011	23 48 15 147 46 42 203 48 15	48 15 46 42 48 15	203 48 10 327 46 05 23 48 38	48 10 46 05 48 38	Ref. Mon. 47 T.P. 587 Ref. Mon. 48	375.7 2113.4 1725.6	2.574853 3.324987 3.236951			

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International boundary line St. Croix River Grand Lake and Forest City State Maine Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 589	45 40 38.741	19 44 52	199 44 40	67 46 09.338	90 23 42	270 22 12	Ref. Mon. 50	1082.0	3.034243			
		199 44 52	19 45 01				T.P. 588	2720.0	3.434564			
							Ref. Mon. 49	807.4	2.907105			
T.P. 590	45 40 03.018	42 57 49	222 57 33	67 45 17.348	134 25 45	314 25 08	Ref. Mon. 51	697.5	2.843547			
		222 57 49	42 57 59				T.P. 589	1575.7	3.197462			
							Ref. Mon. 52	455.0	2.658013			
T.P. 591	45 40 13.942	14 34 00	194 33 58	67 44 50.866	59 32 06	239 31 47	Ref. Mon. 53	166.9	2.222373			
		194 34 00	14 34 05				T.P. 590	665.1	2.822892			
							Ref. Mon. 54	632.6	2.801114			
T.P. 592	45 40 22.282	37 05 03	217 04 57	67 44 41.874	60 14 22	240 14 07	T.P. 591	322.7	2.508855			
		174 17 12	354 17 11				Ref. Mon. 52	527.3	2.722068			
							Ref. Mon. 54	356.5	2.552113			
T.P. 593	45 40 03.423	109 34 46	289 34 16	67 44 21.389	142 42 33	322 42 18	Ref. Mon. 52	956.5	2.980682			
		289 34 46	109 35 04				T.P. 592	731.9	2.864427			
							Ref. Mon. 57	601.9	2.779540			
T.P. 594	45 40 00.692	67 50 36	247 50 33	67 44 10.436	109 34 53	289 34 16	Ref. Mon. 55	119.9	2.078697			
		109 34 53	289 34 16				Ref. Mon. 52	1208.1	3.082119			
		109 34 53	289 34 46				T.P. 593	251.7	2.400797			
		289 34 53	109 35 04				Ref. Mon. 57	350.3	2.544404			
T.P. 595	45 39 52.521	64 53 00	244 52 59	67 44 04.706	153 49 00	333 48 56	Ref. Mon. 56	44.7	1.650334			
		291 48 10	111 48 17				T.P. 594	281.1	2.448859			
							Ref. Mon. 58	225.1	2.352279			
T.P. 596	45 39 47.951	138 08 34	318 08 30	67 43 58.867	235 08 34	55 08 37	T.P. 595	189.4	2.277440			
							Ref. Mon. 58	100.6	2.002598			
T.P. 597	45 39 48.816	74 01 37	254 01 34	67 43 54.556	160 42 37	340 42 37	T.P. 596	97.1	1.987096			
							Ref. Mon. 58	32.6	1.513391			
T.P. 598	45 39 47.125	107 27 26	287 27 20	67 43 46.887	115 08 47	295 08 41	T.P. 597	174.0	2.240663			
		275 24 47	95 24 51				Ref. Mon. 58	195.3	2.290731			
		288 44 11	108 44 13				Ref. Mon. 59	129.5	2.112411			
							Inter	71.3	1.852999			
Forest City, W. Bridge Tablet Me., N.B. 1939; r. 1946 d.m.	45 39 46.606	104 29 39	284 29 37	67 43 44.026	321 05 10	141 05 10	T.P. 598	64.0	1.806089			
							Inter	8.8	0.946812			
Forest City, E. Bridge Tablet Me., N.B. 1939; r. 1946 d.m.	45 39 46.553	7 55 56	187 55 56	67 43 43.735	104 29 39	284 29 39	Inter	5.3	0.724712			
							Forest City, W. Br. Tab.	6.5	0.812703			
T.P. 599	45 39 46.115	98 51 43	278 51 41	67 43 41.317	104 29 41	284 29 37	Inter	53.7	1.730248			
		104 29 41	284 29 37				T.P. 598	124.6	2.095394			
		104 29 41	284 29 39				Forest City, E. Br. Tab.	54.1	1.733045			
		203 48 44	23 48 44				Ref. Mon. 59	20.7	1.316343			
		301 28 44	121 28 46				Ref. Mon. 60	61.3	1.787117			



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International boundary line St. Croix River Forest City Maine Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 600	45 39 45.285 67 43 39.983	131 35 40 155 17 45 285 12 45	311 35 39 335 17 44 105 12 46	T.P. 599 Ref. Mon. 59 Ref. Mon. 60	38.6 49.1 24.2	1.586716 1.690888 1.383983						
T.P. 601	45 39 47.941 67 43 34.681	54 27 30 229 27 20	234 27 26 49 27 24	T.P. 600 Ref. Mon. 61	141.1 155.0	2.149410 2.190332						
T.P. 602	45 39 49.050 67 43 32.670	51 49 27 228 08 27	231 49 26 48 08 30	T.P. 601 Ref. Mon. 61	55.4 99.7	1.743305 1.998695						
T.P. 603	45 39 49.784 67 43 32.533	7 29 08 238 23 08	187 29 08 58 23 11	T.P. 602 Ref. Mon. 61	22.8 83.7	1.358867 1.922726						
T.P. 604	45 39 50.781 67 43 31.760	28 30 12 256 31 12	208 30 11 76 31 14	T.P. 603 Ref. Mon. 61	35.0 56.1	1.544638 1.748963						
T.P. 605	45 39 50.022 67 43 27.542	104 23 30 134 48 30	284 23 27 314 48 29	T.P. 604 Ref. Mon. 61	94.3 51.8	1.974342 1.714330						
T.P. 606	45 39 48.336 67 43 25.925	140 59 26 146 05 26	320 59 24 326 05 25	Ref. Mon. 61 T.P. 605	114.0 62.7	2.056905 1.797612						
T.P. 607	45 39 46.279 67 43 22.946	134 33 48 138 08 48 355 49 27	314 33 46 318 08 44 175 49 28	T.P. 606 Ref. Mon. 61 Tassel	90.5 204.2 375.8	1.956708 2.310056 2.574933						
T.P. 608	45 39 44.864 67 43 21.511	0 38 27 144 34 31 326 35 10	180 38 27 324 34 30 146 35 13	Tassel T.P. 607 Ref. Mon. 62	331.1 53.6 146.6	2.519998 1.729118 2.166134						
T.P. 609	45 39 44.077 67 43 20.813	3 30 40 148 05 55 326 13 11	183 30 39 328 05 54 146 13 13	Tassel T.P. 608 Ref. Mon. 62	307.4 28.6 118.0	2.487697 1.456553 2.071882						
T.P. 610	45 39 43.376 67 43 19.473	126 42 12 334 25 12	306 42 11 154 25 13	T.P. 609 Ref. Mon. 62	36.2 84.8	1.558544 1.928188						
T.P. 611	45 39 43.151 67 43 17.846	101 10 13 358 51 13	281 10 12 178 51 13	T.P. 610 Ref. Mon. 62	35.9 69.5	1.554917 1.842071						
T.P. 612	45 39 43.573 67 43 16.061	24 18 14 71 23 14	204 18 13 251 23 13	Ref. Mon. 62 T.P. 611	90.5 40.8	1.956854 1.610544						
T.P. 613	45 39 43.934 67 43 14.220	39 28 15 74 23 15	219 28 13 254 23 14	Ref. Mon. 62 T.P. 612	121.3 41.4	2.083949 1.616850						
T.P. 614	45 39 44.619 67 43 13.279	40 20 16 43 55 16 192 52 53	220 20 13 223 55 15 12 52 56	Ref. Mon. 62 T.P. 613 Ref. Mon. 63	150.6 29.4 272.4	2.177869 1.467781 2.435236						
T.P. 615	45 39 46.474 67 43 12.734	11 38 26 193 13 14	191 38 25 13 13 16	T.P. 614 Ref. Mon. 63	58.4 214.0	1.766706 2.330406						
T.P. 616	45 39 47.813 67 43 11.804	23 44 15 190 26 15	203 44 14 10 26 16	T.P. 615 Ref. Mon. 63	45.2 169.8	1.654856 2.229898						

GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line St. Croix River

Mud Lake

State

Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 617	45 39 49.489	67 43 10.404		31 56 16	179 15 16		211 56 15	359 15 16		T.P. 616 Ref. Mon. 63	61.0 115.2	1.785195 2.061583
T.P. 618	45 39 51.673	67 43 09.584		14 44 17	158 04 17		194 44 16	338 04 16		T.P. 617 Ref. Mon. 63	69.7 51.5	1.843425 1.711936
T.P. 619	45 39 52.709	67 43 08.342		40 04 18	108 55 18		220 04 17	288 55 16		T.P. 618 Ref. Mon. 63	41.8 48.8	1.620988 1.688157
T.P. 620	45 39 54.278	67 43 05.337		53 19 24	73 38 27		233 19 22	253 38 23		T.P. 619 Ref. Mon. 63 Ref. Mon. 64 (1946)	81.1 115.9 271.5	1.909171 2.064058 2.433775
T.P. 621	45 39 56.361	67 43 06.996		37 49 38	217 49 38		217 49 36	37 49 43		Ref. Mon. 63 Ref. Mon. 64 (1946) T.P. 620	122.7 234.2 73.7	2.088940 2.369498 1.867202
T.P. 622	45 40 03.365	67 43 06.550		2 33 15	120 54 12		182 33 14	300 53 52		T.P. 621 Ref. Mon. 65 Ref. Mon. 64 (1946)	216.5 689.8 137.6	2.335391 2.838723 2.138508
T.P. 623	45 40 11.752	67 43 26.536		120 53 57	300 53 57		300 53 52	120 54 12		Ref. Mon. 65 T.P. 622	185.6 504.2	2.268578 2.702603
T.P. 624	45 40 19.672	67 43 27.299		43 43 53	144 06 53		223 43 48	324 06 42		Ref. Mon. 65 Ref. Mon. 66 T.P. 623	206.5 565.9 245.1	2.314901 2.752758 2.389301
T.P. 625	45 40 24.393	67 43 37.112		159 06 43	304 27 39		339 06 39	124 27 46		Ref. Mon. 66 T.P. 624 Ref. Mon. 65	334.7 257.6 303.1	2.524702 2.410941 2.481564
T.P. 626	45 40 35.818	67 43 49.795		153 54 58	284 26 58		333 54 50	104 27 03		Ref. Mon. 67 Ref. Mon. 66 T.P. 625	541.4 160.2 447.0	2.733518 2.204731 2.650261
T.P. 627	45 41 02.310	67 44 02.548		245 23 21	341 21 07		65 23 22	161 21 16		Ref. Mon. 68 T.P. 626 Ref. Mon. 67	48.3 863.2 333.8	1.684013 2.936119 2.523502
T.P. 628	45 41 19.901	67 44 06.338		158 00 07	267 30 07		338 00 06	87 30 17		Ref. Mon. 69 Ref. Mon. 70 T.P. 627	96.1 300.4 549.3	1.982748 2.477702 2.739772
T.P. 629	45 41 20.019	67 43 52.590		89 17 59	195 25 07		269 17 49	15 25 07		T.P. 628 Ref. Mon. 70 Ref. Mon. 71	297.5 9.8 38.7	2.473538 0.991001 1.587551
T.P. 630	45 41 20.941	67 43 47.661		75 03 11	79 38 11		255 03 07	259 38 07		T.P. 629 Ref. Mon. 70	110.4 105.8	2.042862 2.024319
T.P. 631	45 41 20.899	67 43 45.956		82 50 12	92 02 12		262 50 07	272 02 11		Ref. Mon. 70 T.P. 630	142.0 36.9	2.152426 1.567323



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GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

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STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 632	45 41 21.063	83 11 17	263 11 11	Ref. Mon. 70	191.9	2.283099						
	67 43 43.663	84 11 17	264 11 16	T.P. 631	49.9	1.697890						
		303 15 31	123 15 34	Ref. Mon. 72	92.1	1.964108						
T.P. 633	45 41 19.625	157 21 11	337 21 10	T.P. 632	48.1	1.681863						
	67 43 42.808	275 59 02	95 59 04	Ref. Mon. 72	58.8	1.769367						
T.P. 634	45 41 19.302	97 03 55	277 03 46	Ref. Mon. 70	256.7	2.409345						
	67 43 40.699	102 19 04	282 19 02	T.P. 633	46.7	1.669448						
		253 22 04	73 22 04	Ref. Mon. 72	13.4	1.127105						
T.P. 635	45 41 18.264	137 18 05	317 18 04	T.P. 634	43.6	1.639537						
	67 43 39.333	155 00 05	335 00 04	Ref. Mon. 72	39.6	1.597597						
T.P. 636	45 41 16.759	164 53 05	344 53 04	Ref. Mon. 72	85.3	1.930960						
	67 43 39.078	173 14 05	353 14 05	T.P. 635	46.8	1.670197						
T.P. 637	45 41 16.094	147 38 05	327 38 05	T.P. 636	24.3	1.385698						
	67 43 38.477	161 05 05	341 05 04	Ref. Mon. 72	108.8	2.036442						
		333 35 04	153 35 09	Ref. Mon. 73	305.5	2.485064						
T.P. 638	45 41 14.312	141 47 07	321 47 05	T.P. 637	70.0	1.845098						
	67 43 36.476	153 32 47	333 32 44	Ref. Mon. 72	176.3	2.246360						
		337 02 29	157 02 32	Ref. Mon. 73	237.4	2.375568						
T.P. 639	45 41 13.105	163 05 29	343 05 29	T.P. 638	38.9	1.590460						
	67 43 35.952	335 51 29	155 51 32	Ref. Mon. 73	198.8	2.298331						
T.P. 640	45 41 11.661	155 24 08	335 24 07	T.P. 639	49.1	1.690680						
	67 43 35.008	336 00 28	156 00 30	Ref. Mon. 73	149.7	2.175246						
T.P. 641	45 41 10.189	144 43 29	324 43 28	T.P. 640	55.7	1.745635						
	67 43 33.522	342 32 29	162 32 30	Ref. Mon. 73	95.7	1.981068						
T.P. 642	45 41 09.717	170 08 29	350 08 29	T.P. 641	14.8	1.170296						
	67 43 33.405	341 09 29	161 09 30	Ref. Mon. 73	81.1	1.908951						
T.P. 643	45 41 07.627	172 58 29	352 58 29	T.P. 642	65.0	1.812981						
	67 43 33.038	303 49 29	123 49 30	Ref. Mon. 73	22.0	1.341474						
T.P. 644	45 41 03.839	123 49 31	303 49 27	Ref. Mon. 74	131.9	2.120164						
	67 43 27.500	134 17 33	314 17 29	T.P. 643	167.4	2.223874						
		135 51 31	315 51 28	Ref. Mon. 73	145.9	2.164096						

GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line St. Croix River

Spednik Lake

State Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 645	45 41 02.608 67 43 25.259	6 52 54 128 05 49 236 45 04	186 52 53 308 05 47 56 45 05	Ref. Mon. 76 T.P. 644 Ref. Mon. 75	129.0 61.6 46.0	2.110665 1.789578 1.662823						
T.P. 646	45 40 56.500 67 43 20.854	118 38 17 153 11 14 165 06 47	298 38 13 333 11 11 345 06 45	Ref. Mon. 76 T.P. 645 Ref. Mon. 75	126.2 211.3 221.2	2.101113 2.324905 2.344853						
T.P. 647	45 40 45.658 67 43 06.088	132 33 49 136 19 35 228 21 19	312 33 35 316 19 25 48 21 26	Ref. Mon. 76 T.P. 646 Ref. Mon. 77	584.3 462.8 284.3	2.766615 2.665358 2.453743						
T.P. 648	45 40 52.062 67 42 49.024	61 50 03 86 46 28	241 49 51 266 46 23	T.P. 647 Ref. Mon. 77	418.9 157.1	2.622112 2.196176						
T.P. 649	45 40 52.560 67 42 36.419	49 28 17 86 46 37 86 46 37	229 28 08 266 46 28 266 46 23	Ref. Mon. 78 T.P. 648 Ref. Mon. 77	344.4 273.2 430.3	2.537104 2.436538 2.633808						
T.P. 650	45 40 44.913 67 42 39.902	93 45 55 197 42 39 344 42 35	273 45 49 17 42 42 164 42 42	Ref. Mon. 78 T.P. 649 Ref. Mon. 80	186.8 247.8 841.1	2.271377 2.394170 2.924850						
T.P. 651	45 40 24.518 67 42 24.172	33 09 21 151 36 04 213 09 21	213 09 17 331 35 53 33 09 30	Ref. Mon. 80 T.P. 650 Ref. Mon. 79	217.0 715.8 517.5	2.336464 2.854800 2.713912						
T.P. 652	45 40 08.391 67 42 06.968	122 46 55 143 12 32 302 46 55	302 46 39 323 12 20 122 47 00	Ref. Mon. 80 T.P. 651 Ref. Mon. 81	584.1 621.7 178.1	2.766472 2.793614 2.250649						
T.P. 653	45 39 34.177 67 41 54.548	101 03 04 165 43 13 281 03 04	281 02 45 345 43 04 101 03 11	Ref. Mon. 82 T.P. 652 Ref. Mon. 83	570.4 1090.0 243.1	2.756187 3.037410 2.385792						
T.P. 654	45 39 12.506 67 41 30.695	12 24 22 142 20 19 192 24 22	192 24 18 322 20 02 12 24 23	Ref. Mon. 85 T.P. 653 Ref. Mon. 84	566.7 845.2 210.4	2.753365 2.926943 2.323110						
T.P. 655	45 39 00.037 67 41 34.606	12 24 19 192 24 19 192 24 19	192 24 18 12 24 22 12 24 23	Ref. Mon. 85 T.P. 654 Ref. Mon. 84	172.5 394.2 604.6	2.236897 2.595687 2.781471						
T.P. 656	45 38 17.375 67 40 49.186	90 29 59 143 15 13 270 29 59	270 29 44 323 14 40 90 30 04	Ref. Mon. 87 T.P. 655 Ref. Mon. 86	454.2 1643.9 158.1	2.657217 3.215867 2.198904						
T.P. 657	45 37 50.445 67 40 32.796	135 54 51 156 52 43 315 54 51	315 54 24 336 52 31 135 55 26	Ref. Mon. 87 T.P. 656 Ref. Mon. 88	1163.0 904.0 1514.4	3.065579 2.956172 3.180240						



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International boundary line	St. Croix River	Spednik Lake	State	Maine	Province	New Brunswick										
STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION			DISTANCE (METERS)		LOGARITHM	
T.P. 658	45	37	26.984	135	55	14	315	54	51	T.P. 657			1008.3		3.003598	
	67	40	00.413	135	55	14	315	54	24	Ref. Mon. 87			2171.3		3.336723	
				241	19	11	61	19	26	Ref. Mon. 89			504.1		2.702476	
				315	55	14	135	55	26	Ref. Mon. 88			506.1		2.704219	
T.P. 659	45	37	31.072	61	19	19	241	19	11	T.P. 658			262.9		2.419837	
	67	39	49.765	241	19	19	61	19	26	Ref. Mon. 89			241.1		2.382242	
				322	32	12	142	32	50	Ref. Mon. 90			1883.6		3.274999	
T.P. 660	45	36	47.797	55	58	23	235	58	15	Ref. Mon. 90			284.5		2.454093	
	67	38	46.007	134	03	03	314	02	18	T.P. 659			1921.7		3.283694	
				235	58	23	55	58	56	Ref. Mon. 93			1184.7		3.073619	
T.P. 661	45	36	57.674	55	58	38	235	58	23	T.P. 660			545.0		2.736408	
	67	38	25.160	55	58	38	235	58	15	Ref. Mon. 90			829.5		2.918827	
				235	58	38	55	58	56	Ref. Mon. 93			639.7		2.805987	
T.P. 662	45	37	23.108	59	59	04	239	58	54	Ref. Mon. 91			343.8		2.536253	
	67	38	40.206	239	59	04	59	59	23	Ref. Mon. 92			668.9		2.825374	
				337	27	10	157	27	21	T.P. 661			850.2		2.929512	
T.P. 663	45	37	30.192	59	59	16	239	59	04	T.P. 662			437.2		2.640727	
	67	38	22.729	59	59	16	239	58	54	Ref. Mon. 91			781.0		2.892654	
				239	59	16	59	59	23	Ref. Mon. 92			231.7		2.364872	
T.P. 664	45	37	16.700	21	55	49	201	55	46	Ref. Mon. 93			247.4		2.393338	
	67	37	56.423	126	10	00	306	09	41	T.P. 663			705.9		2.848737	
				201	55	49	21	55	51	Ref. Mon. 94			185.7		2.268926	
T.P. 665	45	36	21.912	22	57	50	202	57	44	Ref. Mon. 96			503.2		2.701710	
	67	36	32.124	132	48	34	312	47	34	T.P. 664			2489.5		3.396104	
				202	57	50	22	57	59	Ref. Mon. 95			661.5		2.820521	
T.P. 666	45	36	24.196	27	05	19	207	05	13	Ref. Mon. 97			375.6		2.574781	
	67	35	25.461	87	12	48	267	12	00	T.P. 665			1446.3		3.160260	
				207	05	19	27	05	27	Ref. Mon. 98			545.8		2.737010	
T.P. 667	45	36	07.945	134	06	24	314	06	07	T.P. 666			720.9		2.857861	
	67	35	01.575	164	45	38	344	45	29	Ref. Mon. 98			1023.6		3.010131	
				344	45	38	164	45	40	Ref. Mon. 99			295.4		2.470350	
T.P. 668	45	35	40.670	116	37	33	296	36	38	T.P. 667			1879.3		3.273993	
	67	33	44.055	146	06	03	326	05	51	Ref. Mon. 100			653.9		2.815527	
				267	20	33	87	20	53	Ref. Mon. 101			616.3		2.789824	
T.P. 669	45	35	41.130	87	20	43	267	20	33	T.P. 668			306.1		2.485895	
	67	33	29.947	267	20	43	87	20	53	Ref. Mon. 101			310.2		2.491674	
T.P. 670	45	35	48.875	12	43	32	192	43	30	T.P. 669			245.1		2.389421	
	67	33	27.455	111	46	52	291	46	28	Ref. Mon. 100			780.2		2.892193	
				311	17	38	131	17	46	Ref. Mon. 101			340.6		2.532220	

## INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA

GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

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International boundary line St. Croix River Spednik Lake State Maine Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 671	45 35 52.025 67 32 54.761	54 34 49 82 11 25 222 33 06 234 34 49	234 34 34 262 11 02 42 33 18 54 35 04	Ref. Mon. 101 T.P. 670 Ref. Mon. 102-A Ref. Mon. 102	555.5 715.2 523.1 551.9	2.744720 2.854445 2.718617 2.741821						
T.P. 672	45 35 41.928 67 32 08.737	107 21 33 137 17 02 139 04 00 319 04 00	287 21 00 317 16 41 319 03 42 139 04 32	T.P. 671 Ref. Mon. 102-A Ref. Mon. 102 Ref. Mon. 103	1045.1 948.8 836.0 1502.1	3.019160 2.977197 2.922209 3.176702						
T.P. 673	45 35 15.432 67 31 11.246	39 36 00 123 17 13 219 36 00	219 35 51 303 16 32 39 36 30	Ref. Mon. 103 T.P. 672 Ref. Mon. 104	411.3 1490.6 1431.8	2.614121 3.173374 3.155870						
T.P. 674	45 35 11.726 67 29 58.465	6 13 23 94 09 18 186 13 23	186 13 21 274 08 26 6 13 25	Ref. Mon. 105 T.P. 673 Ref. Mon. 106	492.8 1581.9 662.8	2.692639 3.199171 2.821372						
T.P. 675	45 35 27.009 67 29 31.405	51 11 39 171 04 17 241 11 57	231 11 21 351 04 16 61 12 10	T.P. 674 Ref. Mon. 107 Ref. Mon. 108	752.8 272.2 442.5	2.876681 2.434892 2.645925						
T.P. 676	45 35 35.419 67 29 30.060	6 24 27 97 22 58 277 22 58	186 24 26 277 22 56 97 23 10	T.P. 675 Ref. Mon. 107 Ref. Mon. 108	261.3 72.0 361.6	2.417113 1.857345 2.558244						
T.P. 677	45 35 37.110 67 29 23.997	68 20 20 78 02 46 293 28 30	248 20 15 258 02 39 113 28 37	T.P. 676 Ref. Mon. 107 Ref. Mon. 108	141.4 207.3 247.7	2.150461 2.316639 2.393920						
T.P. 678	45 35 41.959 67 29 20.833	24 36 24 147 26 08 327 26 08	204 36 22 327 25 50 147 26 13	T.P. 677 Ref. Mon. 110 Ref. Mon. 108	164.7 998.5 294.7	2.216601 2.999329 2.469405						
T.P. 679	45 35 44.735 67 29 18.633	29 05 58 48 54 06 341 37 46	209 05 57 228 53 56 161 37 50	T.P. 678 Ref. Mon. 107 Ref. Mon. 108	98.1 423.4 352.0	1.991502 2.626767 2.546552						
T.P. 680	45 35 48.844 67 29 17.871	7 24 48 139 54 43 185 30 23	187 24 47 319 54 31 5 30 29	T.P. 679 Ref. Mon. 109 Ref. Mon. 111	127.9 551.2 307.1	2.106987 2.741321 2.487275						
T.P. 681	45 35 49.098 67 29 27.328	147 26 03 272 11 34 327 26 03	327 25 50 92 11 42 147 26 13	Ref. Mon. 110 T.P. 680 Ref. Mon. 108	736.9 205.1 556.2	2.867433 2.311993 2.745256						
T.P. 682	45 35 54.391 67 29 32.143	147 26 00 327 26 00 327 26 00	327 25 50 147 26 03 147 26 13	Ref. Mon. 110 T.P. 681 Ref. Mon. 108	543.0 193.9 750.1	2.734825 2.287602 2.875144						
T.P. 683	45 35 55.950 67 29 40.769	165 34 10 284 26 25 345 34 10	345 34 06 104 26 31 165 34 15	Ref. Mon. 110 T.P. 682 Ref. Mon. 107	422.8 193.0 645.0	2.626178 2.285648 2.809535						



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International boundary line			St. Croix River			Spednik Lake			State			Maine			Province			New Brunswick		
STATION			LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION			DISTANCE (METERS)			LOGARITHM		
T.P. 684	45	36	04.611	13	25	26	193	25	25	T.P. 683	274.9	2.439148								
	67	29	37.825	130	01	57	310	01	52	Ref. Mon. 110	221.0	2.344322								
				310	01	57	130	02	00	Ref. Mon. 109	101.2	2.005112								
T.P. 685	45	36	04.543	50	14	05	230	14	02	Ref. Mon. 109	98.5	1.993401								
	67	29	30.757	90	46	49	270	46	43	T.P. 684	153.2	2.185244								
				230	14	05	50	14	30	Ref. Mon. 112	994.4	2.997572								
T.P. 686	45	36	02.575	88	54	00	268	53	56	Ref. Mon. 109	115.1	2.060923								
	67	29	28.942	147	05	53	327	05	52	T.P. 685	72.4	1.859763								
				293	41	40	113	41	49	Ref. Mon. 111	294.2	2.468638								
T.P. 687	45	36	04.862	29	12	35	209	12	32	Ref. Mon. 111	216.4	2.335201								
	67	29	11.639	79	20	06	259	19	54	T.P. 686	381.6	2.581577								
				209	12	35	29	12	47	Ref. Mon. 112	717.4	2.855784								
T.P. 688	45	36	13.847	68	04	29	248	04	06	T.P. 687	742.8	2.870888								
	67	28	39.843	135	49	24	315	49	13	Ref. Mon. 112	486.3	2.686937								
				315	49	24	135	49	41	Ref. Mon. 113	747.3	2.873497								
T.P. 689	45	36	01.631	135	49	36	315	49	24	T.P. 688	525.8	2.720847								
	67	28	22.935	135	49	36	315	49	13	Ref. Mon. 112	1012.2	3.005253								
				315	49	36	135	49	41	Ref. Mon. 113	221.5	2.345319								
T.P. 690	45	36	02.222	41	38	22	221	38	17	Ref. Mon. 113	237.0	2.374660								
	67	28	08.550	86	39	13	266	39	03	T.P. 689	312.3	2.494564								
				221	38	22	41	38	49	Ref. Mon. 114	1204.4	3.080756								
T.P. 691	45	36	12.142	41	38	31	221	38	22	T.P. 690	409.8	2.612592								
	67	27	55.985	41	38	31	221	38	17	Ref. Mon. 113	646.8	2.810751								
				221	38	31	41	38	49	Ref. Mon. 114	794.5	2.900116								
T.P. 692	45	36	15.396	81	10	49	261	10	27	T.P. 691	655.0	2.816239								
	67	27	26.119	166	24	40	346	24	36	Ref. Mon. 114	507.5	2.705428								
				346	24	40	166	24	44	Ref. Mon. 115	486.1	2.686721								
T.P. 693	45	36	08.649	57	02	05	237	01	52	Ref. Mon. 115-A	486.9	2.687450								
	67	27	02.055	111	46	33	291	46	16	Ref. Mon. 115	485.5	2.686178								
				237	02	05	57	02	18	T.P. 692	490.4	2.690573								
T.P. 694	45	35	47.555	162	07	11	342	07	04	Ref. Mon. 116	561.6	2.749402								
	67	26	52.360	280	31	51	100	32	04	T.P. 693	451.4	2.654558								
				321	21	01	141	21	05	Ref. Mon. 118	684.3	2.835230								
T.P. 695	45	35	46.733	29	52	47	209	52	45	Ref. Mon. 117	391.8	2.593109								
	67	26	44.909	98	56	13	278	56	07	T.P. 694	164.1	2.215015								
				281	40	27	101	40	34	Ref. Mon. 118	118.5	2.073677								
T.P. 696	45	35	37.570	128	46	25	308	46	18	Ref. Mon. 117	163.5	2.213458								
	67	26	37.285	149	42	35	329	42	30	T.P. 695	228.5	2.358832								
				193	53	09	13	53	11	Ref. Mon. 118	287.7	2.458890								

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International boundary line St. Croix River

Spednik Lake

State Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 697	45 35 08.596	67 26 03.017		140 17 46	255 14 16	256 31 00	320 17 21	75 14 24	76 31 07	T.P. 696	1162.7	3.065480
				332 47 00			152 47 06			Ref. Mon. 119-A	260.6	2.415905
										Ref. Mon. 119	228.4	2.358758
										Ref. Mon. 120	422.1	2.625438
T.P. 698	45 35 02.542	67 25 53.522		3 52 56	132 14 33	183 52 56	183 52 56	312 14 27	3 52 57	Ref. Mon. 120	188.9	2.276239
				190 19 08			10 19 10			T.P. 697	278.0	2.444117
										Ref. Mon. 119	240.7	2.381530
										Ref. Mon. 119-A	257.5	2.410730
T.P. 699	45 34 42.127	67 25 33.887		92 22 15	145 57 58	200 53 55	272 22 11	325 57 44	20 53 56	Ref. Mon. 121	111.5	2.047148
										T.P. 698	760.6	2.881137
										Ref. Mon. 122	112.3	2.050250
T.P. 700	45 34 36.508	67 25 33.335		145 17 35	176 03 09	185 45 35	325 17 31	356 03 09	5 45 36	Ref. Mon. 121	216.6	2.335712
										T.P. 699	173.9	2.240262
										Ref. Mon. 122	279.8	2.446794
T.P. 701	45 34 25.453	67 25 28.334		102 02 05	162 22 25	282 02 05	282 02 02	342 22 21	102 02 07	Ref. Mon. 123	84.2	1.925312
										T.P. 700	358.1	2.553989
										Ref. Mon. 124	56.5	1.752048
T.P. 702	45 34 17.504	67 25 25.487		63 44 24	165 52 46	178 24 44	243 44 11	345 52 44	358 24 44	Ref. Mon. 125	447.0	2.650323
										T.P. 701	253.0	2.403198
										Ref. Mon. 124	233.7	2.368674



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STATION			LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION			DISTANCE (METERS)			LOGARITHM		
T.P. 703			45 34 09.221	67 25 41.629	138 44 45	233 50 49	318 44 45	318 44 43	53 51 00	138 44 47	Ref. Mon. 125			77.08	1.886965					
											T.P. 702			433.5	2.637008					
											Ref. Mon. 126			104.21	2.017912					
N.E. Tablet, Highway Bridge Vanceboro-St. Croix d.m. 1939; r. 1955			45 34 07.292	67 25 45.459	195 19 53	234 21 20	277 03 32	15 19 54	54 21 23	97 03 37	Ref. Mon. 125			121.8	2.085782					
											T.P. 703			102.2	2.009408					
											Ref. Mon. 126			152.9	2.184468					
S.W. Tablet, Highway Bridge Vanceboro-St. Croix d.m. 1939; r. 1955			45 34 07.157	67 25 45.727	197 21 35	234 21 20	275 17 56	17 21 36	54 21 20	95 18 01	Ref. Mon. 125			127.5	2.105459					
											N.E. Tablet, Hwy. Br.			7.166	0.855277					
											T.P. 703			109.4	2.038843					
											Ref. Mon. 126			158.3	2.199377					
T.P. 704			45 34 07.020	67 25 45.998	234 21 20	234 21 20		54 21 23	54 21 20		T.P. 703			116.59	2.066647					
											S.W. Tablet, Hwy. Br.			7.2	0.858772					
T.P. 705			45 34 05.780	67 25 45.924	177 35 06	221 14 20		357 35 06	41 14 23		T.P. 704			38.3	1.583510					
											T.P. 703			141.28	2.150066					
T.P. 706			45 34 03.129	67 25 43.169	143 52 21	356 25 45		323 52 19	176 25 45		T.P. 705			101.3	2.005734					
											Dunk			190.50	2.279896					
T.P. 707			45 33 54.186	67 25 43.411	97 17 34	181 05 18		277 17 31	1 05 19		Ref. Mon. 129			113.2	2.053804					
											T.P. 706			276.1	2.441125					
											Dunk			87.64	1.942720					
											Ref. Mon. 127			85.8	1.933382					
No. Tablet, Railroad Bridge Vanceboro-St. Croix d.m. 1939; r. 1946			45 33 50.166	67 25 40.972	62 39 35	156 55 11	244 31 43	242 39 34	336 55 09	64 31 43	West Abutment			24.1	1.382757					
											T.P. 707			134.9	2.130063					
											East Abutment			24.1	1.381934					
T.P. 708			45 33 50.154	67 25 40.965	63 35 36	156 55 11	243 35 36	243 35 35	336 55 09	63 35 36	West Abutment			24.115	1.382288					
											T.P. 707			135.3	2.131330					
											No. Tablet, RR. Bridge			0.394	9.595496					
											East Abutment			24.115	1.382288					
So. Tablet, Railroad Bridge Vanceboro-St. Croix d.m. 1939; r. 1946			45 33 50.051	67 25 40.866	72 22 52	146 06 12	234 26 22	252 22 51	326 06 12	54 26 22	West Abutment			24.9	1.396334					
											T.P. 708			3.838	0.584105					
											East Abutment			23.9	1.378750					
T.P. 709			45 33 46.800	67 25 37.757	79 49 13	146 06 14	146 06 14	259 49 11	326 06 12	326 06 12	Ref. Mon. 130			64.62	1.810352					
											T.P. 708			124.7	2.096036					
											So. Tablet, RR. Bridge			120.9	2.082465					
											Tan=Ref. Mon. 128 sub			96.1	1.982863					
											Ref. Mon. 128			99.2	1.996373					
T.P. 710			45 33 44.092	67 25 39.020	153 21 27	198 07 52		333 21 26	18 07 53		Ref. Mon. 130			80.77	1.907262					
											T.P. 709			88.0	1.944410					
T.P. 711			45 33 37.942	67 25 37.528	165 20 07	170 19 42	303 44 36	345 20 05	350 19 41	123 44 39	Ref. Mon. 130			270.9	2.432772					
											T.P. 710			192.6	2.284643					
											Bar			105.16	2.021835					

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International boundary line	St. Croix River	Vanceboro to Woodland	State	Maine	Province	New Brunswick										
STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION			DISTANCE (METERS)		LOGARITHM	
T.P. 712	45 33 33.604 67 25 31.447	135 26 35 149 31 32	315 26 31 329 31 31	T.P. 711 Bar	188.0 87.63	2.274085 1.942654										
T.P. 713	45 33 28.564 67 25 25.620	9 00 36 140 54 59	189 00 35 320 54 55	Ref. Mon. 132 T.P. 712	140.97 200.5	2.149128 2.302020										
T.P. 714	45 33 23.285 67 25 21.375	0 06 56 101 45 16 150 32 22	180 06 56 281 45 12 330 32 19	Ref. Mon. 131 Ref. Mon. 132 T.P. 713	210.4 116.59 187.2	2.323133 2.066647 2.272272										
T.P. 715	45 33 13.332 67 25 23.622	189 00 45 206 30 53	9 00 47 26 30 55	T.P. 714 Ref. Mon. 131	311.1 108.20	2.492924 2.034244										
T.P. 716	45 32 58.604 67 25 16.376	58 30 02 160 55 54	238 29 59 340 55 49	T.S. N-7a T.P. 715	115.82 481.1	2.063800 2.682229										
T.P. 717	45 32 49.040 67 25 28.020	39 02 32 220 32 41	219 02 30 40 32 49	T.S. N-9a T.P. 716	112.78 388.6	2.052218 2.589465										
T.P. 718	45 32 46.002 67 25 27.392	30 11 08 171 44 08	210 11 07 351 44 08	T.S. N-9 T.P. 717	85.34 94.8	1.931174 1.976696										
T.P. 719	45 32 34.519 67 25 29.472	37 04 13 187 15 13	217 04 09 7 15 14	T.S. N-13a T.P. 718	188.98 357.4	2.276408 2.553120										
T.P. 720	45 32 29.037 67 25 33.731	130 39 10 208 37 59	310 39 09 28 38 02	T.S. N-13a T.P. 719	28.35 192.8	1.452499 2.285186										
T.P. 721	45 32 24.697 67 25 32.259	160 40 56 166 35 37	340 40 54 346 35 36	T.S. N-13a T.P. 720	161.54 137.7	2.208292 2.139045										
T.P. 722	45 32 23.275 67 25 35.165	103 48 40 235 09 00	283 48 34 55 09 02	T.S. N-16 T.P. 721	190.50 76.8	2.279896 1.885513										
T.P. 723	45 32 24.894 67 25 40.369	86 25 36 293 52 38	266 25 34 113 52 42	T.S. N-16 T.P. 722	72.24 123.5	1.858764 2.091537										
T.P. 724	45 32 23.091 67 25 44.850	206 08 33 240 12 04	26 08 34 60 12 07	T.S. N-16 T.P. 723	57.00 112.0	1.755858 2.049306										
T.P. 725	45 32 24.873 67 25 47.120	123 08 55 318 09 53	303 08 53 138 09 55	Ref. Mon. 134-A T.P. 724	70.71 73.8	1.849504 1.868285										
T.P. 726	45 32 26.283 67 25 52.996	255 45 50 288 51 08 305 10 29	75 45 53 108 51 12 125 10 31	Ref. Mon. 134 T.P. 725 Ref. Mon. 133	80.16 134.7 67.6	1.903972 2.129403 1.829890										
T.P. 727	45 32 25.235 67 25 58.879	255 45 46 255 45 46	75 45 53 75 45 50	Ref. Mon. 134 T.P. 726	211.84 131.7	2.326001 2.119500										
T.P. 728	45 32 12.727 67 26 03.465	51 24 49 194 26 55	231 24 47 14 26 58	T.S. N-18d T.P. 727	59.44 398.8	1.774051 2.600720										



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STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 729	45 32 08.955	201 32 46	21 32 47	67 26 07.051	213 44 49	33 44 52	T.S. N-18d	85.34	1.931174			
							T.P. 728	140.0	2.146283			
T.P. 730	45 31 57.731	34 51 16	214 51 13	67 26 05.680	175 05 36	355 05 35	New Goodine	182.88	2.262167			
							T.P. 729	347.8	2.541316			
T.P. 731	45 31 53.480	66 56 14	246 56 13	67 26 08.455	204 38 52	24 38 54	New Goodine	48.16	1.682673			
							T.P. 730	144.4	2.159450			
T.P. 732	45 31 41.059	162 47 29	342 47 27	67 26 07.488	176 52 05	356 52 04	Ref. Mon. 136	160.9	2.206588			
					183 02 25	3 02 25	T.P. 731	384.0	2.584379			
							Ref. Mon. 135	124.97	2.096800			
T.P. 733	45 31 29.298	158 23 14	338 23 09	67 26 00.859	312 51 59	132 52 03	T.P. 732	390.6	2.591679			
							Black	152.40	2.182986			
T.P. 734	45 31 25.437	140 02 12	320 02 08	67 25 56.255	217 12 03	37 12 03	T.P. 733	155.5	2.191849			
							Black	19.51	1.290196			
T.P. 735	45 31 21.044	42 34 28	222 34 27	67 25 56.499	182 14 09	2 14 09	Found	29.57	1.470788			
							T.P. 734	135.7	2.132665			
T.P. 736	45 31 16.381	194 59 56	14 59 57	67 25 58.929	200 07 14	20 07 16	Found	126.49	2.102064			
							T.P. 735	153.3	2.185575			
T.P. 737	45 31 10.977	19 04 20	199 04 20	67 25 59.693	185 40 33	5 40 33	R.M. 136-A=Holbrook	32.31	1.509322			
					255 06 45	75 06 47	T.P. 736	167.7	2.224422			
							R.M. 135-A=Wood	37.0	1.568731			
T.P. 738	45 31 08.897	120 54 52	300 54 50	67 25 57.589	144 34 39	324 34 37	R.M. 136-A=Holbrook	65.53	1.816454			
							T.P. 737	78.8	1.896451			
T.P. 739	45 31 08.242	94 08 30	274 08 20	67 25 44.718	288 09 31	108 09 34	T.P. 738	280.1	2.447285			
							Case	101.50	2.006460			
T.P. 740	45 31 01.405	133 27 54	313 27 47	67 25 34.457	323 24 16	143 24 18	T.P. 739	306.8	2.486914			
							Crib	86.56	1.937334			
T.P. 741	45 30 54.433	194 38 52	14 38 53	67 25 37.049	216 30 15	36 30 18	T.P. 740	222.5	2.347291			
					355 01 53	175 01 53	Crib	181.3	2.258455			
							Ref. Mon. 138	89.1	1.949955			
T.P. 742	45 30 49.728	119 10 26	299 10 23	67 25 32.034	143 09 03	323 09 00	Ref. Mon. 138	115.82	2.063800			
					222 15 12	42 15 14	T.P. 741	181.5	2.258881			
							Ref. Mon. 137	88.7	1.948112			
T.P. 743	45 30 42.212	125 46 06	305 45 53	67 25 17.326	126 00 41	306 00 30	Ref. Mon. 138-A	512.3	2.709555			
					148 31 28	328 31 18	T.P. 742	394.7	2.596237			
							Crib	613.3	2.787659			
T.P. 744	45 30 15.320	149 07 59	329 07 57	67 25 01.371	157 21 24	337 21 13	T.S. P-7	146.30	2.165257			
							T.P. 743	899.6	2.954036			

International boundary line St. Croix River

Vanceboro to Woodland

State Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 745	45 30 04.431 67 25 00.337	71 58 01 108 30 54 176 10 47	251 57 56 288 30 49 356 10 46	Ref.Mon. 137-A Crib 3 T.P. 744	149.9 145.2 336.9	2.175852 2.162111 2.527525
T.P. 746	45 30 04.091 67 25 06.817	2 58 56 138 06 21 182 58 56 265 44 00	182 58 56 318 06 12 2 58 56 85 44 05	Ref.Mon. 137-A Ref.Mon. 137-B Crib 3 T.P. 745	36.0 424.1 56.69 141.1	1.555891 2.627518 1.753529 2.149440
T.P. 747	45 30 19.550 67 25 24.120	217 46 44 318 28 14 321 47 32	37 46 46 138 28 20 141 47 44	T.S. P-5 Crib 4 T.P. 746	113.0 298.3 607.4	2.052943 2.474581 2.783446
T.P. 748	45 30 17.388 67 25 32.791	250 28 33 357 27 04	70 28 39 177 27 04	T.P. 747 T.S. C-9a	199.7 85.34	2.300430 1.931174
T.P. 749	45 30 12.917 67 25 30.084	133 50 06 156 56 27	313 50 04 336 56 25	T.S. C-9a T.P. 748	76.20 150.0	1.881956 2.176153
T.P. 750	45 30 07.674 67 25 37.598	213 30 12 225 13 21 239 01 13	33 30 14 45 13 26 59 01 16	Ref.Mon. 140 T.P. 749 Ref.Mon. 139	96.01 229.8 85.6	1.982327 2.361364 1.932353
T.P. 751	45 30 03.065 67 25 40.395	98 20 29 203 06 31 207 05 10	278 20 22 23 06 33 27 05 14	T.S. C-12b T.P. 750 Ref.Mon. 140	216.0 154.7 249.7	2.334520 2.189482 2.397480
T.P. 752	45 30 03.445 67 25 50.374	188 27 22 273 06 02	8 27 22 93 06 09	T.S. C-12b T.P. 751	19.81 217.0	1.296929 2.336419
T.P. 753	45 30 04.673 67 25 52.830	184 09 36 216 05 28 305 24 44	4 09 37 36 05 30 125 24 46	T.S. C-13 T.S. C-12a T.P. 752	316.4 107.5 65.4	2.500176 2.031566 1.815746
T.P. 754	45 30 10.848 67 25 52.192	4 09 37 184 09 37 300 45 29	184 09 36 4 09 37 120 45 33	T.P. 753 T.S. C-13 T.S. C-12	191.1 125.2 149.4	2.281345 2.097670 2.174415
T.P. 755	45 30 13.534 67 25 58.610	254 12 32 300 45 24 300 45 24	74 12 37 120 45 33 120 45 29	T.S. C-13 T.S. C-12 T.P. 754	154.2 311.6 162.1	2.188185 2.493543 2.209887
T.P. 756	45 30 12.050 67 26 06.076	139 57 22 254 12 27 254 12 27	319 57 16 74 12 37 74 12 32	T.S. C-17a T.S. C-13 T.P. 755	282.2 322.7 168.5	2.450610 2.508811 2.226531
T.P. 757	45 30 18.152 67 26 15.434	217 56 15 312 50 46	37 56 16 132 50 53	T.S. C-17a T.P. 756	35.05 277.1	1.544714 2.442583
T.P. 758	45 30 18.627 67 26 32.907	200 22 46 272 12 44	20 22 47 92 12 56	T.S. C-19a T.P. 757	44.20 379.6	1.645384 2.579337
T.P. 759	45 30 35.070 67 26 54.764	194 14 21 316 55 53	14 14 21 136 56 09	T.S. C-25 T.P. 758	51.82 694.9	1.714465 2.841895



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STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 760	45 30	36.726	242 52 16	62 52 18			62 52 18			T.S. C-26a	73.76	1.867831
	67 27	02.493	286 56 47	106 56 52			106 56 52			T.P. 759	175.4	2.244012
T.P. 761	45 30	33.075	221 03 49	41 03 50			41 03 50			Ref.Mon. 142	47.0	1.672513
	67 27	12.626	242 52 09	62 52 16			62 52 16			T.P. 760	247.1	2.392946
			242 52 09	62 52 18			62 52 18			T.S. C-26a	320.9	2.506374
			255 39 19	75 39 20			75 39 20			Ref.Mon. 141	41.7	1.620276
T.P. 762	45 30	31.619	221 03 48	41 03 49			41 03 49			T.P. 761	59.6	1.775503
	67 27	14.430	221 03 48	41 03 50			41 03 50			Ref.Mon. 142	106.68	2.028084
T.P. 763	45 30	25.397	123 30 30	303 30 29			303 30 29			T.S. D-1a	39.62	1.597959
	67 27	13.295	172 41 27	352 41 26			352 41 26			T.P. 762	193.7	2.287045
T.P. 764	45 30	18.497	129 59 38	309 59 29			309 59 29			T.S. D-1a	365.5	2.562887
	67 27	01.918	130 46 48	310 46 40			310 46 40			T.P. 763	326.2	2.513430
			357 49 54	177 49 54			177 49 54			T.S. D-4a	211.3	2.324824
T.P. 765	45 30	07.421	150 07 56	330 07 54			330 07 54			T.S. D-4a	150.88	2.178621
	67 26	58.089	166 20 11	346 20 09			346 20 09			T.P. 764	351.9	2.546429
T.P. 766	45 29	56.480	149 44 04	329 44 03			329 44 03			T.S. D-5	71.63	1.855084
	67 27	00.953	190 25 49	10 25 51			10 25 51			T.P. 765	343.5	2.535865
T.P. 767	45 29	56.424	189 21 35	9 21 36			9 21 36			Ref.Mon. 144	31.3	1.496000
	67 27	07.694	269 19 21	89 19 26			89 19 26			T.P. 766	146.4	2.165446
			305 59 46	125 59 47			125 59 47			Ref.Mon. 143	24.38	1.387106
T.P. 768	45 30	00.571	140 48 24	320 48 04			320 48 04			Ref.Mon. 146	974.6	2.988847
	67 27	15.810	305 59 40	125 59 46			125 59 46			T.P. 767	217.8	2.338067
			305 59 40	125 59 47			125 59 47			Ref.Mon. 143	242.2	2.384154
T.P. 769	45 30	22.053	140 48 06	320 48 04			320 48 04			Ref.Mon. 146	118.87	2.075081
	67 27	40.720	320 48 06	140 48 24			140 48 24			T.P. 768	855.8	2.932359
T.P. 770	45 30	24.880	152 47 16	332 47 15			332 47 15			Ref.Mon. 145	59.8	1.776608
	67 27	45.066	255 49 03	75 49 04			75 49 04			Ref.Mon. 146	19.81	1.296929
			312 46 13	132 46 16			132 46 16			T.P. 769	128.5	2.108940
T.P. 771	45 30	28.686	289 18 57	109 18 58			109 18 58			T.S. B-19a	43.4	1.637254
	67 27	46.097	339 44 03	159 44 04			159 44 04			Ref.Mon. 146	120.1	2.079461
			349 12 51	169 12 51			169 12 51			T.P. 770	119.6	2.077772
T.P. 772	45 30	29.853	140 04 05	320 04 03			320 04 03			T.S. B-20a	92.9	1.968135
	67 27	50.833	289 18 53	109 18 57			109 18 57			T.P. 771	109.0	2.037237
			289 18 53	109 18 58			109 18 58			T.S. B-19a	152.3	2.182782
T.P. 773	45 30	23.989	40 57 08	220 57 06			220 57 06			T.S. B-23a	74.68	1.873182
	67 28	01.592	232 13 09	52 13 17			52 13 17			T.P. 772	295.5	2.470568
T.P. 774	45 30	20.620	156 00 07	336 00 06			336 00 06			T.S. B-23a	52.12	1.717012
	67 28	02.871	194 56 10	14 56 11			14 56 11			T.P. 773	107.7	2.032025

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STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 775	45 30 19.176	220 21 17	40 21 18	67 28 08.532	250 03 41	70 03 45	T.S. B-23b	36.88	1.566801			
							T.P. 774	130.7	2.116379			
T.P. 776	45 30 20.682	208 05 59	28 06 00	67 28 13.575	293 00 35	113 00 39	T.S. B-24	64.01	1.806235			
							T.P. 775	118.9	2.075337			
T.P. 777	45 30 14.789	140 58 54	320 58 51	67 28 18.049	208 05 56	28 05 59	T.S. B-26	133.7	2.126068			
					208 05 56	28 06 00	T.P. 776	206.2	2.314342			
							T.S. B-24	270.2	2.431739			
T.P. 778	45 30 10.868	19 21 43	199 21 42	67 28 15.759	157 40 20	337 40 18	T.S. B-30a	62.48	1.795770			
							T.P. 777	130.9	2.116815			
T.P. 779	45 30 07.381	143 03 43	323 03 42	67 28 15.026	171 35 26	351 35 26	T.S. B-30a	60.96	1.785046			
							T.P. 778	108.8	2.036809			
T.P. 780	45 30 02.830	127 10 13	307 10 12	67 28 18.428	207 43 49	27 43 51	T.S. B-31a	39.04	1.591531			
							T.P. 779	158.7	2.200663			
T.P. 781	45 29 58.029	68 44 15	248 44 14	67 28 15.666	157 58 23	337 58 21	T.S. B-32	41.15	1.614350			
							T.P. 780	159.9	2.203820			
T.P. 782	45 29 53.977	119 26 50	299 26 43	67 28 05.460	354 02 59	174 02 59	T.P. 781	254.5	2.405622			
							T.S. B-33d	27.43	1.438258			
T.P. 783	45 29 53.695	67 30 07	247 30 04	67 27 54.431	92 05 00	272 04 52	T.S. B-33e	108.20	2.034244			
							T.P. 782	239.6	2.379520			
T.P. 784	45 29 49.167	128 05 39	308 05 37	67 27 51.421	154 56 37	334 56 35	T.S. B-33f	76.20	1.881956			
							T.P. 783	154.3	2.188402			
T.P. 785	45 29 42.394	116 29 27	296 29 24	67 28 05.131	144 43 07	324 43 05	Ref.Mon. 147	110.34	2.042725			
					234 54 48	54 54 58	Ref.Mon. 148	115.5	2.062401			
							T.P. 784	363.8	2.560840			
T.P. 786	45 29 49.825	165 14 51	345 14 51	67 28 18.994	307 18 43	127 18 53	T.S. B-35	38.10	1.580926			
							T.P. 785	378.5	2.578022			
T.P. 787	45 29 45.591	113 29 03	293 29 01	67 28 25.865	228 46 31	48 46 36	T.S. B-37a	60.96	1.785046			
							T.P. 786	198.4	2.297433			
T.P. 788	45 29 45.824	216 46 31	36 46 31	67 28 29.028	275 59 09	95 59 11	T.S. B-37a	21.34	1.329114			
							T.P. 787	69.1	1.839233			
T.P. 789	45 29 48.548	252 47 40	72 47 41	67 28 36.754	296 37 28	116 37 34	T.S. B-38a	39.62	1.597959			
							T.P. 788	187.7	2.273350			
T.P. 790	45 29 49.137	160 17 22	340 17 22	67 28 41.319	280 23 43	100 23 46	T.S. B-40a	35.05	1.544714			
							T.P. 789	100.8	2.003337			
T.P. 791	45 29 46.133	176 45 16	356 45 16	67 28 48.453	239 05 22	59 05 27	T.S. B-41a	57.91	1.762770			
							T.P. 790	180.5	2.256569			



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International boundary line		St. Croix River			Vanceboro to Woodland			State		Maine		Province		New Brunswick	
STATION		LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)		LOGARITHM	
T.P. 792		45 29 40.861	61 10 01		61 10 01			241 09 58			Wing	96.01		1.982327	
		67 28 51.156	199 49 44		199 49 44			19 49 46			T.P. 791	173.0		2.238091	
T.P. 793		45 29 37.463	201 01 27		201 01 27			21 01 28			Wing	62.79		1.797883	
		67 28 56.067	225 27 58		225 27 58			45 28 02			T.P. 792	149.6		2.174909	
T.P. 794		45 29 38.496	184 51 39		184 51 39			4 51 39			Tree	62.48		1.795770	
		67 29 00.962	286 42 04		286 42 04			106 42 07			T.P. 793	111.0		2.045202	
T.P. 795		45 29 43.224	321 40 37		321 40 37			141 40 39			Tree	106.68		2.028084	
		67 29 03.765	337 21 55		337 21 55			157 21 57			T.P. 794	158.1		2.199022	
T.P. 796		45 29 43.926	171 45 22		171 45 22			351 45 22			T.S. B-44=Boot Point B.M.	64.62		1.810352	
		67 29 09.743	279 28 43		279 28 43			99 28 47			T.P. 795	131.6		2.119246	
T.P. 797		45 29 40.773	36 56 04		36 56 04			216 56 04			Ref.Mon. 149	30.6		1.485670	
		67 29 12.546	154 35 59		154 35 59			334 35 59			Ref.Mon. 150	33.53		1.525409	
			212 00 55		212 00 55			32 00 57			T.P. 796	114.8		2.059947	
T.P. 798		45 29 34.769	174 01 07		174 01 07			354 01 07			T.S. B-47	77.72		1.890556	
		67 29 23.159	231 11 16		231 11 16			51 11 24			T.P. 797	295.7		2.470912	
T.P. 799 ecc.		45 29 28.099	143 43 40		143 43 40			323 43 37			T.S. B-48b	175.26		2.243684	
		67 29 19.187													
T.P. 799		45 29 28.011	145 13 20		145 13 20			325 13 17			T.S. B-48b	175.3		2.243832	
		67 29 19.357	158 24 42		158 24 42			338 24 39			T.P. 798	224.4		2.350976	
			233 43 40		233 43 40			53 43 40			T.P. 799 ecc.	4.57		0.660107	
T.P. 800		45 29 20.721	104 20 28		104 20 28			284 20 24			T.S. B-51	126.80		2.103109	
		67 29 24.294	205 28 13		205 28 13			25 28 17			T.P. 799	249.3		2.396704	
T.P. 801		45 29 20.944	186 48 24		186 48 24			6 48 24			T.S. B-51	24.69		1.392501	
		67 29 30.086	273 08 08		273 08 08			93 08 12			T.P. 800	126.0		2.100236	
T.P. 802		45 29 19.041	163 56 57		163 56 57			343 56 56			T.S. B-52	64.01		1.806235	
		67 29 44.328	259 14 34		259 14 34			79 14 44			T.P. 801	314.8		2.498038	
T.P. 803		45 29 24.818	137 55 26		137 55 26			317 55 23			T.S. B-55	121.01		2.082806	
		67 29 51.830	317 35 24		317 35 24			137 35 29			T.P. 802	241.6		2.383012	
T.P. 804		45 29 27.005	30 04 29		30 04 29			210 04 29			Ref.Mon. 151	33.4		1.523770	
		67 30 02.204	108 13 38		108 13 38			288 13 37			Ref.Mon. 152	39.62		1.597959	
			286 41 01		286 41 01			106 41 08			T.P. 803	235.2		2.371383	
T.P. 805		45 29 25.204	208 58 36		208 58 36			28 58 37			Ref.Mon. 152	77.72		1.890556	
		67 30 05.671	233 33 16		233 33 16			53 33 18			T.P. 804	93.6		1.971252	
T.P. 806		45 29 23.419	222 41 43		222 41 43			42 41 44			T.S. B-58	61.57		1.789367	
		67 30 12.696	250 08 14		250 08 14			70 08 19			T.P. 805	162.2		2.210042	
T.P. 807		45 29 22.213	223 48 41		223 48 41			43 48 44			T.S. B-58	114.30		2.058047	
		67 30 14.417	225 06 53		225 06 53			45 06 55			T.P. 806	52.8		1.722271	

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STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 808	45 29 11.901	24 35 21		204 35 20						T.S. B-62	77.11	1.887136
	67 30 15.344	183 37 05		3 37 06						T.P. 807	319.0	2.503779
T.P. 809	45 29 08.690	106 30 53		286 30 50						T.S. B-62	102.11	2.009061
	67 30 12.314	146 25 35		326 25 33						T.P. 808	119.0	2.075541
T.P. 810	45 29 01.536	175 35 11		355 35 10						T.P. 809	221.5	2.345409
	67 30 11.529	358 59 04		178 59 04						T.S. B-65	71.63	1.855084
T.P. 811	45 28 57.493	54 27 07		234 27 06						T.S. B-66	36.58	1.563197
	67 30 07.331	143 51 17		323 51 14						T.P. 810	154.6	2.189120
T.P. 812	45 28 43.945	148 58 22		328 58 20						T.S. B-68	134.11	2.127469
	67 30 05.386	174 13 59		354 13 58						T.P. 811	420.4	2.623648
T.P. 813	45 28 36.981	139 49 46		319 49 43						T.S. B-70	118.87	2.075081
	67 29 59.379	148 44 56		328 44 52						T.P. 812	251.5	2.400514
T.P. 814	45 28 33.011	124 44 04		304 43 58						T.P. 813	215.1	2.332666
	67 29 51.240	351 30 52		171 30 53						T.S. B-74	109.73	2.040318
T.P. 815	45 28 21.974	52 36 30		232 36 28						T.S. B-76	65.53	1.816454
	67 29 43.779	154 33 51		334 33 46						T.P. 814	377.3	2.576703
T.P. 816	45 28 15.619	2 58 25		182 58 25						T.S. B-78	48.77	1.688136
	67 29 35.675	138 06 02		318 05 56						T.P. 815	263.6	2.420931
T.P. 817	45 28 13.302	33 43 59		213 43 58						T.S. B-79	80.77	1.907262
	67 29 29.197	116 56 46		296 56 41						T.P. 816	157.9	2.198259
T.P. 818	45 28 12.410	23 57 32		203 57 31						Ref. Mon. 154	91.44	1.961137
	67 29 27.782	131 51 27		311 51 26						T.P. 817	41.3	1.615625
T.P. 819	45 28 09.490	97 17 33		277 17 31						Ref. Mon. 154	51.82	1.714465
	67 29 27.125	171 00 27		351 00 26						T.P. 818	91.3	1.960281
		190 07 12		10 07 12						Ref. Mon. 153	37.8	1.578010
T.P. 820	45 28 03.587	109 48 05		289 48 02						Ref. Mon. 154-A	97.54	1.989166
	67 29 15.994	127 00 19		307 00 11						T.P. 819	302.8	2.481136
T.P. 821	45 27 57.261	105 58 14		285 58 12						T.S. F-2	60.35	1.780681
	67 29 12.778	160 18 59		340 18 57						T.P. 820	207.4	2.316847
T.P. 822	45 27 52.799	100 24 50		280 24 48						T.S. F-3	76.20	1.881956
	67 29 12.622	178 35 26		358 35 26						T.P. 821	137.8	2.139229
T.P. 823	45 27 49.706	46 55 54		226 55 52						T.S. F-4	64.62	1.810352
	67 29 08.662	137 58 58		317 58 55						T.P. 822	128.5	2.108995
T.P. 824	45 27 43.217	119 16 58		299 16 56						T.S. F-5a	82.30	1.915380
	67 29 03.129	149 02 06		329 02 02						T.P. 823	233.6	2.368524
T.P. 825	45 27 33.588	30 26 58		210 26 56						T.S. F-9	99.06	1.995899
	67 28 57.554	157 49 54		337 49 50						T.P. 824	321.0	2.506502



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STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 826	45 27 25.315	59 13 57	239 13 49	67 28 58.966	173 26 57	353 26 56	T.S. F-10	278.3	2.444539			
		186 50 54	6 50 55				T.S. F-9	171.1	2.233357			
							T.P. 825	257.3	2.410369			
T.P. 827	45 27 22.601	39 05 21	219 05 19	67 29 07.783	246 22 19	66 22 25	T.S. F-10	75.48	1.877832			
							T.P. 826	209.1	2.320301			
T.P. 828	45 27 18.786	8 04 06	188 04 05	67 29 08.761	156 00 20	336 00 19	Ref.Mon. 156	216.3	2.335075			
		190 13 40	10 13 41				T.S. F-10	64.78	1.811447			
		353 51 27	173 51 27				T.P. 827	119.7	2.077984			
							Ref.Mon. 155	210.6	2.323431			
T.P. 829	45 27 09.694	15 51 07	195 51 07	67 29 08.074	176 57 21	356 57 21	T.S. F-12	30.48	1.484016			
							T.P. 828	281.1	2.448840			
T.P. 830	45 27 04.177	81 19 09	261 19 08	67 29 05.222	160 00 21	340 00 19	T.S. F-13	31.39	1.496853			
							T.P. 829	181.2	2.258269			
T.P. 831	45 26 57.609	165 11 10	345 11 08	67 29 04.239	173 59 31	353 59 30	T.S. F-13	204.9	2.311449			
		337 28 24	157 28 25				T.P. 830	203.9	2.309428			
							T.S. F-14	91.0	1.959229			
T.P. 832	45 26 57.032	22 15 26	202 15 25	67 29 01.386	106 01 07	286 01 05	T.S. F-14	71.63	1.855084			
							T.P. 831	64.5	1.809645			
T.P. 833	45 26 52.891	122 34 58	302 34 55	67 28 58.202	151 34 51	331 34 49	T.S. F-14	114.30	2.058047			
							T.P. 832	145.4	2.162449			
T.P. 834	45 26 46.903	118 18 52	298 18 41	67 28 42.412	289 28 11	109 28 13	T.P. 833	389.8	2.590807			
							T.S. F-16a	53.34	1.727054			
T.P. 835	45 26 35.719	141 01 19	321 01 16	67 28 37.260	162 02 01	342 01 57	T.S. F-17	141.73	2.151469			
							T.P. 834	363.0	2.559876			
T.P. 836	45 26 29.601	142 28 57	322 28 56	67 28 41.280	204 46 23	24 46 26	T.S. F-19	35.36	1.548474			
							T.P. 835	208.0	2.318104			
T.P. 837	45 26 28.847	9 57 38	189 57 37	67 28 49.379	262 27 57	82 28 03	Ref. Mon. 158	224.03	2.350303			
							T.P. 836	177.6	2.249330			
T.P. 838	45 26 27.128	219 19 08	39 19 09	67 28 51.379	358 23 07	178 23 07	T.P. 837	68.6	1.836379			
							Ref.Mon. 158	167.64	2.224379			
T.P. 839	45 26 21.700	89 59 38	269 59 37	67 28 49.900	169 08 15	349 08 14	Ref.Mon. 158	27.43	1.438258			
		269 59 38	89 59 39				T.P. 838	170.6	2.232051			
							Ref.Mon. 157	24.0	1.379976			
T.P. 840	45 26 12.483	38 34 53	218 34 50	67 28 43.268	148 54 42	328 54 37	T.S. F-24	161.7	2.208615			
		153 08 07	333 08 03				Ref.Mon. 158	332.3	2.521516			
							T.P. 839	319.0	2.503781			
T.P. 841	45 26 08.367	91 01 21	271 01 20	67 28 44.153	206 16 25	26 16 27	T.S. F-24	38.10	1.580926			
							T.P. 840	141.7	2.151359			

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*International boundary line* St. Croix River Vanceboro to Woodland State Maine Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 842	45 26 03.392	67 28 44.587		98 11 22	167 30 14		278 11 21	347 30 13		T.S. F-25 T.P. 841	42.13 157.3	1.624623 2.196771
T.P. 843	45 25 57.863	67 28 40.713		11 05 00	153 44 30		191 05 00	333 44 27		T.S. F-26 T.P. 842	45.72 190.3	1.660107 2.279514
T.P. 844	45 25 52.746	67 28 39.591		41 39 58	163 38 58		221 39 55	343 38 57		T.S. F-27 (1921) T.S. F-26 T.P. 843	127.9 117.9 159.9	2.106819 2.071480 2.203748
T.P. 845	45 25 49.661	67 28 41.048		89 39 57	198 24 00		269 39 55	18 24 01		T.S. F-27 (1921) T.P. 844	53.34 100.4	1.727054 2.001534
T.P. 846	45 25 43.522	67 28 33.519		131 05 02	139 11 04		311 04 55	319 10 59		T.S. F-27 (1921) T.P. 845 Ref.Mon. 160	287.9 250.4 311.9	2.459271 2.398664 2.494049
T.P. 847	45 25 34.017	67 28 29.685		59 12 47	164 08 38		239 12 46	344 08 35		Ref. Mon. 160 T.P. 846 Ref.Mon. 159	23.47 305.1 44.3	1.370507 2.484373 1.646843
T.P. 848	45 25 30.085	67 28 28.775		159 56 17	170 44 43		339 56 16	350 44 43		Ref.Mon. 160 T.P. 847	116.43 123.0	2.066079 2.089844
T.P. 849	45 25 23.354	67 28 23.609		151 36 37	279 38 21		331 36 33	99 38 24		T.P. 848 Grass	236.2 94.49	2.373295 1.975378
T.P. 850	45 25 21.390	67 28 14.794		107 33 12	114 27 27		287 33 06	294 27 24		T.P. 849 Grass	201.0 108.20	2.303214 2.034244
T.P. 851	45 25 21.755	67 28 07.467		85 57 16	290 20 53		265 57 11	110 20 58		T.P. 850 T.S. G-1	159.7 172.21	2.203288 2.236064
T.P. 852	45 25 20.606	67 28 02.485		100 40 35	108 07 26		280 40 24	288 07 23		Grass T.P. 851 T.S. G-1	372.5 114.0 58.5	2.571153 2.056902 1.766909
T.P. 853	45 25 21.083	67 27 58.634		37 58 59	80 00 53		217 58 58	260 00 50		T.S. G-1 T.P. 852	49.68 85.0	1.696204 1.929340
T.P. 854	45 25 20.419	67 27 52.166		98 17 40	224 11 30		278 17 35	44 11 31		T.P. 853 T.S. G-2a T.S. G-2b	142.1 43.1 202.4	2.152616 1.634684 2.306157
T.P. 855	45 25 21.109	67 27 46.581		80 03 20	275 04 34		260 03 16	95 04 37		T.P. 854 T.S. G-2b	123.3 80.77	2.090882 1.907262
T.P. 856	45 25 19.783	67 27 42.447		114 28 28	164 24 37		294 28 25	344 24 37		T.P. 855 T.S. G-2b	98.7 35.05	1.994530 1.544714
T.P. 857	45 25 16.030	67 27 39.385		150 07 22	153 04 39		330 07 20	333 04 37		T.P. 856 T.S. G-2b T.S. G-6a	133.6 167.8 142.1	2.125901 2.224844 2.152638



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STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 858	45 25 13.350	67 27 38.851		172 00 17	320 31 39		352 00 16	140 31 40		T.P. 857 T.S. G-6a	83.5 64.01	1.921890 1.806235
T.P. 859	45 25 09.264	67 27 42.040		208 47 43	244 30 17		28 47 45	64 30 18		T.P. 858 T.S. G-6	143.9 47.24	2.158189 1.674348
T.P. 860	45 25 02.490	67 27 35.746		23 30 35	146 48 03		203 30 34	326 47 58		T.S. G-8a T.P. 859	68.58 249.9	1.836198 2.397806
T.P. 861	45 24 56.573	67 27 34.886		75 55 07	174 09 19		255 55 06	354 09 18		T.S. G-9 T.P. 860	22.86 183.6	1.359077 2.263930
T.P. 862	45 24 52.430	67 27 30.335		82 53 24	120 01 33		262 53 23	300 01 31		T.S. G-11 Ref.Mon. 162	36.58 56.1	1.563197 1.748951
				142 16 19	158 36 23		322 16 16	338 36 22		T.P. 861 Ref.Mon. 161	161.7 73.6	2.208747 1.866694
T.P. 863	45 24 51.634	67 27 25.082		77 25 35	97 35 28		257 25 33	277 35 23		T.S. G-11a T.S. G-11	60.1 151.8	1.778942 2.181397
				102 08 51			282 08 47			T.P. 862	116.8	2.067570
T.P. 864	45 24 48.114	67 27 24.530		143 31 05	173 41 35		323 31 03	353 41 35		T.S. G-11a T.P. 863	118.87 109.3	2.075081 2.038723
T.P. 865	45 24 34.596	67 27 11.794		146 25 56	276 40 16		326 25 47	96 40 24		T.P. 864 Coot Rock	500.9 244.3 256.9	2.699717 2.387850 2.409713
				315 17 16			135 17 22					
T.P. 866	45 24 32.571	67 27 04.325		111 02 59	246 56 21		291 02 54	66 56 24		T.P. 865 Coot Rock	174.0 87.1 121.4	2.240663 1.940198 2.084290
				351 20 21			171 20 22					
T.P. 867	45 24 24.072	67 26 50.783		117 15 59	131 42 09		297 15 50	311 41 59		Rock T.P. 866 Irish	310.7 394.4 181.4	2.492357 2.595941 2.258556
				142 20 59			322 20 55					
T.P. 868	45 24 18.136	67 26 44.645		128 28 33	143 13 33		308 28 20	323 13 25		Rock Irish T.P. 867	523.3 408.0 226.7	2.718753 2.610701 2.355471
				143 55 33			323 55 29					
T.P. 869	45 24 10.263	67 26 34.551		137 54 46	263 50 25		317 54 39	83 50 33		T.P. 868 Ref.Mon. 163 Ref.Mon. 164	327.5 236.3 95.5	2.515233 2.373387 1.979801
				344 01 25			164 01 26					
T.P. 870	45 24 03.908	67 26 26.266		124 09 31	137 26 12		304 09 26	317 26 06		Ref.Mon. 164 T.P. 869 Ref.Mon. 163	186.0 266.4 228.2	2.269560 2.425547 2.358338
				193 52 01			13 52 03					
T.P. 871	45 23 56.299	67 26 20.439		140 24 30	151 39 16		320 24 21	331 39 12		Ref.Mon. 164 T.P. 870 163a	440.4 266.9 119.9	2.643803 2.426332 2.078940
				163 24 30			343 24 29					
T.P. 872	45 23 40.972	67 25 58.633		134 56 03	340 34 51		314 55 48	160 34 54		T.P. 871 T.S. H-19a	669.9 230.12	2.826052 2.361963

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STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 873	45 23 30.730	126 20 44	306 20 39	T.S. H-19a	167.3	2.223575						
	67 25 48.920	146 15 01	326 14 53	T.P. 872	380.3	2.580122						
		198 08 29	18 08 29	T.S. H-19b	39.6	1.597460						
T.P. 874	45 23 27.415	122 19 46	302 19 41	T.P. 873	191.4	2.281846						
	67 25 41.487	133 08 04	313 07 59	T.S. H-19b	204.7	2.311089						
		286 54 08	106 54 09	T.S. H-19c	43.6	1.639613						
T.P. 875	45 23 22.883	154 47 12	334 47 10	T.P. 874	154.7	2.189445						
	67 25 38.458	169 14 55	349 14 54	T.S. H-19c	129.54	2.112405						
T.P. 876 ecc.	45 23 05.129	175 32 26	355 32 25	T.P. 875	549.8	2.740175						
	67 25 36.493	326 43 15	146 43 21	Ash	317.5	2.501685						
		333 17 30	153 17 37	Ref.Mon. 166	444.1	2.647452						
T.P. 876	45 23 07.590	175 32 26	355 32 25	T.P. 875	473.6	2.675377						
	67 25 36.765	355 32 26	175 32 26	T.P. 876 ecc.	76.20	1.881956						
T.P. 877	45 23 00.892	153 21 53	333 21 50	T.P. 876	231.3	2.364230						
	67 25 31.998	330 25 34	150 25 36	Ash	154.8	2.189687						
		339 03 19	159 03 22	Ref.Mon. 166	284.7	2.454409						
T.P. 878	45 22 55.109	158 09 23	338 09 21	T.P. 877	192.4	2.284093						
	67 25 28.708	186 15 21	6 15 21	Ash	44.20	1.645384						
T.P. 879	45 22 52.142	93 11 32	273 11 29	Ref.Mon. 166	76.1	1.881126						
	67 25 23.830	130 47 49	310 47 45	T.P. 878	140.2	2.146718						
		206 55 40	26 55 40	Ref.Mon. 165	17.9	1.253466						
T.P. 880	45 22 47.644	21 59 44	201 59 43	T.S. H-1a	48.77	1.688136						
	67 25 25.044	190 46 10	10 46 11	T.P. 879	141.4	2.150299						
T.P. 881	45 22 45.190	128 44 44	308 44 43	T.S. H-1a	48.77	1.688136						
	67 25 24.136	165 22 14	345 22 14	T.P. 880	78.3	1.893642						
T.P. 882	45 22 37.332	22 28 31	202 28 30	T.S. J-2c	109.73	2.040318						
	67 25 11.228	130 49 14	310 49 05	T.P. 881	371.1	2.569511						
T.P. 883	45 22 31.445	63 25 10	243 25 09	T.S. J-2b	46.02	1.662993						
	67 25 12.721	190 08 03	10 08 04	T.P. 882	184.6	2.266285						
T.P. 884	45 22 24.611	17 57 33	197 57 33	T.S. J-2e	33.53	1.525409						
	67 25 18.062	208 50 51	28 50 55	T.P. 883	240.9	2.381781						
T.P. 885	45 22 22.547	243 23 49	63 23 53	T.P. 884	142.3	2.153187						
	67 25 23.909	356 42 52	176 42 52	T.S. J-2g	22.56	1.353248						
T.P. 886	45 22 22.449	269 09 11	89 09 18	T.P. 885	204.9	2.311573						
	67 25 33.325	312 01 03	132 01 05	T.S. J-2h	74.37	1.871406						
T.P. 887	45 22 25.003	85 43 53	265 43 52	T.S. J-2k	42.67	1.630144						
	67 25 38.289	306 07 37	126 07 41	T.P. 886	133.7	2.126235						
T.P. 888	45 22 22.218	202 55 51	22 55 52	T.S. J-2k	89.92	1.953838						
	67 25 41.855	222 03 36	42 03 38	T.P. 887	115.8	2.063771						



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STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 889	45 22 17.578	67 25 50.585		185 26 15	232 58 52	248 41 30	5 26 15	52 58 58	68 41 31	Ref.Mon. 168 T.P. 888 Ref.Mon. 167 (1917)	30.8 237.9 43.7	1.488232 2.376434 1.640403
T.P. 890	45 22 04.782	67 25 58.390		203 15 53	309 57 59		23 15 59	129 58 00		T.P. 889 T.S. J-13	430.0 46.94	2.633468 1.671537
T.P. 891	45 22 01.068	67 25 57.711		32 04 13	172 38 56	194 04 14	212 04 09	352 38 56	14 04 15	T.S. J-14 T.P. 890 T.S. J-13	226.7 115.6 87.1	2.355469 2.063018 1.940162
T.P. 892	45 21 53.622	67 26 06.283		219 03 34	240 17 22		39 03 40	60 17 24		T.P. 891 T.S. J-14	296.1 76.20	2.471369 1.881956
T.P. 893	45 21 48.206	67 26 03.147		157 47 44	248 47 09		337 47 42	68 47 10		T.P. 892 T.S. J-15	180.6 34.44	2.256704 1.537094
T.P. 894	45 21 38.700	67 26 02.774		178 24 56	237 06 50		358 24 56	57 06 52		T.P. 893 T.S. J-16	293.6 65.53	2.467724 1.816454
T.P. 895	45 21 37.212	67 26 00.884		138 09 24	265 51 59		318 09 23	85 52 04		T.P. 894 T.S. J-17a	61.7 163.07	1.790025 2.212370
T.P. 896	45 21 37.623	67 25 56.142		83 00 09	270 53 02		263 00 06	90 53 04		T.P. 895 T.S. J-17a	104.0 59.44	2.016991 1.774051
T.P. 897	45 21 36.162	67 25 53.488		127 58 24	182 10 04		307 58 22	2 10 04		T.P. 896 T.S. J-17a	73.3 44.20	1.864918 1.645384
T.P. 898	45 21 34.054	67 25 50.692		136 55 14	249 22 00		316 55 12	69 22 01		T.P. 897 T.S. J-18	89.1 30.48	1.949867 1.484016
T.P. 899	45 21 26.446	67 25 33.251		94 39 12	121 44 50	302 29 26	274 39 09	301 44 38	122 29 27	Ref.Mon. 170 T.P. 898 Ref.Mon. 169	99.8 446.4 34.75	1.999027 2.649722 1.540921
T.P. 900	45 21 23.466	67 25 33.622		185 01 22	207 01 26		5 01 22	27 01 27		T.P. 899 Ref.Mon. 169	92.3 82.30	1.965344 1.915380
T.P. 901	45 21 18.796	67 25 40.008		62 56 31	223 57 13		242 56 26	43 57 17		T.S. J-21 T.P. 900	160.02 200.3	2.204175 2.301607
T.P. 902	45 21 16.865	67 25 44.838		70 34 12	240 26 46		250 34 11	60 26 50		T.S. J-21 T.P. 901	39.62 120.9	1.597959 2.082288
T.P. 903	45 21 13.851	67 25 45.502		165 06 57	188 49 46		345 06 56	8 49 46		T.S. J-21a T.P. 902	60.96 94.2	1.785046 1.973880
T.P. 904	45 21 12.267	67 25 44.730		16 13 37	161 02 06		196 13 35	341 02 06		T.S. J-24a T.P. 903	173.74 51.7	2.239891 1.713554
T.P. 905	45 21 09.060	67 25 43.532		19 44 37	47 44 07		199 44 34	227 44 05		T.S. J-25a T.S. J-24a	279.3 100.8	2.446125 2.003625

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International boundary line			St. Croix River			Vanceboro to Woodland			State			Maine			Province			New Brunswick		
STATION		LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION			DISTANCE (METERS)			LOGARITHM			
T.P. 906		45	21	05.907	7	01	49	187	01	49	Ref.Mon. 169-A			79.8	1.901894					
		67	25	45.122	19	50	36	199	50	34	T.S. J-25a			176.0	2.245573					
					99	29	55	279	29	52	Ref.Mon. 170-A			88.8	1.948386					
					126	25	06	306	25	05	T.S. J-24a			49.7	1.696584					
					199	34	23	19	34	24	T.P. 905			103.3	2.014145					
T.P. 907		45	21	03.568	167	59	55	347	59	55	T.S. J-25			64.4	1.808607					
		67	25	52.357	229	06	31	49	06	35	T.S. J-24a			155.4	2.191539					
					245	21	57	65	22	02	T.P. 906			173.3	2.238762					
T.P. 908		45	20	58.899	193	18	53	13	18	55	T.S. J-25			212.8	2.327925					
		67	25	55.223	203	24	30	23	24	32	T.P. 907			157.0	2.195983					
					216	11	29	36	11	35	T.S. J-24a			304.6	2.483782					
T.P. 909		45	20	52.199	88	00	03	268	00	02	T.S. J-27			41.15	1.614350					
		67	25	51.617	159	13	03	339	13	00	T.P. 908			221.2	2.344854					
T.P. 910		45	20	44.383	115	09	15	295	09	13	T.S. J-29			51.82	1.714465					
		67	25	46.136	153	41	16	333	41	12	T.P. 909			269.2	2.430048					
T.P. 911		45	20	39.378	64	13	02	244	13	01	T.S. J-31			49.38	1.693531					
		67	25	45.838	177	35	44	357	35	44	T.P. 910			154.6	2.189346					
T.P. 912		45	20	27.614	48	11	10	228	11	07	Ref.Mon. 171			112.78	2.052218					
		67	25	54.392	86	38	23	266	38	21	Ref.Mon. 172			74.6	1.872761					
					207	08	52	27	08	58	T.P. 911			408.1	2.610809					
T.P. 913		45	20	23.961	231	53	52	51	53	55	T.S. J-36			126.7	2.102838					
		67	26	06.613	247	01	48	67	01	57	T.P. 912			289.0	2.460888					
					290	37	07	110	37	11	McNicholl (1910)			124.8	2.096388					
T.P. 914		45	20	19.514	225	49	02	45	49	07	T.P. 913			197.0	2.294440					
		67	26	13.101	228	11	47	48	11	55	T.S. J-36			323.3	2.509568					
					250	07	17	70	07	26	McNicholl (1910)			274.5	2.438498					
T.P. 915		45	20	09.487	51	00	52	231	00	50	Granite 2			73.15	1.864227					
		67	26	28.159	226	38	41	46	38	52	T.P. 914			450.9	2.654088					
T.P. 916		45	20	06.309	192	26	50	12	26	50	Granite 2			53.34	1.727054					
		67	26	31.298	214	52	02	34	52	04	T.P. 915			119.6	2.077640					
T.P. 917		45	20	01.879	196	17	48	16	17	50	Granite 2			196.7	2.293884					
		67	26	33.305	197	43	34	17	43	36	T.P. 916			143.6	2.157036					
					359	54	48	179	54	48	Root			246.4	2.391715					
T.P. 918		45	19	56.573	9	38	48	189	38	48	Root			83.82	1.923349					
		67	26	32.643	174	58	11	354	58	11	T.P. 917			164.4	2.216008					
T.P. 919		45	19	50.880	42	33	09	222	33	07	Chub Rock			73.15	1.864227					
		67	26	38.949	218	00	03	38	00	07	T.P. 918			223.0	2.348375					
T.P. 920		45	19	47.486	244	53	12	64	53	20	T.P. 919			246.9	2.392480					
		67	26	49.215	253	42	16	73	42	22	Chub Rock			181.36	2.258533					



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Vanceboro to Woodland

State Maine

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STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 921	45 19 44.724	67 27 04.819		36 03 30	255 54 44		216 03 26	247 37 27	75 54 55	Ref.Mon. 173 Ref.Mon. 174 T.P. 920	202.2 100.5 350.3	2.305678 2.002367 2.544487
T.P. 922	45 19 41.541	67 27 09.296		18 15 27	184 17 57	224 46 36	198 15 26	4 17 57	44 46 39	Ref.Mon. 173 Ref.Mon. 174 T.P. 921	68.6 60.1 138.4	1.836531 1.779171 2.141150
T.P. 923	45 19 37.462	67 27 21.621		244 51 45	256 10 23		64 51 54	76 10 31		T.P. 922 Ref.Mon. 173	296.5 254.3	2.472026 2.405328
T.P. 924	45 19 30.671	67 27 26.852		208 31 07	224 21 30	336 18 00	28 31 11	44 21 42	156 18 06	T.P. 923 Ref.Mon. 174 North Cherry	238.6 553.3 481.7	2.377671 2.742944 2.682774
T.P. 925	45 19 24.408	67 27 24.569		165 34 46	329 51 01		345 34 45	149 51 06		T.P. 924 North Cherry	199.6 286.51	2.300182 2.457144
T.P. 926	45 19 20.308	67 27 21.600		152 56 11	326 49 18		332 56 09	146 49 21		T.P. 925 North Cherry	142.1 144.78	2.152718 2.160710
T.P. 927	45 19 13.258	67 27 12.664		138 11 48	356 36 55		318 11 42	176 36 55		T.P. 926 Cherry	292.0 100.58	2.465340 2.002530
T.P. 928	45 19 09.127	67 27 09.576		113 51 57	152 11 40		293 51 55	332 11 38		Cherry T.P. 927	67.06 144.2	1.826439 2.158930
T.P. 929	45 19 03.408	67 27 08.598		173 07 14	254 56 53		353 07 13	74 56 55		T.P. 928 T.S. K-23 (1921)	177.8 64.01	2.250015 1.806235
T.P. 930	45 18 49.042	67 27 14.458		196 03 20	276 11 43		16 03 24	96 11 45		T.P. 929 T.S. K-20	461.5 50.60	2.664173 1.704124
T.P. 931	45 18 34.282	67 27 30.289		217 07 04	277 32 25		37 07 15	97 32 27		T.P. 930 T.S. K-16	571.4 62.48	2.756976 1.795770
T.P. 932	45 18 20.208	67 27 35.191		193 48 30	269 54 00		13 48 33	89 54 02		T.P. 931 T.S. K-13	447.4 68.58	2.650711 1.836198
T.P. 933	45 18 15.465	67 27 33.443		17 31 35	165 25 17		197 31 34	345 25 16		Ref.Mon. 175 T.P. 932	135.64 151.3	2.132376 2.179822
T.P. 934	45 18 11.169	67 27 37.060		176 46 51	210 43 03	265 03 03	356 46 51	30 43 05	85 03 04	Ref.Mon. 176 T.P. 933 Ref.Mon. 175	38.7 154.3 38.10	1.587445 2.188288 1.580926
T.P. 935	45 17 59.819	67 27 39.085		187 10 35	335 26 15		7 10 36	155 26 16		T.P. 934 T.S. K-7a	353.2 47.24	2.547967 1.674348
T.P. 936	45 17 57.329	67 27 48.065		248 33 01	312 46 52		68 33 07	132 46 54		T.P. 935 T.S. K-6	210.2 83.82	2.322665 1.923349
T.P. 937	45 17 59.036	67 27 58.978		282 29 43	345 38 42		102 29 51	165 38 43		T.P. 936 T.S. K-4a	243.5 68.58	2.386577 1.836198

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International boundary line St. Croix River

Vanceboro to Woodland

State Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 938	45 17 56.133	67 28 07.023		242 55 11	312 00 29		62 55 17	132 00 31		T.P. 937 T.S. K-4b	196.9 84.12	2.294174 1.924925
T.P. 939	45 17 50.300	67 28 09.309		195 27 41	257 02 04		15 27 43	77 02 06		T.P. 938 T.S. K-4c	186.8 47.24	2.271456 1.674348
T.P. 940	45 17 48.539	67 27 59.430		104 10 31	306 56 57		284 10 24	126 56 59		T.P. 939 T.S. K-3 (1921)	222.0 69.19	2.346379 1.840042
T.P. 941	45 17 37.644	67 28 00.032		59 27 09	182 14 00		239 27 06	2 14 00		Ref.Mon. 177 T.P. 940	121.92 336.6	2.086076 2.527112
T.P. 942	45 17 36.026	67 28 04.690		16 13 36	196 13 36		196 13 36	16 13 36		Ref.Mon. 177 Ref.Mon. 178 T.P. 941	12.50 24.85 113.1	1.096800 1.395325 2.053610
T.P. 943	45 17 35.668	67 28 16.917		82 42 55	262 42 55		262 42 51	82 43 03		Pine Ref.Mon. 178 T.P. 942	118.00 275.6 266.7	2.071882 2.440281 2.425964
T.P. 944	45 17 31.693	67 28 21.552		116 11 25	219 27 21		296 11 23	39 27 24		Bank T.P. 943	83.00 158.9	1.919078 2.201213
T.P. 945	45 17 29.790	67 28 30.947		197 56 05	253 59 16		17 56 06	73 59 23		High T.P. 944	62.00 213.0	1.792392 2.328358
T.P. 946	45 17 18.832	67 28 35.972		76 04 07	197 56 02		256 03 58	17 56 05		Poplar T.P. 945 High	267.4 355.6 417.6	2.427190 2.550988 2.620783
T.P. 947	45 17 17.682	67 28 42.537		76 04 02	256 04 02		256 03 58	76 04 07		Poplar T.P. 946	120.00 147.4	2.079181 2.168549
T.P. 948	45 17 27.703	67 28 54.346		26 16 49	320 14 37		206 16 47	140 14 45		Dead T.P. 947	146.00 402.4	2.164353 2.604662
T.P. 949	45 17 27.900	67 29 08.266		271 08 50	358 35 34		91 09 00	178 35 34		T.P. 948 Boom	303.4 120.00	2.482011 2.079181
T.P. 950	45 17 23.356	67 29 12.999		216 19 15	259 09 29		36 19 18	79 09 32		T.P. 949 Boom	174.1 108.00	2.240811 2.033424
T.P. 951	45 17 13.006	67 29 11.118		10 50 32	92 41 54		190 50 31	272 41 51		Ref.Mon. 179 Ref.Mon. 180 T.P. 950 Boom	181.6 106.2 322.1 346.00	2.259052 2.026326 2.508028 2.539076
T.P. 952	45 16 55.432	67 29 24.768		164 20 17	208 44 09		344 20 07	28 44 19		Ross T.P. 951	1206.9 618.7	3.081676 2.791508
T.P. 953	45 16 49.818	67 29 22.539		21 46 41	164 20 19		201 46 39	344 20 07		West Ross T.P. 952	145.00 1386.9 180.0	2.161368 3.142049 2.255272



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*International boundary line* St. Croix River Vanceboro to Woodland Maine Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 954	45 16 45.783	67 29 02.595		41 49 20	105 59 32	221 49 13	285 59 18	41 49 21		Penn T.P. 953 Birch	318.0 452.2 63.00	2.502462 2.655319 1.799340
T.P. 955	45 16 31.065	67 28 57.286		123 33 03	165 42 52	303 32 53	345 42 49	50 53 31		Penn T.P. 954 Ref.Mon. 181 Ref.Mon. 182	393.3 468.9 363.3 208.00	2.594707 2.671036 2.560299 2.318063
T.P. 956	d.m. 45 16 30.514	67 28 46.659		8 13 28	94 12 03	188 13 28	274 11 56	11 32 34		Jest Dam T.P. 955 Ref.Mon. 181 Drop	24.0 232.3 251.3 154.5	1.379362 2.365984 2.400171 2.189055
T.P. 957	45 16 30.559	67 28 45.668		86 19 14	238 09 52	266 19 13	58 09 58	84 13 22		T.P. 956 Base 2 Drop	21.6 205.4 132.9	1.335376 2.312700 2.123573
T.P. 958	45 16 32.942	67 28 40.371		57 29 47	344 25 41	237 29 43	164 25 42			T.P. 957 Drop	136.9 62.48	2.136442 1.795770
T.P. 959	45 16 31.176	67 28 37.098		84 02 44	127 22 38	264 02 42	307 22 35			Drop T.P. 958	54.86 89.8	1.739288 1.953160
T.P. 960	45 16 25.688	67 28 39.750		24 11 27	198 50 23	204 11 26	18 50 25			Gravel T.P. 959	60.96 179.0	1.785046 2.252882
T.P. 961	45 16 16.435	67 28 34.768		149 51 30	159 11 05	329 51 26	339 11 02	67 04 32		Gravel T.P. 960 Lower Pitch	266.0 305.6 61.2	2.424917 2.485161 1.786492
T.P. 962	45 16 13.502	67 28 35.552		28 12 53	110 03 55	208 12 52	290 03 55	10 41 20		T.S. L-27 Gorge T.P. 961	100.1 11.1 92.1	2.000557 1.045287 1.964467
T.P. 963	45 16 11.375	67 28 36.138		180 58 25	191 00 33	0 58 25	11 00 33	42 34 03		Ref.Mon. 184 T.P. 962 Ref.Mon. 183	55.8 66.9 30.57	1.746302 1.825387 1.485352
T.P. 964	45 16 08.348	67 28 37.132		193 03 19	200 03 47	13 03 19	20 03 48			T.P. 963 Ref.Mon. 183	95.9 123.44	1.981887 2.091471
T.P. 965	45 15 56.880	67 28 32.892		53 21 54	165 22 04	233 21 51	345 22 01			T.S. L-25 T.P. 964	112.78 365.9	2.052218 2.563360
T.P. 966	45 15 47.546	67 28 31.204		20 17 10	172 43 19	200 17 09	352 43 18			T.S. L-23 T.F. 965	70.71 290.5	1.849504 2.463134
T.P. 967	45 15 41.638	67 28 20.505		35 28 09	128 01 22	215 28 08	308 01 14			T.S. L-21a T.F. 966	51.82 296.1	1.714465 2.471442
T.P. 968	45 15 38.296	67 28 19.349		137 48 10	166 16 07	317 48 08	346 16 06			T.S. L-21a T.F. 967	82.30 106.2	1.915380 2.026140

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*International boundary line*    St. Croix River    Vanceboro to Woodland    *State*    Maine    *Province*    New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (FEET)	LOGARITHM
T.P. 969	45 67	15 28	30.839 25.186	27 208	51 56	50 06	207 28	51 56	49 10	T.S. L-19 T.P. 968	68.58 263.0	1.836198 2.420026
T.P. 970	45 67	15 28	18.364 18.134	58 158	58 14	05 08	238 338	58 14	03 03	T.S. L-16 T.P. 969	54.86 414.7	1.739288 2.617712
T.P. 971	45 67	15 28	11.550 10.207	21 140	11 35	12 25	201 320	11 35	11 19	T.S. L-13 T.P. 970	97.23 272.3	1.987807 2.434989
T.P. 972	45 67	15 28	02.997 08.648	87 173	07 21	24 19	267 353	07 21	22 18	T.S. L-12 T.P. 971	67.06 293.8	1.826439 2.468048
T.P. 973	45 67	14 28	58.229 02.484	22 131	47 36	44 59	202 311	47 36	43 55	T.S. L-10 T.P. 972	73.15 179.8	1.864227 2.254782
T.P. 974	45 67	14 27	42.162 53.096	109 157	36 34	43 18	289 337	36 34	41 11	T.S. L-6 T.P. 973	56.39 536.6	1.751188 2.729649
T.P. 975	45 67	14 27	33.474 44.871	112 146	34 13	59 31	292 326	34 13	57 25	T.S. L-4a T.P. 974	74.68 322.7	1.873182 2.508753
T.P. 976	45 67	14 27	30.952 38.274	118 259 292	25 48 48	10 30 41	298 79 112	25 48 48	05 34 46	T.P. 975 Ref. Mon. 185 Ref. Mon. 186	163.6 137.6 169.16	2.213770 2.138561 2.228309
T.P. 977	45 67	14 27	30.560 22.293	74 91 339	28 59 22	52 23 23	254 271 159	28 59 22	46 12 24	Ref. Mon. 186 T.P. 976 T.S. M-2	199.9 348.8 61.8	2.300815 2.542518 1.791231
T.P. 978	45 67	14 27	28.190 15.837	97 117	18 26	39 58	277 297	18 26	35 53	T.S. M-2 T.P. 977	120.00 158.7	2.079181 2.200494
T.P. 979	45 67	14 26	11.452 59.061	26 144	06 41	27 53	206 324	06 41	25 41	T.S. M-8 T.P. 978	120.00 633.2	2.079181 2.801511
T.P. 980	45 67	13 26	58.999 52.469	138 159	30 29	29 36	318 339	30 29	25 31	T.S. M-9 T.P. 979	194.00 410.4	2.287802 2.613257
T.P. 981	45 67	13 26	44.401 34.198	2 138 138	52 30 30	16 42 42	182 318 318	52 30 30	16 25 29	T.S. M-17 T.S. M-9 T.P. 980	160.00 795.6 601.6	2.204120 2.900702 2.779318
T.P. 982	45 67	13 26	39.560 27.568	86 135	07 56	21 21	266 315	07 56	16 16	T.S. M-17 T.P. 981	153.00 208.0	2.184691 2.318015
T.P. 983	45 67	13 26	33.803 23.477	110 153	53 20	51 08	290 333	53 20	45 05	T.S. M-18 T.P. 982	190.00 198.9	2.278754 2.298580
T.P. 984	45 67	13 26	28.918 23.518	141 180	03 20	40 26	321 0	03 20	34 26	T.S. M-18 T.P. 983	281.00 150.8	2.448706 2.178391



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*International boundary line*   St. Croix River   Vanceboro to Woodland   *State*   Maine   *Province*   New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 985	45 13 21.600 67 26 15.151	4 18 44 22 47 26 82 29 12 141 03 46 141 03 46 262 29 12	184 18 43 202 47 24 262 29 08 321 03 34 321 03 40 82 29 14	T.S. M-27 Ref.Mon. 188 T.S. M-22 T.S. M-18 T.P. 984 Ref.Mon. 187	543.2 133.3 120.7 571.4 290.4 58.00	2.734983 2.124959 2.081780 2.756974 2.463064 1.763428						
T.P. 986	45 13 11.418 67 26 16.237	4 18 44 184 18 44	184 18 43 4 18 44	T.S. M-27 T.P. 985	228.00 315.2	2.357935 2.498626						
T.P. 987	45 12 57.688 67 26 09.178	68 16 09 160 01 49 248 16 09 335 42 20	248 16 06 340 01 44 68 16 10 155 42 33	T.S. M-28a T.P. 986 T.S. M-28 T.S. M-34	102.1 451.0 35.00 968.0	2.008962 2.654152 1.544068 2.985890						
T.P. 988	45 12 32.827 67 25 53.303	155 42 31 335 42 31	335 42 20 155 42 33	T.P. 987 T.S. M-34	842.0 126.00	2.925329 2.100370						
T.P. 989	45 12 21.869 67 25 52.633	9 27 07 177 31 24 189 27 07 335 48 55	189 27 04 357 31 23 9 27 08 155 49 03	Ref.Mon. 190 T.P. 988 T.S. M-34 Ref.Mon. 189	558.9 338.6 226.5 640.5	2.747359 2.529701 2.355117 2.806530						
T.P. 990	45 12 06.193 67 25 42.675	77 42 12 155 49 02 335 49 02	257 42 02 335 48 55 155 49 03	Ref.Mon. 190 T.P. 989 Ref.Mon. 189	316.4 530.5 110.00	2.500221 2.724699 2.041393						
T.P. 991	45 11 58.551 67 25 45.387	194 05 13 217 34 00	14 05 15 37 34 03	T.P. 990 Ref.Mon. 189	243.2 171.00	2.385967 2.232936						
T.P. 992	45 11 36.218 67 25 47.350	16 14 55 183 33 22 196 14 55	196 14 53 3 33 23 16 14 58	Green T.P. 991 Island	251.00 690.8 309.9	2.399674 2.839332 2.491188						
T.P. 993	45 11 29.200 67 25 38.731	27 14 28 139 01 44 207 14 28 283 46 46	207 14 20 319 01 38 27 14 35 103 47 13	Whidden T.P. 992 Weatherby Ref.Mon. 191	508.00 286.9 476.0 838.6	2.705864 2.457795 2.677580 2.923553						
T.P. 994	45 11 23.732 67 25 07.206	38 20 00 103 47 09 283 47 09	218 19 57 283 46 46 103 47 13	Ref.Mon. 192 T.P. 993 Ref.Mon. 191	160.7 708.6 130.00	2.206050 2.850399 2.113943						
T.P. 995	45 11 12.227 67 24 56.813	97 14 32 147 25 48 277 14 32	277 14 28 327 25 41 97 14 39	Lee T.P. 994 Dry	112.00 421.5 235.2	2.049218 2.624748 2.371395						
T.P. 996	45 11 07.220 67 24 50.103	34 48 00 136 32 39 214 48 00	214 47 58 316 32 34 34 48 02	Ledges T.P. 995 Dry	86.00 213.0 152.1	1.934498 2.328289 2.182252						
T.P. 997	45 10 56.898 67 24 43.308	141 28 51 155 02 11 321 28 51	321 28 45 335 02 07 141 29 09	Ledges T.P. 996 Pier No. 4	317.00 351.5 870.9	2.501059 2.545894 2.939954						

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International boundary line			St. Croix River			Vanceboro to Woodland			State Maine			Province New Brunswick		
STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION			DISTANCE (METERS)	LOGARITHM
T.P. 998	45 10 43.795	67 24 25.540	136 11 58	150 51 26	330 51 26	316 11 45	330 51 16	150 51 31	T.P. 997	560.5	2.748565			
									Pier No. 2	608.9	2.784515			
									Pier No. 4	317.00	2.501059			
T.P. 999	45 10 39.343	67 24 03.868	66 22 43	106 11 46	246 22 43	246 22 33	286 11 31	66 22 51	Pier No. 4	348.00	2.541579			
									T.P. 998	492.8	2.692629			
									New	278.2	2.444319			
T.P. 1000	45 10 23.910	67 23 55.978	70 20 02	160 07 12	250 20 02	250 19 51	340 07 06	70 20 11	Mill	346.4	2.539639			
									T.P. 999	506.6	2.704682			
									Top	307.00	2.487138			
T.P. 1001	45 10 07.976	67 23 59.108	101 58 33	187 54 38	281 58 33	281 58 14	7 54 40	101 58 52	Pole	609.00	2.784617			
									T.P. 1000	496.6	2.696023			
									Pog	587.9	2.769285			
No. Tablet, Woodland Bridge 1939; r. 1946 d.m.	45 10 00.750	67 24 17.476	135 13 13	240 57 07	322 03 21	315 13 12	60 55 20	142 03 22	Ref.Mon. 194	39.8	1.599466			
									T.P. 1001	459.0	2.661806			
									Ref.Mon. 193	38.7	1.587526			
T.P. 1002	45 10 00.712	67 24 17.572	138 35 28	240 55 07	240 55 07	318 35 27	60 55 07	60 55 20	Ref.Mon. 194	39.18	1.593088			
									No.Tab., Woodland Br.	2.393	0.378943			
									T.P. 1001	461.4	2.664064			
									Ref.Mon. 193	39.12	1.592440			
So. Tablet, Woodland Bridge 1939; r. 1946 d.m.	45 10 00.679	67 24 17.664	141 50 27	242 52 32	315 25 40	321 50 26	62 52 32	135 25 41	Ref.Mon. 194	38.7	1.587554			
									T.P. 1002	2.263	0.354685			
									Ref.Mon. 193	39.7	1.599257			
T.P. 1003	45 10 00.136	67 24 19.163	190 35 27	242 52 31	242 52 31	10 35 27	62 52 32	62 52 32	Ref.Mon. 194	48.00	1.681241			
									T.P. 1002	39.0	1.591412			
									So.Tab., Woodland Br.	36.8	1.565472			
T.P. 1004	45 09 46.353	67 24 22.806	127 23 30	190 35 24	190 35 24	307 23 20	10 35 27	10 35 27	Telline	359.1	2.555268			
									T.P. 1003	432.9	2.636354			
									Ref.Mon. 194	480.9	2.682025			
									Ref.Mon. 195	393.0	2.594418			
T.P. 1005	45 09 35.970	67 24 20.097	72 04 51	169 32 32	252 04 51	252 04 45	349 32 30	72 04 59	Ref.Mon. 196	196.5	2.293432			
									T.P. 1004	325.9	2.513119			
									Ref.Mon. 195	266.00	2.424882			
T.P. 1006	45 09 34.444	67 24 11.726	104 26 43	208 35 16	296 25 48	284 26 37	28 35 18	116 25 48	T.P. 1005	188.8	2.276019			
									Ref.Mon. 195	146.8	2.166827			
									T.P. 1006 ecc.	1.90	0.278754			



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Below Woodland

State Maine

Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 1007	45 09	31.217	133 20	34	313 20	31	313 20	31	T.P. 1006	145.1	2.161803	
	67 24	06.893	152 19	41	332 19	40	332 19	40	Hat 1924	67.06	1.826439	
			171 13	16	351 13	15	351 13	15	Ref.Mon. 195	231.4	2.364107	
T.P. 1008	45 09	20.888	121 15	35	301 15	18	301 15	18	T.P. 1007	614.5	2.788532	
	67 23	42.843	281 36	53	101 36	57	101 36	57	Crossing	118.6	2.073902	
			348 34	08	168 34	09	168 34	09	Nearby	150.6	2.177855	
T.P. 1009	45 09	15.554	24 40	21	204 40	20	204 40	20	Napsaconhagan	39.9	1.601414	
	67 23	36.357	139 17	22	319 17	17	319 17	17	T.P. 1008	217.2	2.336911	
			169 42	36	349 42	35	349 42	35	Crossing	143.1	2.155613	
T.P. 1010	45 09	06.852	109 13	15	289 12	50	289 12	50	T.P. 1009	816.1	2.911764	
	67 23	01.077	346 42	11	166 42	12	166 42	12	Lovering	64.01	1.806235	
T.P. 1011	45 09	07.457	64 37	33	244 37	27	244 37	27	Lovering	188.98	2.276408	
	67 22	52.587	84 14	45	264 14	38	264 14	38	T.P. 1010	186.4	2.270457	
T.P. 1012	45 08	59.065	25 31	47	205 31	43	205 31	43	Ref.Mon. 198	283.9	2.453105	
	67 22	43.010	141 04	42	321 04	35	321 04	35	T.P. 1011	333.0	2.522433	
			225 08	05	45 08	06	45 08	06	Ref.Mon. 197	52.43	1.719544	
T.P. 1013	45 08	37.622	146 37	10	326 36	56	326 36	56	T.P. 1012	792.7	2.899134	
	67 22	23.044	313 02	46	133 03	03	133 03	03	Ref.Mon. 199	726.2	2.861035	
			324 50	15	144 50	23	144 50	23	Wal	441.96	2.645384	
			325 04	13	145 04	25	145 04	25	Ref.Mon. 200	651.9	2.814173	
T.P. 1014	45 08	30.946	145 02	27	325 02	23	325 02	23	T.P. 1013	251.5	2.400478	
	67 22	16.449	306 50	12	126 50	25	126 50	25	Ref.Mon. 199	483.0	2.683968	
			324 34	19	144 34	23	144 34	23	Wal	190.50	2.279896	
			325 05	27	145 05	35	145 05	35	Ref.Mon. 200	400.4	2.602519	
T.P. 1015	45 08	15.257	115 21	24	295 21	13	295 21	13	Ref.Mon. 200	364.2	2.561337	
	67 21	50.899	130 56	49	310 56	30	310 56	30	T.P. 1014	739.1	2.868688	
			134 23	08	314 22	55	314 22	55	Do	538.1	2.730833	
			138 36	04	318 35	58	318 35	58	Ref.Mon. 199	259.6	2.414309	
T.P. 1016	45 07	58.499	108 05	22	288 05	17	288 05	17	Clark	184.1	2.265168	
	67 21	25.623	133 07	46	313 07	28	313 07	28	T.P. 1015	756.7	2.878951	
			288 05	22	108 05	24	108 05	24	Ephraim	52.43	1.719544	
T.P. 1017	45 07	55.669	221 07	26	41 07	28	41 07	28	T.P. 1016	116.0	2.064427	
	67 21	29.114	240 35	20	60 35	24	60 35	24	Ephraim	144.78	2.160710	
T.P. 1018	45 07	44.731	136 24	08	316 23	58	316 23	58	T.P. 1017	466.3	2.668633	
	67 21	14.400	271 12	52	91 13	00	91 13	00	Ref.Mon. 202	246.89	2.392501	
T.P. 1019	45 07	45.919	64 58	03	244 58	00	244 58	00	Ref.Mon. 202	99.06	1.995899	
	67 20	58.998	83 46	57	263 46	46	263 46	46	T.P. 1018	338.6	2.529661	
			117 26	19	297 26	16	297 26	16	Ref.Mon. 201	98.1	1.945067	

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STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 1020	45 07 34.964 67 20 47.585	102 53 29 143 35 30 282 53 29	282 53 22 323 35 22 102 53 42	Lawler T.P. 1019 Waters	242.2 420.2 398.00	2.384241 2.623468 2.599883
T.P. 1021	45 07 33.099 67 20 36.078	102 53 38 102 53 38 282 53 38	282 53 22 282 53 29 102 53 42	Lawler T.P. 1020 Waters	500.2 258.00 140.00	2.699176 2.411620 2.146128
T.P. 1022	45 07 29.885 67 20 29.051	122 52 22 165 53 43 211 18 06 251 55 45	302 52 17 345 53 42 31 18 08 71 55 49	T.P. 1021 Waters Ref.Mon. 203 Ref.Mon. 204	182.8 70.10 109.1 123.3	2.262043 1.845744 2.037734 2.090932
T.P. 1023	45 07 41.840 67 20 11.659	13 13 45 45 50 44 193 13 45	193 13 45 225 50 32 13 13 46	Frostfield T.P. 1022 Cove	56.49 529.8 56.49	1.752007 2.724098 1.752007
T.P. 1024	45 07 54.220 67 19 51.830	48 35 27 56 13 47 269 39 06	228 35 13 236 13 43 89 39 23	T.P. 1023 Abbott Heater	577.8 161.00 523.9	2.761760 2.206826 2.719273
T.P. 1025	45 07 52.539 67 19 16.971	64 48 41 93 53 57 103 01 50 103 44 43	244 48 34 273 53 32 283 01 42 283 44 34	Ref.Mon. 206 T.P. 1024 Heater Ref.Mon. 205	218.4 763.5 244.1 263.4	2.339208 2.882819 2.387594 2.420670
Boundary pt. on Maine Central RR. Bridge, Varing, Maine to Upper Mills, N.B., 1921 n.m.	45 08 03.695 67 19 11.763	18 17 11 188 48 08 215 43 27	198 17 07 8 48 10 35 43 33	T.P. 1025 Ref.Mon. 207 Ref.Mon. 208	362.7 342.7 311.8	2.559535 2.534851 2.493829
T.P. 1026	45 08 16.610 67 19 05.733	18 17 15 52 51 15 340 57 01	198 17 07 232 51 12 160 57 02	T.P. 1025 Ref.Mon. 207 Ref.Mon. 208	782.6 99.5 154.0	2.893541 1.997883 2.187635
T.P. 1027	45 08 27.916 67 19 12.929	10 18 47 42 12 41 222 12 41 314 49 12 335 44 53	190 18 47 222 12 40 42 12 42 134 49 16 155 44 58	Ref.Mon. 209 Towers Sawdust Island Ref.Mon. 210 T.P. 1026	71.3 48.00 63.02 146.5 382.8	1.853047 1.681241 1.799499 2.165960 2.582949
T.P. 1028	45 08 32.381 67 19 14.047	143 47 11 323 47 11 349 57 20	323 47 02 143 47 13 169 57 21	Butler Sawdust Island T.P. 1027	486.3 113.00 140.0	2.686898 2.053078 2.146115
T.P. 1029	45 08 36.893 67 18 37.204	31 39 57 80 11 11 211 39 57	211 39 55 260 10 45 31 40 01	Ref.Mon. 212 T.P. 1028 Ref.Mon. 211	106.4 816.9 233.00	2.026958 2.912174 2.367356
T.P. 1030	45 08 41.368 67 18 21.347	68 15 41 148 17 57 328 17 57	248 15 30 328 17 56 148 18 05	T.P. 1029 Squirrel Point Rideout	373.0 32.00 477.7	2.571667 1.505150 2.679147



GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927										Province New Brunswick		
International boundary line			St. Croix River			Below Woodland			State Maine			
STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 1031	45 08 45.998 67 18 02.307	16 42 58 71 02 18 196 42 58 240 23 46	196 42 53 251 02 05 16 42 59 60 24 05	Rideout T.P. 1030 Birch Hill Junction	573.6 439.8 72.00 633.6	2.758607 2.643299 1.857332 2.801792						
T.P. 1032	45 08 51.944 67 17 47.519	60 23 57 240 23 57	240 23 46 60 24 05	T.P. 1031 Junction	371.6 262.00	2.570036 2.418301						
T.P. 1033	45 08 58.580 67 17 43.078	25 20 21 119 58 30 299 58 30	205 20 17 299 58 17 119 58 34	T.P. 1032 Balcolm Junction	226.7 456.7 151.00	2.355378 2.659619 2.178977						
T.P. 1034	45 09 12.810 67 17 41.224	5 16 04 30 06 13 210 06 13	185 16 03 210 05 59 30 06 17	T.P. 1033 Birch Hill Campbell	441.2 877.0 230.00	2.644587 2.942996 2.361728						
T.P. 1035	45 09 19.461 67 17 53.277	22 32 16 202 32 16 307 56 52	202 32 11 22 32 18 127 57 00	Balcolm Pineo T.P. 1034	450.9 128.00 333.9	2.654078 2.107210 2.523585						
T.P. 1036	45 09 24.919 67 18 07.859	277 47 06 297 52 34	97 47 18 117 52 44	Pineo T.P. 1035	371.00 360.3	2.569374 2.556711						
T.P. 1037	45 09 38.299 67 18 11.678	95 13 33 275 13 33 348 34 56	275 13 31 95 13 36 168 34 59	Ref.Mon. 213 Ref.Mon. 214 T.P. 1036	50.00 104.7 421.4	1.698970 2.019778 2.624681						
T.P. 1038	45 10 08.783 67 17 59.638	15 36 45 224 14 52	195 36 37 44 14 56	T.P. 1037 Church	977.1 162.00	2.989942 2.209515						
W. Tablet, Highway Bridge d.m. Milltown, Me.-Milltown, N.B. 1936; r. 1955	45 10 11.704 67 17 51.577	62 52 11 224 32 23 273 37 22	242 52 05 44 32 26 93 37 25	T.P. 1038 Ref.Mon. 216 Ref.Mon. 215	197.8 141.6 109.5	2.296224 2.150922 2.039268						
E. Tablet, Highway Bridge d.m. Milltown, Me.-Milltown, N.B. 1955	45 10 11.830 67 17 51.231	62 52 11 223 23 35 276 03 28	242 52 11 43 23 38 96 03 31	W.Tab., Milltown Hwy.Br. Ref.Mon. 216 Ref.Mon. 215	8.5 133.5 102.3	0.929214 2.125533 2.009683						
T.P. 1039	45 10 12.062 67 17 50.592	62 52 11 62 52 11 220 52 22 281 33 22	242 52 11 242 52 05 40 52 25 101 33 25	E.Tab., Milltown Hwy.Br. T.P. 1038 Ref.Mon. 216 Ref.Mon. 215	15.7 222.0 118.9 89.5	1.195203 2.346294 2.075010 1.952059						
T.P. 1040	45 10 13.594 67 17 43.298	73 27 51 47 38 27 117 35 27	253 27 46 227 38 25 297 35 25	T.P. 1039 Ref.Mon. 215 Ref.Mon. 216	166.1 96.8 91.9	2.220470 1.985908 1.963534						
T.P. 1041	45 10 14.176 67 17 37.531	81 52 34 169 56 59 228 33 59	261 52 28 349 56 58 48 34 02	T.P. 1040 Ref.Mon. 217 Ref.Mon. 218	127.2 45.7 109.8	2.104551 1.659758 2.040684						
T.P. 1042	45 10 15.463 67 17 31.150	74 05 01 120 01 48 180 55 48	254 04 56 300 01 46 0 55 48	T.P. 1041 Ref.Mon. 218 Ref.Mon. 219	144.9 65.8 469.9	2.161003 1.818376 2.671967						

GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line		St. Croix River		Below Woodland		State		Maine		Province		New Brunswick	
STATION		LATITUDE AND LONGITUDE		AZIMUTH		BACK AZIMUTH		TO STATION		DISTANCE (METERS)		LOGARITHM	
T.P. 1043		45 10 22.209	17 52 48	197 52 46	179 52 51	Ref.Mon. 218		184.2	2.265290				
		67 17 31.170	359 52 51	179 52 51		T.P. 1042		208.2	2.318575				
T.P. 1044		45 10 28.190	7 55 56	187 55 55	347 03 35	T.P. 1043		186.4	2.270537				
		67 17 29.992	167 03 36	347 03 35		Ref.Mon. 219		78.9	1.897077				
S.E. Tablet, C.P.R. Bridge		45 10 28.971	195 10 35	15 10 35	127 00 39	Ref.Mon. 219		54.7	1.737917				
Milltown, Me.-Milltown, N.B.		67 17 31.457	307 00 38	127 00 39		T.P. 1044		40.1	1.602674				
1939; r. 1946		d.m.											
N.W. Tablet, C.P.R. Bridge		45 10 29.102	201 58 35	21 58 35	127 00 38	Ref.Mon. 219		52.6	1.720714				
Milltown, Me.-Milltown, N.B.		67 17 31.702	307 00 38	127 00 38		SE Tab., CPR Bridge		6.7	0.826409				
1939; r. 1946		d.m.											
T.P. 1045		45 10 32.824	140 23 15	320 23 14	127 00 39	Ref.Mon. 220		40.1	1.603144				
		67 17 38.684	307 00 33	127 00 39		T.P. 1044		237.7	2.375978				
			307 00 33	127 00 38		N.W. Tab., CPR Bridge		190.9	2.280829				
T.P. 1046		45 10 37.533	156 09 15	336 09 14	164 09 27	Ref.Mon. 221		67.5	1.829304				
		67 17 40.573	344 09 25	164 09 27		T.P. 1045		151.1	2.179327				
T.P. 1047		45 10 53.705	27 33 38	207 33 30	339 34 12	T.P. 1046		563.1	2.750616				
		67 17 28.640	159 34 16	339 34 12		Ref.Mon. 223		355.9	2.551312				
			178 46 16	358 46 16		Ref.Mon. 222		131.3	2.118420				
T.P. 1048		45 10 56.979	160 44 15	340 44 12	53 01 16	Ref.Mon. 223		246.2	2.391328				
		67 17 30.609	233 01 15	53 01 16		Ref.Mon. 222		50.3	1.701503				
			336 57 17	156 57 18		T.P. 1047		109.8	2.040720				
T.P. 1049		45 11 00.410	156 45 14	336 45 12	138 27 16	Ref.Mon. 223		137.7	2.138883				
		67 17 31.840	318 27 14	138 27 16		Ref.Mon. 222		101.1	2.004832				
			345 45 28	165 45 29		T.P. 1048		109.3	2.038584				
T.P. 1050		45 11 01.943	3 50 35	183 50 35	324 00 12	T.P. 1049		47.4	1.676070				
		67 17 31.695	144 00 14	324 00 12		Ref.Mon. 223		97.9	1.990643				
			332 33 14	152 33 16		Ref.Mon. 222		138.6	2.141781				
T.P. 1051		45 11 03.247	34 51 45	214 51 44	294 27 09	T.P. 1050		49.1	1.690869				
		67 17 30.410	114 27 12	294 27 09		Ref.Mon. 223		94.0	1.973149				
			219 17 12	39 17 18		Ref.Mon. 224		285.4	2.455470				
T.P. 1052		45 11 05.844	63 04 12	243 04 09	52 45 18	Ref.Mon. 223		91.0	1.959193				
		67 17 30.612	232 45 12	52 45 18		Ref.Mon. 224		232.6	2.366553				
			356 50 56	176 50 56		T.P. 1051		80.3	1.904517				
T.P. 1053		45 11 07.149	31 40 36	211 40 35	35 20 15	T.P. 1052		47.4	1.675368				
		67 17 29.474	215 20 09	35 20 15		Ref.Mon. 225		295.8	2.470991				
			237 55 09	57 55 14		Ref.Mon. 224		189.2	2.276808				
T.P. 1054		45 11 08.700	221 45 09	41 45 15	72 00 14	Ref.Mon. 225		259.3	2.413741				
		67 17 29.546	252 00 09	72 00 14		Ref.Mon. 224		170.2	2.230862				
			358 07 27	178 07 27		T.P. 1053		47.9	1.680433				



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STATION		LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 1055		45 11 09.804 67 17 26.592	62 09 04 259 14 11	242 09 02 79 14 14	T.P. 1054 Ref.Mon. 224	72.9 99.1	1.862881 1.996074
T.P. 1056		45 11 14.995 67 <del>14</del> 29.585 17	270 18 09 311 04 09 337 49 32	90 18 15 131 04 14 157 49 34	Ref.Mon. 225 Ref.Mon. 224 T.P. 1055	173.5 215.8 173.1	2.239274 2.334001 2.238213
T.P. 1057		45 11 19.385 67 17 24.987	36 31 34 331 49 12	216 31 31 151 49 15	T.P. 1056 Ref.Mon. 225	168.7 154.8	2.227012 2.189771
T.P. 1058		45 11 20.556 67 17 15.309	38 41 02 80 17 48 182 17 02	218 40 58 260 17 41 2 17 02	Ref.Mon. 225 T.P. 1057 Ref.Mon. 226	221.1 214.3 93.0	2.344562 2.331121 1.968655
T.P. 1059		45 11 23.537 67 17 10.852	46 35 39 90 34 05	226 35 36 270 34 02	T.P. 1058 Ref.Mon. 226	133.9 93.6	2.126894 1.971276
T.P. 1060		45 11 28.429 67 17 08.400	19 30 38 44 25 15 244 34 39 271 36 49	199 30 28 224 25 10 64 34 42 91 36 53	T.P. 1059 Ref.Mon. 226 Can Bridge US Bridge	160.3 210.2 139.3 65.8	2.204820 2.322618 2.143854 1.818013
W.Tablet, Highway Bridge Calais-St.Stephens; 1957	d.m.	45 11 30.116 67 17 03.096	65 47 17 232 20 29 245 47 17	245 47 14 52 20 29 65 47 18	T.P. 1060 Can Bridge Boundary Point	126.9 12.6 11.69	2.103597 1.101919 1.067781
E.Tablet, Highway Bridge Calais-St.Stephens; 1957	d.m.	45 11 30.283 67 17 02.571	65 47 18 65 47 18 65 47 18 150 20 04	245 47 14 245 47 18 245 47 17 330 20 04	T.P. 1060 Boundary Point W.Tab.,Hwy.Bridge Can Bridge	139.5 0.89 12.58 3.0	2.144632 9.949399 1.099650 0.470392
T.P. 1061		45 11 30.430 67 17 02.107	65 47 18 65 47 18 80 15 43 357 47 14	245 47 14 245 47 18 260 15 42 177 47 14	T.P. 1060 E.Tab.,Hwy.Bridge Can Bridge US Bridge	150.6 11.1 11.8 65.8	2.177910 1.045741 1.070598 1.818013

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International boundary line St. Croix River Below Calais State Maine Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 1062	45 11 27.754 67 16 46.447			103 35 09			283 34 58			T.P. 1061	351.7	2.546158
T.P. 1063	45 11 28.525 67 16 30.653			86 03 09			266 02 58			T.P. 1062	345.6	2.538560
T.P. 1064	45 11 28.077 67 16 21.288			93 52 05			273 51 58			T.P. 1063	204.9	2.311528
T.P. 1065	45 11 25.562 67 16 11.191			109 24 05			289 23 58			T.P. 1064	233.7	2.368645
T.P. 1066	45 11 16.327 67 15 46.090			64 27 08 117 29 26 148 08 08			244 26 57 297 29 08 328 08 03			Ref.Mon. 229 T.P. 1065 Ref.Mon. 228	381.3 617.7 319.0	2.581278 2.790764 2.503798
T.P. 1067	45 10 58.031 67 15 21.109			136 00 19			316 00 01			T.P. 1066	785.1	2.894943
T.P. 1068	45 10 52.061 67 15 00.574			112 20 56			292 20 41			T.P. 1067	484.7	2.685512
T.P. 1069	45 10 50.938 67 14 52.753			69 36 01 101 28 47 298 40 01			249 35 54 281 28 41 118 40 06			Ref.Mon. 231 T.P. 1068 Ref.Mon. 230	248.1 174.3 172.3	2.394587 2.241177 2.236290
T.P. 1070	45 10 41.458 67 14 40.197			136 52 13			316 52 04			T.P. 1069	401.0	2.603132
T.P. 1071	45 10 20.533 67 14 36.131			172 10 27			352 10 24			T.P. 1070	652.0	2.814277
T.P. 1072	45 10 15.275 67 14 29.756			139 23 09			319 23 04			T.P. 1071	213.8	2.330104
T.P. 1073	45 10 10.666 67 14 09.787			108 04 18			288 04 04			T.P. 1072	458.7	2.661530
T.P. 1074	45 10 06.394 67 14 00.465			122 56 11			302 56 04			T.P. 1073	242.6	2.384808
T.P. 1075	45 09 53.175 67 13 49.209			148 56 12			328 56 04			T.P. 1074	476.4	2.677977
T.P. 1076	45 09 48.077 67 13 40.241			6 22 57 128 47 10 209 29 57			186 22 57 308 47 04 29 30 01			Ref.Mon. 233 T.P. 1075 Ref.Mon. 232	72.6 251.3 239.7	1.861039 2.400116 2.379639
T.P. 1077	45 09 47.840 67 13 25.404			91 17 45			271 17 35			T.P. 1076	324.1	2.510716
T.P. 1078	45 09 59.404 67 13 06.684			48 52 28			228 52 15			T.P. 1077	542.7	2.734599



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STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 1079	45 10 02.882 67 12 51.144	72 26 46 93 54 00 271 02 00	252 26 35 273 53 48 91 02 12	T.P. 1078 Ref.Mon. 234 Ref.Mon. 235	356.0 368.5 356.9	2.551401 2.566437 2.552569
T.P. 1080	45 10 09.354 67 12 33.050	63 10 31 120 12 04	243 10 18 300 12 00	T.P. 1079 Ref.Mon. 236	442.8 151.6	2.646192 2.180699
T.P. 1081	45 10 16.804 67 12 20.325	50 23 15	230 23 06	T.P. 1080	360.7	2.557174
T.P. 1082	45 10 16.619 67 12 12.061	91 49 12	271 49 06	T.P. 1081	180.6	2.256625
T.P. 1083	45 09 58.011 67 11 35.685	125 52 32	305 52 06	T.P. 1082	980.3	2.991374
T.P. 1084	45 09 55.881 67 11 28.752	113 28 11 245 43 50 334 21 50	293 28 06 65 44 04 154 21 55	T.P. 1083 Ref.Mon. 238 Ref.Mon. 237	165.1 465.0 374.5	2.217632 2.667456 2.573484
T.P. 1085	45 09 52.514 67 10 06.279	93 18 39	273 17 41	T.P. 1084	1804.2	3.256279
T.P. 1086	45 09 42.910 67 09 33.632	45 16 21 112 34 54 156 18 10	225 16 08 292 34 31 336 18 00	Ref.Mon. 239 T.P. 1085 Ref.Mon. 240	556.1 772.2 731.2	2.745117 2.887732 2.864029
T.P. 1087	45 08 44.984 67 08 43.629	148 35 16 210 49 06	328 34 41 30 49 23	T.P. 1086 Ref.Mon. 241	2095.4 1031.0	3.321267 3.013259
T.P. 1088	45 07 55.902 67 07 45.560	43 11 25 140 03 49 308 45 25	223 11 13 320 03 08 128 45 55	Ref.Mon. 242 T.P. 1087 Ref.Mon. 243	546.1 1976.3 1189.9	2.737243 3.295843 3.075515
T.P. 1089	45 06 45.034 67 06 47.243	94 37 25 149 46 50 322 21 35	274 36 44 329 46 09 142 22 15	Ref.Mon. 244 T.P. 1088 Ref.Mon. 245	1273.1 2531.9 2010.3	3.104849 3.403451 3.303254

International boundary line Boundary Turning Points, Passamaquoddy Bay State Maine Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 1	45	04	27.978	73	29	02.5	253	28	33.7	Ref.Mon. 246	928.9	2.967975
	67	05	42.417	161	29	00.2	341	28	14.3	T.P. 1089 (St. Croix Rv.)	4462.1	3.649539
				255	12	28.3	75	12	58.3	Range Mark 1	959.2	2.981921
				255	12	28.3	75	13	01.9	Range Mark 2	1073.4	3.030776
				336	46	10.6	156	50	08.9	Range Mark 7	18733.6	4.2726203
				336	46	10.6	156	50	24.8	Range Mark 8	19993.7	4.3008923
T.P. 2	44	57	13.822	156	49	16.3	336	46	10.6	T.P. 1	14581.9	4.163815
	67	10	20.031	210	17	48.5	30	18	25.2	Range Mark 4	2260.8	3.354270
				210	18	13.9	30	18	45.2	Range Mark 3	1929.7	3.285487
				317	49	24.6	137	50	55.5	Range Mark 11	4208.3	3.624103
				317	49	24.6	137	52	10.9	Range Mark 12	7699.9	3.886483
				336	49	16.3	156	50	08.9	Range Mark 7	4151.6	3.618219
				336	49	16.3	156	50	24.8	Range Mark 8	5411.7	3.733336
T.P. 3	44	56	40.873	38	42	32.4	218	42	09.5	Range Mark 5	1138.4	3.056289
	67	00	38.002	38	43	44.9	218	43	18.1	Range Mark 6	1333.0	3.124835
				137	49	54.2	317	49	24.6	T.P. 2	1372.3	3.137465
				317	49	54.2	137	50	55.5	Range Mark 11	2835.9	3.452693
				317	49	54.2	137	52	10.9	Range Mark 12	6327.5	3.801233
				330	19	46.6	150	20	39.9	Range Mark 13	3346.0	3.524530
				330	19	46.6	150	20	54.2	Range Mark 14	4245.3	3.627906
T.P. 4	44	55	41.864	47	12	54.9	227	12	33.5	Range Mark 9	909.6	2.958873
	66	59	50.682	47	12	54.9	227	12	27.0	Range Mark 10	1183.8	3.073267
				150	20	20.0	330	19	46.6	T.P. 3	2096.3	3.321455
				311	57	40.8	131	59	19.8	Range Mark 15	4137.9	3.616778
				311	57	40.8	131	59	23.9	Range Mark 16 ecc*	4303.1	3.633784
				330	20	20.0	150	20	39.9	Range Mark 13	1249.7	3.096812
				330	20	20.0	150	20	54.2	Range Mark 14	2149.0	3.332230
T.P. 5	44	54	37.133	131	58	52.3	311	57	40.8	T.P. 4	2987.9	3.475370
	66	58	09.400	189	05	05.5	9	05	10.3	Range Mark 17	948.3	2.976932
				189	05	05.5	9	05	13.2	Range Mark 18	1523.3	3.182791
				311	58	52.3	131	59	19.8	Range Mark 15	1149.9	3.060678
				311	58	52.3	131	59	23.9	Range Mark 16 ecc*	1315.2	3.118988
				311	59	40.1	132	00	11.7	Range Mark 16	1315.2	3.118988
T.P. 6	44	53	40.921	17	41	52.2	197	41	22.5	Range Mark 23	3040.6	3.482955
	66	58	22.045	17	41	52.2	197	41	22.1	Range Mark 24	3080.7	3.488647
				17	41	52.2	197	41	13.2	Lubec Church spire	3992.9	3.601287
				106	03	37.8	286	02	58.7	Range Mark 20	1263.8	3.101665
				106	05	09.2	286	04	33.6	Range Mark 19	1151.6	3.061309
				189	04	56.6	9	05	05.5	T.P. 5	1757.3	3.244841
				189	04	56.6	9	05	10.3	Range Mark 17	2705.5	3.432255
				189	04	56.6	9	05	13.2	Range Mark 18	3280.6	3.515953

\*Range Mark 16 ecc is 1 ft. from Range Mark 16 on line from station "Campobello" extended.



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STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 7	44	52	38.534	8	27	50.5	188	27	42.8	Range Mark 27-61	1650.8	3.217687
	66	58	50.042	8	27	50.5	188	27	42.3	Range Mark 28	1757.6	3.244922
				17	41	32.4	197	41	22.5	Range Mark 23	1019.1	3.008217
				17	41	32.4	197	41	22.1	Range Mark 24	1059.2	3.024982
				17	41	32.4	197	41	13.2	Lubec Church spire	1971.4	3.294779
				97	42	41.5	277	42	16.4	Range Mark 22	788.9	2.897004
				97	53	24.5	277	53	06.2	Range Mark 21	575.2	2.759790
				197	41	32.4	17	41	52.2	T.P. 6	2021.5	3.305667
T.P. 8	44	52	01.858	8	27	45.2	188	27	42.8	Range Mark 27-61	506.2	2.704299
	66	58	57.716	8	27	45.2	188	27	42.3	Range Mark 28	613.0	2.787468
				171	30	28.2	351	30	12.3	Range Mark 29	3318.0	3.520872
				171	30	28.2	351	30	11.7	Range Mark 30	3449.7	3.537781
				188	27	45.2	8	27	50.5	T.P. 7	1144.6	3.058654
				278	56	39.3	98	56	46.3	Range Mark 26	220.7	2.343884
				279	00	09.9	99	00	16.0	Range Mark 25	192.5	2.284462
T.P. 9	44	51	37.455	156	03	41.5	336	03	17.5	Range Mark 31	1843.8	3.265719
	66	58	52.593	156	03	41.5	336	03	14.2	Range Mark 32	2095.8	3.321354
				171	30	31.7	351	30	28.2	T.P. 8	761.6	2.881755
				171	30	31.7	351	30	12.3	Range Mark 29	4079.6	3.610620
				171	30	31.7	351	30	11.7	Range Mark 30	4211.3	3.624421
				273	34	26.2	93	34	31.9	Range Mark 33	177.0	2.248057
				273	39	14.7	93	39	25.7	Range Mark 34	340.3	2.531900
T.P. 10	44	51	03.226	156	03	56.6	336	03	41.5	T.P. 9	1156.0	3.062973
	66	58	31.232	156	03	56.6	336	03	17.5	Range Mark 31	2999.9	3.477101
				156	03	56.6	336	03	14.2	Range Mark 32	3251.9	3.512132
				180	22	47.3	0	22	47.6	Range Mark 35	1024.1	3.010359
				180	22	47.3	0	22	47.6	Range Mark 36	1167.7	3.067341
				299	37	05.3	119	37	20.3	Range Mark 37	536.2	2.729338
				299	37	14.2	119	37	32.5	Range Mark 38	655.4	2.816535
T.P. 11	44	50	29.507	180	22	47.1	0	22	47.3	T.P. 10	1040.9	3.017396
	66	58	31.547	180	22	47.1	0	22	47.6	Range Mark 35	2065.0	3.314922
				180	22	47.1	0	22	47.6	Range Mark 36	2208.6	3.344117
				223	38	32.9	43	38	45.9	Range Mark 39	590.2	2.771035
				223	38	58.4	43	39	12.4	Range Mark 40	633.8	2.801925
				331	54	30.0	151	55	13.1	Range Mark 41	2852.0	3.455155
				331	54	30.0	151	55	15.1	Range Mark 42	2983.6	3.474736
T.P. 12	44	49	43.625	98	10	46.4	278	09	42.3	Range Mark 43	2018.0	3.304913
	66	57	57.134	98	10	46.4	278	09	34.1	Range Mark 44	2275.6	3.357090
				151	54	54.3	331	54	30.0	T.P. 11	1605.4	3.205586
				331	54	54.3	151	55	13.1	Range Mark 41	1246.6	3.095738
				331	54	54.3	151	55	15.1	Range Mark 42	1378.2	3.139300

GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line Boundary Turning Points Passamaquoddy Bay State Maine Province New Brunswick

STATION	LATITUDE AND LONGITUDE			AZIMUTH			BACK AZIMUTH			TO STATION	DISTANCE (METERS)	LOGARITHM
	°	'	"	°	'	"	°	'	"			
T.P. 13	44	49	31.550	98	12	09.4	278	10	46.4	T.P. 12	2616.1	3.417651
	66	55	59.266	98	12	09.4	278	09	42.3	Range Mark 43	4634.0	3.665960
				98	12	09.4	278	09	34.1	Range Mark 44	4891.6	3.689455
				133	00	03.8	312	59	01.3	Range Mark 45	2663.0	3.425379
				133	00	03.8	312	58	38.1	Range Mark 46	3653.8	3.562740
				191	27	21.2	11	27	25.3	Range Mark 48	636.7	2.803915
				191	27	54.3	11	27	58.0	Range Mark 47	577.0	2.761139
T.P. 14	44	47	38.819	114	20	15.3	294	17	30.3	West Quoddy Head Lt.	5645.8	3.751726
	66	53	09.554	133	02	03.5	313	00	03.8	T.P. 13	5100.8	3.707635
				133	02	03.5	312	59	01.3	Range Mark 45	7763.8	3.890075
				133	02	03.5	312	58	38.1	Range Mark 46	8754.5	3.942232
				217	02	34.6	37	09	02.6	S.W. Wolf Is. Lighthouse	19883.6	4.298495
T.P. 15 (Terminus)	44	46	35.346	138	31	13.4	318	29	12.0	West Quoddy Head Lt.	5719.6	3.757365
	66	54	11.253	159	23	32.6	339	22	20.2	Range Mark 47	6415.5	3.807231
				214	41	16.4	34	42	00.0	T.P. 14	2383.0	3.377124
				216	46	51.0	36	53	59.9	S.W. Wolf Is. Lighthouse	22264.8	4.347618



We certify that the foregoing is a true record of the work done by the Commissioners on the maintenance of the International boundary between Canada and the United States of America from the source of the St. Croix River to the Atlantic Ocean under the terms of the treaty of February 24, 1925, and that the tables submitted herein are the true locations and geodetic positions of all International Boundary reference monuments and turning points in this area, based on the 1927 North American datum.

*A. J. Lambert*

Canadian Commissioner

*Edward J. King*

United States Commissioner

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