REPORT

INTERNATIONAL BOUNDARY COMMISSION
REVISION ON THE 1927 NORTH AMERICAN DATUM
AND MAINTENANCE OF THE BOUNDARY BETWEEN
CANADA AND THE UNITED STATES
SOURCE OF ST. CROIX RIVER TO MOUTH OF ST. FRANCIS RIVER



SPECIAL REPORT NO. 1

INTERNATIONAL BOUNDARY COMMISSION Canada, United States, and Alaska

Maintenance of the Boundary between

Canada and the United States under the

Provisions of Article IV of the

Treaty of 1925

Special Report No. 1

Revised Data from the Source of St. Croix River
to the Mouth of St. Francis River
together with an account of

Maintenance Operations on this Section
from 1927 to 1955, inclusive.

Ottawa, 1955 Washington, 1955

INTERNATIONAL BOUNDARY COMMISSION CANADA, UNITED STATES, AND ALASKA

Washington, March 23, 1956

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 North Line and St. John River sections of the International Boundary Line between Canada and the United States 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,

JER Ross

J.E.R. ROSS

Canadian Commissioner

SAMUEL L. GOLAN

United States Commissioner

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Looking northwest from Reference Monument S-75 towards Baker Brook, N.B. The boundary passes between the near shore and Daigle Id., in right foreground.

INTRODUCTION

This publication is the first of a series of special reports, prepared under the provisions of Article IV of the Treaty of 1925, that will supplement the original reports of the International Boundary Commission upon the establishment or re-establishment of the various sections of the boundary. It contains the description and definition, based on the 1927 North American datum, of the North Line and St. John River sections of the international boundary line which lie between the State of Maine and the Province of New Brunswick.

The description and definition of these two sections of the boundary line, based on the old North American datum. was included in the "Report of the International Boundary Commission upon the Reestablishment of the Boundary between the United States and Canada from the Source of the St. Croix River to the St. Lawrence River, published in 1925. Since that time, two developments have occurred which make necessary and desirable the publication of an appendix. The first has been the steady and cumulative change in the monumentation. Although a boundary may be "fixed" by treaty it is constantly undergoing change under the forces of na-The monuments deteriorate with time, and for various reasons become shifted in position. Trees and bushes grow up to obscure the course of the boundary, and without periodic clearing, it soon becomes unrecognizable and difficult to recover. This was the state of affairs on many parts of the boundary line during the earlier years of the present century, and although boundary re-establishment work, done under the provisions of the treaty of 1908, corrected the situation temporarily, it was not until 1925 that provision was made by treaty for the International Boundary Commission to "maintain at all times an effective boundary line" between the two countries.

In the course of the subsequent boundary maintenance operations, a great many monuments, especially along the St. John River, have been lost by the erosion of its banks, or affected by cultivation, road-building, and other works of man. As repairs and replacements have been made, the listing of the monuments as given in the report, published in 1925, is no longer complete. Some monuments no longer exist, others have been moved, and still others are new. On the North Line and St. John River sections of the boundary alone since 1925, 259 of the 543 monuments have required repairs; 103 have been destroyed or lost or are liable to destruction; 117 new monuments have been set to replace these and 10 monuments have been moved. This report gives, as of 1955, the listing of the monuments and reference monuments

on these two sections of the international boundary.

A second development which has led to the preparation of a special report has been the adoption of the 1927 North American datum as a basis for most geodetic surveying on this continent. Before the year 1913, geographic positions were based on more or less local datums, the most widespread being the then so-called United States standard datum. ly in 1913, the Geodetic Survey of Canada and the Comision Geodesica Mexicana adopted the United States standard datum as the basis of their triangulation nets, and the name of the datum was changed to the "North American datum". In the expansion of new nets by the geodetic surveys of the United States and Canada, it became evident that a new adjustment of the continental triangulation as a whole would be necessary. Adjustments for the formation of the new geodetic datum were first undertaken by the United States Coast and Geodetic Survey on their triangulation loop west of the 98th meridian, the resulting new datum being named the "1927 North American datum". By co-operative action with the Geodetic Survey of Canada, this datum was extended northerly along the coast of British Columbia to southeast Alaska, and subsequently it was extended easterly by the two organizations to form the basis of all geodetic surveying in the two count-Since it is undesirable to have the various sections of the boundary defined on the basis of different datums. and since it can lead to complications and confusion for other organizations and individuals conducting survey operations in the vicinity of the boundary, the Commission has adopted the 1927 North American datum wherever possible as a basis for the computation of geographic positions listed in the Commissioners' joint annual reports to their respective Governments and for distribution to interested survey organizations in the two countries. In addition, a recomputation has been, and is being, carried out to place all geographic positions on the 1927 North American datum. The geographic positions of the monuments, reference monuments, and boundary turning points on the North Line and St. John River sections are so listed in this report.

The report contains an account of the work of maintaining these sections of the boundary from 1925 to 1955, and a brief account of the surveys prior to 1925. Also included is a list of geographic positions and descriptions of the triangulation stations which form a basis for the survey of the boundary monuments. In tabular form is given a summary of monument repairs, replacements, etc., together with a summary of the personnel engaged from time to time in the work of maintaining the effective demarcation of these sections of the international boundary.



St. John River and Clair, N. B., from a point near Reference Monument S-88.

TREATY OF 1925

Article IV

Whereas, pursuant to existing treaties between the United States and Great Britain, a survey and effective demarcation of the boundary line between the United States and the Dominion of Canada through the Great Lakes and the St. Lawrence River and through the Straits of Georgia, Haro, and Juan de Fuca from the 49th Parallel to the Pacific Ocean and between Alaska and the Dominion of Canada from the Arctic Ocean to Mount St. Elias have been made and the signed joint maps and reports in respect thereto have been filed with the two Governments:

And whereas a survey and effective demarcation of the boundary line between the United States and the Dominion of Canada from the Gulf of Georgia to Lake Superior and from the St. Lawrence River to the Atlantic Ocean and between Alaska and the Dominion of Canada from Mount St. Elias to Cape Muzon are nearing completion;

And whereas boundary monuments deteriorate and at times are destroyed or damaged; and boundary vistas become closed

by the growth of timber;

And whereas changing conditions require from time to time that the boundary be marked more precisely and plainly by the establishment of additional monuments or the reloca-

tion of existing monuments;

The Contracting Parties, in order to provide 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, as established or to be established, and for the determination of the location of any point thereof, which may become necessary in the settlement of any question that may arise between the two Governments hereby agree that the Commissioners appointed under the provisions of the Treaty of April 11, 1908, are hereby jointly empowered and directed: to inspect the various sections of the boundary line between the United States and the Dominion of Canada and between Alaska and the Dominion of Canada at such times as they shall deem necessary; to repair all damaged monuments and buoys; to relocate and rebuild monuments which which have been destroyed; to keep the boundary vistas open; to move boundary monuments to new sites and establish such additional monuments and buoys as they shall deem desirable; to maintain at all times an effective boundary line between the United States and the Dominion of Canada and between Alaska and the Dominion of Canada, as defined by the present Treaty and Treaties heretofore concluded, or hereafter to be concluded; and to determine the location of any point of the boundary line which may become necessary in the settlement

of any question that may arise between the two Governments.

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.

After the completion of the survey and demarcation of the boundary line between the United States and the Dominion of Canada from the Gulf of Georgia to Lake Superior and from the St. Lawrence River to the Atlantic Ocean, as provided for by the Treaty of April 11, 1908, the Commissioners appointed under the provisions of that Treaty shall continue to carry out the provisions of this Article, and, upon the death, resignation, or other disability of either of them, the Party on whose side the vacancy occurs shall appoint an Expert Geographer or Surveyor as Commissioner, who shall have the same powers and duties in respect to carrying out the provisions of this Article, as are conferred by this Article upon the Commissioner appointed under the provisions of the said Treaty of 1908.

The Contracting Parties further agree that each Government shall pay the salaries and expenses of its own Commissioner and his assistants, and that the expenses jointly incurred by the Commissioners in maintaining the demarcation of the boundary line in accordance with the provisions of this Article shall be borne equally by the two Governments.

APPOINTMENTS OF THE COMMISSIONERS

In the years 1925 to 1955, covered by this report, five successive Commissioners have held appointments for Canada and five 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-

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, 1953The appointments of the Commissioners have been published from time to time in the official reports of the International Boundary Commission upon the establishment or reestablishment of the various sections of the boundary; all the appointments have been so published except those for the last-named Commissioners for each country. Their appointments are therefore included in this report.

MR. JOHN EARL RATZ ROSS FOR HIS BRITANNIC MAJESTY

(Sgd.) ALEXANDER OF TUNIS

(Signet)
(Sgd.) F. P. Varcoe,
Deputy Attorney General,
CANADA

CANADA

GEORGE THE SIXTH, by the Grace of God, of Great Britain, Ireland and the British Dominions beyond the Seas KING, Defender of the Faith.

To JOHN EARL RATZ ROSS, ESQUIRE, Dominion Geodesist, of the City of Ottawa, in the Province of Ontario,

GREETING:

Whereas by Article VI of a Convention concluded at Washington on the twenty-fourth day of January, one thousand nine hundred and three, between His Late Majesty King Edward VII and the United States of America, respecting the adjustment of the Boundary between Canada and the Territory of Alaska, it was provided that scientific experts should be appointed by the High Contracting Parties for the purpose of laying down the boundary line in conformity with the decision of the Tribunal constituted under the terms of Article I of the said Convention.

AND WHEREAS by a Treaty concluded at Washington on the eleventh day of April, one thousand nine hundred and eight, between His Late Majesty King Edward VII and the United States of America, respecting the Demarcation of the International Boundary between the United States of America and Canada, it was provided that Commissioners should be appointed by the High Contracting Parties to define and mark the boundary line between the United States of America and Canada in accordance with the terms of the said Treaty.

AND WHEREAS by Article IV of a Treaty concluded at Washington on the twenty-fourth day of February, one thousand nine hundred and twenty-five, between His Late Majesty

King George V and the United States of America, respecting the Boundary between Canada and the United States and Canada and Alaska, it was provided that the Commissioners appointed under the provisions of Articles I, II, III, V, VI, VII and VIII of the Treaty of the eleventh day of April, one thousand nine hundred and eight, and their successors in office, should be jointly empowered and directed to complete the survey and demarcation of the said boundary line between Canada and the United States and between Canada and Alaska, and to maintain it at all times in a state of effective demarcation.

NOW KNOW YOU that reposing special trust and confidence in your loyalty, integrity and ability, We have constituted and appointed, and We do hereby constitute and appoint you the said JOHN EARL RATZ ROSS to be Our scientific expert for the purposes of Article VI of the above mentioned Convention, and to be Our Commissioner for the purposes of the above mentioned Treaties.

TO HAVE, HOLD, EXERCISE and ENJOY the said offices unto you the said JOHN EARL RATZ ROSS with all and every the powers, rights, authority, privileges, profits, emoluments and advantages unto the said offices 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 Cousin, Harold Rupert Leofric George, Viscount Alexander of Tunis, Knight of Our Most Noble Order of the Garter, Knight Grand Cross of Our Most Honourable Order of the Bath, Knight Grand Cross of Our Most Distinguished Order of Saint Michael and Saint George, Companion of Our Most Exalted Order of the Star of India, Companion of our Distinguished Service Order, upon whom has been conferred the Decoration of the Military Cross, Field Marshal in Our Army, Governor General and Commander-in-Chief of Canada.

AT OUR GOVERNMENT HOUSE, in Our City of Ottawa, this Nineteenth day of December in the year of Our Lord One thousand nine hundred and fifty-one and in the Sixteenth year of Our Reign.

BY COMMAND,

(Sgd.) H. W. Doyle

Acting Under Secretary of State

MR. SAMUEL L. GOLAN FOR THE UNITED STATES

DWIGHT D. EISENHOWER,
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 Samuel L. Golan, of Illinois, I do appoint him the expert Commissioner on the part of the United States for the purpose of more accurately defining and marking the international boundary line between the United States and the Dominion of Canada, under the provisions of Articles I, II, III, V, VI, VII, and VIII of the treaty between the United States and Great Britain, signed at Washington on April 11, 1908, and Article IV of the treaty between the United States and Great Britain, signed at Washington on February 24, 1925, and do authorize and empower him to execute and fulfil the duties of this commission with all the powers, privileges, and emoluments thereunto of right appertaining, during the pleasure of the President of the United States.

IN TESTIMONY WHEREOF, I have caused the Seal of the United States to be hereunto affixed.

DONE at the City of Washington this thirtieth day of March, in the year of our Lord one thousand nine hundred and fifty-three, and of the Independence of the United States of America the one hundred and seventy-seventh.

DWIGHT D. EISENHOWER

(Seal)
By the President:
JOHN FOSTER DULLES,
Secretary of State

AGREEMENTS OF THE COMMISSIONERS REGARDING THE PUBLI-CATION OF VARIOUS SUPPLEMENTAL REPORTS OF THE INTER-NATIONAL BOUNDARY COMMISSION UPON THE ESTABLISHMENT OR REESTABLISHMENT OF THE BOUNDARY BETWEEN CANADA AND THE UNITED STATES AND ALASKA

At a meeting held in Washington, November 26-29, 1951, the Commissioners agreed that as soon as the proof reading of the Tongass Passage-Mount St. Elias report is completed, work shall be started on the preparation for publication of appendices to the Commission's reports in which the geographic positions of monuments, triangulation stations, etc., are based on the old North American datum; the appendices to have the said geographic positions based on the 1927 North American geodetic datum, to be made up-to-date, and to be prepared in the following order:

- Through the St. Lawrence River and Great Lakes; (1) (2) Source of St. Croix River to St. Lawrence River:
- (3) Source of St. Croix River to Atlantic Ocean;
- (4) Forty-minth Parallel to Pacific Ocean;
- (5) Arctic Ocean to Mount St. Elias.

At a meeting of the Commissioners, held in Washington, April 7-10, 1952, it was agreed that appendices containing geographic positions on the 1927 North American datum of all boundary points, boundary reference monuments and other boundary markers, triangulation stations, etc., together with descriptions of these points, should be prepared, in a method to be determined later, in a series of sectional reports to be presented to the two governments. The Commissioners reversed their decision to first proceed on the Waterways Section in favour of the St. John River Section.

At a meeting held in Ottawa, September 24-27, 1952, the Commissioners agreed that work on the appendix referred to in the 3rd agreement of the meeting of April 7-10, 1952, the St. John River section of the boundary, should be proceeded with during the coming winter, the work to be appor-tioned between the two sections of the Commission as might

conveniently be arranged.

In the matter of designating boundary monuments and reference monuments in the appendices to the various reports, it was agreed that the following rules should be followed:

When an original monument is found undisturbed. it (a) retains its original number, i.e., C-112, S-109, 172.

When an original monument is found out of place and is relocated, it bears the original number followed by the year of relocation, i.e., C-59-51, S-74-51, 170-51

When an original monument is destroyed or lost and

replaced by a new monument in a new location, it bears the original number followed by the year of construction and location, i.e., C-20-52, S-33-52, 119-52.

(d) When an original monument is in a position where it is likely to be destroyed, a new monument shall be put in a position as near as practicable to it, and bear the original number followed by the letter "A", i.e., C-59A, S-74A, 170A.

(e) Intermediate monuments shall bear the lower number of the two original monuments on each side of it followed by the letter "A", "B", "C", etc., i.e.,

151A-40. 159A. 159B.

At a meeting held in Ottawa, April 15-17, 1953, the Commissioners considered the form of the titles for special publications of the Commission under the provisions of Article IV of the Treaty of 1925. The form as agreed upon is used in the title of this report.

At a meeting held in Washington, March 25, 1954, the Commissioners agreed to continue the adjustment of the triangulation along the St. John River and the preparation of the appendix, and to undertake next the preparation of a similar report for Niagara River and Lake Erie.

At a meeting of the Commissioners, held in Ottawa.

April 26-28, 1955, it was agreed:

(1) that the narrative to accompany the North Line-St. John River report would be typed by the Canadian section, taking into account the format of the rest of the report, and forwarded to the United States section for photolithographing.

(2) that the first draft of the narrative for the special reports (i) from Niagara River to St. Clair River, and (ii) on the St. Croix River, would be checked.

(3) that the readjustment of St. Francis River triangulation upon the 1927 North American datum would be continued.

THE INTERNATIONAL BOUNDARY FROM THE SOURCE OF ST. CROIX RIVER TO ST. LAWRENCE RIVER

The international boundary line between the United States and Canada from the Source of St. Croix River to the St. Lawrence River as surveyed and marked by the International Boundary Commission acting under Article III of the treaty of April 11, 1908, is a reestablishment of the boundary as described in Article I of the treaty of August 9, 1842 (the Webster-Ashburton treaty) and as laid down under Article VI of that treaty by Commissioners Albert Smith for the United States and J. B. B. Estcourt for Canada, whose

final report bears the date of June 28, 1847.

This part of the international boundary lies between the Provinces of New Brunswick and Quebec on one side, and the States of Maine, New Hampshire, Vermont and New York on the other. For convenience in description, it was divided by the Commissioners acting under the treaty of 1842 into nine subdivisions which are each topographically different from the adjoining ones. Each of these subdivisions was given an appropriate name and these names appear on the official boundary maps of 1843-45, which maps have been used in treatises on the boundary. For this reason the descriptive names have been retained by the Commissioners appointed under the treaties of 1908 and 1925 for their subsequent reports. The name and extent of each of these subdivisions is as follows:

1. The North Line (77.6 miles)--The approximately straight line nearly due north from the source of St. Croix River to St. John River. Shown on sheets 58 to 61 of the official maps.

2. The St. John River (72.0 miles)--From its intersection with the North Line to the mouth of St. Francis River. Shown on sheets 46 to 57 of the official maps.

3. The St. Francis River (42.6 miles) -- From its confluence with St. John River to the outlet of Lake Pohenagamook. Shown on sheets 41 to 46 of the official maps.

4. The Southwest Line (64.2 miles)--The straight line from Lake Pohenagamook to the Northwest Branch of St. John River, near English Lake. Shown on sheets 35 to 40 of the official maps.

5. The South Line (19.5 miles)—The straight line from the Northwest Branch of St. John River near English Lake to the Southwest Branch of St. John River. Shown on sheets 34 and 35 of the official maps.

6. The Southwest Branch of St. John River (38.4 miles)—
From the end of the South Line to and through Little
St. John Lake. Shown on sheets 24 to 33 of the official maps.

7. The Highlands (174.6 miles)--From Monument 314 on the shore of Little St. John Lake to Monument 318 and thence along the crest of the watershed separating the waters flowing into tributaries of St. Lawrence River from those flowing into Penobscot, Kennebec, Androscoggin and Connecticut Rivers, to Monument 507 at the source of Halls Stream. Shown on sheets 14 to 23 of the official maps.

8. Halls Stream (26.6 miles)--From its source at Monument 507 to the intersection of the "Valentine-Collins" or West Line. Shown on sheets 8 to 14 of the official

maps.



Typical view of the North Line boundary showing the vista through scattered woods and farmlands. Photo taken south from Monument 15A in the fall of 1933.

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9. The West Line (154.9 miles)--The approximate forty-fifth parallel of latitude from Halls Stream to the St. Lawrence River. Shown on sheets 1 to 7 of the official maps.

As already stated, this report deals with the first and second of the above-mentioned subdivisions of the bound-

ary.

SURVEYS ON THE NORTH LINE AND ST. JOHN RIVER BEFORE THE RATIFICATION OF THE TREATY OF 1925

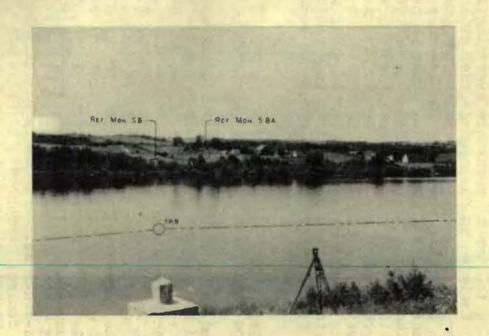
Article 1 of the Treaty of 1842 stipulated that the line of boundary for these sections should be as follows:
"---Beginning at the monument at the source of the River St. Croix, as designated and agreed to by the Commissioners under the Vth Article of the Treaty of 1794, between the governments of Great Britain and the United States, thence north, following the exploring line run and marked by the surveyors of the two governments in the years 1817 and 1818, under the Vth Article of the Treaty of Ghent, to its intersection with the River St. John; thence up the middle of the main channel of the said River St. John to the mouth of the River St. Francis;---"

The North Line was resurveyed in 1843, cleared to a width of 30 feet, and marked by cast iron posts. The most northerly of these, No. 117, is on the south bank of the St. John River. In the same year, a map was made of the St. John River and the boundary was shown thereon as a curved line. The Commissioners agreed upon the nationality of the various islands throughout the river and in 1844 these were marked by cast iron monuments reading H.B.M. Island or U.S.

Island, as the case might be.

Under Article III of the Treaty of 1908, the North Line section of the boundary was re-established, and the boundary through St. John River was established and defined. On the North Line, the cast iron monuments were re-set in concrete bases and in addition, 158 new monuments, granite posts 10 inches square in concrete bases, were set where necessary to mark the boundary at road-crossings or to give intervisibility between monuments. A 20-foot vista was cleared, and topographic maps were made on a field scale of 1:10,000 of an area approximately one-half mile wide on each side of the North Line throughout its 78-mile length.

In 1909-10 a topographic map on a field scale of 1:5,000 was made of the St. John River and a half-mile strip on either side and the boundary was laid down as a series of straight-line courses conforming as closely as was practicable to the curved line shown on the 1843 maps. Monuments, controlled by triangulation, were set on each side of the



Reference Monument C-7 on the bank of St. John River with the positions of Reference Monuments S-8 and S-8A, as indicated, on the Maine side

river to reference the turning points of the boundary.

Horizontal control on the North Line and St. John River was from a net of second-order triangulation about 180 miles in length, connected with triangulation stations "Kennedy's", "Pole Hill", and "Spring Hill", of the United States Coast and Geodetic Survey near the southern end of the North Line, and triangulation stations "Frontier" and "Park Hill", of the Geodetic Survey of Canada near Lake Pohenagamook, an ex-

pansion of St. Francis River.

Along the North Line 13 monuments averaging about 6 miles apart, were included in the second-order triangulation. To determine the positions of the remaining monuments, secondary traverse lines were run along the boundary, which were adjusted between the 13 monuments fixed in position by the triangulation. Along St. John River, a net of third-order triangulation, with quadrilateral figures, was extended from the North Line to the mouth of St. Francis River, and connected with the second-order triangulation at 15 points averaging about 5 miles apart. The sites for triangulation stations were so chosen that they would be suitable locations for monuments to reference the boundary.

REVISION OF CONTROL TRIANGULATION ON THE 1927 NORTH AMERICAN DATUM

In 1941 and 1942, the United States Coast and Geodetic Survey extended first-order control from the central Maine nets northward to the St. John River, using the Geodetic Survey of Canada first-order station "Mars Hill" as one of their stations, and tying on the north to G. S. C. first-order stations "Quisibis", and "Blue Bell", whose positions were held in the subsequent adjustment. Included in this first-order net were the following stations, first established by J. L. Rannie - "Blaine", "Presque Isle", "Van Buren", "Caswell", "Madawaska", "St. Hilaire", and "Kent", which were thus fixed by the net adjustment.

The second-order net, originally established by Mr. Rannie to give control throughout the North Line, St. John River, and St. Francis River sections, was next readjusted on the 1927 North American datum, holding the U.S.C. & G.S. first-order stations on the upper St. Croix River, and the seven stations mentioned above, and also G. S. C. stations "Frontier" and "Parke" near the head of the St. Francis

River.

The several North Line monuments and third-order triangulation stations along the St. John and St. Francis Rivers which were connected to the above-mentioned second-order net, were next put on the new datum, and these points were held in the adjustment on the 1927 North American datum of the remaining North Line monuments and the triangulation along the St. John River.

It may be noted, for example, that at the mouth of the St. Francis River the change of datum has resulted in a change of -0.52" in the latitude and -0.46" in the longitude of the reference monuments; this corresponds to a linear distance of approximately 60 feet.

MAINTENANCE UNDER THE TREATY OF 1925

In order to maintain the boundary in a state of effective demarcation as called for under Article IV of the above-mentioned treaty, the Commission periodically inspects the various sections and has an annual programme for the repair of boundary monuments, the removal of monuments to new sites where necessary, the erection and location of additional monuments, usually where new highways cross the border. the location and marking of the boundary on international bridges and in international tunnels, new surveys and the revision of boundary maps, and the reclearing of the boundary vista through forested areas. Vista reclearing is required from about once in four or five years on the Pacific coast, where the growth is rapid, to about once in eight or ten years in the east. Furthermore, the Commission maintains range lights on steel towers to indicate the boundary for long distances on the Pacific coast and lighted buoys in the fishing grounds of Lake Erie. It is of interest to note that the land sections are marked by 5,463 monuments, that a sky-line vista 20 feet in width is cut through 1,353 miles of wooded areas, and that there are an additional 2,522 reference monuments for determining the boundary through the waterways sections.

On the 5,526-mile extent of the boundary line, maintenance operations in any one year are conducted by the several parties of the United States and Canadian sections of the Commission in various areas according to the exigencies of monument deterioration, loss, or destruction, or of timber regrowth in the vista. Consequently, on any one part of the boundary, such as the North Line or the St. John River section with which this report is particularly concerned, the

work is not always continuous from year to year.

On St. John River, of late years, in addition to deterioration from natural causes, an exceptional number of boundary reference monuments have been lost or destroyed in the progress of public works in the area and by the operations of farmers. Road building has been responsible for most of the monument displacements, but several of the reference monuments were carefully moved to new sites without notification to the Commission by contractors engaged in the



Reference Monument C-100, St. John River, endangered by road improvements, was replaced in 1951 by another monument in a new location.

Solve the Transmon sale. In Front

construction of public buildings, to the consequent mystification and embarrassment of engineers who later used these monuments in their surveys. Consequent to this state of affairs, in order to bring the boundary records of that area up-to-date, a resurvey has been made of the St. John River boundary area.

On the North Line, where monument loss or deterioration has not been excessive and timber regrowth has taken place in the boundary vista at a more or less known rate, maintenance work has been more routine. Immediately following, is given an account of the field work carried out on the North

Line and St. John River sections of the line.

FIELD OPERATIONS

Season of 1927

No maintenance had been carried out on the North Line since this section of the boundary was surveyed, cleared of timber, and monumented in 1908. The work in 1927 was carried out by a field party of the Canadian section. In order to completely clear this 78-mile section of the boundary, some 64 miles of 20-foot vista were reopened. Of a total of 275 monuments inspected, 57 were found in need of repairs. Levels were run from Monument 1 to Monument 117, the elevation of the base of each monument being determined.

Chief of party: T. P. Reilly; and 7 hands.

Season of 1929

Maintenance operations on the St. John River comprised the inspection of reference monuments, the repair of some of these, and an investigation of the elevations of monu-

ments near Grand Falls, N. B.

An inspection was made of the 268 monuments which reference the turning points of the international boundary line along the St. John River. Of these, 39 which had been heaved by frost were repaired. Reference Monument 164, on the exposed lower end of Wheelock I. was found with cast iron shaft broken off by ice. Thirteen other reference monuments were found displaced by erosion or destroyed, but due to the lateness of the season only two, R.M. C-22 and R.M. C-29 could be moved to new locations. An investigation showed that a rise in the level of the St. John River above the power dam at Grand Falls, N.B., would have no effect upon existing monuments, the lowest of which would be at least 5 feet above the 427-foot level fixed by the International Joint Commission. The boundary crossings on three international bridges on the St. John River were marked with





Maine-New Brunswick Boundary, "North Line", 1933.

Left, looking north from Monument 11-B before vista was recleared.

Right, same view after vista was recleared.

bronze tablets. These bridges included the highway bridges between Van Buren, Me. and St. Leonard, N.B., Madawaska, Me. and Edmundston, N.B., and the railway bridge opposite Keegan, Me.

This work was carried out by Jesse Hill, of the United

States section.

Season of 1931

During this season, twelve new reference monuments were built along the St. John River. Eleven of these replaced monuments found destroyed or displaced by erosion in 1929, and the other replaced Reference Monument S-104. Two other reference monuments were moved. A bronze disk was set in the base of Reference Monument 164, an island monument whose shaft had been found broken in 1929. Two bronze tablets were set to mark the boundary on a new international highway bridge joining Fort Kent, Me. and Clair, N. B. On the North Line, Monument 114, which had been damaged by highway traffic was moved 6.52 meters north to a safer position.

This work was carried out by Jesse Hill of the United States section, assisted by H. S. Mussell of the Canadian

section.

Season of 1932

The triangulation upon which the coordinates of the boundary monuments and reference monuments depend was based on the old North American datum. With the adoption of the later 1927 North American datum by Canada and the United States it became desirable to obtain coordinates on the new datum of certain of the boundary triangulation stations. Accordingly, through the co-operation of the Geodetic Survey of Canada, a connection was made between boundary triangulation stations "St. Leonard", "Van Buren", "Madawaska", and "Edmundston" with "Quisibis" (G.S.C.), and the azimuth "Quisibis" - "St. Leonard" was determined.

Similarly, the azimuth of the line "Mars Hill" to

Similarly, the azimuth of the line "Mars Hill" to "Wilmot" was determined from the line "Mars Hill" - "Brighton" of Geodetic Survey of Canada primary triangulation.

This work was carried out by J. E. R. Ross, D. T. S., of the Geodetic Survey of Canada.

Season of 1933

The work of vista reclearing and monument repairing was carried out on the North Line by a party of the United States section. Vista was recleared from Monument 1 to Monument 64. Eleven monuments were found in need of repair, of



Reference Monuments C-85 and C-85A, St. John River, just before the latter was removed in 1939 for highway relocation

which three were repaired this season. During the season, special surveys were made to determine the boundary line through four buildings on the line, and 22 square miles of planetable mapping was done in the revision of boundary maps.

Chief of party: F. H. Brundage; assistant R. K. Lynt.

and 12 hands.

Season of 1936

The operations of this season were a continuation of those of 1933 on the North Line, and extended from Monument 117 at the St. John River southward to Monument 64. Since 1927, when this section was last recleared, brush and young trees had sprung up and the limbs of large trees on the sides of the vista had in many places nearly filled it, making necessary much extra cutting. In all, 31 miles of boundary were covered and 20 miles of vista were recleared. All monuments were inspected and repairs were made to 27 of them.

The work was carried out by H. S. Mussell of the Canad-

ian section.

Season of 1938

The moving of Reference Monument C-63, near Edmundston, N. B., to a new site was made necessary by the relocation of a highway.

The work was carried out by D. F. Chisholm, of the

Canadian section.

Season of 1939

A party of the Canadian section carried out inspection and maintenance operations on the St. Francis and St. John rivers and inspection on the North Line this season.

On the St. John River, all reference monuments were inspected and three of these were repaired. Eight others were rebuilt in new locations. Recovery was made of ten stations of the control triangulation on the St. John River and the descriptions were revised. At eight of these stations, stone cairns were left to facilitate their recovery. Six other triangulation stations could not be found and were probably destroyed.

Chief of party: D. F. Chisholm, and 7 hands.

Season of 1940

A party of the Canadian section again carried out maintenance operations on the St. John River and North Line sections. On the St. John River, 21 monuments between Edmundston, N.B., and Monument 117 at the north end of the North



Reference Monument C-37, St. John River, damaged by frost, and obstructed by a building



Reference Monument C-37A, established in 1940 to replace Reference Monument C-37

Line were rebuilt on new sites, as the original monuments had been lost or displaced either by erosion of the river banks or excavations for gravel. Fifteen planetable sketches were made showing topographic features and changes in the course of the river.

An inspection was also made of the second-order triangulation stations along the North Line. Ten such stations were recovered and marked more conspicuously by cairns, seven could not be found, and four, being covered by snow were not recovered. The party cleared a 20-foot vista along the 78-mile length of the line, inspected 274 monuments, and made repairs to 33 of them which were damaged. One new monument, No. 113-B was set on the south side of the Hamlin - Grand Falls highway to pair with No. 114 in marking the intersection of the highway by the boundary.

Chief of party: D. F. Chisholm; and 11 hands.

Season of 1950

A party of the United States section carried out 42 miles of vista reclearing from Monument 1 to Monument 60A on the North Line. Inspection was made of 133 monuments, of which 8 were found in need of repairs. A shortage of cement prevented the carrying out of repairs this season. Of 30 triangulation station sites inspected, recovery was made at 19 stations.

Chief of party: N. W. Smith; and 6 hands.

Season of 1951

A preliminary inspection of some 20 reference monuments on the St. John River in 1950 had shown 8 in need of repairs and had indicated the need for maintenance at an early date. The work in 1951 consisted of the inspection of reference monuments, the rebuilding of those which were damaged, the construction where necessary of new monuments and the determination of their geographic positions. It included also the re-determination of the positions of some of the old monuments that had been plumbed or otherwise disturbed. During the season, 262 monuments were inspected, 83 were repaired. 3 were rebuilt and 51 were moved or had been moved. Of these, 44 were new monuments on new sites, 5 were plumbed and their positions re-determined, and one, Reference Monument 170, was moved to a new site. The position of Reference Monument S-84 was re-determined. Boundary tablets were inspected and found in good condition on the railroad bridge opposite Keegan, Me. and on the highway bridges joining Fort Kent, Madawaska, and Van Buren, Me. with Clair, Edmundston, and St. Leonard, N. B., respectively.

Chief of party: Nelson W. Smith; and 5 hands.



Reference Monument C-65-51, a bronze tablet set in a concrete pier 1 by 1 by 3 feet, placed at edge of the road allowance. View is east across St. John River valley towards Maine.

Season of 1952

Maintenance operations were carried out on the North Line and St. John River sections this season by a party of the United States section with a Canadian representative. Vista reclearance on the North Line which had been suspended in 1950 at Monument 60A was resumed on May 12 by one section of the party which worked from Monument 117 at the St. John River southward to Monument 60A. Of the 86 monuments inspected in the course of this work, 36 were repair-Of eight monuments south of No. 60A which were not repaired in 1950, four were repaired this season and one. Monument 57, was replaced by a new monument in a new location. In all, some $29\frac{1}{2}$ miles of vista were recleared by August 20th when this section of the party joined the other which had been working on the St. John River. The work along the river was a continuation of the operations begun in 1951. In the course of the work on this section. 143 reference monuments were inspected, 18 were repaired, 5 were plumbed and their positions re-determined, 16 reference monuments were built in new sites and 5 were moved to more suitable sites, while 7 subsidiary markers were constructed near reference monuments liable to disturbance. The positions of 56 monuments were determined by triangulation. Monument No. 120A, on King's Island was lost by erosion and not replaced. It had been set in 1940 to replace Monument 120, also lost through the same cause.

Chief of party: Nelson W. Smith; Canadian represent-

ative, W. M. Smith; and 7 hands.

Season of 1953

During part of this season two members, one from each section of the Commission, inspected reference monuments on the St. John River section and moved two which were in danger of being lost. To establish minimum control for use of aerial photographs in revising topography on this section, ties were made from certain reference monuments to nearby road intersections and other easily identified features.

This work was carried out by R. K. Lynt of the United States section and D. F. Chisholm of the Canadian section.

Season of 1954

In connection with its maintenance work on various sections of the Northeast boundary this season, a party of the United States section under R. K. Lynt replaced eight of the St. John River monuments which had been disturbed and determined their new geographic positions.



Reference Monument S-79-51 as found in 1953. Old Reference Monument S-79 is in the pasture.



Reference Monument S-79-53 set in new location on railway property.

SUMMARY OF MAINTENANCE OPERATIONS

THE NORTH LINE

Year	Boundary	Line Inspected	Monuments Inspected	Monuments Repaired	Monuments	New Monuments Established	Mon's Lost or Destroyed	Miles of Vista Recleared	Engineer in Charge and Section of Commission
1927	78	mi.	275	57				64	T.P.Reilly Canada
1931					1				Jesse Hill United States
1933	46	mi.	159	3				36	F.H.Brundage United States
1936	31	mi.	116	28				20	H.S.Mussell Canada
1940	78	mi.	274	33		1		64	D.F.Chisholm Canada
1950	45	mi.	133				1	42	N.W.Smith United States
1952	33	mi.	86	44		1		291	N.W.Smith United States

		SUM	MARY OF PERSON	NEL ENGAGED	
Year	Location of Work	Section	Vista		
1927	North Line	Canadian	T.P.Reilly	T.P.Reilly	
1929	St. John R.	United States	Jesse Hill		
1931	St. John R.	United States	Jesse Hill		
1932	North Line	Canadian			
	St. John R.	Canadian			
1933	North Line	United States	F.H.Brundage	F. H. Brundage	
1936	North Line	Canadian	H.S.Mussell	H.S.Mussell	
1938	North Line	Canadian			
1939	North Line	Canadian			
	St. John R.	Canadian	D.F.Chisholm		
1940	North Line	Canadian	D.F.Chisholm	D.F.Chisholm	
4 1 9	St. John R.	Canadian	D.F.Chisholm		
1950	North Line	United States	N. W. Smith	N.W.Smith	
1951	St. John R.	United States	N.W.Smith		
1952	North Line	United States	N.W.Smith	N.W.Smith	
		Canadian		W.M.Smith	
	St. John R.	United States	N.W.Smith		
		Canadian	15 5		
1953	St. John R.	United States	R.K.Lynt		
		Canadian			
1954	St. John R.	United States	R.K.Lynt		

Triangulation	Monumenting	Topography	Inspection
	T.P.Reilly	41 3 1 1 1	T.P.Reilly
	Jesse Hill		Jesse Hill
	H.S.Mussell		Jesse Hill
J.E.R.Ross			
J.E.R.Ross	Paragraph 3		
	F. H. Brundage	R.K.Lynt	F. H. Brundage
	H.S.Mussell		H.S.Mussell
	D.F.Chisholm		
			D.F.Chishol
D.F.Chisholm	D.F.Chisholm		D.F.Chishol
D.F.Chisholm	D.F.Chisholm		D.F.Chisholi
	D.F.Chisholm	D.F.Chisholm	D.F.Chishol
N.W.Smith			N.W.Smith
N.W.Smith	N.W.Smith		N.W.Smith
N.W.Smith	N.W.Smith		N.W.Smith
R.J. Pearce	N.W.Smith		N.W. Smith
W.M. Smith			
	R.K.Lynt	R.K.Lynt	R.K.Lynt
	D.F.Chisholm	D.F.Chisholm	D.F.Chisholm
	R.K.Lynt	2 2 1	R.K.Lynt

SUMMARY OF MAINTENANCE OPERATIONS

THE ST. JOHN RIVER

Year	Monuments Inspected	Monuments Repaired	Monuments Moved	New Monuments Established	Mon's Plumbed with positions Re-determined	Positions Determined	Mon's Lost or Destroyed	Engineer in Charge and Section of Commission
1929	268	39	2	6			11	Jesse Hill United States
1931		1		13			0	H.S.Mussell Canada
1938			1					D.F.Chisholm Canada
1939	268	3		8			8	D.F.Chisholm Canada
1940				21			21	D.F.Chisholm Canada
1950	20							N.W.Smith United States
1951	262	86	1	44	6	81	36	N.W.Smith United States
1952		18	5	23	5	56	26	N.W.Smith United States

ELEVATIONS AND DESCRIPTIONS OF BENCH MARKS

Precise levelling has been done by the Geodetic Survey of Canada along the railroads on the New Brunswick side of the boundary. The United States Coast and Geodetic Survey has run second class levels in Maine along the Bangor and Aroostook Railroad from Danforth to Fort Kent via Van Buren and along the highway from Fort Fairfield to Van Buren by way of Hamlin. The United States Geological Survey levels cover the same territory by roads and also west from Fort Kent to St. Francis. Numerous bench marks were established along the various level routes. Those described below were the ones most apt to be of use along the International Boundary in the future. All elevations are in feet on the sea level datum of 1929, but the U. S. Geological Survey elevations are largely unadjusted.

UNITED STATES COAST AND GEODETIC SURVEY THE NORTH LINE

Y 20.--About 9-1/2 miles south along U.S. Highway 1 from the post office at Houlton, Aroostook Co., and about 125 feet north of the residence of Byron Alexander, in a field on the north side of the house, about 40 feet west of the center line of the highway, in the top of the only 5-by-10 foot boulder in the field, about 1-1/2 feet higher than the highway. A standard disk, stamped "Y 20 1933." (435.367 feet)

Z 20.--About 7-1/2 miles south along U.S. Highway 1 from the post office at Houlton, Aroostook Co., about 500 feet south of the farmhouse of E. Esterbrook, about 20 yards east of the center line of the highway, and about 20 yards from pole 308, in the top of a 6-by-8 foot granite boulder, about 3 feet higher than the ground. A standard disk stamped "Z 20 1933." (530.245 feet)

A 21.--About 5.6 miles south along U.S. Highway 1 from the post office at Houlton, Aroostook Co., about 465 yards north of a schoolhouse, about 65 yards north of the farmhouse of H. M. Sherman, and about 31 yards south of pole 401-235, at the concrete skew bridge over the South Branch of Meduxnikeag River, in the top of the northeast wing wall. A standard disk, stamped "A 21 1933." (483.437 feet)

B 21.--About 3.5 miles south along U.S. Highway 1 from the post office at Houlton, Arosstock Co., about 130 yards south of a frame schoolhouse, about 65 yards north of the E.B. Jones Socony filling station, about 15 yards northeast of pole 401-150, and about 17 yards east of the center line of the highway, in the top of a rock outcrop, about 2 feet higher than the highway. A standard disk, stamped "B 21 1933." (581.341 feet)

D 21.--At Houlton, Aroostook Co., in the east wall of the old brick post office building, about 20 feet south of the main entrance, about 7 inches north of the southeast corner, and 4.7 feet above the level of the lawn. A standard disk, stamped "D 21 1933" and set vertically. (365.957 feet)

- G 21.—About 3.6 miles north along the Bangor and Aroostook Railroad from the station at Houlton, Aroostook Co., about 0.8 mile north of milepost 169, 30 feet east of the center line of the track, and about 1 foot higher than the top of the rail. A standard disk, stamped "G 21 1933" and set in the top of a concrete post. (410.439 feet)
- J 21.-At Littleton, Aroostook Co., on the Bangor and Aroostook Railroad, about 170 feet north of the north end of the station, about 170 feet south of a road crossing, about 18 yards west of the center line of the main track, and about 2 feet lower than the track. A standard disk, stamped "J 21 1933" and set in the top of a concrete post. (443.585 feet)
- L 21.--At Monticello, Aroostook Co., about 645 feet north of the Bangor and Aroostook Railroad station, at the north switch to a sidetrack, 20 feet east of the track, 10 feet south of the line of the north end of a row of the Atlantic Commission Co. potato shipping houses, and about 1/2 foot higher than the top of the rail. A standard disk, stamped "L 21 1933" and set in the top of a concrete post. (477.099 feet)
- N 21.--At Harvey, Aroostook Co., about 120 feet northeast of the Bangor and Aroostook Railroad station, 35 feet northeast of the center line of the track, about 15 feet north of a dirt road crossing, in the top of a 3-by-4 foot boulder, and about 2 feet lower than the top of the rail. A standard disk, stamped "N 21 1933". (546.843 feet)
- Q 21.RESET. -- At Bridgewater, Aroostook Co., about 0.3 mile north of the Bangor and Aroostook Railroad station, about 730 feet south of milepost 190, about 700 feet north of the crossing of U.S. Highway 1, 40 feet north of a section house. 48 feet west of the center of a dirt road crossing. 42.8 feet northwest of the northwest rail, and 1.5 feet southeast of a board fence. A standard disk, stamped "Q 21 1933" and set in top of a concrete post. (428.766 feet)
- R 21.—About 1.2 miles south along the Bangor and Arocstook Reilroad from the station at Robinson, Aroostook Co., about 144 feet northeast of and opposite milepost 192, about 25 yards north of the north end of a siding, about 10 yards north of a wagon road crossing, about 6 yards east of the center line of the track, and about 2 feet lower than the top of the rail. A standard disk, stamped "R 21 1933" and set in the top of a concrete post. (392.558 feet)
- T 21.--At Mars Hill, Aroostook Co., about 120 yards south of the Bangor and Aroostook Railroad station, about 400 yards north of milepost 196, about 25 yards east of the Hovey and Co. warehouse, about 12 yards west of the center line of the main track, in the face of the east end of the southernmost concrete foundation wall of the Gulf gasoline storage tank, and about 6 feet higher than the top of the rail. A standard disk, stamped "T 21 1933" and set vertically. (434.684 feet)

About 0.3 mile north of the station at Mars Hill, top of rail of the Bangor and Aroostook Railroad at the center line of the crossing of U.S. Highway 1. (452.332 feet)

W 21.-At Westfield, Aroostook Co., about 0.2 mile north of the Bangor and Aroostook Railroad station, about 570 feet north of a dirt road crossing, 18 feet east of the center line of the track, in the top of a 3-by-4 foot boulder, and about 3 feet lower than the rail. A standard disk stamped "W 21 1933." (454.258 feet)

FORT FAIRFIELD. -- At Fort Fairfield, Aroostook Co., in the northwest wall of the post office, 2 feet from the northwest corner, and about 3 feet above ground. A standard disk, stamped "FORT FAIRFIELD 1935" and set vertically. (369.665 feet)

T 55.--About 2.2 miles north along State Highway 165 from the post office at Fort Fairfield, Aroostook Co.. about 0.7 mile south of the Ridge School, about 87 feet south of the center line of a 12-inch corrugated iron culvert with concrete head walls, 24 feet east of the center line of the highway, about 125 feet northwest of the northwest corner of a large unpainted barn, and at the point of a 5-foot offset in a fence. A standard disk, stamped "T 55 1935" and set in the top of a concrete post projecting about 6 inches above ground. (486.767 feet)

E 57.--About 4.6 miles north along State Highway 165 from the post office at Fort Fairfield, Aroostook Co., thence about 1.2 miles east along a road, 15 feet east of the center line of the road, 13 feet southwest of a pole, in the center of the west face of the concrete foundation of U. S.-Canada International Boundary monument 87 B, and 3 inches from the top of the base. A standard disk, stamped "E 57 1935" and set vertically. (603.319 feet)

R 55.--About 4.6 miles north along State Highway 165 from the post office at Fort Fairfield, Aroostook Co., about 0.9 mile south of the Blaisdell School, about 200 yards south of the center of the junction of a side road leading east, about 100 yards north of the crest of a hill, about 170 feet northwest of the northwest corner of a 1-1/2 story white farmhouse, 58 feet southeast of a pole, 34 feet east of the center line of the highway, and 5 feet west of the wire fence. A standard disk, stamped "R 55 1935" and set in the top of a concrete post projecting about 4 inches above ground. (560.373 feet)

P 55.--About 3.8 miles south along State Highway 165 from the post office at Limestone, Aroostook Co., 20 feet south of the south rail of the Bangor and Aroostook Railroad track, and 32 feet east of the center line of the highway. A standard disk, stamped "P 55 1935" and set in the top of a concrete post. (482.105 feet)

L 12 (U.S.G.S.).—About 2.2 miles south along State Highway 165 from the post office at Limestone, Arcostook Co., about 0.2 mile northwest of the Limestone-Fort Fairfield town line, at Four Corners, about 120 feet north of the center of a right angle curve, 29 feet east of the center line of the highway, and 5.5 feet east of the wire fence. A U.S. Geological Survey standard disk, stamped "L 12 1930" and set in the top of a concrete post projecting about 4 inches above ground. (536.744 feet)

- D 57.--About 1.8 miles east along the International Boundary road from the grade school at Limestone, Aroostook Co., and in the top of the center of the west face of the concrete base of U.S.-Canada International Boundary monument 95B. A standard disk stamped "D 57 1935." (651.117 feet)
- C 57.--About 1.3 miles east along the International Boundary road from the grade school at Limestone, Aroostook Co., 21 feet north of the center of the crossing of a north-and-south road, 10.3 feet south of the center line of the road, and 4.3 feet north of a pole. A standard disk, stamped "C 57 1935" and set in the top of a concrete post projecting about 4 inches above ground. (653.014 feet)
- K 55.--At Limestone, Aroostook Co., about 165 feet east of the east face of the grade school, 30 feet south of the center line of a driveway to the building, 29 feet southeast of a pole, and 29 feet west of the center line of State Highway 165. A standard disk, stamped "K 55 1935" and set in the top of a concrete post projecting about 4 inches above ground. (616.744 feet)
- J 55.-At Limestone. Aroustook County, in the top of the north end of the east head wall of a concrete bridge over Limestone Creek. 8 inches from the north end, and 20 feet north of the center line of State Highway 165. A standard disk, stamped "J 55 1935." (521.429 feet)
- G 55.--About 2.7 miles north along State Highway 165 from the post office at Limestone, Aroostook Co., about 75 yards north of the center of the junction of a side road leading east, 59.5 feet east of the C. W. Adams farmhouse, on the projected north line of the house, and 25 feet west of the center line of the highway. A standard disk, stamped "G 55 1935" and set in the top of a concrete post. (718.246 feet)
- B 57.--About 5.9 miles northwest along State Highway 165 from the post office at Limestone, Aroostook Co., thence about 1.0 mile east along a farmroad, in the center of the base at the west side U.S.-Canada International Boundary monument 104 A. A standard disk, stamped "B 57 1935" and set vertically. (775.930 feet)
- C 55.--About 5.9 miles south along State Highway 165 from the junction with the Grand Falls road at Hamlin, Arcostook Co., about 1.0 mile north of Pleasant Ridge School, 27 feet southeast of the center of the junction of a road leading southwest, 24 feet east of the center line of the highway, and 1.5 feet northwest of the pasture fence. A standard disk, stamped "C 55 1935" and set in the top of a concrete post projecting about 8 inches above ground. (741.944 feet)
- L 7.(U.S.G.S.).--About 2.6 miles south along State Highway 165 from the junction with the Grand Falls road at Hamlin, Aroostook Co., in the east concrete foundation wall of the Berube School, 4 inches from the southeast corner, and about 1-1/2 feet above ground. A U.S. Geological Survey standard disk, stamped "L 7 1930" and set vertically. (746.583 feet)

Y 43.--About 1.2 miles south along State Highway 165 from the junction with the Grand Falls road at Hamlin, Arocstook Co., about 90 yards southwest of the first curve south of Hamlin, 4.7 feet south of the Hamlin-Caswell town-line sign and 25 feet east of the center line of the highway. A standard disk, stamped "Y 43 1935" and set in the top of a concrete post projecting about 8 inches above ground. (782.925 feet)

A 57.--About 0.4 mile southeast along the Grand Falls road from the junction with State Highway 165 at Hamlin, Aroostook Co., 20 feet east of the center line of the road, and in the top of the south face of U.S.-Canada International Boundary monument 114. A stendard disk, stamped "A 57 1935". (545.901 feet)

UNITED STATES GEOLOGICAL SURVEY BENCH MARKS AND ELEVATIONS THE NORTH LINE

Houlton, P.O., 3 miles east of, on U.S. Route No. 2 (U.S.-Canada boundary), 35 feet south of center line of highway, 10 feet east of Canadian Custom House, on north side of Monument Post 18-A where monument joins base; painted square, painted "U.S.B.M. 494.7". (494.72 feet)

GEODETIC SURVEY OF CANADA THE NORTH LINE

20-B (G.S.C.), in northern face of northwesterly concrete footing of water tank at Debec, 30 feet west of track, 3/4 inch copper bolt set horizon-tally 5 inches below top of footing. (548.303 feet)

21-B (G.S.C.), on Houlton branch of railway, 4-1/2 miles west of Debec and 3-1/2 miles southeast of Houlton, 12th post east from International Boundary, 15 feet north of track; 3/4 inch bolt set horizontally in south face of boulder. (544.517 feet)

Monument 14A, 22B (G.S.C.), 30 feet southerly from southerly limit of right-of-way; 3/4 inch copper bolt set horizontally in north face of monument. (530.207 feet)

Wakefield triangulation station, 1.8 miles southwest of Lindsay, about 3 miles east of Mon. 28A, trigonometric elevation 546.0 feet.

WILMOT triangulation station. 1.5 miles NW of Lakeville, 4 miles east of Mon. 37. trigonometric elevation 610.6 feet.

Centreville, C.N.R., about 2-1/2 miles east of Mon. 45-B, top of rail opposite station. (341 feet)

Wicklow triangulation station, 4.2 miles south of Beechwood, trigonometric elevation 933.1 feet.

37-B (G.S.C.), plate girder bridge at Muniac siding, west end of south face of north stone abutment, 3/4 inch copper bolt set horizontally in fourth course above bridge seat. (237.570 feet)

Andover triangulation station, about 3 miles west of Muniac siding, trigonometric 1084.6 feet.

41-B (G.S.C.), bridge over Aroostook River, 1/2 mile north of Aroostook Ry. Station, 3/4 inch copper bolt set horizontally in west face of south abutment, 9 inches below top. (279.277 feet)

Monument 82, 42-B (G.S.C.), about 4-3/4 miles southwest of Aroostook, 40 feet north of track of Presque Isle branch of C.P.R. and at north side of road from Aroostook to Fort Fairfield, 3/4 inch bolt set horizontally in south face of concrete base. (373.050 feet)

44-B (G.S.C.), at mileage 8.7 from Aroostook and 75 feet north of south switch at Limestone siding, 180 feet north of a road crossing, 15 feet west of track, 3/4 inch copper bolt set horizontally in south face of boulder. (334.700 feet)

46-B (G.S.C.), in west face of corner stone of south transept at southwest corner of Roman Catholic church, Grand Falls, N.B., 5th course below water table 3/4 inch copper bolt set horizontally. (513.089 feet)

47-B (G.S.C.), C.P.R. bridge 1-1/2 miles northwest of Grand Falls, in rear on northwest face of ballast wall on top of north abutment, 6 inches below top and 4-1/2 feet east of east rail, 3/4 inch copper bolt set horizontally. (467.669 feet)

290-B (G.S.C.), C.N.R. steel trestle viaduct over Little River, 1-3/4 miles east of Grand Falls, in west face of north concrete retaining wall at west end of viaduct, 4 inches below top, 3/4 inch copper bolt set horizontally. (608.429 feet)

UNITED STATES COAST AND GEODETIC SURVEY ST. JOHN RIVER

X 43.--At Hamlin, Aroostook Co., about 145 feet northwest of the center of the junction of State Highway 165 and the Grand Falls road, 26 feet northeast of the center line of the highway, 14.4 feet southeast of the nearest one of two poles, and 2 feet northwest of the wire fence. A standard disk, stamped "X 43 1935" and set in the top of a concrete post projecting about 5 inches above ground. (536.849 feet)

L 2 (U.S.G.S.).--About 3.5 miles northwest along State Highway 165 from the junction of the Grand Falls road at Hamlin, Aroostook Co., in the north concrete foundation wall of a large barn, 6 inches from the ME corner, about 180 feet east of the center line of the highway, and about 4-1/2 feet above ground. A U.S.Geological Survey standard disk, stamped "L 2 1931" and set vertically. (470.819 feet)

T 43.--About 4.7 miles southeast along State Highway 165 from the post office at Van Buren, Aroostook Co., about 0.6 mile southeast of the junction of a side road leading west, 24 feet southwest of the center line of the highway, 18 feet south of pole 3+185, and in the east face of the Canada-United States International Boundary monument No. S-13-31. A standard disk, stamped "T 43 1935" and set vertically. (468.194 feet)

Q 43.--About 2.3 miles southeast along State Highway 165 from the post office at Van Buren, Aroostook Co., midway between two concrete foundations of a small electric power station, 38 feet west of the center line of the highway, and 3.1 feet west of a pole. A standard disk, stemped "Q 43 1935" and set in the top of a concrete post projecting about 3 inches above ground. (458.204 feet)

N 43.--At Van Buren, Aroostook Co., about 100 feet west of the center of the junction of U.S. Highway 1 and State Highway 165, 8.8 feet south of a crossing sign, 29 feet south of the center line of U.S. Highway 1, 26 feet west of the west rail of the Bangor and Aroostook Railroad main track, and 2.3 feet east of the east edge of the concrete walk leading to the C.A. Cagnon office. A standard disk, stamped "N 43 1935" and set in the top of a concrete post projecting about 3 inches above ground. (493.798 ft.)

M 43.--At Van Buren, Aroostook Co., in the north wall of the post office (Keegan Building), 1 foot from the northwest corner, and about 1-1/2 feet above ground. A standard disk, stamped "M 43 1935" and set vertically. (493.762 feet)

U 22.-At Van Buren, Aroostook Co., about 50 yards south of the Bangor and Aroostook RR. station, about 25 yards southwest of the freight house, about 25 yards west of the main track, in the east wall of a potato warehouse, about 2 yards north of entrance 13, 1 foot south of the northeast corner of the building, and about 4 feet above ground. A standard disk, stamped "U 22 1933" and set vertically. (502.342 feet)

458.5 (U.S.G.S.).-At Van Buren, Aroostook Co., about 0.7 mile north of the Bangor and Aroostook RB. station, at mileage V 0.66 on the top of the northeast end of a bridge over a small stream, 7 feet north of the center line of the track, and about level with the top of the rail. A chiseled square, marked "458.5." (458.654 feet)

V 22.--At Keegan, Aroostook Co., about 700 feet west of the Bangor and Aroostook RR. station, 40 feet south of the center line of the main track, and in the northeast corner of a potato storage warehouse, about 3 feet higher than the track. A standard disk, stamped "V 22 1933" and set vertically. (452.332 feet)

X 22.--About 8.5 miles northwest along the Bangor and Aroostook RR. from the station at Van Buren, Aroostook Co., at the Van Buren district school, on the land of Napoleon Martin, about 47 yards north of the center line of the track, and in the face of the chimney on the rear end of the school, about 2 feet above ground. A standard disk, stamped "X 22 1933" and set vertically. (460.849 feet)

- 462.0 (U.S.G.S.).--About 14.3 miles northwest along the Bangor and Arostock RR. from the station at Van Buren, Arostock Co., about 10.9 miles south of Madawaska, at station 13.86, about 30 yards west of the track, about 10 yards east of U.S. Highway 1, and on the top of the south end of the east head wall of a concrete culvert. A chiseled square, marked "USGS 462.0." (461.876 feet)
- 49 (I.B.C.).--About 18.3 miles northwest along the Bangor and Broostook RR. from the station at Van Buren, Aroostook Co., about 8 yards west of the southwest corner of a small graveyard, about 50 yards west of the track, about 5 yards east of the center line of U.S. Highway 1, and level with the highway grade. An I.B.C. standard mark, stamped "S-49 IBC" and set in the apex of a concrete monument. (498.841 feet)
- B 23.--At St. David, about 300 yards south of the Bangor and Aroostook RR. station, about 12 yards east of the center-line of the track, in the face of the concrete foundation of a potato warehouse, 1 foot south of the northeast corner, and about 2 feet higher than the track. A standard disk, stamped "B 23 1933" and set vertically. (483.641 feet)
- D 23.--At Madawaska, Aroostook Co., in the north wall of the Bangor and Aroostook RR. station, I foot from the east end, about 12 yards south of the center line of the track, and about 4-1/2 feet above the station platform. A standard disk, stamped "D 23 1933" and set vertically. (510.156 feet)
- 503.9 (U.S.G.S.).--At Madawaska, Aroostook Co., on the Bangor and Aroostook RR. at the International Bridge leading across the U.S.-Canadian border, on the top of the southeast corner of the concrete footing of the customs house entrance to the bridge, about 10 yards north of the center line of the track, and about 1 foot higher than the track. A chiseled square, marked "503.9." (503.880 feet)
- 498.1 (U.S.G.S.).--At Frenchville, Aroostook Co., on the northeast corner of the concrete porch of the branch office of the Van Buren Trust Co., about 30 yards south of the track, about 15 yards north of the center line of U.S. Highway 1, and 1 foot lower than the highway. A chiseled square. (498.152 feet)
- MR 10 (U.S.G.S.).—At Frenchville, Aroostook Co., at the northwest corner of the schoolhouse grounds, about 40 yards north of the northwest corner of the building, about 12 yards south of the center line of U.S. Highway 1, about 2 yards south of the center line of the sidewalk, and about 6 inches higher than the sidewalk. A U.S. Geological Survey standard disk, stamped "MR 10 1927" and set in the top of a concrete post. (500.934 feet)
- G 23.--At St. Luce, Aroostook Co., about 654 feet east of the Bangor and Aroostook RR. station, about 30 yards south of the center line of the main track, and in the north concrete wall between potato houses 5 and 6, about 4 feet higher than the track. A standard disk, stamped "G 23 1933" and set vertically. (500.678 feet)

76 (I.B.C.).—About 5.5 miles east along the Bangor and Aroostook RR. from the station at Fort Kent, Aroostook Co., about 305 yards south of milepost 38, about 310 yards north of the crossing of U.S. Highway 1, about 12 yards east of the center line of the highway, and about 12 yards west of the track. An I.B.C. standard mark stamped "S-76 IBC" and set in the apex of a concrete monument. (526.403 feet)

77 (U.S.& C.B.S.).--About 5-3/4 miles northeast along the Bangor and Aroostook RR. from Fort Kent, Aroostook Co., about 1/4 mile west of a road crossing, in a small field, about 65 feet south of the south rail and 32 feet north of the center line of the highway. An iron rod in the apex of boundary monument S-77. (541.984 feet)

A 10.-At Fort Kent, Aroostook Co., 9 rails north of the north end of the Bangor and Aroostook RR. station, 8 feet east of the east side of a cafe, 27 feet west of the west rail, and 2 feet east of a point 3 feet north of a corner of the right-of-way fence. A standard disk stamped "A 10 1927" and set in the top of a concrete post. (530.297 feet)

UNITED STATES GEOLOGICAL SURVEY BENCH MARKS AND ELEVATIONS ST. JOHN RIVER

Van Buren, 3.5 miles west of, bronze disk in base of International Boundary Mark No. S-32. (522.024 feet)

Notre Dame, 0.8 mile southeast of, top of International Boundary Reference Monument No. S-40. (462.102 feet)

St. David Church, 0.36 mile east of, north of highway, boundary reference monument No. S-54 (top broken off) highest point, painted square, painted "529.5" (I B M U S 54 1909). (529.499 feet)

Upper Frenchville, 0.8 mile east of church, 640 feet SW of T-rd. S., on top of International Boundary reference monument "S-71 1910" (0.5 inch of apex broken off) top of iron reenforcement rod, painted "B M 562.4". (562.393 feet)

St. Francis post office. 0.9 mile east of, 40 feet north of road, in west end of second concrete step at south entrance to Presbyterian Church; bronze tablet stamped "R 11 1929", painted "P.B.M. 572.6". (572.736 feet)

GEODETIC SURVEY OF CANADA ST. JOHN RIVER

- 4g-B (G.S.C.), 2 miles SE of Bellefleur station and at mileage 80.9 from Napadogan, 3/4 inch copper bolt set horizontally in SW face of small concrete arch culvert, 10 inches below top. (497.268 feet)
- 49-B (G.S.C.), C.N.R., 2 miles NW of Bellefleur station and at mileage 84.8 from Mapadogan, 400 feet south of C.N.R.-C.P.R. diamond crossing, 3/4 inch copper bolt set horizontally in NE face of small concrete arch culvert, 6 inches below top and 1 foot north of water passage. (442.594 feet)
- 50-B (G.S.C.), C.P.R., 2-1/4 miles NW of St. Leonard station at mileage 33.4 from Aroostook, 3/4 inch copper bolt in NE face of south concrete abutment, 6 inches below top. (449.079 feet)
- St. Leonard, C.M.R., C.P.R., top of rail opposite center of station. (467 feet)
- Quisibis River, 1.13 miles NW of Quisibis, top of rail on bridge. (457 feet)
- 58-B (G.S.C.), Temescouata railway bridge over Madawaska River, 3/4 inch copper bolt set horizontally in north face of north stone retaining wall at west end of bridge, second course below bridge seat. (473.566 feet)
- 59-B (G.S.C.), subway under C.H.R., 300 feet west of bridge over Madawaska River, 3/4 inch copper bolt set horizontally in MW face of north concrete wing wall at east side of subway, about 2 feet above roadway. (461.741 ft.)
- 60-B (G.S.C.), 140 feet west of west wall of C.P.R. station Edmunston, N.B., 3/4 inch copper bolt set horizontally in south face of rock side cut, 3 feet above track level. (482.866 feet)
- 57-B (G.S.C.), 2 miles east of C.P.R. station Edmunston, N.B., between fifth and sixth poles west of mile post 55 from Aroostook, 100 feet N of northerly limit of C.P.R. right of way, 3/4 inch copper bolt set horizontally in south face of rock surface about 10 feet in height. (511.871 ft.)
- 260-B (G.S.C.), 2-1/2 miles west of C.N.R. station Edmunston, N.B. and directly below a trestle on the Temiscouata railway, 3/4 inch copper bolt set horizontally in west face of south facewall of large concrete arch culvert under railway, 15 inches below top. (470.466 feet)
- 61-B (G.S.C.), 2-1/2 miles NW of C.M.R. station Edmunston, N.B., 3/4 in. copper bolt set horizontally in SW face of stone coping on west retaining wall at south end of Temiscouata railway bridge, at abutment end of retaining wall. (485.135 feet)

261-B (G.S.C.), C.N.R., 1-1/2 miles north of Albertine station and at mileage 5.7 from Edmundston, 3/4 inch copper bolt set horizontally in north face of west wall of large concrete arch culvert, 15 inches below top. (488.517 feet)

262-B (G.S.C.), C.N.R., 1 mile west of Albertine station, between second and third poles west of mile post 8 from Edmundston, 270 feet west of a road crossing, 3/4 inch copper bolt set horizontally in north face of small concrete arch culvert. (497.308 feet)

263-B (G.S.C.), 1-1/4 miles east of Baker Brook, N.B. station, at second pole west of mile post 11 from Edmundston, 1/2 mile east of C.N.R.Temiscouata railway junction, 3/4 inch copper bolt set horizontally in east face of coping on south end of large concrete culvert, 1 foot below top. (493.517 feet)

264-B (G.S.C.), 1/4 mile west of Baker Brook, N.B., station, 5-1/2 feet east of east rail, 3/4 inch copper bolt set horizontally in south or rear face of east concrete abutment of plate girder bridge, 8 inches below top. (514.440 feet)

265-B, C.N.R., 3/4 mile south of Caron Brook, N.B. station, at mileage 15.3 from Edmundston, 3/4 inch copper bolt set horizontally in south face of coping on west end of concrete arch culvert. (579.571 feet)

Clair, C.N.R., top of rail opposite center of station. (544 feet)

Connors, C.N.R., top of rail opposite center of station. (573 feet)

ELEVATIONS OF INTERNATIONAL BOUNDARY COMMISSION MONUMENTS

		NORTH LINE		
			FEET	
Mon.	14-A	G.S.C.	530.207	
Mon.	18-A	U.S.G.S.	444.7	
Mon.	82	G.S.C.	373.050	
Mon.	87-B	U.S.C.& G.S.	603.319	
Mon.	95-B	U.S.C.& G.S.	651.117	
Mon.	104-A	U.S.C.& G.S.	775.930	
Mon.	114	U.S.C.& G.S.	545.901	

ST. JOHN RIVER

REF. MONS.		Feet	REF. MONS.		Feet
S-13-31	U.S.C.& G.S.	468.194	S-54	U.S.G.S.	529.5
S-32	U.S.G.S.	522	S-71	U.S.G.S.	562
S_40	U.S.G.S.	462	S-77	U.S.C.& G.S.	541.984

DESCRIPTIONS OF TRIANGULATION STATIONS

Additional Notes on Major Scheme

Lost Stations

Spring Hill Edmunston Astronomic Station Ludlow Wakefield Caribou Westford

Stations Not Recovered in 1940 or 1950

Aroostook (probably buried)
Limestone
Grand Isle
Ste. Anne
Van Buren South Base

Van Buren North Base Green River Second Porter Falls Grand Hamlin Cyr Fort

SPRING HILL 2 (U.S.C.&G.S.)(Aroostook Co., Maine; P.L. Bernstein, 1941; N.W.S., 1946) -- Station is 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 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, Maine. It is by air line about 14 miles S of Houlton and 6 miles N of Crient. The disk is stamped "SPRING HILL 2 1941."

Surface mark is a C.& G.S. disk set in concrete.

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." It is 182.51 feet S of the station.

Reference mark 2 is in the weeds in the uncultivated plot of ground NW of the station. It is stamped "SPRING HILL 2 1941." It is 63.49 feet W of the station.

KENNEDY (U.S.C.&G.S.)(York Co., New Brunswick, Canada; 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, Maine, on property of D. H. Kennedy.

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 26.94 feet SE of station, about 2 feet lower in ele-

vation: stamped "KENNEDY NO 1 1941."

Reference mark 2 is a standard C.&G.S. reference disk set in a boulder 43.90 feet SW of the station, about 1 foot lower in elevation; stamped "KENNEDY NO 2 1941."

POLE HILL (U.S.C.& G.S.)(Aroostook Co., Maine; C.H.Boyd, 1889; J.L.R., 1916; N.W.S., 1946) -- Station is 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.

UNION (Carleton Co.; New Brunswick, Canada; J.L.R., 1916; N.W.S., 1950) -- Farmer reported station O.K. Station buried several inches, hence site only recovered in 1950.

LINNEUS (Arcostook Co., Maine; J.L.R., 1916; N.W.S., 1950) -- In good condition in 1950.

RICHMOND (Carleton Co., New Brunswick, Canada; J.L.R.1916; N.W.S., 1950) -- Station site shown by the owner of the land in 1950 but station was under a pile of rocks; hence site only recovered.

LITTLETON (Aroostook Co., Maine; J.L.R.; 1916; N.W.S., 1950) -- Farmer reported station in good condition. Under a rock pile; hence site only recovered.

MONTICELLO (Aroostook Co., Maine; J.L.R., 1916; D.F.C., 1940) -- Station recovered in good condition in 1940. Station not recovered in 1950.

WILMOT (Carleton Co., New Brunswick, Canada; J.L.R., 1916; N.W.S., 1950) -- Owner of land showed the site of the station and reported it to be O.K. It was buried under 6 or 8 inches of dirt in a grain field.

BLAINE (Aroostook Co., Maine; J.L.R., 1916; N.W.S., 1950) -- The mark is now a stendard disk of Geodetic Survey of Canada, stemped "G.S.C.1916."

Reference mark 1 is 88.07 feet E of the station, and 10 feet S of the center of the woods road leading to the station. Disk set in concrete flush with ground.

Reference mark 2 is 68.84 feet S of the station in the woods. It

is a disk in concrete flush with ground.

In 1950 it was in a hole 1-1/2 inches deep, with a post over the mark with a cone of dirt around it and rocks piled around the dirt.

WICKLOW (Carleton Co., New Brunswick; J.L.R.1916; W.W.S., 1950) -- The Station is marked by a triangulation disk and a cairn is over the mark.

MARS HILL (Aroostook Co., Maine; J.L.R., 1916; N.W.S., 1950) -- The station mark is now a bronze G.S.C. disk set in a concrete monument about 3 feet square and projecting about 2 feet.

Reference mark 1 is 55.92 feet E of the station, set in bedrock flush

with the ground.

Reference mark 2 is 180.94 feet WSW of the station, about 10 feet N of the S edge of the hill, and about 10 feet below the station elevation. It is set in bedrock flush with the ground.

ANDOVER (Victoria Co., New Brunswick; J.L.R., 1916; N.W.S., 1950) -- Remains of the old tower were found but the station was buried, hence site only recovered in 1950.

PRESQUE ISLE (Aroostook Co., Maine; J.L.R., 1916; N.W.S., 1950) -- Cairn and rock pile have been removed. In 1941 the U.S.C. & G.S. recovered the present mark, a bronze disk, 12 inches below the surface of the ground.

In 1941 a reference mark was set in a boulder flush with the ground

13.4 feet N of the station.

In 1950 both station mark and reference mark were buried and not recovered. Reported probably lost.

WOODLAND (Aroostook Co., Maine; J.L.R., 1916; D.F.C., 1940) -- Station recovered in good shape in 1940.

CONNOR (Aroostook Co., Maine; J.L.R., 1916; D.F.C., 1940) -- Station recovered in good shape in 1940.

CASWELL (Aroostook Co., Maine; J.L.R., 1916; F.B.Q., 1942) -- Station mark is now a bronze B.S.C. disk set in the mass of concrete about 12 inches below the surface.

Reference mark 1 is a bronze U.S.C. & G.S. disk welded to the top of a 3-inch iron pipe, projecting about 4 inches. It is 78.86 feet S of the station.

Reference mark 2 is a similar mark 83.91 feet WSW of the station.

VAN BUREN (Aroostook Co., Maine; J.L.R., 1915; N.W.S., 1952) -- The station is on a hill on the south side of the Mackey Road. A square section of an oat field projects into the second growth woods covering much of the hill, with a rockpile near the SW corner of the field. The station is a little lower than the summit of the hill and is 150 feet inside the woods S from S edge of the oat field and directly S of the rockpile. The pyramid of boulders was gone and the station bolt is at bottom of a hole 8 inches deep.

Reference mark 1 is a bronze disk set in concrete flush with ground 72.99 feet E of the station.

Reference mark 2 is a similar mark projecting 4 inches, 76.65 feet NW of station.

ST. LEONARD (Madawaska Co., New Brunswick; J.L.R., 1915; D.F.C., 1939) -- The station is reached from St. Leonard on the Canadian Natl. Rmy. on the St. Leonard-Campbellton road drive 1.5 miles from the intersection of this road and the Edmundston-Grand Falls road. At the end of the 1.5 miles job left and then turn right and continue for 1.5 miles to the home of Ted Eckley. From the house go direct to the station. A stone cairn was erected over the bolt and the nearby trees blazed.

MADAWASKA (Aroostook Co., Maine; J.L.R., 1915; F.B.Q., 1942) -- To reach the station, from Pelletier Siding just below Madawaska go south on the road which passes through Dionne Corner and at a distance of 0.8 miles beyond Dionne Corner turn right and follow the road which runs in a SW direction for 0.7 miles. This should bring one about 1/2 mile NW of the station.

In 1942 the station mark was a G.S.C. copper bolt, set in a drill hole in a 1 ft. by 1.5 ft. flat boulder whose top is flush with the ground.

Reference mark 1 is a bronze U.S.C. & G.S. disk welded to the top of a 3-inch iron pipe, projecting about 8 inches above the ground and is 70.36 feet WHW of the station.

Reference mark 2 is a similar mark projecting about 12 inches and 58.64 feet SSW of the station.

EDMUND (Madawaska Co., New Brunswick; J.L.R., 1915; D.F.C., 1939) -- To reach the station, drive from Edmundston west along the St. John River road, 2-1/4 miles to the Furline Road, which is the first road one meets which turns N to the right. The Furline Road is followed for about 3 miles until, just after crossing 3 mile Brook the second time, the hill is seen to the left of the road. Cross some open fields back of a house to the foot of the mountain and ascend the mountain through the scrub. The hill is covered with scrub and a few large trees. A stone cairn was erected over the bolt and the nearby trees blazed.

ST. HILAIRE (Madawaska Co., New Brunswick; J.L.R., 1915; F.B.Q., 1942)—The land is now owned by Pelletier Daigle, who lives on the St. John River road about 3 miles above Edmundston. The station is 835 feet at an azimuth of 206°12' from the SW corner (on the rear of the lot) of lot 18 of the tier of St. John River lots in Madawaska parish. At a point about 4-1/2 miles above Edmundston, a road leads back from the river. On following this road back about 2 miles to the first house on the right the hill may be seen 3/4 mile back of the house. The hill may also be reached by going back 1-1/2 miles from the second house below 4 mile Brook on the St. John River road, 4 miles above Edmundston.

A stone cairn was erected over the station. Blazed 16 inch maple trees are 18 feet SE, 21 feet NW and 30 feet NE of the station.

Reference mark 1 is a copper bolt set in a drill hole in a 2 ft. by 3 ft. boulder which projects 8" above the ground 114.63 feet NE of the station.

Reference mark 2 is a similar mark in a 3 ft. by 4 ft. boulder which projects 12 inches, 122.96 feet SSW of the station.

FIRST (Madawaska Co., New Brunswick; J.L.R., 1915; D.F.C., 1939) -- The station may be reached from Edmundston, N.B., on the Temiscouata and on the Transcontinental RRs by a walk of a mile and a half from the post office. At a point about 1/4 mile W of the Transcontinental station a farmer's road leads to the right up a steep hill. This may be followed to the top of the hill when the point will be reached in 200 yards by turning to the right. A stone cairn was erected over the bolt.

BAKER (Madawaska Co., New Brunswick; J.L R., 1915; D.F.C., 1939) -- The station is reached from Baker Brook on the Transcontinental and Temiscouata Rwy. by a drive of about 5-1/2 miles and a walk of half a mile. Take the road leading N from Baker Brook past the Transcontinental station and keep the main road all the way. No confusion can exist except at a point about 2-1/2 or 3 miles from Baker Brook, where the road branches just as one enters a clearance which expands into a fine open field on top of the hill to the left. The left road is to be taken. About 5 miles from Baker Brook a large clearance with house and barn is seen on the left of the road. Continue past the house and up a little gully through the woods to a partial clearance. Bear off to the left and continue on for about 200 yards to the point which is on the highest part of the hill. A stone cairn was erected over the bolt and the nearby trees blazed.

KENT (Aroostook Co., Maine; J.L.R., 1915; F.B.Q., 1942) -- Station is on the highest point of Kent Mt. on land owned by Dennis Soucie. The mountain has steep slopes and is covered by scrub with some maple trees.

To reach the station turn S on the Second Road at Upper Frenchville, Maine and a drive of about 4.5 miles will bring one S of the station.

A cairn was erected over the station and the nearby trees blazed in 1939.

Reference mark 1 is a bronze U.S.C. & G.S. disk welded to the top of a 3-inch iron pipe, which projects 8 inches above the surface, 41.85 feet NE of the station.

Reference mark 2 is a similar mark projecting 12 inches and is 43.18 feet SE of the station.

LEDGES (Aroostook Co., Maine; J.L.R., 1915; D.F.C., 1939) -- The station is a little W of the highest part of the hill which in 1939 was covered with a heavy growth of medium sized maple and small birch. The station may be reached from Ledges railway station on the Bangor and Aroostook Rwy. by a walk of about 1 mile through the fields to the top of the hill. It may best be ascended along the ridge of the eastern slope. A stone cairn was erected over the bolt and the nearby trees blazed.

LONG (Madawaska Co., New Brunswick; J.L.R., 1915; D.F.C., 1939) -- About 2-1/2 miles from Courchesne station on the Canadian National Railway at an azimuth of about 170°. The mountain may be seen from Courchesne. From Courchesne station on the Canadian National Rwy. from Levis, Quebec to Edmundston, N.B., climb direct to the top of the hill. A stone cairn was erected over the bolt and the nearby trees blazed.

CENTER (Madawaska Co., New Brunswick; J.L.R., 1915; D.F.C., 1939) -- The station is reached from St. Francois on the Temiscouata Rwy. by driving up river 5.4 miles from the St. Francois church. At the end of that mileage turn

right and go 1.1 miles, take left job and then turn right and after going 1 mile leave car and travel the bush road to a sugar shack which is about 1 mile from the end of the road. At the shack turn left to the top of the hill. A stone cairn was erected over the bolt and the nearby trees blazed.

ST. FRANCIS (Aroostook Co., Maine; J.L.R., 1915; D.F.C., 1939) -- The station is situated on the highest point of a ridge which is longest in an E and W direction. The top of the ridge is covered with a growth of scrub and some maple. The station may be reached from St. Francis station on the Bangor and Aroostook Rwy. by a walk of about 1 mile across the fields from a point on the St. John River Road, about a mile below the depot. The mountain should be ascended from the north side and nearer to the west end, following the ridge to the station. A stone cairn was erected and the nearby trees blazed.

MONUMENT 1 (INITIAL MONUMENT) (Aroostook Co., Maine; York Co., New Brunswick, Canada; 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. The shaft of the monument is of cast iron, 12 inches square at the base, 6 inches square at the top, and 5.4 feet high above the concrete base. The shaft leans 0.24 foot W and 0.40 foot S in 1946. The base is 5 feet square and 5 feet high above the ground.

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

LUNNON (Arcostook Co., Maine; J.L.R., 1916; N.W.S., 1950) -- Recovered in good shape in 1950.

EASTON (Aroostook Co., Maine; J.L.R., 1916; N.W.S., 1950) -- Recovered in good condition in 1950.

WATSON (Aroostook Co., Maine; J.L.R., 1916; D.F.C., 1940) -- Recovered in good shape in 1940. Not recovered in 1950, probably buried.

EDMUNDSTON BENCH MARK (Madawaska Co., New Brunswick; J.L.R., 1915; N.W.S., 1952) -- Station in good condition in 1952.

CLAIR (Madawaska Co., New Brunswick; J.L.R., 1915; D.F.C. 1939) -- The station may be reached by driving 2.2 miles up river from the Canadian Customs at Clair. Then turn right and go 2 miles and turn right. The hill is about 3/4 mile from a house which is 0.2 miles from the last turn. A stone cairn was erected over the bolt and the nearby trees blazed.

BAKER BROOK BENCH MARK (Madawaska Co., New Brunswick; J.L.R., 1915; N.W.S., 1952) -- Station in good condition in 1952.

MONUMENTS ON NORTH LINE

MONUMENT 57 (Maine-New Brunswick; N.W.S., 1952) -- This monument is 10 feet south of the top of a slope in soft ground, and 25 feet north of the N edge of a gravel pit. It is opposite the S edge of woods on the U.S. side of the line and 56.40 meters N of old Monument 57.

Station mark is a granite shaft 10 inches square set in the top of a base 2 feet square at the top which is 4 inches above ground and 2.5 feet square at the base 2-2/3 feet underground.

MONUMENT 83 (Maine-New Brunswick; J.B.B., G.C.R., 1908; N.W.S., 1952) -- This monument is on an island in the Aroostook River. It is 20 feet from the north shore of the island and 36 feet from the south shore. It is 10 inches below the surface.

Monument is 2 feet square with a tablet in the top.

MONUMENT 116-52 (Maine-New Brunswick; N.W.S., 1952) -- Monument is on the North Line on the first knoll S of the ravine and creek near Monument 117 on high bank of St. John River. A small swamp crosses the line about 200 feet south of the monument.

MONUMENT 117-52 (Maine-New Brunswick; N.W.S., 1952) -- Monument is on top of the high south bank of the St. John River near the N end of the North Line. It is one of the large iron monuments as set when the line was first run out, set in a large concrete base.

REFERENCE MONUMENTS -- ST. JOHN RIVER

The International Boundary reference monuments along this river are of several types as follows:

TYPE A - Original monument made of concrete, having a base 36 inches square with top sloping steeply up to a concrete block 10 inches square. Sides of the block rise about 15 inches above the base and it has a pyramidal top. Top of base is usually about 8 inches above ground and bottom 2-1/2 feet below surface.

TYPE B - Same as Type A except slope of top of base is less steep and concrete block rises only 6 inches above top of base. Top of base is 4 inches above ground.

TYPE C - Cast iron posts 6 feet long set in concrete bases 3 feet square and 3 feet deep. The posts project 3 feet above the base, which extends 3 feet into the ground and a few inches above the surface. These are on islands and the nationality of the island is shown on the post and also on the top of the base.

TYPE D - The concrete base is 2.5 feet square at bottom, 3 feet high and slopes to 2.0 ft. square at top of sides and has a top gently sloping to the 10 inch square concrete block. This block has sides 4 inches high and a pyramidal top. Top of base is about 4 inches above the ground.

TYPE E - Has a concrete base like Type D with nearly flat top in center of which an I.B.C. triangulation tablet is set.

TYPE F - This is a 12 inch square concrete monument 3 feet long, projecting about 3 inches above ground and having a nearly flat top with an I.B.C. triangulation tablet set in center of top.

TYPE G - This is a 3 foot square concrete base with an iron post broken off near the base and an I.B.C. triangulation tablet set in the center of the post

Any unusual type will be described in the description of the reference mark.

All triangulation stations unless otherwise noted in the description are marked by a copper bolt set in the top of an irregular mass of concrete about 1-1/2 feet in diameter and the same in depth with the base resting on solid rock.

REFERENCE MONUMENT C-1-52 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1952)—Monument is about 10 miles SE of St. Leonard and 800 feet S of Highway No. 2. It is about 100 feet W of a fence from the road to the top of the river bank, and 3 feet on the river side of the fence along the top of the high bank of the river at the edge of the trees and brush. It is in the edge of the brush and about 20 feet back of the top of the high, steep wooded bank of the river.

Type I monument projecting only 1 inch above ground.

REFERENCE MONUMENT S-1-52 (Aroostook Co., Maine; D.F.C., 1940; N.W.S., 1952) -- Monument is about 9-1/2 miles SE of Van Buren in the easterly shoulder of Highway 165, about 118 feet southerly from the road center at the point Route 165 leaves the river road and starts southwest toward Fort Fairfield. It was under 2 inches of dirt and found by use of instrument. It is 17.0 feet from the center of the highway and 9.5 feet NNW from a large electric light pole. (Moved in 1955. See last page of Ref. Mons.)

Type I monument with tablet stamped 1A and base marked 1940.

REFERENCE MONUMENT C-2-52 (Madawaska Co., New Brunswick; N.W.S., 1952) -Monument is on railway property about 9-1/4 miles SE of St. Leonard and
1250 feet S of Highway No. 2. It is N of the railroad tracks, 4 feet S
of the north fence of railway property, 8 feet E of a telephone pole,
40 feet E of a whistling post on other side or tracks, and 25 feet W of
a low place on north side of tracks.

Type F monument.

REFERENCE MONUMENT S-2 (Aroostook Co., Maine; J.B.B., 1909; N.W.S., 1952) -- Monument is about 9-1/4 miles SE of Van Buren and 600 feet N of Highway No. 165. It is 8 feet back of the top of the steep wooded slope to the River and 3 feet outside the meadow land extending to road. It is 75 feet E of a creek in a ravine and 10 feet W of a sharp point in the high bank of the river.

Type A monument.

REFERENCE MONUMENT S-3 (Aroostook Co., Maine; J.B.B., 1909; N.W.S., 1952) -Monument is about 9 miles SE of Van Buren and 250 feet N of Highway No.
165. It is in the narrow 10 foot strip between the top of the steep
wooded bank of river and a plowed field. Except toward the river, the
land slopes gently in all directions.

Type A monument.

REFERENCE MONUMENT C-3 (Madawaska Co., New Brunswick; G.C.R., 1909; N.W.S., 1952)—Monument is about 9 miles SE of St. Leonard, south of railway property, 1450 feet S of Highway No. 2. It is 12 feet back of the top of the high river bank, and just outside the old south fence of railway property, and on the highest ground between the railroad and the river in quite a distance. It is 300 feet W of a left curve in the railroad, 60 feet E of a railway whistling post on the other side of the tracks, and 300 feet E of a strip of woods on north side of track.

Type A monument.

REFERENCE MONUMENT S-4-52 (Aroostook Co., Maine; J.B.B., 1909; N.W.S., 1952)—
Monument is about 8-1/2 miles SE of Van Buren and 425 feet N of Highway
No. 165. It is at edge of the brush at top of the steep wooded slope to
the river. The surface of the land has been lowered about 2 feet on the
road side of the monument, but it is firm and plumb. It is on a high
point of the bank with a deep gully 125 feet W and a depression in the
bank 60 feet east.

Type A monument.

REFERENCE MONUMENT S-4A (Aroostook Co., Maine; N.W.S., 1952)—Monument is about 8-1/2 miles SE of Van Buren in the electric light pole line on north side of Highway No. 165. It is 7 feet W of a pole with a large brace on the meadow side and the next pole east of the one on the highest point of the hill near a yellow road curve sign.

Type F monument. (Moved in 1955. See last page of Ref. Mons.)

REFERENCE MONUMENT C-4-52 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1952) -- Monument is about 8-1/2 miles SE of St. Leonard, and about 1250 feet S of Highway No. 2 on railway property. It is on north side of tracks, 3-1/2 feet S of north railway fence, 25 feet E of a telephone pole with a long brace, 75 feet E of a brook in a ravine and 300 feet W of a sharp left curve in the railroad tracks.

Type I monument with top 4 inches above ground.

REFERENCE MONUMENT S-5-52 (Arcostock Co., Maine; J.B.B., 1909; N.W.S., 1952)—
Monument is about 8-1/4 miles SE of Van Buren and 600 feet N of Highway
No. 165. It is in a meadow on the highest point in the immediate vicinity. 15 feet outside the line of bushes at the top of a high, steep,
wooded bank of the river. It is about 100 feet W of a deep gully extending from river back to the road and opposite a house west of this gully.
Type A monument.

REFERENCE MONUMENT C-5-52 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1952) -- Monument is about 8 miles SM of St. Leonard and 200 feet S of Highway No. 2 on railway property. It is 1 foot inside the north railway fence and 100 feet W of the top of west bank of a creek in a

ravine. It is near the foo, of a steep slope from the river, down which a road leads diagonally on the north side of the railroad fence to the creek. It is 10 feet east of a telephone pole and 10 feet west of a whistling post on the other side of the track.

Type F monument.

REFERENCE MONUMENT S-6-52 (Aroostook Co., Maine; D.F.C., 1940; N.W.S., 1952)—
Monument is about 8 miles SE of Van Buren, 2 feet north of the bank of
the road ditch on the north side of Highway No. 165. It is on the highest
point of the hill on north side of road, 5 feet E of the foot of the long
brace on an electric light pole and opposite the west end of a deep gravel
pit 50 feet N of the road. (Lost in 1955.)

Type B monument.

REFERENCE MONUMENT C-6-52 (Madawaska Co., New Brunswick; N.W.S., 1952)—
Monument is about 7-3/4 miles SE of St. Leonard and about 300 feet S of
Highway No. 2 where it crosses the Canadian National Rwy. tracks. It
is on Canadian Pacific Rwy. property, 6 feet inside the north fence,
and opposite a gravel pit in the U.S. bank of the river just downstream
from a creek at Hamlin, Maine. It is midway between the central and
westerly of three telephone poles with long braces west of a large cross
near the railroad. A large, lone evergreen tree is on the river bank
100 feet west.

Type F monument.

REFERENCE MONUMENT S-7-52 (Aroostook Co., Maine; D.F.C., 1940; N.W.S., 1952)—Monument is about 7-3/4 miles SE of Van Buren in the line of electric poles on north side of Highway No. 165. It is 4 feet E of a pole, 3 feet outside the road ditch, on flat land 200 feet W of the top of a deep creek valley and opposite a row of small oriental elms on the west side of the lawn of a house across the road.

Type B monument.

REFERENCE MONUMENT C-7-52 (Madawaska Co., New Brunswick; N.W.S., 1952) -Monument is about 7 miles SE of St. Leonard and 1050 feet S of Highway
No. 2. It is in open pasture about 200 feet S of the C.P.R. tracks and
200 feet SE of a wooded area near the railroad. It is about 10 feet
inshore from the top of the high bank of the river and 75 feet W of
trees on the river bank.

Type A monument.

REFERENCE MONUMENT S-8 (Aroostook Co., Maine; J.B.B., 1909; N.W.S., 1952)-Monument is about 7 miles SE of Van Buren and 800 feet N of Highway No.
165. It is at river end of a plowed field and 15 feet outside the
bushes at top of the sloping wooded bank of the river. It is about
50 feet W of : second growth trees on west side of a gully.

Type A monument.

REFERENCE MONUMENT S-SA (Aroostook Co., Maine; N.W.S., 1952)—Monument is about 7 miles SE of Van Buren in the ditch line on north side of Highway No. 165. It is 14 feet NW of the second telephone pole west of a brush covered fence leading from road northerly to the river.

Monument is a cylinder of concrete 5 inches in diameter with a triangulation tablet in the top, and projecting about 2 inches above ground. REFERENCE MONUMENT C-8-52 (Madawaska Co., New Brunswick; N.W.S., 1952)—Old monument about 15 inches deep and leaning badly. Used tablet in new monument. Monument is about 6-1/2 miles SE of St. Leonard, and 400 feet S of Highway No. 2 on C.P.R. property. It is on railroad property 4 feet inside fence on north side of the track. It is opposite the center of Ryan Island as now existing, and at the east end of a railroad curve west of a road from the north which crosses Highway No. 2 and runs to the railroad near station Martin. It is about 20 feet east of a culvert under the railroad and 8 feet east of the east end of a rock pile on the railroad property. It is 25 feet W of the third telephone pole west of station Martin and 37 feet west of the west end of a gate through the north railroad fence.

Type F monument.

REFERENCE MONUMENT 119-52 (Aroostook Co., Maine; N.W.S., 1952) -- This monument is on Ryan or Six Mile Island. This island is about one half its original size, the upper 40% being gone entirely and the downstream portion much narrower. The monument is 18 feet from the water on the SE side of the island, about one-third of the way upstream from the lower end of the island. It is 15 feet in from the top of the river bank and midway between two large poplars. Top is flush with surface.

Type F monument.

REFERENCE MONUMENT S-9 (Aroostook Co., Maine; J.B.B., 1909; N.W.S., 1952)—Monument is about 6-1/4 miles SE of Van Buren on top of a high hill and 200 feet S of Highway No. 165. It is in a plowed field 200 feet W of an old fence. Unused buildings are on opposite side of the road about 100 feet west of the monument. Sides of base are exposed a foot lower than they were originally.

Type A. monument.

REFERENCE MONUMENT S-9A (Aroostook Co., Maine; N.W.S., 1952)—Monument is about 6-1/4 miles SE of Van Buren on Highway No. 165 property and south of the road. It is in about the general pole line but 4 feet nearer road than the nearby pole 6 feet east where top of ridge reaches the road. It is 4 feet back of the top of the road bank and 40 feet east of an unused house on opposite side of the road.

Type F monument.

REFERENCE MONUMENT C-9-52 (Madawaska Co., New Brunswick; N.W.S., 1952)—
Monument is about 5-1/2 miles SE of St. Leonard on the south side of
Highway No. 2. It is in the line of telephone poles, 5 feet W of a
black pole, 120 feet W of a high brush lined fence from road to railroad
with a farm road across railroad on the west side of it. It is about 5
feet outside the road ditch and directly across the road from the drive
on the west side of an imitation brick building.

Type F monument.

REFERENCE MONUMENT S-10-52 (Aroostook Co., Maine; D.F.C., 1940; N.W.S., 1952)—Monument is about 5-1/2 miles SE of Van Buren, 3 feet S of the south road ditch of Highway No. 165. It is 4 feet toward road from a telephone pole and 12 feet E of the line of the east side of a nearby potato house

extended toward road. It is covered by dirt except the 4 inches of the peak of the central part of the monument, which has been scarred by road machinery.

Type B monument.

REFERENCE MONUMENT C-10-52 (Madawaska Co., New Brunswick; N.W.S., 1952)—Monument is about 5-1/4 miles SE of St. Leonard and 300 feet south of Highway No. 2. It is on the C.P.R. property, 3 feet inside the north fence and 23-1/2 feet SE of a telephone pole. It is about 300 feet SE of some red buildings along the track and 100 feet NW of a farm road to the railroad. It is nearly across the tracks from the end of a rail fence extending to the river.

Type F monument.

REFERENCE MONUMENT S-11 (Aroostook Co., Maine; J.B.B., 1909; N.W.S., 1952)—
Monument is about 5-1/4 miles SE of Van Buren and 300 feet north of
Highway No. 165. It is about 10 feet back from the bushes on top of the
high bank of the river, 40 feet west of a small gulley and 100 feet west
of the west end of a high red barn on river side of road.

Type A monument.

REFERENCE MONUMENT C-11 (Madawaska Co., New Brunswick; G.C.R., 1909; N.W.S., 1952) -- Monument is about 4-3/4 miles SE of St. Leonard and 2500 feet south of Highway No. 2. It is on top of the low bank of the river in a strip of meadow at the end of plowed ground. It is just east of a small wooded area.

Type A monument.

REFERENCE MONUMENT S-12 (Aroostook Co., Maine; J.B.B., 1909; N.W.S., 1952) -Monument is about 4-3/4 miles SE of Van Buren and 200 feet south of Highway No. 165. It is about 100 feet west of a farm house and 25 feet north of a long farm building and land has a considerable slope from it down to the highway. A group of large poplar trees and an abandoned wood colored house are 300 feet west of the monument.

Type A monument.

REFERENCE MONUMENT C-12 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1951)—Monument is 4-1/2 miles SE of St. Leonard and 2700 feet south of Highwat No. 2. It is just east of a clump of trees near bank of river and on a shelf in the river bank, 20 feet down the slope from the end of the open field. It is flush with the surface of the ground.

Type F monument.

REFERENCE MONUMENT S-13-31 (Aroostook Co., Maine; J.H., H.S.M., 1931; N.W.S., 1952)—Monument is about 4-1/2 miles SE of Van Buren. In the line of telephone poles on the south side of Highway No. 165, it is about 18 feet E of a pole and 6 feet outside the road ditch and at the edge of a plowed field. A B.M. marked 1935-T-43 is in the side of the top of the monument. Type A monument.

REFERENCE MONUMENT S-14-31 (Arcos took Co., Maine; J.H., H.S.M.1931; N.W.S., 1952)—Monument is about 4-1/4 miles SE of Van Buren on highway property on south side of Highway No. 165. It is 4 feet east of a telephone pole and 2 feet toward road from the pole line, and just outside the bars into a pasture with an animal shelter in it just inside the bars. The telephone pole is at the end of a fence extending south from the road. It is 3 feet outside the road ditch.

Monument was a Type A monument, but the top was broken off and in 1952 the top of base was rounded off and a triangulation tablet set in the center of the top.

REFERENCE MONUMENT C-13 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1951) -- Monument is 4-1/4 miles SE of St. Leonard and 2700 feet south of Highway No. 2. It is in edge of the largest clump of evergreen trees along the Canadian shore in this vicinity. It is on the west side of a bush covered fence running from the river to the railroad and back, a short distance from the top of the river bank.

Type F monument.

REFERENCE MONUMENT C-14 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1952)—Monument is about 4 miles SE of St. Leonard and 2700 feet south of Highway No. 2. It is in the edge of the first clump of evergreen trees downstream from Nine Brooks Creek. It is at the top of the high bank of the river.

Type F monument.

REFERENCE MONUMENT S-15-52 (Aroostook Co., Maine; N.W.S., 1952) -- Monument is about 4 miles SE of Van Buren and 90 feet north of the edge of Highway No. 165. It is 150 feet east of a large red barn, 36 feet west of a small storage building near the bank of the river, 7 feet back from the top of the high river bank. A deep gully is between the road and the monument.

Type E monument.

REFERENCE MONUMENT S-16-40 (Aroostook Co., Maine; D.F.C., 1940; N.W.S., 1952)—Monument is about 3-1/2 miles SE of Van Buren, 1 foot outside an electric fence on the north side of Highway No. 165. It is on the extreme edge of the shoulder of the road, about 75 feet east of a house and 40 feet east of a yellow school sign in the fence line.

Type B monument.

REFERENCE MONUMENT C-15 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1952)—Monument is about 3-1/2 miles SE of St. Leonard and 2500 feet S of Highway No. 2 bridge across Nine Brooks Creek, 750 feet SE of the mouth of the brook and 150 feet inshore from the river. It is on a knoll in low brush at edge of NW corner of a plowed field.

Type F monument.

REFERENCE MONUMENT C-16 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1952) -- Monument is about 3 miles SE of St. Leonard, on the southern edge of the C.N.Rwy. property. It is about 550 feet S of Highway No. 2 and

150 feet east of a branch road leading across both railways to a plowed field near the river. The monument is 1 foot outside plowed ground toward railroad track.

Type F monument.

REFERENCE MONUMENT S-17 (Aroostook Co., Maine; J.B.B., 1909; N.W.S., 1952) -- Monument is about 3 miles SE of Van Buren, and 75 feet north of Highway No. 165. It is in the line of bushes on the east side of a line fence extending from road to the river, and about 40 feet north of the road fence extending eastward. A small creek drains a marsh about 75 feet toward the river and an old house is about 300 feet east. It is 4 feet east of the fence.

Type A monument.

REFERENCE MONUMENT 120 (Aroostook Co., Maine; D.F.C., 1940; N.W.S., 1952) -This monument was found quite a distance from its site and partly
buried. It was not replaced as King Island is over two-thirds gone
and the balance not much more than a bar, and will disappear when a bad
freshet and ice occur some spring.

REFERENCE MONUMENT C-17-40 (Madawaska Co., New Brunswick; D.F.C., 1940; N.W.S., 1952)—Monument is about 2-1/2 miles SE of St. Leonard and 400 feet south of Highway No. 2. It is on railroad property on low ground south of the tracks, 2 feet inside the southern railroad fence and 45 feet east of a brook.

Type B monument.

REFERENCE MONUMENT S-18-40 (Arcostook Co., Maine; D.F.C., 1940; N.W.S., 1952)-Monument is about 2-1/2 miles SE of Van Buren in the ditch line on the
north side of Highway No. 165. It is 40 feet west of an electric light
pole standing 7 feet west of the west end of a 200 foot strip of guard
rail on north side of road. It is directly across the road from a telephone pole with a long brace standing on the west side of an old house.
Type B monument.

REFERENCE MONUMENT C-18-52 (Madawaska Co., New Brunswick; N.W.S., 1952) -Monument is about 2 miles SE of St. Leonard and 300 feet S of Highway
No. 2, on railroad property. It is 1 foot inside the north railroad
fence, 18 feet west of a fence from the railroad to the highway and up
the hill north of the highway, with a farm road on west side of it north
of highway. The ground east of this fence is covered by brush.

Type F monument.

REFERENCE MONUMENT S-19-1952 (Aroostook Co., Maine; N.W.S., 1952) -- Monument is about 2 miles SE of Van Buren in the tree line of three trees on the south side of Highway No. 165. A Balm of Gilead tree is 20 feet east, another 12 feet west and a large pine 40 feet west. It is near the foot of a long road grade from the northwest, and 4 feet south of the south road ditch. A drive on the west side of a large white house is just east of the tree east of the monument.

Type D monument.

REFERENCE MONUMENT C-19-52 (Madawaska Co., New Brunswick; N.W.S., 1952)—
Monument is about 1-1/2 miles SE of St. Leonard and 200 feet south of
Highway No. 2, on railroad property. It is 1 foot inside the north
railroad fence and on a high knoll. It is just east of a lone imitation trick house east of a small settlement containing L'Eglise Church,
with a green house 500 feet east. It is 175 feet west of a farm road
across the railroad. It is 9 feet west of the second telephone pole
east of one with a large white railroad sign "86".

Type F monument.

REFERENCE MONUMENT S-20-52 (Aroostook Co., Maine; D.F.C., 1940; N.W.S., 1952)--Monument is about 1-1/2 miles SE of Van Buren, just across the ditch line on the south side of Highway No. 165. It is 25 feet west of a telephone pole and about 60 feet east of a side road extending south into nearby fields.

Type B monument.

REFERENCE MONUMENT C-20-52 (Madawaska Co., New Brunswick; N.W.S., 1952)—Monument is about 1 mile SE from St. Leonard and about 100 feet west of the top of a steep grade to a bridge across a ravine just west of L'Eglise. It is just on road side of the pole line, 6 feet south of south road ditch of Highway No. 2, 6 feet west of a black telephone pole, 11 feet west of a fence from road to river, and 50 feet SE of a road sign for the hill.

Type F monument.

REFERENCE MONUMENT S-21 (Aroostook Co., Maine; J.B.B., 1909; N.W.S., 1952) -Monument is about a mile SE of Van Buren about 1300 feet north of
Highway No. 165. It is on the high easterly bank of Hammond Brook and
about 25 feet from the water's edge and 75 feet south of the top of the
south bank of the St. John River. A road from the main road to the
junction of the two streams passes the monument about 6 feet to the east.
Type A monument.

HEFERENCE MONUMENT S-22 (Aroostook Co., Maine; J.B.B., 1909; N.W.S., 1952) -Monument is about 1/4 mile SE of Van Buren on top of a high hill and 400
feet north of Highway No. 165. It is at the river edge of an open field
and at edge of the bushes on top of the high, steep wooded bank of the
river. It is just south of the electric pole line.

Type A monument.

REFERENCE MONUMENT C-21-52 (Madawaska Co., New Brunswick; N.W.S., 1952) -Monument is 1/2 mile SE of St. Leonard, on the south side of Highway
No. 2. It is at the road end of a line fence extending to the river
with a small cemetery in a grove of evergreen trees on its east side
beyond the railroad. Line fence also extends north beyond road with
a large sign advertising Daigles Cabins at its end across from the monument. It is at the top of quite a grade from the west and 4 feet back
from the top of the high bank along the road.

Type I monument.

REFERENCE MONUMENT C-22-29 (Madawaska Co., New Brunswick; J.H., H.S.M., 1929; N.W.S., 1952)—Monument is about 600 feet SE of the Canadian end of the International Bridge by the Canadian Customs House and 30 feet from the river. It is in a low place formed by the excavation in an old gravel pit. A narrow bank about 7 feet higher than the monument separates it from the river.

Type A monument with top a little lower than those set in 1909.

REFERENCE MONUMENT S-23-52 (Aroostook Co., Maine; J.B.B., 1909; N.W.S., 1952) -Monument is in Van Buren near the east corner of St. John Avenue, 51 feet
east of the east corner of the easterly potato house. It is on railroad
property and 8 feet south of the south rail. The whole base, except on
side toward bank, is exposed, due to side track being built near it.
Type A monument.

REFERENCE MONUMENT S-23A (Aroostook Co., Maine; N.W.S., 1952)—Monument is in Van Buren on railroad property. It is north of the railroad on the high bank of the river, 80 feet east of the east corner of the easterly potato house along the south side of the track. It is 4 feet north of the top of the bank on the railroad side and 7 feet from river side. It is 14 feet west of a ravine in the river bank and 30 feet east of another ravine. (Lost in 1955. See last page of Ref. Mons.)

Type F monument.

VAN BUREN-ST. LEONARD BRIDGE TABLETS (Maine-New Brunswick; J.H., 1929; N.W.S., 1952) -- These are the standard I.B.C. bridge tablets and are fastened to the sides of the highway bridge across the St. John River between Van Buren, Maine and St. Leonard, New Brunswick. They mark the intersection of the International Boundary with the sides of the bridge.

REFERENCE MONUMENT S-24 (Aroostook Co., Maine; J.B.B., 1909; N.W.S., 1952) -Monument is 1/2 mile NW of the center of Van Buren on the east side of a
side road running north from Highway No. 1 on the east side of the
Catholic Church. It is about 700 feet north of the highway and about a
hundred feet east of the side road. It is 2 feet east of a picket fence
across the back of a large garden nearby across the side street from the
rear of a cemetery on west side back of the church. It is in bushes.
Type A monument.

REFERENCE MONUMENT C-23-52 (Madawaska Co., New Brunswick; D.F.C., 1946; N.W.S., 1952)—Monument is in southwest edge of St. Leonard, 150 feet west of where an old east-west road crosses the railroad. It is in brush, 3 feet north of the edge of this old road which runs along the top of a bank leading to the flats along the river. An old house is on the shore about 400 feet SW and a newer building on river side of the track about 500 feet east.

Type F monument.

REFERENCE MONUMENT S-25 (Aroostook Col. Maine; F.H.B., 1917; N.W.S., 1952) -- Monument is about 3/4 mile NW of main part of Van Buren, 800 feet north of Highway No. 1 and 125 feet north of the railroad. It is on a prominent

point of a higher second bank parallel to the river and 150 feet south of the top of the present bank. It is in a pasture and 75 feet upstream from a large cowbarn near river bank.

Type I monument.

REFERENCE MONUMENT S-26-52 (Aroostook Co., Maine; N.V.S., 1952) -- Monument is about a mile NW of the center of Van Buren, and 500 feet north of Highway No. 1 and 150 feet west of the old ferry road leading now to a slaughter house. It is at the edge of railroad property, 16 feet north of the nearest rail on the old side track leading HW to the river, 16 feet north of the westerly extension of the south side of a potato house 76 feet east of the monument.

Type D monument.

REFERENCE MONUMENT C-24-52 (Madawaska Co., New Brunswick; J.H.B., 1917; N.W.S., 1952) -- Monument is about 1-3/4 miles NW of St. Leonard and 2500 feet south of Highway No. 2. It is 3 feet back of the top of the high bank of the river at the edge of a plowed field. It is 70 feet east of a clump of bushes on the bank directly across from the road on U. S. side leading to the old cable ferry extended. It is 200 feet east of the old ferry pole among small trees on the bank. Top is 2 inches above ground.

Type I monument.

KEEGAN RAILROAD BRIDGE TABLETS (Maine-New Brunswick; J.H., 1929; N.W.S., 1952) -- These are standard I.B.C. bridge tablets and are fastened to the sides of the railroad bridge across the St. John River a little below Keegan, Maine. They mark the intersection of the International Boundary with the sides of the railroad bridge.

REFERENCE MONUMENT S-27-52 (Aroostook Co., Maine; J.H., H.S.M., 1931: N.W.S., 1952) -- Honument is on railroad property about 1-1/4 miles MW of Van Buren and 200 feet north of Highway No. 1. It is about midway between the south fence and the southern rail, on a ridge between the bottom of the roadbed grade and a deep ditch just inside the southern fence. The Canadian Jct. sign is 150 feet west of station and a large white post with a black "X" is about 50 feet to the east.

Type B Monument.

REFERENCE MONUMENT C-25-54 (Madawaska Co., New Brunswick; R.K.L., 1954) --This reference monument is about 2-1/4 miles NW of St. Leonard, and 2500 feet south of Highway No. 2. It is about 1000 feet SE of a road leading from the Highway past a lumber mill to the river near Ref. Mon. C-26-52. It is in the NW corner of the abutment of the Railroad Bridge across the river.

The station mark is an I.B.C. triangulation station marker set in a drill hole in the stone abutment.

HEFERENCE MONUMENT S-28-52 (Aroostook Co., Maine; D.F.C., 1940; N.W.S., 1952)--Monument about 1-1/2 miles NW of Van Buren and 300 feet ME of Highway No. 1. It is 8 feet toward river from the rear wall of the rear building of the remains of the old pulp mill. It is now used as a pasture.

Type B monument.

REFERENCE MONUMENT C-26-52 (Madawaska Co., New Brunswick; N.W.S., 1952)—
This monument is about 2-1/2 miles NW of St. Leonard and 2500 feet south
of Highway No. 2. It is about 180 feet upstream from a road to the river
past a lumber mill and yard, and directly across the river from the ruins
of an old pulp mill. It is 3 feet back of the top of the bank at edge of
open field.

Type A monument.

REFERENCE MONUMENT S-29-52 (Aroostook Co., Maine; J.B.B., 1909; N.W.S., 1952)—Monument is about 1-3/4 miles NW of Van Buren just across the ditch on the north side of Highway No. 1. It is just outside the plowed field. The side toward the road is exposed nearly to the bottom of the base.

Type A monument.

REFERENCE MONUMENT S-29A (Aroostook Co., Maine; N.V.S., 1952)—Monument is about 1-3/4 miles NV of Van Buren and 150 feet north of Highway No. 1. It is 12 feet inside the north fence of the railroad property, 2 feet lower than the track, 20 feet east of a telephone pole, 24 feet east of a path from railroad to river flats and 105 feet east of a tile drain under the railroad tracks. It is directly across the tracks from an open roadway to the railroad midway between the first two houses east of the drain under road and railroad.

Type I monument 4 inches above surface.

REFERENCE MONUMENT C-27-54 (Madawaska Co., New Brunswick; R.K.L., 1954)—
Monument is about 2-3/4 miles NW of St. Leonard and 2500 feet south of
Highway No. 2. It is about 55 feet inland from the top of the high river
bank. It is at the southern end of an old fence separating a large field
extending downstream to a road leading from the highway past a large
lumber yard to the shore from a smaller field upstream.

Type I monument.

REFERENCE MONUMENT S-30-52 (Aroostook Co., Maine; W. W. S.; 1952) -- Monument is about 2 miles HW of Van Buren at east end of Keegan and about 300 feet north of Highway No. 1. It is on railroad property, 10 feet north of the side track to the old Van Buren-Madawaska Corp. buildings. It is 3 feet east of the first post on west side of a farm road across the railroad along east side of a large storage building. It is 18 feet west of this farm road, 3 feet inside the northern limit of railroad property and opposite a railroad switch.

Type D monument.

REFERENCE MONUMENT C-28-52 (Madawaska Co., New Brunswick; N.W.S., 1952) -- Monument is about 3-1/2 miles NW of St. Leonard and 3/4 mile west of Highway No. 2. It is directly opposite the old mill of the St. John Lumber Co., Keegan, Maine. It is 28 feet inside the line of bushes on the west side of a bogan and 15 feet west of its bank. It is 85 feet east of the top of the high bank of the river, 6 feet south of a 12 inch spruce tree and 8 feet NNE of a 14 inch spruce.

Type F monument.

REFERENCE MONUMENT 121 (Aroostook Co., Maine; F.H.B., 1917; N.W.S., 1952) -- Monument is about 800 feet upstream from the lower end of the southern Les Trois Isles on high ground about 100 feet from the SE shore of the island.

Type C monument.

REFERENCE MONUMENT C-29-52 (Madawaska Co., New Brunswick; D.F.C., 1940; N.W.S., 1952) -- Monument is about 4-1/2 miles NW of St. Leonard, and 3600 feet SW of Highway No. 2. It is opposite the Les Trois Isle farthest downstream and a little downstream from the center of that island. It is in dense brush about 15 feet high on top of the high bank of the river. It is upstream 100 feet from a dead birch tree and 200 feet from a group of 3 live birches, with two groups of birches the same distance upstream from the station. On the upstream side of a lone evergreen, and close to and between 2 white birches about 3 in diameter.

Type F monument.

REFERENCE MONUMENT S-31-52 (Aroostook Co., Maine; D.F.C., 1940; N.W.S., 1952)— Monument is about 2-3/4 miles NW of Van Buren, 3 feet outside the disth line on the southern side of Highway No. 1. It is about a foot outside of the telephone pole line at the edge of a small meadow. It is 60 feet west of a road leading to an old barn and abandoned house and 20 feet west of a telephone pole.

Type F monument.

REFERENCE MONUMENT 122 (Arcostock Co., Maine; F.H.B., 1917; N.W.S., 1952)—
Monument is on highest ground on the southern of the Les Trois Isles and
opposite the lower end of the upper island. It is in brush about 30 feet
back of the top of the high bank of the island.

Type C monument.

REFERENCE MONUMENT 123-4C (Aroostook Co., Maine; D.F.C., 1940; N.W.S., 1952)—
Monument is on the upstream island of the Les Trois Isles and about midway
between upstream and downstream ends of the island. It is on the highest
part of this central section of the island and was found by use of instrument covered by 6 inches of earth. The land slopes gradually south from
monument to the center of a depression. About 50 feet north is the bank
of a low depression near its eastern end opposite a group of bushes on
high bank between depression and the river. Eighty feet west of it is a
very deep oval depression just inside the high bank of the river.

Monument is tablet set in the flat top of a 3-foot square base.

REFERENCE MONUMENT C-30-31 (Madawaska Co., New Brunswick; J.H., H.S.M., 1931; N.W.S., 1952) -- Monument is 3-1/2 miles NW of St. Leonard, 3300 feet west of Highway No. 2. It is 40 feet from the top of the high bank of river in dense grass waist high and only found by use of instrument or stumbling over it. It is opposite the NW end of the bushes along the railroad fence. Clumps of bushes on the high bank are 25 feet upstream and 50 feet downstream.

Type F monument with top about eight inches above ground.

REFERENCE MONUMENT S-32 (Aroostook Co., Maine; J.B.B., 1909; N.W.S., 1952)—
Monument is about 3-1/2 miles HW of Van Buren and 50 feet south of the
top of the bank along the south ditch of Highway No. 1. It is in plowed
ground on top of a ridge, 200 feet west of a new house and 75 feet east
of a brush covered line fence.

Type A monument.

REFERENCE MONUMENT S-32A (Aroostook Co., Maine; N.W.S., 1952) -- Monument is about 3-1/2 miles NW of Van Buren and in the line of telephone poles to the west, on the south side of Highway No. 1. It is 5 feet outside of the line of poles to the east and 4 feet east of a pole. It is just outside the plowed ground.

Type F monument.

REFERENCE MONUMENT S-33-52 (Aroostook Co., Maine; N.W.S., 1952) -- Monument is about 3-3/4 miles NW of Van Buren on north side of Highway No. 1. It is on a high ridge and 6 feet east of the telephone pole next east from the pole on highest part of ridge. It is 2 feet outside of the pole line and protected by the pole and a steel brace on outside of the pole. It is just outside the edge of the nearby flat road shoulder and 40 feet east of a large electric light pole on other side of road with a large wooden brace.

Type D monument.

REFERENCE MONUMENT C-31-52 (Madawaska Co., New Brunswick; N.W.S., 1952) -Monument is about 3-3/4 miles NW of St. Leonard and 3200 feet west of
Highway No. 2. It is on the upstream side of the 4th and smallest
ravine upstream from the one opposite the head of the upper Les Trois
Isle. The ravine is shallow and full of bushes. The monument is 5
feet inshore from the top of the high river bank and 5 feet upstream from
the top of the bank of the gully. It projects 6 inches above the ground.
Type F monument.

REFERENCE MONUMENT C-32 (Madawaska Co., New Brunswick; G.C.R., 1909; N.W.S., 1952)—Monument is about 4 miles NW of St. Leonard and 3000 feet westerly from Highway No. 2. It is 4 feet from top of the high bank of river at a specially high place and 3 feet outside the open meadow. Two large spruce trees are 30 feet downstream on the edge of the slope to river, a dense growth of cherry trees start 15 feet upstream and a number of large poplar trees are along the river bank below the monument.

Type A monument.

REFERENCE MONUMENT S-34 (Arcostock Co., Maine; F.H.B., 1917; N.W.S., 1952) -- Monument is about 7 miles NW of Van Buren and 300 feet northerly from Highway No. 1, on railroad property. It is 1 foot NE of corner post of the railroad fence and the fence extending from railroad to the highway on the east side of a row of bushes and a water drain where an old road used to be.

Type F monument.

REFERENCE MONUMENT S-35 (Aroostook Co., Maine; J.B.B., 1909; N.W.S., 1952) -Monument is about 7-1/4 miles NW of Van Buren and 700 feet north of Highway No. 1. It is 6 feet inside the bush line on top of the high bank of

the river and 100 feet SE of a gully extending back to the railroad. It is 200 feet west of the east end of an island near the U. S. shore of the river. It is a few feet west of the line of a farm road from the nearby field across the railroad and road to a red house and barn on the south side of the highway.

Type A monument.

REFERENCE MONUMENT C-33-40 (Madawaska Co., New Brunswick; D.F.C., 1940; N.W.S., 1952)--Monument is about 4-1/2 miles NW of St. Leonard and 2800 feet west of Highway No. 2. It is about 78 feet back of the top of the high bank of the river and 3 feet west of the top of a deep wooded gully. It is at the edge of a meadow and opposite the 6th pier in the river below Le Septieme Isle. It is 15 feet west of the last two large white birches in the edge of the ravine and 75 feet upstream from where the top of the ravine reaches the high bank of the river.

Type F monument.

REFERENCE MONUMENT 124 (Aroostook Co., Maine; F.H.B., 1917; N.W.S., 1952)—Monument is about 400 feet upstream from the lower end of southern La Septieme Isle and a third of the way from U.S. Channel to Canadian Channel. It is about 100 feet downstream from the lower end of a deep depression in center of island and about in line with the centerline of the depression.

Type G monument with iron post broken but 4 iron tie rods still

in the base.

REFERENCE MONUMENT S-36-52 (Aroostook Co., Maine; N.W.S., 1952) -- Monument is about 5 miles NW of Van Buren, in the telephone pole line on the north side of Highway No. 1. It is in the ditch line and across the road from a small log house, 6 feet west of the first telephone pole west of a large culvert under the road 95 feet east of the monument. A fair sized brook flows through the culvert and through bushes north to railroad.

Type D monument.

REFERENCE MONUMENT C-34 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1952)--Monument is about 5 miles NW of St. Leonard and 1900 feet westerly of Highway No. 2. It is at the NW corner of a meadow, 3 feet outside the bushes and 10 feet outside the trees on top of the downstream side of a deep gully. It is about 15 feet back from the top of the high bank of the river.

Type F monument.

REFERENCE MONUMENT C-35-52 (Madawaska Co., New Brunswick; N.W.S., 1952)—Monument is about 2 miles SE of Ste. Anne de Madawaska and 300 feet S of Highway No. 2. It is 39 feet south of the south fence of Transcontinental Railroad property. It is on the line between two fields, plowed on west and meadow on east, and 40 feet north of the top of the ridge parallel to the river.

Type F monument.

REFERENCE MONUMENT 126-52 (Aroostook Co., Maine; D.F.C., 1940; N.W.S., 1952)—Monument is on the highest ground on northern La Septieme Isle about one-third of the way down the island from its head and about

midway between the two channels. It is west of the center of a depression in the island, about 50 feet.

Type F monument.

REFERENCE MONUMENT S-37-52 (Aroostook Co., Maine; N.W.S., 1952) -- Monument is about 5-3/4 miles NW of Van Buren and 300 feet N of Highway No. 1, near the corner where the highway approaches the river and continues NW parallel to it. It is in the NW corner of the property used for sawing lumber and making shingles. It is on a knoll and 3 feet east of the fence starting near the monument and running north to the river and 10 feet toward the road from the cellar where a house once stood.

Type D monument.

REFERENCE MONUMENT S-38-52 (Aroostook Co., Maine; D.F.C., 1940; N.W.S., 1952)—Monument is about 5-1/2 miles eastward from Lille. Maine and 800 feet north of Highway No. 1. It is in southwest corner of an open glade at edge of poplar and birch second growth, 75 feet south of the top of the high river bank and near river end of a ridge extending northeast from the high knoll where a pea vinery and large old gravel pit are on opposite sides of the highway. It is about 50 feet northwest of the old road to the cable crossing and directly toward river from the northerly end of the new gravel pit.

Type B monument.

REFERENCE MONUMENT C-36-52 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1952) -- Monument is about a mile SE of Ste. Anne de Madawaska and 300 feet south of Highway No. 2. It is about 50 feet back from top of the river bank and 4 feet from a fence.

Type F monument.

REFERENCE MONUMENT C-37-51 (Madawaska Co., New Brunswick; D.F.C., 1940; N.W.S., 1951)—Honument is in St. Anne, New Brunswick, about 600 feet east of the Catholic Church and 300 feet south of Highway No. 2. It is on the abandoned railroad, toward river from western edge of an old wood colored building and a garage. It is at the edge of wasteland at foot of the slope from the highway.

Type B monument.

REFERENCE MONUMENT S-39-51 (Aroostook Co., Maine; N.W.S., 1951) -- Monument is about 4-1/2 miles eastward from Lille, Maine, on north side of Highway No. 1. It is just on road side of the line of telephone poles and 15 feet north of the edge of the road pavement with the road ditch between. It is 4 feet east of the corner stake of an electric fence, 21 feet east of a telephone pole, 4 feet north of north road ditch and opposite the west end of the bushes along south bank of the bogan north of the highway. Type E monument.

REFERENCE MONUMENT C-38-51 (Madawaska Co., New Brunswick; D.F.C., 1940; N.W.S., 1951) -- Monument is about a mile west of St. Anne, New Brunswick, 300 feet west of a loop of the Quisibis River and 900 feet south of Highway No. 2 at the bridge over this river. It is on railroad property,

north of the tracks, 5 feet east of a telephone pole, 5 feet south of the north railroad fence and 100 feet west of the west end of a railway cut through a sand bank.

Type F monument.

REFERENCE MONUMENT S-40 (Aroostook Co., Maine; J.B.B., 1909; N.W.S., 1951)—Monument is about 3-3/4 miles eastward from Lille, Maine, and about 200 feet north of Highway No. 1. It is at east end of a ridge, 4 feet west of the fence on top the bank of a deep gully with a small creek flowing through it. It is directly across the gully from farm outbuilding, with an old house between the building and the road. There is some brush around the monument.

Type B monument.

REFERENCE MONUMENT S-40A (Aroostook Co., Maine; N.W.S., 1952)--Monument is about 3-3/4 miles E of Lille, Maine, and 10 feet north of Highway No. 1. It is 10 feet NW of the first telephone pole NW of the deep gully west of the house of the owner of the land. There is a large brace on this pole.

Type F monument.

HEFERENCE MONUMENT 128-51 (Medawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1951) -- Monument is on Quisibis Island about 3-1/2 miles easterly from Lille, Maine. It is on the highest part of island about 150 feet from the southern shore and a little west of the center of the island.

Type G monument.

REFERENCE MONUMENT S-41-51 (Aroostook Co., Maine; N.W.S., 1951) -- Monument is a little over 3 miles eastward from Lille, Maine, and 5 feet south of the south fence of Highway No. 1. It is in wasteland opposite the farm buildings on a ridge north of the highway near river bank, 18 feet west of a farm road running south from the house across the road, wasteland and the railroad, and 18 feet east of an electric line pole. It is in the pole line.

Type D monument.

REFERENCE MONUMENT C-39 (Madawaska Co., New Brunswick; G.C.R., 1909; N.W.S., 1951) -- Monument is about 1-3/4 miles west of St. Anne, New Brunswick, and about 500 feet south of the old road on the south side of the rail-road. It is about 400 feet west of the place this road leaves Highway No. 2 and crosses the railroad to south side. It is in a pasture, and close to top of high bank of the river and 20 feet east of a fence perpendicular to the river.

Type A monument.

REFERENCE MONUMENT C-40-51 (Madawaska Co., New Brunswick; D.F.C., 1940; N.W.S., 1951) -- Monument is about 2-3/4 miles west of St. Anne, New Brunswick, and about 600 feet south of the old road on south side of railroad. It is about 100 feet northeast of the river on west side of an old style rail fence, the monument being in one of the jogs of the fence, and inside the line of stakes in the fence.

Type F monument.

REFERENCE MONUMENT S-42-51 (Aroostook Co., Maine; N.W.S., 1951) -- Monument is about 1-3/4 miles southeast of Lille, Maine, and about 700 feet south of Highway No. 1. It is in the northern part of a rockpile and leaning northward. It is 10 feet east of a good farm road south of highway and east of a large farm house. It is about half way up the slope from the road flat and 600 feet west of the woods.

REFERENCE MONUMENT S-42A (Aroostook Co., Maine; N.W.S., 1951)--Monument is about 1-3/4 miles southeast of Lille, Maine on the south side of Highway No. 1. It is 2 feet south of top of road bank on south side of road, and a little on road side of the line of electric poles. It is about one-third of the way from one of these poles westward to a Highway Route 1 road sign. It is about 400 feet west of farm house on same side of the road and nearly opposite the west end of the barn on opposite side of the road. Potato house is across the road from house.

Type F monument.

Type A monument.

REFERENCE MONUMENT 130-51 (Aroostook Co., Maine; F.H.B., 1917; N.W.S., 1951) -- Monument is on La Grande Isle in the St. John River about a mile east of Lille, Maine. It is a little downstream from the center of the island in open ground visible from the south.

Type G monument.

REFERENCE MONUMENT C-41-51 (Madawaska Co., New Brunswick; D.F.C., 1940; N.W.S., 1951) -- Monument is directly across St. John River from eastern edge of Lille, Maine, and southwest of Highway No. 2. It is on the property line at west end of a long narrow garden on the south side of the railroad nearly opposite a brick yard. It is about midway between railroad and fence at top of the high river bank. A clump of trees, mostly poplars, is on top of the bank, toward river from station.

Type B monument.

REFERENCE MONUMENT S-43-51 (Aroostook Co., Maine; N.W.S., 1951) -- Monument is in east edge of Lille, Maine, about 300 feet northerly from Highway No. 1. A ferm road crosses the railroad about 100 feet east of the buildings in the village. Monument is on south side of railroad tracks on railroad property. It is 6 feet north of the south railroad fence and 8 feet east of the gate through this fence.

Type D monument.

REFERENCE MONUMENT S-44 (Aroostook Co., Maine; J.B.B., 1909; N.W.S., 1951) -Monument is about 2 miles east of Grand Isle, Maine, and about 700 feet
southwest of Highway No. 1. It is at the top of the steepest part of
the slope from the road, with a gentle slope to top of ridge 100 feet
farther southward. It is 200 feet northeast of the farm road over the
hill, 2 feet southwest of an electric fence and 6 feet southwest of a
large embedded boulder. It is directly uphill from a shingled potato
house which with other farm buildings is 400 feet from the road. The
west end of an unnamed island in river, potato house and monument are
in line.

Type A monument.

REFERENCE MONUMENT C-42-52 (Madawaska Co., New Brunswick; N.W.S., 1952)—
Monument is about 2 miles SE of Green River and 800 feet south of Highway No. 2. It is about 300 feet southwest of the southerly of a group of ferm buildings on south side of the railroad. A road from the ferm follows the westerly brushy line fence through a cut to the river flats. The monument is on a point of the upper flat at SW corner of the garden and is 5 feet east of the top of the bank through which road is cut and be feet northeast of the top of the bank at right angle to road.

Type F monument.

REFERENCE MONUMENT 134 (Aroostook Co., Maine; F.H.B., 1917; N.W.S., 1951)...

Monument is a little east of the center of Thibadeau Island in the St.

John River, a mile downstream from Grand Isle, Maine. It leans slightly.

Type C monument.

REFFRENCE MONUMENT C-43 (Madewaska Co., New Brunswick; G.C.R., 1909; N.W.S., 1951)—Monument is about a mile southeast of Green River Church, and a half mile south of Highway No. 2. It is the west side of a wire fence in a pasture and on a high ridge 200 feet from river. There are large poplars at edge of bank on line to Grand Isle, Maine.

Type A monument.

REFERENCE MONUMENT S-45-51 (Aroostook Co., Maine; N.W.S..1951)--Monument is a mile east of Grand Isle, Maine, on southwest side of Highway No. 1. It is just on road side of the line of electric light poles, and 25 feet west of the base of the fill around a concrete transformer platform.

Type E monument.

REFERENCE MONUMENT S-46-52 (Aroostook Co., Meine; N.W.S., 1952) -- Monument is 1600 feet southwest of Highway No. 1, opposite the school house in Grand Isle, Maine. A farm road passes over the hill on which the monument is located, starting at the end of a side street and passing a potato house halfway up the hill. It is on a small oval plot left unworked in the center of a 60 acre meadow, on the flat top of the ridge. Type A monument.

REFERENCE MONUMENT S-M6A (Aroostook Co., Maine; N.W.S., 1951) -- Monument is in east edge of Grand Isle, Maine, about 400 feet north of Highway No. 1. It is in the northeast corner of the broad section of railroad property containing the railroad yerds. A road north across the railroad starts between the first two houses east of the potato houses. The monument is east of this road, 5 feet south of north railroad fence and M feet west of fence to narrower right of way and 6 feet east of the end of the gate through which road passes.

Type F monument.

REFERENCE MONUMENT C-44 (Madewaska Co., New Brunswick; G.C.R., 1909; N.W.S., 1951)—Monument is on east side of the old road from Green River, New Brunswick, past the depot to the old cable ferry to Grand Isle, Maine. It is on top of the slope to river flats and about on elevation of the railroad. It is 6 feet east of the east road fence, and midway between Green River, N.B. and the river.

Type A monument.

REFERENCE MONUMENT C-45-52 (Madawaska Co., New Brunswick; N.W.S., 1952) --Monument is about a half mile west of the Green River Church, about midway between Highway No. 2 and the railroad and south of the highway.

It is on the west edge of the fenceline at a point where 3 fields come
together, two of them worked and one unused.

Type A monument.

REFERENCE MONUMENT S-47-51 (Aroostook Co., Maine; N.W.S., 1951) -- Monument is about a mile west of Grand Isle, Maine, and about 800 feet south of Highway No. 1. It is on a high circular rock outcrop and on its southern end where the rock is bare and solid.

Marker is a concrete block 18 inches square and 4 inches thick fastened solidly to the bare rock by irons inserted and cemented into holes drilled in the rock. An I.B.C. tablet is set in the cement block.

REFERENCE MONUMENT S-48 (Aroostook Co., Maine; J.B.B., 1909; N.W.S., 1951) -Monument is about 5-1/2 miles east of the Catholic Church, St. David,
Maine, on an open conical knob on top of a high hill 300 feet south of
Highway No. 1. It is near a wire fence parallel to the road, and about
500 feet east of a large abandoned house and barn on same side of the road.
Type A monument.

REFERENCE MONUMENT C-46 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1951) -- Monument is about 3-1/2 miles east of the Catholic Home in St. Basil, New Brunswick, and about 1200 feet south of the new Highway No. 2. It is on the west side of the fence at east end of the sheep pasture in which Ref. Mon. C-47 is located. It is 15 feet north of top of high river bank, and covered by dirt and grass.

Type F monument with the disk pried off and shaft alone remaining.

REFERENCE MONUMENT C-47 (Madawaska Co., New Brunswick; G.C.R., 1909; N.W.S., 1951)--Monument is about 3-1/4 miles east of the Catholic Home in St. Basil, New Brunswick, and about a thousand feet south of new Highway No. 2. It is in the second field east of a farm house reached by a road directly north across the railroad to the new highway. It is 20 feet north of the bushes at top of the river bank in a sheep pasture, and 40 feet east of the fence at west end of the pasture. An excavated pit for loading machinery is 10 feet west. Monument is on a small knoll.

Type A monument.

REFERENCE MONUMENT S-49-54 (Aroostook Co., Maine; R.K.L., 1954) -- Monument is about 5 miles east of the Catholic Church in St. David, Maine, and 90 feet north of center of Highway No. 1. It is 54 feet south of the center of the Bangor and Aroostook Railroad tracks, 12 feet north of the railroad fence and 15 feet west of a railroad fence.

Type I monument.

REFERENCE MONUMENT C-48 (Madawaska Co., New Brunswick; G.C.R., 1909; N.W.S., 1951) -- Monument is about 2-1/2 miles east of the Catholic Home in St. Basil, New Brunswick, about 300 feet south of the new Highway No. 2. It is on the nose of a prominent knoll and 10 feet lower than its top. It is 4 feet inland from the top of the steep river bank, with a more gradual rise of 7 feet just inland. It is 14 feet east of a fence reaching back to railway.

Type A monument.

REFERENCE MONUMENT S-50-54 (Aroostook Co., Maine; R.K.L., 1954) -- Monument is about 4 miles east of the Catholic Church in St. David, Maine, on the B. and A. Railroad right of way. It is 45 feet south of the center of the railroad tracks, 23 feet east of a farm road, 4 feet north of the southern railroad fence.

Type F monument.

REFERENCE MONUMENT C-49 (Madawaska Co., New Brunswick; G.C.R., 1909; N.W.S., 1951) -- Monument is about 2 miles east of the Catholic Home in St. Basil, N.B., about 500 feet north of new Highway No. 2, which follows old C.P.R. roadbed, and 75 feet south of the old road over the hill on which monument is located. It is about the highest part of the hill, 4 feet outside the brush line on top of hill. It is in the southeast corner of the upper level with brush on the slope east and south down to next bench. Type A monument.

REFERENCE MONUMENT S-51-51 (Aroostook Co., Maine; N.W.S., 1951)--Monument is about 3-1/3 miles east of the Catholic Church, St. David, Maine, and north of Highway No. 1. The outer edge of the marker is in the electric pole line and the inner edge 4 feet north of the ditch line. It is in abandoned farmland, 22 feet west of a tamarack tree growing in shoulder of the road, 35 feet west of electric light pole, 20 feet south of a cellar where old house stood, and 400 feet west of an abandoned house. Another tree is in shoulder of road 50 feet west. Some brush on the abandoned land with dense brush at foot of grade toward river.

Type D monument.

REFERENCE MONUMENT C-50-51 (Madawaska Co., New Brunswick; N.W.S., 1951) -Monument is about 3/4 mile east of the Catholic Home in St. Basil, N.B.,
and about 1600 feet south of Highway No. 2. It is at top of the steep
river bank at the edge of a cultivated field, and nearly in line with
a side road leading north extended toward river. It is near southwest
corner of the high ground with low flats downstream.

Type A monument.

REFERENCE MONUMENT S-52-51 (Aroostook Co., Maine; N.W.S., 1951) -- Monument a little over 2 miles east of the Catholic Church, St. David, Maine, north of Highway No. 1. A good road leads north from the highway to a pea vinery and thence a cross the railroad. The monument is on railroad property, north of the tracks, 4 feet south of north railroad fence and 10 feet east of the road across the railway.

Type D monument.

REFERENCE MONUMENT C-51-51 (Madawaska Co., New Brunswick; N.W.S., 1951) -Monument is about 3/8 mile west of the Catholic Home in St. Basil, N.B.,
and 600 feet north of Highway No. 2. It is 2 feet northwest of the
southwest corner of a large red shingled barn having 4 entrances on
south side. A large tan house is east of the barn and directly toward
the road is the first house in St. Basil on west side.

REFERENCE MONUMENT S-53 (Aroostook Co., Maine; J.B.B., 1909; N.W.S., 1951) -Monument is about 1-1/4 miles east of the Catholic Church, St. David.
Maine, and north of Highway No. 1, about 2000 feet. A good farm road
north from the highway passes close to the monument. It is in the center
of a large hay field on the flat between the river and a large brook
which drains the flat.

Type B monument.

Type F monument.

REFERENCE MONUMENT S-53A (Arosstock Co., Meine; N.W.S., 1951) -- Monument is about 1-1/4 miles east of the Catholic Church, St. David, Maine, on the north side of Highway No. 1. It is in the line of poles and 4 feet east of the second pole east from a farm road to the river.

Type F monument placed flush with ground to prevent damage from potato machinery in potato field along the highway.

REFERENCE MONUMENT C-52 (Madawaska Co., New Brunswick; G.C.R., 1909; N.W.S., 1951) -- Monument is about 1 mile west of the Catholic Home in St. Basil, New Brunswick and 500 feet south of Highway No. 2. It is 10 feet north of the north railway fence and 20 feet west of a line fence running south from the road opposite a side road leading north, to the west end of a small railway cut. It is south of a tan house with red roof on west side of the side road and north side of main highway.

Type B monument.

REFERENCE MONUMENT 134A (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1951) -- Monument is about a mile west of the Catholic Home in St. Basil, N.B., and about north of St. David, Maine, about the center of an unnemed island. It is 30 feet north of the top of the south bank of the island, which is covered by flood water in the spring. It was found buried 10 inches with willows growing over it.

Marker is a 1 foot square concrete block 3 feet long with the 8 inch bronze-mangenese post broken off. Hole punched in center of the shank.

REFERENCE MONUMENT S-54 (Aroostook Co., Maine; J.B.B., 1909; N.W.S., 1951) -- Monument is about 3 miles east of the International Bridge, Madawaska, Maine, and 3/8 mile east of the Catholic Church, St. David, Maine. It is on the north side of Highway No. 1, between the road ditch and the road fence in open country.

Type A monument.

REFERENCE MONUMENT C-53 (Madawaska Co., New Brunswick; G.C.R., 1909; N.W.S., 1951) -- Monument is about 2-1/4 miles east of the Madawaska River and 600 feet east of the Iroquois River and 300 feet south of the Transcontinental

Railroad, and 100 feet north of the St. John River. It is just inland from the bushes along the high bank of the river and opposite a break in the bushline.

Type A monument.

REFERENCE MONUMENT S-55-51 (Aroostook Co., Maine; N.W.S., 1951) -- Monument is about 2 miles east of the International Bridge, Madawaska, Maine, in the southwest corner of the intersection of Highway No. 1 and a good farm road leading south from it. It is in the northeast corner of a cultivated field with a telephone pole 6 feet northwest and a large advertising sign beside the monument on the east side toward the farm road.

Type E monument.

REFERENCE MONUMENT C-54 (Madawaska Co., New Brunswick; G.C.R., 1909; N.W.S., 1951)--Monument is about a mile east of the Madawaska River on the Transcontinental Railroad right of way. It is on the high bank on the north side of the railroad cut through a rocky ledge, and 10 feet back from the top of the cut. It is just inside the line of telephone poles and near west end of a long railroad curve.

Type B monument.

REFERENCE MONUMENT 136 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1951) -- Monument on highest part of the southern Madawaska Island, a little west of the center of the island and a hundred feet from southern shore.

Type C monument.

REFERENCE MONUMENT 138 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1951)—Monument in dense brush a little east of the center of the northern Madawaska Island. Instrument needed to locate it.

Type G monument.

REFERENCE MONUMENT S-56 (Aroostook Co., Maine; J.B.B., 1909; N.W.S., 1951) -Monument is in Madawaska about 1-1/4 miles east of the International
Bridge and 600 feet south of Highway No. 1. It is on top of a steep
grade from the road, about 2 feet west of a brush covered fence leading
south from road, and a little north of its intersection with another
brushy fence along north side of woods.

Type B monument.

REFERENCE MONUMENT C-55-51 (Madawaska Co., New Brunswick; N.W.S., 1951) -Monument is about 1/4 mile east of the Madawaska River, and 200 feet
south of Highway No. 2. It is 3 feet south of the southern base of
the railroad embankment and southeast of a farm road extending to the
flat from the main road nearly opposite a garage. It is 8 feet from
this farm road at a point where the road is about 5 feet above the flat.
Directly south of the monument is a row of poplars on the east side of
a swale.

Type B monument.

REFERENCE MONUMENT C-55A (Madawaska Co., New Brunswick; N.W.S., 1951)-Monument is about 1/4 mile east of the Madawaska River and about 300
feet south of Highway No. 2. It is on the flat land south of the Transcontinental Railroad, in a huge concrete block, rectangular in shape,
10 feet by 15 feet and 4 feet high, above which it slopes to a flat top
3 feet wide and about 8 feet long and nearly 10 feet above the ground.

Marker is an I.B.C. triangulation tablet set flush with the top of the block about 2 feet from its north end - the end toward the

railroad.

REFERENCE MONUMENT S-57-51 (Aroostook Co., Maine; N.W.S., 1951) -- Monument is in Madawaska nearly a quarter mile east of the International Bridge. It is on railroad property and north of the tracks and back of Dist. No. 4 tool house of the B. and A. Railroad. It is 3 feet south toward tool house from top of the high bank of the river and mearly in line with the east side of the tool house extended toward river. It is opposite the only break in the heavy brush on river bank. The old monument replaced is still in existence but under the basement of a new school building.

Type F monument.

REFERENCE MONUMENT C-56-51 (Madawaska Co., New Brunswick; N.W.S., 1951) -- Monument is on a concrete platform 4 feet square at southeast corner of the Canadian Customs House in Edmunston, N.B. It is in center of the platform and 35 inches from the corner of the Customs House.

Marker is an I.B.C. triangulation tablet set flush in the surface

of the concrete platform.

MADAWASKA-EDMUNSTON BRIDGE TABLETS (Maine-New Brunswick; J.H., 1931; N.W.S., 1951)--These are standard I.B.C. bridge tablets and are fastened to the sides of the highway bridge across the St. John River, between Madawaska, Maine and Edmunston, N.B. They mark the intersection of the International Boundary with the sides of the highway bridge.

REFERENCE MONUMENT S-58-40 (Aroostook Co., Maine; D.F.C., 1940; N.W.S., 1951) -- Monument is in Madawaska about 1/8 mile west of International Bridge, on the south side of a conical hill on top of the steep slope southerly from Highway No. 1. A side street is just east of the monument which is 6 feet north of a small garage. Visibility from monument is very limited in all directions since the city has been built up around it.

Type B monument.

MEFERENCE MONUMENT C-57-51 (Madawaska Co., New Brunswick; N.W.S., 1951) -Monument is about 1 mile west of International Bridge, Edmunston, N.B.,
and south of Highway No. 20. It is on railroad property, 6 feet north
of the top of the railroad bank, directly back of the home of Mr. Lenney,
a railroad clerk, who has a fine home with a raised and graded lawn just
west of a group of cabins. A line of small trees is just north of the
monument. It is 10 feet south of tree line, 30 feet southwest of the
corner cabin, and 50 feet west of a cable crossing the river.

Type F monument.

REFERENCE MONUMENT S-59-51 (Aroostook Co., Maine; N.W.S., 1951-52)--This monument is about 3/4 mile west of the International Bridge, Madawaska, Maine, and south of Highway No. 1. It is in the line of light poles on south side of road and east of the monument, and near the road end of a rail fence. About 75 feet south is a fence parallel to road and a road fence runs west from the monument with a gate into a pasture in the corner near the monument for passage of cattle and farm machinery. A new house is being started east of the monument in the lot it is in.

Type D monument.

REFERENCE MONUMENT C-58-52 (Madawaska Co., New Brunswick; N.W.S., 1952) -Monument is nearly 1-1/4 miles west of the International Bridge.
Edmunston, N.B., and south of Highway No. 20. It is in southwest corner
of an open building lot, 5 feet north of the top of the railroad embankment, and 3 feet downstream from the northwest side of an old building
extended toward the river.

Type I monument.

MEFERENCE MONUMENT S-60 (Aroostook Co., Maine; J.B.B., 1909; N.W.S., 1951)-Monument is just over a mile west of the International Bridge, Madawaska,
Maine, and south of Highway No. 1. It is 4 feet east of a fence running
south from the highway and at the top of the steep grade from the road.
There is considerable brush along this fence and also the road fence at
this place which is near the top of a grade in the road. An oatfield is
east of the monument.

Type B monument.

REFERENCE MONUMENT S-61-51 (Aroostook Co., Maine; N.W.S., 1951)--Monument is about 2 miles westward from the International Bridge, Madawaska, Maine, and on the southeast side of Highway No. 1. It is about on line of telephone poles, 30 feet westward from the nearest pole, in grass ground 3 feet westward from the west edge of plowed ground. It is across the road and 75 feet eastward from a new house being built.

Type E monument.

REFERENCE MONUMENT C-59-51 (Madawaska Co., New Brunswick; N.W.S., 1951) -Monument is about 2 miles west of Edmunston, N.B., about 700 feet north
of Highway No. 20. It is in the western edge of a meadow near the fence
on a gradual grade from the road toward top of hill. Monument plumbed
and relocated.

Type A monument.

REFERENCE MONUMENT C-59A (Madewaska Co., New Brunswick; N.W.S., 1951) -Monument is about 2 miles west of Edmunston, N.B., on the south side of
Highway No. 20. It is south of the road ditch, 3 feet north of road
fence, and 12 feet each from telephone pole to east and gap in road
fence to the west. It is 4 feet below the level of the road.

Type F monument.

REFERENCE MONUMENT S-62-51 (Aroostook Co., Maine; N.W.S., 1951) -- Monument is about 2-1/2 miles westward from International Bridge, Madawaska, Maine, and on east side of Highway No. 1. It is in a pasture, 3 feet east of the

road fence on east side of road, and about on line toward road from the west end of a small farm building. There is a larger barn on same side of road a little east of the monument with the main farm buildings across the road from this barn.

Type D monument.

REFERENCE MONUMENT C-60 (Medawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951) -- Monument is about 2-3/4 miles westward from Edmundston, N.B., and north of Highway No. 20. It is about 300 feet west of a crossroad at a large barn about 500 feet north of the highway. It is in the edge of a small clump of bushes near the top of the hill.

Type B monument.

REFERENCE MONUMENT S-63A (Aroostcok Co., Maine; R.K.I., 1954)--Monument is about 3 miles westerly from the International Bridge, Madewaska, Maine and 57 feet South of the center of Highway No. 1. It is 133 feet W of the drive-in theater screen, 67 feet W of a power line pole, 2 feet W of a low picket fence and 17 feet southerly from Reference Monument S-63-51, which will probably be destroyed by road construction.

Type F monument.

REFERENCE MONUMENT C-61 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951) -- Monument is about 3-1/2 miles southwest of Edmundston, N.B., and 100 feet east of Highway No. 20. It is on the old abandoned railroad right of way, near eastern end of an open, narrow meadow.

Type A monument.

REFERENCE MONUMENT C-62 (Medawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951) -- Monument is about 4 miles southwestward from Edmundston, N.B., about 200 feet east of Highway No. 20 on the open roadbed of the abandoned Temiscouata Railway.

Type B monument.

REFERENCE MONUMENT S-64 (Aroostook Co., Maine; J.B.B., 1910; N.W.S., 1951)—
Monument is about 3-3/4 miles westerly from International Bridge, Medawaska, Maine, on the east side of Highway No. 1. It is in a flat pasture just east of the fence at the top of the steep grade from the road. It is about 300 feet from the highway at a point about 400 feet south of the brick yard.

Type A monument.

REFERENCE MONUMENT C-63-51 (Madawaska Co., New Brunswick; N.W.S., 1951)-Monument is about 4-1/2 miles westward along Highway No. 20 from Edmundston,
N.B.; it is 16 feet east of the road in the ditch at foot of the high
road bank.

Type B monument.

REFERENCE MCNUMENT S-65-51 (Aroostook Co., Maine; N.W.S., 1951) -- Monument is about 3 miles north of Frenchville, Maine, on the north side of a branch road which extends from Highway No. 1 about 1/4 mile south of the brick yerd. It is in a pasture 3 feet north of the road fence and on the

flat top of the hill 50 feet east of the top of the steep grade from the main highway.

Type B monument.

REFERENCE MONUMENT C-64 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951) -- Monument is about 2-1/4 miles northeast of St. Hilaire, N.B., about 600 feet west of Highway No. 20, in an open pasture. It is about 125 feet south of a fence and 300 feet west of another fence.

Type B monument.

REFERENCE MONUMENT S-66-51 (Aroostook Co., Maine; N.W.S., 1951) -- Monument is about 2-1/4 miles north of Frenchville, Maine, in the line of telephone poles on east side of Highway No. 1. It is 4 feet east of the top of a bank along ditch, 12 feet south of a telephone pole and 16 feet north of a road sign.

Type E monument.

REFERENCE MONUMENT C-65-51 (Madawaska Co., New Brunswick; N.W.S., 1951) --Monument is on east side of Highway No. 20 about 2 miles northeast of St. Hilaire, N.B.. It is midway between ditch line and the road fence opposite the house of Josaphel Albert and 4 feet north of a telephone pole.

Type F monument.

REFERENCE MONUMENT S-67-51 (Aroostook Co., Maine; N.W.S., 1951) -- Monument is about 2 miles north of Frenchville, Maine, just across ditch line on west side of Highway No. 1, and a few feet north of a telephone pole. West edge of momument is on line of wire fence along road. Type E monument.

REFERENCE MONUMENT S-68-51 (Aroostook Co., Maine; N.W.S., 1951) -- Monument is about 1-1/2 miles north of Frenchville, Maine, on west side of Highway No. 1, opposite a farm. It is on property of Joe Cullin, in the northwest corner of a narrow pasture between the road and the railroad. It is about 6 feet east of railroad fence and same south of the fence on south side of a farm road crossing the railroad.

Type D monument.

REFERENCE MONUMENT C-66 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951) -- Monument is on the peak of a high, rather pointed hill at the southeast end of a high ridge north of St. Hilaire, N.B. Several evergreens are on the peak just north of the monument. It is in pacture, about 20 feet west of a fence running north over the hill from the point Highway No. 20 crosses the old Temiscouata Ry. right of way. A farm road extends up the hill a little west of the monument, which is 2000 feet north of the highway near the Catholic church. Rebuilt in 1951. Type B monument.

REFERENCE MONUMENT S-69 (Aroostook Co., Maine; J.B.B., 1910; N.W.S., 1951) --Monument is about a quarter mile east of Frenchville, Maine, about 500 feet southeast of Highway No. 1, about opposite a factory on the east side of highway. It is near the top of a steep slope, and in the edge

of brush on southwest side of woods. Invisible from river below Michaud Island.

Type B monument.

MEFERENCE MONUMENT 139 (Arocetock Co., Maine; F.H.B., 1917; N.W.S., 1951) -Monument is at north edge of the cultivated land on Michaud Island near
Frenchville, Maine, about 600 feet west of the east end of the island.

It is visible from the road southeast of island. A stone causeway
connects the island with the mainland.

Type C monument.

HEFERENCE MONUMENT S-70-51 (Aroostook Co., Maine; N.V.S., 1951) -- Monument is in west edge of Frenchville, Maine about 400 feet north of Highway No. 1, and on railroad property. It is north of the railroad tracks on a high bank between a telephone pole on west and a fence corner to east. It is about 25 feet west of the switch at west end of the Frenchville railroad yards, but on opposite side of track.

Type D monument.

REFERENCE MONUMENT 140 (Aroostook Co., Maine; F.H.B., 1917; N.W.S., 1951) -Monument is about 300 feet east of the west end of Michaud Island in the
St. John River at Frenchville, Maine. This island is connected with the
main shore by a stone causeway. It is at west end of the cultivated land.
Type C monument.

REFERENCE MONUMENT 151-51 (Aroostook Co., Maine; F.H.B., 1917; N.W.S., 1951) -- Monument is on a cultivated island in the St. John River just west of Michaud Island near Frenchville, Maine. It is in the edge of buckwheat, with the base covered with dirt and about 125 feet from the north shore of the island.

Type C monument.

REFERENCE MONUMENT 142-51 (Aroostook Co..Maine; N.W.S., 1951)—Monument is on an island in the St. John River near Frenchville, Maine, and near the U.S. shore southwest of Michaud Island. The eastern end of this island is connected with the mainland by a causeway of rocks. Monument is about center of island east and west and 4 feet south of the top of the high north bank of the island. It is 52 feet west of a double tree on the bank, 9 feet west of a smaller tree, 20 feet east of bushes 15 feet high, and 4 feet north of the grainfield on the island.

Marker is 15 inches square, 3 feet long, projecting 4 inches above ground with I.B.C. tablet in flat top.

REFERENCE MONUMENT S-71 (Arcostock Co., Maine; J.B.B., 1910; N.W.S., 1951) -Monument is about a mile east of Upper Frenchville, Maine, about 600
feet south of Highway No. 1 and 300 feet west of a branch highway leading south. It is in and near north end of a large clump of bushes in the center of an oatfield. Owner expects to clear the land in near future.

Type A monument.

REFERENCE MONUMENT S-71A (Aroostook Co., Maine; N.W.S., 1951) -- Monument is about a mile east of Upper Frenchville, Maine, about 600 feet S of Highway No. 1, and just across west ditch of a crossroad leading south. It is at the south edge of the part of the field covered by bushes. Owner expects to clear the land in near future.

Type D monument.

REFERENCE MONUMENT C-67 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951)—Monument is about 1/2 mile west of St. Hilaire, N.B., and about 200 feet north of Highway No. 20. It is on top of a high, rather pointed hill at the end of a ridge extending northerly from the monument. There are several evergreens on the peak near the monument and a number on the slope north of the road. It is about 20 feet west of a fence running north over the hill from the place the highway crosses the old Temiscouata Railway right of way.

Type B monument.

REFERENCE MONUMENT S-72-54 (Arcostook Co., Maine; R.K.L., 1954) -- This monument is Ste. Luce Catholic Church spire in Upper Frenchville, Maine.

Monument is the peak of the steeple.

REFERENCE MONUMENT C-68 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951)—Monument is about 4 miles east of Baker Brook, N.B., about 1500 feet north of Highway No. 20 and 500 feet east of a crossroad going north from the main highway. It is in the corner of a pasture on top of a circular knoll, covered with evergreens. A fence between pasture and meadow is 20 feet west southwest of monument.

Type A monument.

REFERENCE MONUMENT 143 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1951)—Monument is in alders on Pine Island in the St. John River west of Upper Frenchville, Maine, and about 200 feet north of the center of the island.

Type C monument.

REFERENCE MONUMENT S-73 (Aroostook Co., Maine; J.B.B., 1910; N.W.S., 1951)—Monument is about 1-1/2 miles west of Upper Frenchville, Maine and south of the railroad and about 250 feet south of Highway No. 1. It is nearly opposite west end of Pine Island and in brush.

Type A monument.

REFERENCE MONUMENT 144 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1951) -- Monument is on Pine Island in the St. John River west of Upper Frenchville, Maine. It is about 125 feet from southerly shore and about 300 feet southeast of the western tip of the island. It is in alders.

Type C monument.

REFERENCE MONUMENT C-69 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951)—Monument is about 2-3/4 miles east of Baker Brook, N.B., and nearly 900 feet north of Highway No. 20 in a north and south fenceline. It is 40 feet north of a cross fence. There is a meadow west of it, and a pasture with second growth to the east.

Type A monument.

REFERENCE MONUMENT S-74-51 (Aroostook Co., Maine; N.W.S., 1951) -- This monument is about 2-1/2 miles west of Upper Frenchville, Maine, on a lot line 700 feet south of Highway No. 1. It is on the rear or south edge of a large flat knoll, at the west edge of a farm road extending from the highway south across the railroad. A large poteto field is immediately west of monument and an oatfield across the farm road to the east.

Type B monument.

REFERENCE MONUMENT S-74A (Aroostook Co., Maine; N.W.S., 1951) -- Monument is about 2-1/2 miles west of Upper Frenchville, Maine, on the south side of Highway No. 1. It is 7 feet west of a telephone pole with a large wooden brace on its south side, 1 foot toward road from line of telephone poles and about 54 feet east of the center of the farm road extending south across the railroad.

Type F monument.

REFERENCE MONUMENT C-70 (Madawaska Co., NewBrunswick; G.C.R., 1910; N.W.S., 1951) -- Monument is about 2 miles east of Baker Brook, N.B., and about 400 feet north of Highway No. 20. It is near south edge of a knoll in low brush, with white birches nearby. Open meadow toward road. It is 125 feet east of a rail fence.

Type A monument.

REFERENCE MONUMENT S-75 (Aroostook Co., Maine; J.B.B., 1910; N.W.S., 1951) -Monument is about 7 miles easterly of Kent Hotel, Fort Kent, Maine, south
of both Highway No. 1 and the railroad. It is near the top of a steep
slope up from the railroad and on a pointed projection of the hill. A
farm road starts in a bend in the highway and leads south across the
railroad a little west of the monument.

Type A monument.

REFERENCE MONUMENT 145 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1951) -- Monument is on Fifth Island in the St. John River between Upper Frenchville, Maine and Baker Brook, N.B. It is a little southwest of the center of the island in an oat field.

Type C monument.

REFERENCE MONUMENT 146 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1951) -- Monument is about the center and highest part of Fourth Island, and is visible from the Transcontinental Railway. The island is uncultivated.

Type C monument.

REFERENCE MONUMENT 147 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1951) -- Monument is about 500 feet west of the east end of Daigle Island and 200 feet north of its southern shore. It is in an open meadow.

Type C monument.

REFERENCE MONUMENT S-76-31 (Aroostook Co., Maine; J.H., H.S.M., 1931; N.W.S., 1951)--Monument is about 6-1/4 miles easterly from Kent Hotel, Fort Kent. Maine, south of the west end of Daigle Island. It is on the south side of Highway No. 1, in a narrow open space between the road and railroad. Type A monument.

REFERENCE MONUMENT 149 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1951) -- Monument is at top of bank at west end of Daigle Island at northwest corner of the highest ground on the island. It is about 400 feet north of the southeast corner of Turtle Island, and across the narrow stream between the islands.

Type C monument.

REFERENCE MONUMENT C-71-31 (Madawaska Co., New Brunswick; J.H., H.S.M., 1931; N.W.S., 1951) -- Monument is about 1-1/4 miles east of Baker Brook, N.B., about 500 feet north of Highway No. 20. It is on the flat at foot of the slope, on the old Temiscouata Rwy. right of way. The railway has been discontinued east from Baker Brook Junction to Edmundston. It is about 35 feet west of a farm road starting north opposite a huge barn on south side of highway, and 250 feet west of the trees at top of a creek bank. Type B monument.

REFERENCE MONUMENT C-72 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951) -- Monument is about a half mile east of Baker Brook, N.B., and about 250 feet north of Highway No. 20. It is on top and near NW corner of an irregular knoll largely covered by outcropping rocks. There is a large cross on top of the hill, 125 feet south of the monument toward the road. Type A monument.

REFERENCE MONUMENT 151 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1951) -- Monument is about 100 feet east of the west end of Turtle Island near Baker Brook, N.B. It is between the end of the island and the cellar of a building now gone.

Type C monument.

REFERENCE MONUMENT 151A-39 (Madawaska Co., New Brunswick; D.F.C., 1939; N.W.S., 1951)—Monument is near northern side of an unnamed island south of Turtle Island and east of Baker Island. The island is low and covered by the river when in flood. The monument is buried 8 inches under silt and is in a dense growth of trees and bushes and was only recovered by use of instrument.

Type F monument.

REFERENCE MONUMENT S-77 (Arcostook Co., Maine; J.B.B., 1910; N.W.S., 1951)-Monument is about 5-3/4 miles easterly from Kent Hotel, Fort Kent, Maine,
on the north side of Highway No. 1. It is in scattering brush in unused
land between road and railroad.

Type B monument.

REFERENCE MONUMENT 153 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1951) -- Monument is on Baker Island opposite Baker Brook, N.B. It is about 200 feet west of the east end of the island and just south of a deep depression in the island.

Type C monument.

REFERENCE MONUMENT S-78-53 (Aroostook Co., Maine; R.K.L., 1953) -- Monument is about 5-1/4 miles easterly from the Kent Hotel, Fort Kent, Maine, north of Highway No. 1, near the east end of a long curve in the road, just east

of the only prominent house in the vicinity. It is on the B. and A. railroad property, on the south side of the track, a few feet from the south fence.

Type D monument.

REFERENCE MONUMENT C-73 (Madawaska Co., NewBrunswick; G.C.R., 1910; N.W.S., 1951) -- Monument is about 1/4 mile west of Baker Brook, N.B., a bout 700 feet north of Highway No. 20, and back of a large farm house on the southern edge of the Transcontinental Railway property. It is on outcroping rocky ridge near the east end of flat meadow land at top of slope from the railway. It is 80 feet west of a fence and 90 feet northwest of a farm building near the fence.

Type A monument.

REFERENCE MONUMENT S-79-53 (Arosetook Co., Maine; R.K.L., 1953) -- Monument is about 5 miles easterly from Kent Hotel, Fort Kent, Maine, north of Highway No. 1. It is on the B. and A. Railroad property, on the south side of the track, and about 300 feet west of the end of a prominent curve in the highway.

Type D monument.

REFERENCE MONUMENT C-74 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951)—Monument is about 3/4 mile west of Baker Brook, N.B., and about 200 feet north of the old road on north side of the railway. It is in a dense growth of thorn bushes in the fence line back of an unused imitation brick house on the hillside north of the road. It is nearly at the top of the steep grade from the road and 30 feet west of an outbuilding. Type A monument.

REFERENCE MONUMENT S-80-51 (Aroostook Co., Maine; N.W.S., 1951) -- Monument is about 4-3/4 miles easterly from Kent Hotel, Fort Kent, Maine, and on north side of Highway No. 1, opposite house of Alcide H. Daigle. It is about two-thirds distance from road to the fence between road property and the railroad property and about 15 feet east of a gate through this fence where a farm road crosses the railroad. It is about 3 feet lower than the crown of the road.

Type D monument.

REFERENCE MONUMENT C-75 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951) -- Monument is about 1-1/2 miles W of Baker Brook, N.B., and about 900 feet N of the corner where old road on north side of the railway crosses the railway to join Highway No. 20. A good farm road leads from the farm on this corner north along east side of the meadow in the center of which the monument is located. It is 150 feet W of this farm road in the southern edge of a small rock pile, and 75 feet N of the top of the grade from the railroad.

Type B monument.

REFERENCE MONUMENT S-81-51 (Aroostock Co., Maine; N.W.S., 1951) -- Monument is about 4 miles easterly from Kent Hotel, Fort Kent, Maine, 6 feet S of the top of the bank on south side of Highway No. 1, in a place where there is a 30 foot opening in the brush along the road on top of the bank. It is 40 feet W of where a farm trail leaves the road.

Type D monument.

REFERENCE MONUMENT S-81A (Aroostook Co., Maine; R.K.L., 1954) -- Monument is about 4 miles easterly from Kent Hotel, Fort Kent, Maine, 109 feet N of Ref. Mon. S-81-51, 65 feet N of center of Highway No. 1 and 15 feet below the level of the road. A new house was being built across the road.

Type F monument.

REFERENCE MONUMENT C-76-52 (Madawaska Co., New Brunswick; N.W.S., 1952)—Monument is nearly 2 miles west of Baker Brook, N.B., and about 800 feet north of Highway No. 20. It is in a cultivated field about 600 feet N of the railway property, and was renewed in 1940. It is 200 feet N of the top of the main slope from the railway.

Type B monument.

REFERENCE MONUMENT C-76A (Madawaska Co., New Brunswick; N.W.S., 1951)—Monument is about 2 miles west of Baker Brook, N.B., on Transcontinental Railway property. It is about 200 feet north of Highway No. 20, and near the east end of the high bank on the north side of the tracks. It is about 5 feet E of a telephone pole, 8 feet S of the railway fence, and about 100 feet W of a ferm road from Highway No. 20 north across the railway.

Type F monument.

REFERENCE MONUMENT S-82-52 (Arcostook Co., Maine; N.W.S., 1952) -- Monument is about 3-1/4 miles eastward from Kent Hotel, Fort Kent, Maine, on the south side of Highway No. 1. It is 200 feet from the road on an abandoned ferm and on the slope straight uphill from the house.

Type A monument.

REFERENCE MONUMENT C-77 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951) -- Monument is about 1-1/4 miles east of Caron Brook, N.B., and nearly 500 feet N of Highway No. 20. It is on a knoll on Transcontinental Railway property on south side of the tracks and 2 feet north of the railway fence.

Type B monument.

REFERENCE MONUMENT S-83-51 (Aroostook Co., Maine; N.W.S., 1951) -- Monument is about 2-3/4 miles eastward of Kent Hotel, Fort Kent, Maine, on north side of Highway No. 1. It is in line with the outer edge of telephone poles, opposite the east end of a house across the road, 3 feet outside the garden, 15 feet W of a telephone pole, and 90 feet W of a potato house. Type E monument.

REFERENCE MONUMENT C-78 (Medawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951) -- Monument is about 1/2 mile east of Caron Brook, N.B., and 300 feet N of Highway No. 20. It is about 50 feet N of the Transcontinental Railway property on top of a high bank and 75 feet E of a brushydraw.

Type B monument.

REFERENCE MONUMENT S-84-54 (Aroostook Co., Maine; R.K.L., 1954) -- Monument is about 2-1/2 miles NE of Kent Hotel, Fort Kent, Maine, about a quarter mile east of where Highway No. 1 swings due east. It is on the N side of the highway, 55 feet W of a field road leading north; 6 feet S of a fence; 40 feet E of a telephone pole.

Type F monument.

REFERENCE MONUMENT S-85 (Aroostook Co., Maine; J.B.B., 1910; N.W.S., 1951) -Monument is on the northwest side of Highway No. 1, where it bends to the
east, about 2 miles northward from the Kent Hotel, Fort Kent, Maine. It
is on a rounded knoll, about 350 feet from the road with a low creek
valley about 150 feet northeast.

Type A monument.

REFERENCE MONUMENT C-79 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951) -- Monument is on the top of a hill about a quarter mile west of Caron Brook, N.B. and about 1000 feet north of the Temiscouata Rwy. It is in the edge of an oatfield, 25 feet north of the fence between the field and a pasture.

Type B monument.

REFERENCE MONUMENT C-80 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951) -- Monument is about 1600 feet north of Highway No. 20A, 2 miles east of the International Bridge, Clair, N.B. It is against the west side of a line fence running northwest from the railroad over the hill and at the top of the first long grade from the railroad with a more gentle slope extending northward. A farmroad extends from the road up the hill 300 feet west of the monument and a large rock pile is in the meadow 80 feet west of it.

Type A monument.

REFERENCE MONUMENT S-86 (Aroostook Co., Maine; J.B.B., 1910; N.W.S., 1951) -Monument is on a prominent point on east side of Highway No. 1, about
1-1/2 mile north of Kent Hotel, Fort Kent, Maine. The point is covered
with second growth evergreens and the monument is about 100 feet inside
the woods near the end of an old roadway cut up the hill. A cattle shed
is near the woods at foot of the slope, a little east of this roadway.
Type A monument.

REFERENCE MONUMENT C-81-52 (Madawaska Co., New Brunswick; N.W.S., 1952) -- Monument is about 2000 feet north of Highway No. 20A, 1-1/2 miles east of the International Bridge, Clair, N.B. It is 80 feet east of a fence extending northwest from the railroad, 10 feet north of the top of a steep bank, and near the foot of a steep slope to the ridge to the north. Many small trees are nearby.

Type A monument.

REFERENCE MONUMENT S-87-51 (Aroostook Co., Maine; N.W.S., 1951) -- Monument is west of Highway No. 1. 3/4 miles north of the Kent Hotel, Fort Kent, Maine. It is in an unused meadow, 20 feet west of the woods along west side of the highway and is about 800 feet north of the new hospital.

Type A monument.

REFERENCE MONUMENT S-38 (Aroostook Co., Maine; J.B.B., 1910; N.W.S., 1951) -- Monument is on the side hill northeast of Fort Kent in open ground and visible from the street in Fort Kent near the Kent Hotel. An oat field is just north of the monument.

Type B monument.

REFERENCE MONUMENT C-82 (Madawaska Co., New Brunswick; N.W.S., 1951) -Monument is east of the first road leading north from Highway No. 20A,
about 1000 feet east of the International Bridge, Clair, N.B. It is on
an outcropping rocky ledge, 30 feet in rear (east) of a small wooden
house on east side of the road, about 400 feet after crossing railroad.
Type B monument.

FORT KENT-CLAIR BRIDGE TABLETS (Maine-New Brunswick; J.H., H.S.M., 1931; N.W.S., 1951) -- These are the standard bridge tablets and are attached to the sides of the bridge across the St. John River between Fort Kent and Clair and mark the intersection of the International Boundary with the sides of the bridge.

REFERENCE MONUMENT S-89 (Aroostock Co., Maine; J.B.B., 1910; N.W.S., 1951) -- Monument is in open pasture on a side hill east of the stores in Fort Kent and south of the B. and A. Railroad crossing over the Eagle Lake Road. It is 11 feet east of a wire fence and 75 feet south from the fence around a cultivated field.

Type B monument.

REFERENCE MONUMENT S-90-51 (Aroostook Co., Maine; N.W.S., 1951) -- Monument is near the top of the ridge directly south of the Fort Kent-Clair Bridge, in the center of an oat field. It is near the east side of the higher part of the field, the highest point being about 150 feet W of the station.

Type B monument.

REFERENCE MONUMENT S-90A (Aroostook Co., Maine; N.W.S., 1951) -- Monument is on the high bank on the southern side of the B. and A. Railroad opposite the railroad tool house on west end of Fort Kent. It is 4 feet W of a fence perpendicular to railroad and 10 feet S of the line of the railroad right of way fence extended westward.

Type F monument.

REFERENCE MONUMENT C-83-51 (Madawaska Co., New Brunswick; N.W.S., 1951) -Monument is on railroad property in Clair, N.B., about 500 feet W of the
railroad station. It is near the fence on N side of the railroad near
west end of the wider right of way strip, opposite about the center of
the old gravel pit.

Type B monument.

REFERENCE MONUMENT S-91 (Aroostook Co., Maine; J.B.B., 1910; N.W.S., 1951) -Monument is 7/8 mile W of the bridge between Clair and Fort Kent and shout
100 feet toward river from the top of the slope south from the railroad.
It is in dense brush along the remains of an old rock fence and 10 feet
west of the potato field.

REFERENCE MONUMENT C-84-51 (Madawaska Co., New Brunswick; N.W.S., 1951) -- Monument is north of Highway No. 20A, about 5/8 mile W of the International Bridge, Clair, N.B. It is on railroad property near the south fence and about 400 feet west of a barn.

Type B monument.

REFERENCE MONUMENT S-92 (Aroostook Co., Maine; J.B.B., 1910; N.W.S., 1951) -- Monument is 1-1/2 miles west of Fort Kent Custom House, and is near the telephone pole in the southwest corner of the junction of Highway No. 1 and a road leading south.

Type B monument.

REFERENCE MONUMENT C-85-51 (Madawaska Co., New Brunswick; N.W.S., 1951)-Monument is 7 feet south of the road ditch on the south side of Highway
No. 20A, about 1-1/4 miles west of the International Bridge, Clair, N.B.
It is in a meadow in the telephone pole line and about 125 feet west of
a barn.

Type B monument.

REFERENCE MONUMENT C-86 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951)--Monument is 8 feet north of the edge of Highway No. 20A, about 1-1/2 miles west of the International Bridge, Clair, N.B. It is 8 feet southeast of the corner of the porch on a house.

Type A monument.

REFERENCE MONUMENT S-93-51 (Aroostook Co., Maine; N.W.S., 1951) -- Monument is 1-7/8 miles west of Fort Kent Custom House on the line of electric line poles on north side of Highway No. 1. It is at edge of the road shoulder; 5 feet east of a telephone pole (supported by a deadman on side opposite road) and used to brace the pole across the road. It is about 100 feet west of the barn of Clarence Jalbert, whose house is on opposite side of road. An electric light pole with a deadman attached is about 30 feet east.

Type E monument.

REFERENCE MONUMENT S-94-52 (Aroostook Co..Maine; N.W.S., 1952)--Monument is on grounds of the Longfellow School about 2-1/4 miles west of Fort Kent Customs House. It is in the line of telephone poles on the north side of Highway No. 1 and midway between the line of the west side of schoolhouse extended and the west line of the school property.

It was originally a Type A monument, but the concrete block is gone. The monument center is the top of an iron pin in center of the top.

REFERENCE MONUMENT C-87 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951)—Monument is about 1000 feet north of Highway No. 20A, about 2 miles west of the International Bridge, Clair, N.B. It is in cultivated land about 10 feet north of the top of a steep slope to the flats along the highway and 100 feet south of a fence running east and west at the foot of the hill.

Type A monument.

REFERENCE MONUMENT S-95 (Aroostook Co., Maine; J.B.B., 1910; N.W.S., 1951) -Monument is about 2-3/4 miles west of Customs House in Fort Kent. It is
located 100 feet north of Highway No. 1 in a wire fence line and 30 feet
south of the top of a steep bank. Fence is between a garden on west and
a grain field on east.

Type A monument.

REFERENCE MONUMENT 154 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1951)—Monument is on Kennedy Island in the St. John River. It is about 100 feet north of an inlet at east end of island and about 800 feet southwest of the eastern point of the island, and 10 feet east of a large lone elm tree in a pasture.

Type C monument.

REFERENCE MONUMENT 155 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1951) -- Monument is on Kennedy Island in the St. John River. It is in brush at the west end of the long meadow on the island and about 300 feet from west end of island.

Type C monument.

REFERENCE MONUMENT C-88-52 (Madawaska Co., New Brunswick; N.W.S., 1952)—Monument is about 1000 feet north of Highway No. 20A, about 2-3/4 miles west of the International Bridge, Clair, N.B. It is on a gradual slope and about 30 feet north of the top of the steep slope down to the flat by the road. It is 3 feet east of a rail fence at the edge of a wooded pasture with a wire fence running easterly starting about 8 feet south of the monument.

Type A monument.

REFERENCE MONUMENT C-89 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951) -- Monument is in pasture land 300 feet north of highway No. 20A, about 3 miles west of the International Bridge in Clair, N.B., It is on a prominent hill, near the top of the second slope from the road, and 25 feet southeast of the fence corner, where an east-west rail fence and a north-south wire fence start.

Type A monument.

REFERENCE MONUMENT S-96-52 (Aroostook Co., Maine; N.W.S., 1952)--Monument is about 3-1/2 miles west of Fort Kent Customs House on Daigle property. A farm road leads south from west of Daigle home and past their potato house beside railroad track. It is 30 feet beyond the top of the steep slope south of the tracks in an old fence line between two meadows, and is about 400 feet north of the woods on the ridge.

Type A monument.

REFERENCE MONUMENT C-90 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951) -- Monument is on an open rocky ledge extending southwest from a high ridge and is about 1200 feet north of Highway No. 20A. a half mile east of St. Francois, N.B. It is visible from the road southwest of it and is about 200 feet west of a fence. The open ledge is largely surrounded by second growth evergreens and poplars.

Type A monument.

REFERENCE MONUMENT S-97 (Aroostook Co., Maine; J.B.B., 1910; N.W.S., 1951) -Monument is about 5 miles west of Fort Kent Customs House on top of a
round knoll on north side of Highway No. 1. It is about 150 feet from
the road and about on town line between St. John and Fort Kent towns.
A town line sign post is beside road opposite monument.

Type B monument.

REFERENCE MONUMENT C-91 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951) -- Monument is about 600 feet east of the side road going north from Highway No. 20A at St. Francois, N.B. It is in dense woods on the southwest point of the ridge north of the railroad and east of this northerly road. It is 65 feet east of the open ground east of the cemetery, with some woods between cemetery and open ground.

REFERENCE MONUMENT S-98-52 (Aroostook Co., Maine; N.W.S., 1952) -- Monument is about 1/2 mile west of St. Francois, N.B. near west end of a large meadow. It is about 800 feet north of Highway No. 1 and 20 feet east of the top of a steep bank down to the river flats south of the east end of Cranberry Island.

Type B monument.

Type A monument.

REFERENCE MONUMENT C-92 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951)—Monument is in a meadow on north side of Highway No. 20A, about a mile west of St. Francois, N.B. and easily visible from the sharp bend in the road. It is at the top of the gradual slope from the railroad, 75 feet south of an old stone wall, 125 feet south of a rail fence and 80 feet west of a wood fence.

Type B monument.

REFERENCE MONUMENT C-92A (Madawaska Co., New Brunswick; N.W.S., 1951) -Monument is on railroad property, north of Highway No. 20A, at a sharp
bend about a mile west of St. Francois, N.B. It is on north side of the
rails and midway from them to the north fence. It is 35 feet west of
the west end of the railroad bridge over a small stream, and 100 feet
west of the east end of curve in road. It is about midway between two
roads crossing the railroad to two dwellings.

Type F monument.

REFERENCE MONUMENT C-93 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951)—Monument is in a meadow north of Highway No. 20A and about 1-1/4 miles west of St. Francois, N.B. It is 30 feet back of the top of a steep grade from the railroad and opposite the east end of a mill making school furniture located between the road and the railroad. A road winds up the hill from the main road on west side of mill and reaches the top on east side of the meadow and the monument is 100 feet east of a fence which runs up the hill from the mill and is on west side of the meadow.

Type B monument.

REFERENCE MONUMENT 156 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1951) -- Monument is in heavy brush near east end of an unnamed island east of Cranberry Island.

Type C monument.

REFERENCE MONUMENT 157 (Madawaska Co., NewBrunswick; F.H.B., 1917; N.W.S., 1951) -- Monument is in open ground near north side of Gooseberry Island.

Type C monument.

REFERENCE MONUMENT 158 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1951) -- Monument is on Cranberry Island, about 1000 feet from its east end. It is on a ridge between the river about 300 feet south and the cultivated land to the north.

Type C monument.

REFERENCE MONUMENT S-99 (Aroostook Co., Maine; J.B.B.1910; N.W.S., 1951) -Monument is south of Cranberry Island near west end of a meadow and about
400 feet north of Highway No. 1. It is about 200 feet north of the back of
a barn and 75 feet east of the top of a sharp slope down to a large flat.

Type A monument.

REFERENCE MONUMENT 159 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1951) -- Monument is on northeast side of a deep sink hole surrounded by trees and brush on west central part of Cranberry Island and surrounded by cultivated land. It is 6 feet inside the line of bushes, 6 feet back from top of bank of sink hole, 10 feet east of a triple elm tree, and 12 feet west of the east end of the bushes.

Type G monument.

REFERENCE MONUMENT 159A (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1951) -- Monument is on a rock in St. John River south of the center of Cranberry Island.

Mark is an 8 inch bronze manganese post 2 inches square set in a depression in highest part of the rock.

REFERENCE MONUMENT 159B (Aroostook Co., Maine; F.H.B., 1917; N.W.S., 1951) -- Monument is on a rock near the United States shore opposite center of Cranberry Island.

Mark is an 8 inch bronze manganese post 2 inches square, set in a depression in highest part of the rock.

REFERENCE MONUMENT 160 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1951) -- Monument is about 200 feet northwest from an indentation in south shore about 1000 feet west of east end of Grock Island, near edge of trees.

Type G monument.

REFERENCE MONUMENT 161 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1951) -- Monument is on open ground in west central part of Crock Island, north of old barn.

Type C monument.

REFERENCE MONUMENT 162 (Aroostook Co., Maine; F.H.B., 1917; N.W.S., 1951) -- Monument is in timbered area about 1/4 mile west of the east end of Savage Island and near the north shore.

Type C monument.

REFERENCE MONUMENT 163-51 (Aroostook Co., Maine; N.W.S., 1951) -- Monument is about 1000 feet east of the west end of Savage Island and about top of slope from water on south side of island. It is near eastern end of an open space in the fringe of trees nearly straight up bank from the island

end of the tractor made ford from the mainland. It is two feet south of the fence and about in line with south edge of the trees.

Type F monument.

REFERENCE MONUMENT C-94 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951) -- Monument is north of Highway No. 20A and about 2-1/2 miles west of St. Francois, N.B. It is 2 feet north of the fence at the top of a steep grade from the road about 400 feet away, and about 150 feet west of an isolated clump of evergreen trees.

Type A monument.

REFERENCE MONUMENT S-100 (Arcostook Co., Maine; J.B.B., 1910; N.W.S., 1951) -- Monument is nearly south of the west end of Savage Island and about 20 feet north of Highway No. 1. A garage is 10 feet west of the monument and a telephone pole about 10 feet south toward road.

Type A monument.

REFERENCE MONUMENT S-101 (Aroostook Co., Maine; J.B.B., 1910; N.W.S., 1951) -- Monument is about a half mile west of Savage Island in line of telephone poles on south side of Highway No. 1. It is 70 feet northeast of the seed potato barn of F. Z. Pelletier and Sons.

Type B monument.

REFERENCE MONUMENT C-95 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951) -- Monument is about 3-1/2 miles west of St. Francois, N.B., and south of Highway No. 20A. It is on the high bank above the river flats in which there are anumber of small ponds. It is in an oatfield and 30 feet west of the top of the bank and 40 feet north of the end of the bank. Type A monument.

REFERENCE MONUMENT S-102 (Aroostook Co., Maine; J.B.B., 1910; N.W.S., 1951) -- Monument is about 2 miles east of Wheeler, Maine near northwest corner of a Catholic Cemetery situated northwest of a Catholic Church on north side of Highway No. 1. It is in the dense lilac bushes 3 feet high in northwest corner of cemetery. It is 3 feet south of the fence between cemetery and the railroad, and 15 feet east of the west fence of the cemetery which is at the top of a deep ravine.

Type A monument.

REFERENCE MONUMENT C-96 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951) -- Monument is about 4 miles west of St. Francois, N.B. in an open pasture. It is on a prominent knoll at the top of the slope from the railroad property 100 feet south of the monument.

Type A monument.

REFERENCE MONUMENT 163A-31 (Madawaska Co., New Brunswick; J.H., H.S.M., 1931; N.W.S., 1951) -- Monument is on the highest part of an island about 4 miles west of St. Francois, New Brunswick and 1-1/2 miles downstream from Wheelock, Maine. It is north of the bushy depression and is buried under 6 inches of sand. The monument was excavated and the hole filled with rocks.

Mark is an I.B.C. triangulation tablet set in top of a concrete base 18 inches square and 3 feet long.

REFERENCE MONUMENT S-103-51 (Aroostook Co., Maine; N.W.S., 1951) -- Monument is about 1-1/2 miles east of St. John Station, Wheeler, Maine on railroad right of way. It is on the south side of the tracks, 10 feet inside the railroad fence and 18 feet west of the farm road leading north from Highway No. 1 to the barn on the river flats belonging to Leo Daigle.

Type D monument.

REFERENCE MONUMENT C-97-51 (Madawaska Co., New Brunswick; N.W.S., 1951)—Monument is in about the center of an open meadow about 4-1/2 miles west of St. Francois, N.B. It is about 150 feet south of Highway No. 20A and 40 feet north of the high cut bank of the river, as formed by the flood in 1950. Plumbed and relocated in 1951.

Type A monument.

REFERENCE MONUMENT 164 (Aroostook Co., Maine; F.H.B., 1917; N.W.S., 1951) -- Monument is near northeast tip of Wheelock Island, which is not farmed.

Type G monument.

REFERENCE MONUMENT 165 (Aroostook Co., Maine; F.H.B., 1917; N.W.S., 1951) -- Monument is about center of the dense jungle growth and woods at upper end of Wheelock Island.

Type C monument.

REFERENCE MONUMENT S-104-31 (Aroostook Co., Maine; J.H., H.S.M., 1931; N.W.S., 1951)—Monument is about 1/2 mile east of Wheeler, Maine, on the north side of Highway No. 1. It is in a dense growth of grass just across the ditch from the road and directly toward road from a large break in the high bank along the railroad.

Type B monument.

REFERENCE MONUMENT C-98 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951)--Monument is about 1-1/4 miles east of Connors, N.B. in an open meadow south of Highway No. 20A. It is on top of aridge and 30 feet north of the top of the sharp grade down to river flat and railroad.

Type A monument.

REFERENCE MONUMENT 166 (Aroostook Co., Maine; F.H.B., 1917; N.W.S., 1951) -Monument is about 800 feet west of the east point of Caton Island on
high ground south of a depression. It is in an oat field.

Type C monument.

REFERENCE MONUMENT 167 (Aroostook Co., Maine; F.H.B., 1917; N.W.S., 1951) -- Monument is on Caton Island near north side of the open meadow land. In 1951 it was under a fallen barn.

Type C monument.

REFERENCE MONUMENT 168 (Aroostook Co., Maine; F.H.B., 1917; N.W.S., 1951) -Monument is on land farmed by Charles Kelley near wastern end of Honeywell Island. It is in brush 30 feet east of the end of the meadow.

Type C monument.

REFERENCE MONUMENT C-99 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951) -- Monument is in bushes along the fence north of the meadow on northern side of Highway No. 20A. It is about north of the low creek valley at eastern end of Connors, and directly opposite the Protestant Church. It is 2 feet south of the wire fence parallel to road and 100 feet east of a rail fence extending part way to road.

REFERENCE MONUMENT S-105 (Aroostook Co., Maine; J.B.B., 1910; N.W.S., 1951) -- Monument is on west end of Wheelock, Maine, about 300 feet south of Highway No. 1. It is near the west end of a high knoll and in the edge of bushes. A steep slope to northwest starts near monument.

Type A monument.

Type A monument.

REFERENCE MONUMENT 169 (Aroostook Co., Maine; F.H.B., 1917; N.W.S., 1951) -- Monument is about the center of the woods on the upper end of Honeywell Island.

Type C monument.

REFERENCE MONUMENT S-106-52 (Aroostook Co., Maine; N.W.S., 1952) -- Monument is about a mile west of Wheelock, Maine, just across the ditch on north side of Highway No. 1, at edge of a cultivated field. It is in line of telephone poles.

Type A monument.

REFERENCE MONUMENT C-100-51 (Madawaska Co., New Brunswick; N.W.S., 1951) -Monument is about 400 feet east of the Roman Catholic Church just west of
Connors, N.B., on land belonging to Mr. Joe Oakes. It is just at the foot
of the road grade on south side of Highway No. 20A. It is northwest of
west end of Honeywell Island and about a quarter mile west of Connors.

Type D monument.

REFERENCE MONUMENT S-107 (Aroostook Co., Maine; J.B.B., 1910; N.W.S., 1951) -- Monument is about 1-3/4 miles west of Wheelock, Maine, about 300 feet north of Highway No. 1, and in the edge of bushes. It is 6 feet east of the top of a sharp, wooded bank, dropping 15 feet to a large flat along the river.

Type A monument.

REFERENCE MONUMENT C-101 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951) -- Monument is a mile west of Connors, B.C., at the top of a steep slope north of Highway No. 20A. It is in an open pasture and about 100 feet east of woods.

Type A monument.

REFERENCE MONUMENT S-108-52 (Aroostook Co., Maine; N.W.S., 1952) -- Monument is about 2 miles west of Wheelock, Maine, and about 40 feet north of Highway No. 1, in unused grass ground. It is 27 feet northeast of the electric line poles and about 40 feet southwest of the platform on the south side of an old sawmill.

Type B monument.

REFERENCE MONUMENT C-102 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951) -- Monument is about 1-1/2 miles west of Connors, N.B., and 3 feet

south of the south road ditch of Highway No. 20A. It is in the open country, opposite a house and a barn, and 4 feet west of a trail to the river.

Type A monument.

REFERENCE MONUMENT S-109 (Aroostook Co., Maine; J.B.B., 1910; N.W.S., 1951) -- Monument is about 2-1/4 miles east of the end of the railroad in St. Francis, Maine. It is on a bank on railroad property, and near the south fence.

Type A monument.

REFERENCE MONUMENT C-103 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951) -- Monument is about 2 miles west of Connors, N.B., in an open meadow and 10 feet south of the road ditch of Highway 20A. It is just at top of the grade coming from the east.

Type A monument.

REFERENCE MONUMENT C-104 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951)—Monument is about 2-1/4 miles west of Connors, N.B., and 15 feet south of the Canadian Highway No. 20A, where it bends away from river in both directions. It is in brush and on a knoll with quite a drop to west and south.

Type A monument.

REFERENCE MONUMENT S-110 (Aroostook Co., Maine; J.B.B., 1910; N.W.S., 1951)—Monument is about 1-3/4 miles east of the end of railroad in St. Francis, Maine and between railroad to south and Highway No. 1 to north. It is about 40 feet north of the north fence of the railroad and 2 feet west of a wire line fence running north from the railroad on the west side of a road which winds down to highway past the large lumber yard. There are bushes along the fence.

Type B monument.

REFERENCE MONUMENT 170-51 (Madawaska Co., New Brunswick; N.W.S., 1951)—
Monument is on Foley Island about a half mile east of the mouth of the
St. Francis River. It is about one-third of the way from the west end
to the east end of the higher ground on the island, and 20 feet inshorenorth-from the top of the high bank of the river. It is in dense marsh
grass, waist high, and about opposite the center point between the two
clumps of trees on the northern side of the island, one clump near head
of island and the other near the center.

Type G monument.

REFERENCE MONUMENT 170-A (Madawaska Co., NewBrunswick; D.C., 1939; N.W.S., 1952) -- Monument is on Foley Island 7.2 feet downstream from Ref. Mon. 170-51 and buried 5 inches below the surface of the ground. It is about 18 feet inshore from the high bank of the river.

Monument 2 feet square with tablet in the top.

REFERENCE MONUMENT C-105 (Madawaska Co., New Brunswick; G.C.R., 1910; N.W.S., 1951) -- Monument is north of east end of Foley Island and about 5/8 mile east of the mouth of the St. Francis River. It is on a rocky knob projecting

southward from the hills along St. John Valley and is 25 feet north of the Canadian Highway No. 20A, at a bend in the road. It is in low brush. Type A monument.

REFERENCE MONUMENT 171 (Aroostook Co., Maine; F.H.B., 1917; N.W.S., 1951) -Monument is in the northeastern edge of the potato field on Savage and
Johnston Island opposite mouth of St. Francis River.

Type C monument.

REFERENCE MONUMENT C-106 (Madawaska County, New Brunswick; G.C.R., 1910; N.W.S., 1951) -- Monument is north of a small bay on the north side of the river opposite center of Savage and Johnston Island, and about 600 feet downstream from the mouth of the St. Francis River. It is in dense brush 20 feet inland from the top of the high bank of the river. It is about 200 feet east of a garden plot on the flat.

Type A monument.

REFERENCE MONUMENT S-111 (Aroostook Co., Maine; J.B.B., 1910; N.W.S., 1951) -- Monument is about 1-3/8 miles east of the end of the railroad in St. Francis, Maine, on railroad property. It is 3 feet south of the north railroad fence of wooden slats, and near the east end of a small curve in the railroad. It is in a break in the line of evergreen trees along the fence.

Type B monument.

REFERENCE MONUMENT 172 (Arcostock Co., Maine; F.H.B., 1917; N.W.S., 1951) -Monument is in the edge of brush near southwest end of the open farm land
on Savage and Johnston Island opposite mouth of the St. Francis River.
Type C monument.

REFERENCE MONUMENT S-112 (Aroostook Co., Maine; J.B.B., 1910; N.W.S., 1951) -- Monument is 7/8 mile east of the end of the railroad in St. Francis, Maine on railroad property. It is on a high bank close to the north fence of railroad behind evergreen trees.

Type A monument.

REFERENCE MONUMENT S-113 (Aroostook Co., Maine; J.B.B., 1910; N.W.S., 1951) -Monument is directly south of the railroad roundhouse in St. Francis, Maine,
on north end of a high knoll. It is in unused, open land, 60 feet south
of an east and west fence at foot of knoll, which separates the lot with
knoll from a wooded pasture, which is between this unused lot and the
railroad property around the roundhouse. The depot is about 1000 feet
northeast on north side of railroad.

Type B monument.

REFERENCE MONUMENT 173 (Aroostook Co., Maine; F.H.B., 1917; N.W.S., 1951) -Monument is at the top of high bank of river near the eastern tip of
Grew Island at mouth of the St. Francis River. It is in brush.

Type C monument.

REFERENCE MONUMENT S-114 (Arcostook Co., Meine; J.B.B., 1910; N.W.S., 1952) -- Monument is across the St. John River from St. Francis, Maine. It is on a knoll in the woods, 200 feet east of a clearing and 300 feet south of another clearing. It is on the line between the farmsof George Jones and Fred Harvey.

Type A monument.

REFERENCE MONUMENT 175 (Madawaska Co., New Brunswick; F.H.B., 1917; N.W.S., 1951) -- Monument is on eastern side of Kendall Island in the mouth of the St. Francis River near the top of the river bank and in the edge of a meadow.

Type C monument.

SECONDARY STATIONS, ST. JOHN RIVER

CROSS (Aroostook Co., Maine; N.W.S., 1952) -- The base of the cross on the Catholic Chapel at Hamlin, Maine, known as St. Joseph's Chapel.

BALL (Madawaska Co., New Brunswick; N.W.S., 1952) -- The ball on the spire of the L'Eglise Catholic Church spire SE of St. Leonard, New Brunswick.

FUNERAL PARLOR CROSS (Arostock Co., Maine; J.B.B., 1909; N.W.S., 1952) -The cross on the funeral parlor in Van Buren, Me., at the east end of
St. John Avenue, formerly used as an Episcopal Church. (lost in 1955)

LEON (Madawaska Co., New Brunswick; N.W.S., 1952) -- The base of the cross on the Catholic Church in St. Leonard, N.B.

VAN BUREN, MAINE, IRON CROSS ON BOULDER (Aroostook Co., Maine; J.B.B., 1909; N.W.S., 1952) -- A tall iron cross on top of a boulder about 1-1/2 miles NW of Van Buren, Maine on the north side of Highway No. 1, and about 50 feet NW of the old ferry road on south side of the ruins of the old pulp mill.

ST. BRUNO'S CATHOLIC CHURCH SPIRE (Aroostook Co., Maine; N.W.S., 1952) -- The spire on the Catholic Church in Van Buren, Maine.

STACK (Aroostook Co., Maine; N.W.S., 1952) -- The largest iron stack on the buildings of the lumber company in Keegan, Maine. It is on the building with two other stacks.

STE. ANTE CATHOLIC CHURCH, EAST SPIRE (Madawaska Co., NewBrunswick; N.W.S., 1951) -- The easterly of the twin spires on the Catholic Church in St. Anne de Madawaska, New Brunswick.

LILLE, MAINE, OLD CHURCH, CROSS ON CUPOLA (Aroostook Co., Maine; J.B.B., 1909; N.W.S., 1951) -- The cross on the cupola of the old Catholic Church in rear of the new Catholic Church in Lille, Maine.

LILLE CHURCH, N.W. CUPOLA (Aroostook Co., Maine; J.B.B., 1909; N.W.S., 1952) -- The NW cupols of the twin cupolas on new Catholic Church in Lille, Maine.

GRAND ISLE CHURCH SPIRE (Aroostook Co., Maine; N.W.S., 1951) -- The spire on the Catholic Church in Grand Isle, Maine.

GREEN RIVER SCHOOL CUPOLA (Madawaska Co., New Brunswick; N.W.S., 1951) -- The cupola on the school house near the west end of Green River, N.B.

GREEN RIVER CHURCH SPIRE (Madawaska Co., New Brunswick; N.W.S., 1951) -- The point of the spire on the small church in Green River, N.B.

ST. BASIL CATHOLIC CHURCH SPIRE (Madawaska Co., New Brunswick; G.C.R., 1909) -- The spire on the Catholic Church in St. Basil, N. B.

ST. BASIL HOSPITAL SPIRE (Madawaska Co., New Brunswick; N.W.S., 1951) -- The spire on the Catholic Hospital and Home in St. Basil, New Brunswick.

ST. BASIL CONVENT CROSS (Madawaska Co., New Brunswick; G.C.R., 1909) -- The gilded cross on the cupola of the convent in St. Basil, N. B.

ST. DAVID CHURCH, CROSS ON CUPOLA (Arcostook Co., Maine; J.B.B., 1909; N.W.S., 1951) -- The cross on the cupola of the Catholic Church in St. David, Maine.

MADAWASKA CATHOLIC CHURCH SPIRE (Aroostook Co., Maine; N.W.S., 1951) -- The tallest spire on the Catholic Church in Madawaska, Maine.

UPPER FRENCHVILLE CHURCH SPIRE (Aroostook Co., Maine; J.B.B., 1910; N.W.S., 1951) -- The spire on the Catholic Church in Upper Frenchville, Maine.

CLAIR CHURCH SPIRE (Madawaska Co., NewBrunswick; G.C.R., 1910; N.W.S., 1951) -- The spire on the Catholic Church in Clair, N. B.

FORT KENT PROTESTANT CHURCH SPIRE (Aroostook Co., Maine; J.B.B., 1910; N.W.S., 1951) -- The spire on the Congregational Church in Fort Kent, Maine.

MADAWASKA TRAINING SCHOOL, WEATHER VANE (Aroostook Co., Maine; J.B.B., 1910; N.W.S., 1951) -- The weather vane on the Training School for Teachers in Fort Kent, Maine.

FORT KENT CATHOLIC SCHOOL CROSS (Aroostook Co., Maine; J.B.B., 1910; N.W.S., 1951) -- The cross on the Catholic School in Fort Kent, Maine.

ST. FRANCOIS CHURCH SPIRE (Madawaska Co., New Brunswick; N.W.S., 1952) -- The spire on the Catholic Church in St. Francois, Maine.

CONNOR CATHOLIC CHURCH SPIRE (Madawaska Co., New Brunswick; N.W.S., 1952) -- The spire on the Catholic Church at west edge of Connor, N. B.

ST. FRANCIS PROTESTANT CHURCH SPIRE (Arcostock Co., Maine; J.B.B., 1910; N.W.S., 1952) -- The spire on the Congregational Church in St. Francis, Maine.

ST. FRANCIS CATHOLIC CHURCH SPIRE (Aroostook Co., Maine; J.B.B., 1910; N.W.S., 1952) -- The spire on the Catholic Church in St. Francis, Maine.

REFERENCE MONUMENT S-1-55 (Aroostook Co., Maine; N.W.S.1955) --- Monument is in Hamlin, Maine on the N side of Highway 165 about 200 feet W of the point this highway turns south toward Limestone, Maine. It is on the property line between the commercial establishment opposite the road south to Limestone and the next property west, and about midway between the store and the potato house on the westerly property and 9 feet N of the line of the front of the potato house extended easterly. It projects 4 inches above ground.

Type F monument with tablet stamped 1A and base marked 1940.

REFERENCE MONUMENT S-4A-55 (Aroostook Co., Maine; N.W.S.1955)—The monument is about 8-1/2 miles SE of Van Buren on the south side of the Highway No. 165. It is at the top of the bank with the slope to the ditch starting just outside the monument. It is about 100 feet E of the highest point of the hill. It projects 4 inches above ground.

Type F monument.

REFERENCE MONUMENT S-23A-55 (Aroostook Co., Maine; N.W.S.1955) -- Monument is in Van Buren on railroad property. It is N of the railroad, between it and the river, on ground leveled by the railroad since August 1954. It is 83.104 feet from the N.E. corner of the cement foundation of the easterly potato house, 19.77 feet toward river from nearest rail and about 20 feet from the top of the river bank.

Station mark is a drill hole in a triangular rock about 20 inches on a side buried slightly below the surface of the cleared ground.

NOTE:

(1) In the descriptions on the preceding pages of certain monuments set in 1938-40, in 1917, in 1909-10 or before, whose positions were re-determined in 1950-52, only the latest date has been given. Monuments so described are:

Year 1910 or before:

Monuments 116-52, 117-52; Reference Monuments C-7-52, C-45-52, C-50-51, C-59-51, C-76-52, C-82, C-88-52, C-97-51, S-42-51, S-46-52, S-82-52, S-87-51, S-90-51, S-94-52, S-96-52, S-98-52, S-106-52 and S-108-52.

Year 1917:

Reference Monuments C-19-52, C-31-52, C-35-52.

Years 1938-40:

Reference Monuments C-55-51, C-63-51, C-85-51.

(2) For an explanation of the inscriptions on the bases of certain monuments, refer to Note (4) on page 96B.

GEOGRAPHIC POSITIONS OF POINTS DETERMINING THE INTERNATIONAL BOUNDARY LINE ON THE NORTH LINE AND ST. JOHN RIVER SECTIONS OF THE BOUNDARY FROM THE SOURCE OF THE ST. CROIX RIVER TO THE MOUTH OF THE ST. FRANCIS RIVER

On the pages immediately following are listed the triangulation stations and reference monuments, followed by the monuments and turning points which define the boundary on the above-mentioned sections. For each, the latitude and longitude are given, together with distances and azimuths to neighboring triangulation stations, reference monuments, monuments and turning points. The values in this report are given on the 1927 North American datum and are derived from the values on the old North American datum published in the "Report of the International Boundary Commission upon the Reestablishment of the Boundary between the United States and Canada from the Source of the St. Croix River to the St. Lawrence River". The methods used in the re-computation to the 1927 North American datum are outlined briefly as follows:

- (1) Primary control was obtained from lines and stations of the United States Coast and Geodetic Survey and the Geodetic Survey of Canada which were common to the second order triangulation executed by J. L. Rannie, D.T.S. in 1915 and 1916. This primary control was adjusted by the U.S. Coast and Geodetic Survey.
- (2) An adjustment to the 1927 North American datum of this second-order triangulation on these sections of the boundary was carried out by the U.S. Section of the International Boundary Commission.
- (3) The second-order triangulation gave values on the 1927 North American datum to control-points and lines at intervals along the third-order triangulation and the traverse along the North Line, which contained the boundary monuments, reference monuments and turning points.
- (4) This third-order triangulation and traverse was adjusted between control-points by application of corrections for de and d log s, which were held constant between any two successive control-points, and which depended upon the new azimuth and distance between these points on the 1927 North American datum.

The adjustment resulted in values on the 1927 North American datum for monuments, reference monuments, turning points and triangulation stations. The positions of relocated stations and reference monuments are given as determined from the adjustment of observations taken since 1925. The year relocated follows the name of the station.

Latitudes and longitudes are given to three decimal places in seconds; azimuths are measured from south and given to at least seconds; logarithms of distances are carried to at least six decimal places. Although values of such precision may not be expected in minor-scheme triangulation, the additional numbers have been carried for purposes of office computation. The usual procedure of publishing but one uncertain figure was followed.

EXPLANATORY NOTES

- (1) The stations of the original third order scheme of triangulation on the St. John River have been listed on pages 118 to 133 with their positions re-computed on the 1927 North American datum. Any reference monuments in this scheme, for which new values were obtained in the re-survey in 1950-52 have been shown as lost, and may be found under new listing, pages 134 to 157. Monuments so shown are:

 Reference Monuments C-26, C-45, C-50, C-59, C-76, C-81, C-97, S-4, S-5, S-23, S-29, S-42, S-46, S-82, S-87, S-94, S-96, S-98, S-106 and S-108.
- (2) In the tabulation of geographic positions on the pages which follow. certain monuments, set in the years 1938-40, in 1931, in 1917, or in 1908-10 were found out of position and the positions were re-determined in 1950-52. These monuments were originally set as indicated below:

Year 1910 or before:
Monuments 116-52 and 117-52; Reference Monuments C-7-52, C-18-52, C-26-52, C-45-52, C-50-51, C-59-51, C-76-52, C-88-52, C-97-51, S-4-52, S-5-52, S-23-52, S-29-52, S-42-51, S-46-52, S-82-52, S-87-51, S-90-51, S-94-52, S-96-52, S-98-52, S-106-52, S-108-52.

Year 1917:

Reference Monuments C-4-52, C-5-52, C-19-52, C-24-52, C-31-52, C-35-52, C-36-52, S-25-52, S-34-52, 141-51.

Year 1931:

Reference Monument S-27-52.

Years 1938-40:

Reference Monuments C-23-52, C-29-52, C-37-51, C-38-51, C-40-51, C-41-51, C-55-51, C-63-51, C-81-52, C-85-51, S-6-52, S-10-52, S-20-52, S-28-52, S-31-52, S-38-52, 126-52.

- (3) Certain reference monuments, built in the years 1939 and 1940 to replace lost or destroyed monuments on the St. John River, were at that time given the suffix "-A" as C-17A, S-16A, and the bases (or bronze tablets, where used), were so stamped. In this report, such monuments have been listed without "-A", as: C-17-40, S-16-40. The monuments so listed are:

 C-17-40, C-33-40, S-16-40, S-18-40, S-58-40, 123-40.
- (4) Abbreviations on the geographic positions sheets have the following meanings:

d. = described; m. = marked; n. = not; r. = recovered; p. = probably;
1. = lost.

INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line NORTH LINE

Second Order

State Maine

Province New Brunswick

	International boundary line NORTH LINE			Second Order							State _M	laine	Province New Brunswick		
	STATION		LATITUDE AND LONGITUDE			HTUMIXA				ACK AZ	MUTH	TO STATION	DISTANCE (METERS)	LOGARITHM	
	Mennedy (C.&G.S.) New Brunswick 1889; r.1946	d.m.	45 67	56 43	14.916 29.163	9 29	09 39	18.55 18.56	189	07 32	47.25 37.04	Green Mountain Peekaboo Mountain	17.271.00 24.451.51	4.2373174 4.3883057	
	Spring Hill (C.&G.S.) Maine 1889	1.	45 67	54 50	30.437 48.115	8 251 334	14 07 01	00.34 29.01 28.62	188 71 154	12 12 05	33.76 44.36 12.29	Peekaboo Mountain Kennedy Green Mountain	18.222.12 9.993.49 15.375.36	4.2605989 3.9997171 4.1868254	
	Pole Hill (C.&G.S.) Maine 1889; r. 1946	d.m.	45 67	57 46	17.620 59.540	18 293 354	02 06 35	00.20 47.58 41.23	197 113 174	57 09 36	49.57 18.78 40.92	Peekaboo Mountain Kennedy Green Mountain	24.390.13 4.927.58 19.072.12	4.3872142 3.6926336 4.2803989	
×	Union (G.S.C.) New Brunswick 1916; r. 1950	d.m.	46 67	04 46	49.595	4 17 347	17 21 37	21.5 25.4 45.6	184 197 167	16 18 39	46.5 06.0 42.0	Pole Hill Spring Hill Kennedy	13.993.9 20,025.6 16,267.5	4.145940 4.301585 4.211322	
K	Linneus (G.S.C.) Meine 1916: r. 1950	d.m.	46 67	01 58	56.615 08.918	250 299 300 325	50 02 48 23	25.0 09.8 40.0 31.9	70 119 120 145	59 12 56 28	02.0 42.5 41.5 48.8	Union Kennedy Pole Hill Spring Hill	16,331.9 21,676.5 16,784.5 16,728.4	4.213036 4.335989 4.224908 4.223454	
×	Ludlow (G.S.C.) Maine 1916	1.	46 67	09 56	08.402 56.103	299	41 54	57.6 43.1	186	41 02	05.1	Linneus Union	13.423.1 15.993.0	4.127854 4.203931	
	Richmond (G.S.C.) New Brunswick 1916; r. 1950	d.m.	46 67	08	11.510 45.710	54 97	58 08 01	10.9 11.6 39.7	184 233 276	57 59 53	52.7 16.2 36.3	Union Linneus Ludlow	6.257.8 19.722.2 14.494.9	3.796420 4.294956 4.161216	
y	Littleton (G.S.C.) Meine 1916	d.m.	46 67	13 52	09.181	36 315	10 43	13.8	216	07 148	11.1	Ludlow Richmond	9.206.3	3.964087 4.108145	
×	Wakefield (G.S.C.) New Brunswick 1916	1.	46 67	13	27.007 06.707	19 65 87	18 54 30	38.4 24.6 20.7	199 245 267	16 44 23	43.7 26.1 24.7	Richmond Ludlow Littleton	10, 321.1 19,496.6 12,361.4	4.013724 4.289959 4.092067	
X	Monticello (G.S.C.) Maine 1916; r. 1940	d.m.	46 67	20 51	33.555 37.001	320 320	52 16	39.6 26.8	185 140	51 22	52.0 35.6	Littleton Wakefield	13.793.2 17.111.5	4.139664 4.233287	
×	Wilmot (G.S.C.) New Brunswick 1916	d.m.	46 67	21 42	38.115 01.399	5 41 80	16 12 51	25.0 46.1 26.8	185 221 260	15 05 44	37.8 02.5 30.3	Wakefield Littleton Monticello	15,228.1 20,868.6 12,467.7	4.182646 4.319493 4.095785	
	Mere Hill (G.S.C.) Maine 1316; r. 1950	d.m.	46 67	31 48	15.905 51.274	205 333	19 50	49.17 04.3	25 153	33 55	31.41 01.4	Blue Bell (G.S.C.) Wilmot (G.S.C.)	55.775.15 19.870.8	4.7464408	
+	Blaine (C.S.C.) Maine 1916; r. 1941	d.m.	46 67	28 56	22.160 55.986	242 303 334	31 03 45	13.66 19.2 10.6	62 123 154	37 14 49	05.24 07.2 01.6	Mars Hill (G.S.C.) Wilmot (G.S.C.) Monticello (G.S.C.)	11.645.73 22.817.7 15.993.2	4.0661666 4.358271 4.203936	
X	Wicklow (G.S.C.) New Brunswick 1916; r. 1950	d.m.	46 67	29 41	32.077 21.484	3 38 83 108	20 23 54 31	13.0 20.1 46.0 50.3	183 218 263 288	19 15 43 26	44.1 54.3 28.4 24.0	Wilmot Monticello Blaine Mars Hill	14.659.6 21.196.3 20.049.8 10,111.6	4.166122 4.326261 4.302111 4.004822	

INTERNATIONAL BOUNDARY COMMISSION-UNITED STATES, ALASKA, AND CANADA

GEOGRAPHIC POSITIONS-NORTH AMERICAN DATUM 1927 State Meine Second Order

Province New Brunswick Inte: national boundary line NORTH LINE TO STATION LOGARITHM ATIMUTH BACK AZIMUTH 100 . 4 2408456 Mare Hill (G.S.C.) 17.411.88 36.72 47.23 46 44.321 313 133 35 Presque Isle (G.S.C.) d.m. 37 28 Blaine (G.S.C.) 17,510,50 4.2432985 06.84 27 25.29 67 58 44-038 352 26 172 Meine, 1916; r. 1941 12,250.8 4.088153 Mars Hill 02 24.9 192 00 57.9 46 43.938 12 Andover (G.S.C.) d.m. 46 21,605.8 4.334570 36 32 Blaine 67 39 20.1 216 01.3 New Brunswick 1916 51.384 15.160.4 4.130710 90 06 59.9 269 58 21.9 Presque Isle 155 12 18.4 Wicklow 16.734.6 4.223615 335 OS 18.8 17.831.7 4.251192 26 48.1 Presone Isla 46 15.507 18.0 188 Caribou (G.S.C.) 1. 21.636.4 4.335184 67 324 36 744 43 09.9 Andover 56 40.550 01.2 Maine 1916 17.409.6 4.240790 36 36 17.4 Andover 46 47 0 23.7 180 Aroostook (G.S.C.) d.m. 07.708 4.365161 26 Presque Isle 23.182.5 67 46 42.720 41 43.6 221 17 58.6 New Brunswick 1916 91 08 54.5 271 01 38.8 Caribon 12,683.1 4.103224 14.474.1 4.160591 Caribou 51 200 48 20.9 Limestone (G.S.C.) 46 33.592 20 13.1 d.m. 15.688.2 4.195574 67 52 37.616 19 28.1 151 23 47.0 Aroostook 331 Maine 1916 16.364.3 4.213898 59 33.1 Lizestone 46 42.047 50 08.5 90 Woodland (G.S.C.) d.m. 270 4.442697 27.713.9 120 31 40.6 Aronstook 68 05 30.786 300 17 57.7 Maine 1915; r. 1940 320 46 36.6 140 53 03.4 Caribou 17.785.9 4.250075 14.163.6 4.151173 24.2 00.4 Limestone (G.S.C.) 52.045 05 197 03 Caswell (G.S.C.) d.m. 01 17 24.425.8 4.387848 Woodland (G.S.C.) 49 57 10 03.2 236 58 14.2 Maine 1916; r. 1942 67 20.937 43 Quisibis (G.S.C.) 45,201,26 4.6551505 1.65 49 38.94 345 11.33 33.42 Blue Bell (G.S.C.) 25,282.63 4.4028223 284 26.05 104 37 23 15.769.6 4.197822 45. g44 57 17.4 213 52 13.1 Mondland Connor (G.S.C.) d.m. 269 04.4 Caswell 11,691.8 4.067380 67 34.572 00 19.3 89 07 58 Maine 1916; r. 1940 4.185638 15.333.4 150 33 22.9 Limestone 330 29 02.0 32.196.81 4.5078128 04 54.41 07 13.55 Outsibis (G.S.C.) 47 08 16.268 187 Van Buren (G.S.C.) d.m. 16.19 Caswell (G.S.C.) 19.230.15 4.2839828 01 30.78 128 10 68 01 18.358 308 Maine 1915; r. 1952 12.542.0 Connor (G.S.C.) 4.098366 343 59 35.5 164 01 35.4 04 59 57.6 Connor 20.832.3 4.318737 19.618 199 12 St. Leonard (G.S.C.) d.B. 54 12.976.2 4.113149 40.4 33 Van Buren 67 39 234 32.0 52 56.039 New Brunswick 1915; r. 1939 166 Caswell 19,903.7 4.298934 48 51 11.1 33.5 09.5 St. Leonard 18,291.1 4.262240 02 12 50.074 272 51 32.5 Grand Isle (G.S.C.) d.m. 144.0 11,436.7 4.058301 Van Buren 24.052 42 07 317 38 15.8 137 Maine 1915 68 14.888.0 4.172837 54 27.8 185 53 34.4 Van Buren 16 15.811 Ste. Anne (G.S.C.) d.m. Grand Isle 11.197.5 4.049122 28 235 23 08.6 05.641 55 30.5 68 00 New Brunswick 1915 St. Leonard 11.612.6 4.064928 04.3 308 52 128 57 19.7 54 349 53 59.2 Ste. Anne 8,545.9 3.931759 11 43.364 169 Van Buren, south base (G.S.C.) d.m. 7.626.4 St. Leonard 3.882320 54.444 35 41.3 58 261 31 18.4 81 Maine 1915 3.716419 5.205.0 49.496 44 52.9 29 46 23.1 Ste. Anne 13 209 Van Buren, north base (G.S.C.) d.m. 4.077417 St. Leonard 11.951.4 22 22.2 103 29 07.6 02 283 08,505 Maine 1915 5,643.49 3.751548 39 59.4 Van Buren, south base 37 133 313 37.0

INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA GEOGRAPHIC POSITIONS-NORTH AMERICAN DATUM 1927

Total and boundary Has ST JOHN DIVED

nternational boundary line ST.	111	Order		1000		7		State		Province New Brunswick			
STATION			LONGITE	AND .	•	AZIMU	TH	8/	CK AZ	IMUTH	TO STATION	DISTANCE (METERS)	4 LOGARITHM
Madawaska (G.S.C.) Maine 1915; r. 1942	d.m.	47 68	17 17	51.509 27.716	239 277 306 310	37 34 11 57	23.04 46.1 41.0 19.79	59 97 126 131	51 47 19 09	35.46 31.8 04.4 11.24	Quisibis (G.S.C.) Ste. Anne (G.S.C.) Grand Isle (G.S.C.) Van Buren (G.S.C.)	28,150.87 22,097.7 15,740.5 27,048.04	4.4494918 4.344347 4.197018 4.4321359
Green River (G.S.C.) New Brunswick 1915	d.m.	47 68	22 07	56.092 54.998	52 321 331 336 358	01 23 16 38 00	13.8 15.4 39.1 22.4 26.0	231 141 151 156 178	54 29 23 42 00	12.6 00.5 16.3 37.1 48.8	Madawaska Ste. Anne Van Buren, south base Van Buren, north base Grand Isle	15,265.4 15,809.6 23,677.8 18,382.5 18,726.5	4.183708 4.198922 4.374341 4.264405 4.272457
Edmund (G.S.C.) New Brunswick 1915; r. 1939	d.m.	47 68	23 24	35.554 09.975	263 273 321	37 18 29	54.2 39.5 04.7	83 93 141	57 30 34	03.4 37.0 00.5	Quisible Green River Madawaska	32.920.2 20,485.5 13.571.6	4.517463 4.311446 4.132630
St. Hilaire (G.S.C.) New Brunswick 1915; r. 1942	d.m.	47 68	20 25	12.386	190 256 294	51 45 12	56.7 33.9 40.56	10 76 114	52 58 18	39.0 13.4 18.49	Edmund (G.S.C.) Green River (G.S.C.) Madawaeka (G.S.C.)	6.389.0 22.247.3 10.589.35	3.805436 4.347277 4.0248693
Kent (G.S.C.) Maine 1915; r. 1942	d.m.	47 68	15 29	59.628 47.448	216 257	58 23	36.66 39.36	37 77	02 32	02.48	St. Hilaire Madawaska	9.774.53	3.9900960 4.2020909
Baker (G.S.C.) New Brunswick 1915; r. 1939	d.m.	47 68	21 31	38.317 21.772	248 288 349	10 37 15	10.2 22.8 54.7	68 108 169	15 41 17	27.9 58.1 04.0	Edmund St. Hilaire Kent	9.755.1 8,293.8 10,645.5	3.989233 3.918754 4.027166
Ledges (G.S.C.) Maine 1915; r. 1939	d.m.	47 68	13 42	27.422 15.086	222 253	05 16	38.7 47.2	42 73	13 25	38.8 56.1	Baker Kent	20,451.4	4.310724 4.215126
Long (G.S.C.) New Brunswick 1915; r. 1939	d.m.	47 68	20 47	37.293 50.558	264 290 331	42 32 59	36.6 23.0 41.6	84 110 152	54 45 03	43.9 39.0 48.1	Baker Kent Ledges	20.838.1 24,314.8 15.031.2	4.318859 4.385871 4.176994
Center (G.S.C.) New Brunswick 1915; r. 1939	d.m.	47 68	15 51	09.305 15.758	203 285	02 24	05.1 36.6	23 105	04 31	35.9 13.6	Long Ledges	11,008.3	4.041722 4.071855
St. Francis (G.S.C.) Maine 1915; r. 1939	d.m.	47 68	10 51	07.403 46.001	183 194 242	54 15 44	07.3 15.0 20.8	3 14 62	54 18 51	29.5 07.9 19.7	Center Long Ledges	9,345.0 20.072.3 13,512.1	3.970578 4.302598 4.130723
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INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line NORTH LINE Supplemental Points State Maine Propince New Brunswick LATITUDE AND STATION ATIMUTH BACK ATIMUTH TO STATION LOCABITUM 46 44.5 Westford (G.S.C.) 02 15.717 L 07 184 09.9 Spring Hill 14.402.8 4 1 Eghlig 1. 07 Maine 1916 67 00.000 322 54 12.0 142 53.2 Kennedy 13,959.1 4.144857 06 337 19.0 157 08 28.9 Pole Hill 3.999545 9,989.5 46 Porter (G.S.C.) d. .. 20.176 21 07 38.0 201 05 08.8 Littleton 12,278.8 4.089157 Maine 1916: r. 1940 67 49 16.410 127 00 38.2 306 58 56.5 Monticello 3.765.1 3.575779 59 144 323 08.0 03 35.2 Wakefield 13,475.0 4.129530 Lunnon (G.S.C.) 46 23,508 40 46 20 8 220 42 32.7 Littleton 10.364.3 4.015541 d.m. 67 47 41 38 14.5 Maine 1916; r. 1950 27.106 137 15.2 317 Monticello 7.938.5 3.899739 147 54.8 59 35.8 4,295.1 00 326 Porter 3.632973 46 40 26.645 19 24 50.0 Easton (G.S.C.) d.m. 204 37.8 22 Aronstonk 13,594.1 4.133352 Maine 1916: r. 1950 67 51 06.727 312 45 10.4 132 48 16.0 3.869090 Andover 7.397.6 46 46 Wateon (G.S.C.) d.m. 00.620 256 26 19.4 76 31 15.3 Aroostook 8.861.1 3 947489 Maine 1916: r. 1940 67 53 151 12 17.2 4.243234 28.819 331 07 28.0 Andover 17.507.9 343 142 40 32.3 163 15.8 Easton 10.745.3 4.031218 46 52 46.1 9.417.4 Falls (G.S.C.) 11,259 5 32 17.4 185 31 Aroostook 3.973933 d.m. 45 36 New Brunswick 1916 67 59.872 117 12.2 297 31 21.8 Limentone 9.498.6 3.977661 166 40 59.7 346 38 32.8 18.432.0 Caswell 4.265572 y Grand (G,S.C.) 47 06 02,520 09.2 Casvell d.m. 1 21 15.5 181 21 7.737.1 3.888578 New Brunswick 1916 67 49 12.277 10 31.4 285 39.4 Van Buren 4.200124 105 01 15,853.5 47 06 20.453 14 52.6 292 09 48.0 Ven Buren 9.463.4 3.976045 Hamlin (G.S.C.) d.m. 112 54 Maine 1916 67 22.713 189 20 21.5 21 25.0 St. Leonard 11.240.8 4.050798 94 274 48 15.0 52 02.4 Grand 6.569.4 3.817528 Cyr (G.S.C.) d.m. 47 06 53.800 40 36 38.4 220 31 55.8 Connor 12.519.8 4.097598 67 52 69 59 51.1 249 58 12.9 Hamlin 3.478366 New Brunswick 1916 08.635 3.008.6 102 27 07.6 20 24.8 Van Buren 11.863.3 4.074206 282 339 11 159 32.7 Caswell 9.967.6 29.9 13 3.998592 47 09 44.461 64 38 244 35 Bruno (G.S.C.) 35.3 15.6 Van Buren 6.353.1 3.802984 n.d. New Brunswick 1916 67 56 45.923 312 OI 13.7 132 0,1 36.9 Cvr 7.868.8 3.895908 Second (G.S.C.) 47 20 40,202 83 42 00.3 263 37 29.3 St. Hilaire 7,782.0 3.891093 d.m. Maine 1915 68 18 58.967 129 43 14.2 309 39 25.4 Ed mund 8,479.8 3.928386 253 10 09.4 73 18 17.8 Green River 14,550.8 4.162888 47 21 61 09 16.3 241 05 57.0 St. Hilaire 6.492.2 First (G.S.C.) 53.896 3.812392 d.m. OIT Green River New Brunswick 1915; r. 1939 68 20 36.535 263 00.8 83 13 21.1 16.091.8 4.206605 41.3 318 00 138 53.1 01 Second 3,061.5 3.485930 47 06.621 06 36.9 First 22 07 28.8 1.530.0 3.184700 Edmundston Astronomic n.m. 68 19 26.061 347 11.9 167 58 31.8 Second 3.435964 New Brunswick 1915 2,728.8 Edmundston bench mark (0.S.C.) 47 22 02.066 81 18 31.7 261 17 34.0 First 1,668.2 3.222251 d.m. 68 19 17.945 351 02 43.5 171 02 57.4 Second 2.559.4 New Brunswick 1915; r. 1952 3.408133

INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

International boundary line ST. JOHN RIVER Province New Brunswick Supplemental Points State Maine DISTANCE LATITUDE AND STATION AZIMUTH BACK AZIMUTH TO STATION LOGARITHM 3.898620 32.2 348 48 38.5 Baker 7,918.1 Brook (G.S.C.) 17 26.790 168 n.d. 3.910381 8,135.4 68 30 08.648 231 267 01 18.7 51 05 00.2 St. Hilaire Maine 1915 87 16.006.2 4.204288 11 20 38.9 Madewaska 19.7 36 2,728.4 3.435904 350 35 57.2 170 12.8 Kent 4.042470 67 54 41.1 247 48 44.0 Clair 11,027.3 Baker Brook bench mark (G.S.C.) 05.994 18 d.m. 47.070 173 46.1 39 6,597.4 3.819374 30 39 353 20.6 Baker New Brunswick 1915; r. 1952 146 326 18 37.7 Brook 1,455.2 3.162913 18 09.5 43 6.150.0 3.788872 51.433 42 20.3 223 39 52.0 Ledges 15 Clair (G.S.C.) d.m. 14,331.9 4.156305 38 53.109 128 04 38.0 307 58 03.0 Long New Brunswick 1915; r. 1939 41 14.304.8 4.155481 33 221 27 36.8 08.6 Baker 49.6 11.473.9 26g 40 88 30.4 Kent 4.059712 6.274.9 3.797607 94 10.812 09.8 39 31.7 Ledges Fort (G.S.C.) d.m. 13 337 59 41.6 5.349.7 3.728327 37 17.842 158 00 51.5 Clair Maine 1915 241 07 36.0 13 06.7 Kent 10,812.3 4.033917

INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA

GEOGRAPHIC POSITIONS-NORTH AMERICAN DATUM 1927

International boundary line NORTH LINE Boundary Monument							_	-	Province New Brunswick				
STATION		L	LONGITU	AND		AZIMUT	н	BA	CK AZI	MUTH	TO STATION	DISTANCE	LOGARITHM
Mon. 1 (Initial Monument) 1843; 1889; r. 1946	d.m.	45 67	56 46	36.229 54.467	175 278 354	06 26 33	51.49 32.95 30.30	355 98 174	06 29 34	47.84 00.49 26.34	Pole Hill Kennedy Green Mountain	1282.61 4471.23 17789.57	3.1080939 3.6504267 4.2501653
Mon. 1-A 1908; r. 1950	m.	45 67	56 46	56.068 54.418	0 170 286	05 35 00	54 21 46	180 350 106	05 35 03	54 18 14	Initial Monument Pole Hill Kennedy	612.53 674.5 4600.2	2.787128 2.828980 3.662779
Mon. 1-B 1908; r. 1950	m.	45 67	57 46	21.820 54.354	0	05	57	180	05	57	Mon. 1-A	795.08	2.900409
Mon. 2 1908; r. 1950	m.	45 67	57 46	34.165 54.322	0	06	17	180	06	17	Mon. 1-B	381.16	2.581106
Mon. 2-A 1908; r. 1950	m.	45 67	57 46	48.697 54.284	0	06	17	180	06	17	Mon. 2	ұнв.69	2.651942
Mon. 3 1908; r. 1950	m,	45 67	58 46	26.156 54.186	0	06	17	180	06	17	Mon. 2-A	1156.56	3.063167
Mon. 3-A 1908; r. 1950	n.	45 67	58 46	52.587 54.117	0	06	17	180	06	17	Mon. 3	816.06	2.911720
Mon. 4 18 ¹ / ₄ 3; r. 1950		45 67	59 46	12.818 54.064	0	06	17	180	06	17	Mon. 3-A	624.64	2.795627
Mon. 5 1843; r. 1950	m.	45 67	59 46	31.372 54.016	0	06	17	180	06	17	Mon. 4	572.86	2.758048
Mon. 5-A 1908; r. 1950	m.	45 67	59 46	45.823 53.963	0	08	43	180	08	43	Mon. 5	146.16	2.649486
Mon. 6 1908; r. 1950	m.	46 67	00 46	15.197 53.856	0	08	43	180	08	43	Mon. 5-A	906.92	2.957569
Mon. 6-A 1908; r. 1950	m.	46 67	00 46	39.717 53.767	0	08	43	180	08	43	Mon. 6	757.05	2,879124
Mon. 7 1908; r. 1950	m.	46 67	01 46	02.802	0	08	43	180	08	43	Mon. 6-A	712.76	2.852944
Mon. 8 1908; r. 1950	m.	46 67	01 46	37.051 53.559	0	08	43	180	08	43	Mon. 7	1057.43	3.024253
Mon. 8-A 1908; r. 1950	m.	46 67	02	01.583 53.471	0	08	37	180	08	37	Mon. 8	757 .44	2.879348
Mon. 9 18 ¹ 3; r. 1950	m.	46 67	02 146	16.029 53.419	0	08	37	180	08	37	Mon. 8-A	##6.0h	2.649370
Mon. 10 1843; r. 1950	n.	46 67	02	41.972 53.535	359	48	59	179	148	59	Mon. 9	801.00	2.903631

International boundary line NORTH LINE Boundary Monusents Province New Brunswick Mai ne State LATITUDE AND DISTANCE (METERS) BTATION AZIMUTH BACK AZIMUTH TO STATION LOGARITHM 03 Mon. 46 Moved Mon. 10-A 00.321 48 48 359 59 179 59 Mon. 10 566.54 2.753230 1908; r. 1950 67 53.620 1959 Mon. 10-B 46 40 49.9 45.7 04.225 0 180 40 Pole Hill 10702.2 4.029475 1906; r. 1950 67 53.638 31 27.2 249 29 13.0 Westford 4277.7 3.631212 340 52.9 160 20.0 Kennedy 4.126510 13381.7 359 48 59 179 48 59 Mon. 10-A 2.081108 120.53 46 Mon. 10-0 14.107 359 48 179 34 Mon. 10-B 2.484475 . 305.12 1908; r. 1950 67 53.685 Mon. 10-D 46 24.672 48 359 29 179 29 Mon. 10-C 326.21 2.513492 1908; r. 1950 53.736 Mon. 10-B 46 28.344 359 48 13 179 48 13 Mon. 10-D 2.054559 m. 113.39 67 1908; r. 1950 53.754 Mon. 11 46 14 . 33.859 179 - 14 Mon. 10-E 2.231174 170.28 1843; r. 1950 53.781 Mon. 11-A 46 42 42 40 . 38.207 359 40 179 Mon. 11 134.26 2.127943 67 1908; r. 1950 53.813 Mon. 11-B 46 08.545 B. 359 42 39 179 42 40 Mon. 11-A 936.70 2.971601 1908; r. 1950 54.033 Mon. 12 46 31.850 42 m. 39 179 42 39 Mon. 11-B 719.55 2.857062 67 1908; r. 1950 54.202 46 04 Mon. 13 42 38.712 33 179 42 33 Mon. 12 2.326048 . 211.86 1843; r. 1950 54.252 05.162 Mon. 13-A 55 359 58 179 55 58 Mon. 13 . 816.65 2.912038 67 1908; r. 1950 54.297 Mon. 13-B 08.468 359 179 55 58 Mon. 13-A 102.07 2.008916 1908; r. 1950 67 54.302 Mon. 14 46 23.838 m. 359 55 179 55 58 Mon. 13-B 474.56 2.676288 1908; r. 1950 67 54.328 Mon. 14-A 46 41.954 m. 359 58 179 55 58 Mon. 14 559.36 2.747690 1908; r. 1950 67 54.358 46 Mon. 15 06 07.755 55 58 179 55 Mon. 14-A m. 58 796.62 2.901252 1908; r. 1950 67 54.401 46 Mon. 15-A 23.633 359 55 m. 179 58 Mon. 15 490.23 2.690399 54.428 1908; r. 1950 Mon. 15-B 46 38.174 448.96 359 55 58 179 55 58 Mon. 15-A 2.652210 m. 67 46 54.452 1908; r. 1950

Province New Brunswick State Maine International boundary line MORTH LINE Boundary Monuments DISTANCE (METERS) LOGARITHM LATITUDE AND TO STATION AZIMUTH BACK AZIMUTH STATION 4.135189 13651.8 50 42 g Ludlow 56.6 288 46 06 45.142 108 57 Mon. 16 . 4.146664 14017.3 327 12.4 Littleton 147 23.7 67 46 54.464 1843; r. 1950 215.14 2.332722 55 Mon. 15-B 179 58 359 55 58 1.943458 Mon. 16 87.79 59 179 06 47.985 54.464 359 Mon. 16-A m. 67 1908: r. 1950 2.934506 860.01 54 Mon. 16-A 59 179 46 15.839 359 Mon. 17 m. 54.465 67 1908: r. 1950 971.65 2.987509 54 Mon. 17 59 179 59 46 47.309 359 Mon. 17-A . 67 1908: r. 1950 283.38 2.452366 59 54 Mon. 17-A 59 179 46 07 56.487 359 B. Mon. 18 54.466 67 1908; r. 1950 1.945432 Mon. 18 88.19 59 179 59.343 359 Mon. 18-A m. 1908; r. 1950 1.299956 19.95 179 Mon. 18-A 59 359 59.989 Mon. 19 54.466 67 1843; r. 1950 1.989818 97.68 59 179 59 54 Mon. 19 03.153 359 Mon. 19-A . 1908; r. 1950 2.568461 370.22 54 Mon. 19-A 15.144 179 46 08 359 59 Mon. 19-B 54.466 67 1908; r. 1950 665.65 2.823246 179 54 Mon. 19-B 59 36.703 359 Mon. 19-0 . 54.467 46 67 1908; r. 1950 347.24 2.540630 54 179 Mon. 19-C 47.949 59 359 46 Mon. 20 54.467 67 1843; r. 1950 598.86 2.777323 179 48 36 Mon. 20 07.344 48 36 359 Mon. 20-A . 67 54.559 1908; r. 1950 830.40 2.919290 48 36 Mon. 20-A 09 34.239 359 48 36 179 46 Mon. 21 m. 54.687 67 1908; r. 1950 3.040496 1097.73 36 Mon. 21 179 09.792 359 48 36 10 . Mon. 21-4 54.856 67 1908; r. 1950 2.344464 221.04 36 Mon. 21-A 179 10 16.951 359 Mon. 21-B . 67 54.890 1908; r. 1950 Mon. 21-B 128.14 2.107697 48 36 36 179 21.101 359 46 10 Mon. 21-C m. 67 54.910 1908: r. 1950 1.773433 59.35 40 179 48 40 Mon. 21-C 48 46 10 23.023 359 Mon. 21-D 67 54.919 1908: r. 1950 2.461901 289.67 40 Mon. 21-D 48 40 179 32.405 359 10 Mon. 22 54.963 46 67 1908; r. 1950

International boundary line	NORTH LINE	Boundary Monw	ents	2		2020-1/-	_	State _	laine	Province New	Brunswick
STATION		LATITUDE AND		AZIMUT	201	900	CK AZI	1828/16	TO STATION	DISTANCE (METERS)	LOGARITHM
Mon. 22-▲ 1908; r. 1950		46 11 06.7 67 46 55.1	04 359	48	39	179	48	40	Mon. 22	1059.04	3.024913
Mon. 23 1843; r. 1950	m.	46 11 24.6 67 46 55.2		48	39	179	48	39	Mon. 22-A	553.42	2.743052
Mon. 23-A 1908; r. 1950		46 11 50.1 67 46 55.	21 359	43	04	179	43	0,1	Mon. 23	799.47	2.902804
Mon. 24 1908; r. 1950		46 12 16.9 67 46 55.5	31 359 g4	43	0,4	179	43	04	Mon. 23-A	815.46	2.911405
Mon. 24-A 1908; r. 1950	ъ.	46 12 47.5 67 46 55.8	48 359	43	OH.	179	43	04	Mon. 24	945.34	2.975587
Mon. 24-B 1908; r. 1950	a.	46 13 00.7 67 46 55.8		08 26 24 43 50	46.3 50.1 37.1 04 53.9	272 80 170 179 179	04 29 25 43 50	35.8 35.6 27.8 04 54.9	Littleton Wekefield Richmond Mon. 24-A Mon. 16	7442.7 4980.8 9042.9 393.72 11583.5	3.871731 3.697299 3.956308 2.595189 4.063838
Mon. 25 1843; r. 1953	m.	46 13 01.8 67 46 55.9	83 359	43	42	179	43	42	Mon. 24-B	48.87	1.689042
Mon. 25-A 1908; r. 1950	.	46 13 03.1 67 46 55.5	21 16 359	36	04	179	36	04	Mon. 25	38.23	1.582404
don. 25-B 1908; r. 1950	n,	46 13 04.0 67 46 55.9	87 359 26	36	04	179	36	04	Mon. 25-A	29.81	1.474361
Mon. 26 1908; r. 1950	n.	46 13 10.0 67 46 55.9		16 53 36	25.5 14.5 04	345 83 179	14 56 36	44.0 00.1 04	Porter Wakefield Mon. 25-B	11817.9 4941.8 183.45	4.072539 3.693885 2.263517
Mon. 26-A 1908; r. 1950	n.	46 13 32.9 67 46 56.1	19 359 96	37	55	179	37	55	Mon. 26	706.81	2.849305
lon. 27 843; r. 1950	в.	46 13 36.4 67 46 56.2	36 359 29	37	55	179	37	55	Mon. 26-A	108.60	2.035817
Mon. 27-A 1908; r. 1950		46 13 54.5 67 46 56.3	82 359 97	37	55	179	37	55	Mon. 27	560.30	2.74gh17
lon. 28 1908; r. 1952	m.	46 14 01.8 67 46 56.4	85 65 359	37	55	179	37	55	Mon. 27-A	225.50	2.353154
lon. 28-A 908; r. 1950	a.	46 14 08.7 67 46 56.5	82 359 29	37	55	179	37	55	Mon. 28	212.95	2.328284
lon. 28-B 908; r. 1950	m.	46 14 30.2 67 46 56.7		37	54	179	37	55	Mon. 28-A	662.46	2.821160

International boundary line NORTH LINE Propince NewBrunswick Boundary Monuments State Maine LATITUDE AND DISTANCE STATION AZIMUTH BACK AZIMUTH TO STATION LOGARITHM . 2.689984 46 14 46.099 359 37 54 37 54 489.76 Mon. 28-C 179 Mon. 28-B m. 1908; r. 1950 67 46 56.875 46 2.360374 Mon. 29 14 53.525 359 37 54 179 37 54 Mon. 28-C 229.28 67 56.944 1843; r. 1950 2.416185 46 15 01.969 55 179 55 Mon. 29 260.73 Mon. 29-A 359 12 12 m. 1908; r. 1950 67 56.961 3.043974 46 37.807 359 55 179 55 12 Mon. 29-4 1106.56 Mon. 29-B 12 46 67 57.033 1908; r. 1950 15 45.755 359 55 179 55 12 Mon. 29-B 245.41 2.389884 Mon. 30 15 57.049 67 1843; r. 1950 46 Mon. 30-A 15 51.862 359 32 179 32 13 Mon. 30 188.57 2.275477 m. 13 46 67 1908; r. 1950 57.120 Mon. 30-B 46 16 13.875 359 32 13 179 32 13 Mon. 30-A 679.70 2.832319 46 67 57.376 1908; r. 1950 46 25.427 356.68 Mon. 31 16 359 32 13 179 32 13 Mon. 30-B 2.552281 46 67 57.511 1908; r. 1950 16 44.561 Mon. 32 359 32 13 179 32 13 Mon. 31 590.82 2.771453 m. 67 46 57.734 1908; r. 1950 Mon. 32-A m. 46 17 01.865 359 32 32 Mon. 32 13 179 13 534.29 2.727780 1908; r. 1950 67 57.936 Mon. 32-B 46 10.874 32 32 17 359 13 179 13 Mon. 32-A 278.18 2.444322 m. 67 46 58.041 1908; r. 1950 46 32 179 32 13 Mon. 32-B Mon. 33 m. 39.825 359 12 893.95 2.951311 67 58.378 1908; r. 1950 46 Mon. 33-4 m. 51.709 359 32 12 179 32 12 Mon. 33 366.94 2.564598 67 58.517 1908; r. 1950 Mon. 34 . 46 57.880 359 32 12 179 32 12 Mon. 33-A 190.55 2.280013 67 1843; r. 1950 58.589 46 20.483 359 28 28 15 Mon. 34 15 179 697.92 2.843808 Mon. 35 B. 46 67 58.890 1908; r. 1950 46 32.645 15 42 42.8 195 42 22.5 Lunnon 3.345877 2217.6 Mon. 35-4 . 46 116 296 31 22.6 59.052 33 02.0 Porter 3284.9 3.516523 1908; r. 1950 359 28 15 179 28 15 Mon. 35 2.574637 375.52 Mon. 35-A 46 18 55.754 359 28 25 179 28 25 713.56 2.853433 Mon. 35-B 67 46 1908; r. 1952 59.358 359 Mon. 35-0 19 02.159 28 179 28 25 Mon. 35-B 197.78 2.296183 46 67 59.443 1908; r. 1950

International boundary line NORTH LINE Boundary Monuments Maine Province New Brunswick State __ LATITUDE AND DISTANCE STATION AZIMUTH BACK AZIMUTH TO STATION LOGARITHM Mon. 35-D 46 19 03.334 Mon. 35-C 359 28 25 179 28 25 36.27 1.559592 m. 46 59.459 1908; r. 1950 67 Mon. 35-E 46 19 05.262 359 28 25 179 28 25 Mon. 35-D 59.54 1.774781 m. 1908; r. 1950 59,485 67 46 24.462 Mon. 36 19 359 28 25 179 28 25 592.85 2.772946 m. Mon. 35-E 1908; r. 1950 67 59.739 Mon. 36-A 46 19 2.934432 52.309 359 28 24 179 28 25 Mon. 36 859.87 m. 67 47 00.108 1908; r. 1950 46 Mon. 37 20 13.410 359 28 24 179 28 24 Mon. 36-A 651.56 2.813953 . 67 47 1908; r. 1950 00.388 39.639 Mon. 37-A 46 20 359 28 24 179 28 24 809.91 2.908439 . Mon. 37 47 1908; r. 1950 67 00.736 46 20 56.498 Mon. 38 359 28 24 179 28 24 520.56 2.716474 Mon. 37-A B. 1908; r. 1950 67 47 00.960 Mon. 39 46 21 12.624 359 28 24 179 28 24 497.95 2.697187 m. Mon. 38 47 1843; r. 1950 67 01.174 Mon. 39-A 46 21 23.725 20 49 20 49 359 179 Mon. 39 342.78 2.535010 67 47 1908; r. 1950 01.357 Mon. 39-B 46 21 37.900 359 20 49 179 20 49 Mon. 39-A 437.71 2.641182 m. 67 47 1908; r. 1950 01.590 Mon. 40 46 49 m. 58.337 359 20 179 20 49 Mon. 39-B 631.05 2.800067 1908; r. 1950 67 47 01.926 Mon. 40-A 46 22 03.594 49 359 20 179 50 49 Mon. 40 m. 162.32 2.210363 67 47 02.013 1908; r. 1950 Mon. 40-B 48 46 22 35.297 359 20 179 20 49 Mon. 40-A m. 978.98 2.990774 67 47 1908; r. 1950 02.535 Mon. 41 22 45.616 20 48 20 4g Mon. 40-B 359 179 318.63 2.503291 67 47 1908; r. 1950 02.705 Mon. 41-A 46 49.557 359 20 48 179 20 48 Mon. 41 121.68 . 2.085228 1908; r. 1950 67 47 02.770 Mon. 41-B 46 23 20 48 48 Mon. 41-A R. 01.015 359 179 20 353.80 2.548754 1908; r. 1950 67 47 02.959 Mon. 42 46 36.081 48 20 48 Mon. 41_B 23 359 20 179 1082.82 3.034557 m. 47 1843; r. 1950 67 03.537 Mon. 42 Mon. 42-4 46 01.384 359 20 47 179 20 48 781.35 2.892846 m. 67 47 03.954 1908; r. 1950

. Province New Brunswick Maine International boundary line MORTH LINE Boundary Monuments State _ DISTANCE (METERS) LOGARITHM LATITUDE AND TO STATION BACK AZIMUTH AZIMUTH 2.912745 Mon. 42-4 817.98 47 24 359 20 47 179 20 27.874 46 Mon. 43 67 47 04.391 1908; r. 1950 2.722967 Mon. 43 528.41 47 179 20 47 44.986 20 46 359 Mon. 43-A m. 67 47 04.673 1908; r. 1950 2.327588 212.61 Mon. 43-A 47 359 20 47 179 20 46 51.871 Mon. 43-B . . 67 47 04.786 1908; r. 1950 4.008086 10187.9 45 44.3 Monticello 214 04.526 49 01.2 46 Mon. 44 45 14013.2 4.146537 Blaine 52 32.4 295 22.9 04.995 115 1843; r. 1950 4.067792 11689.4 Mars Hill 168 15.3 2.591922 46 179 47 Mon. 43-B 390.77 20 20 359 2.269449 Mon. 44 185.97 15 48 15 48 179 10.548 359 Mon. 44-A m. 05.107 1908; r. 1950 Mon. 44-A 430.47 2.633946 15 4g 359 15 4g 179 24.488 Mon. 45 47 05.366 67 1908; r. 1950 2.747170 558.69 Mon. 45 179 15 LIE 15 48 42.580 359 25 Mon. 45-A 67 05.702 1908; r. 1950 2.853532 Mon. 45-A 713.73 47 179 15 14g 46 26 05.693 359 15 Mon. 45-B 67 06.132 1908; r. 1950 2.478879 Mon. 45-B 301.22 15 47 26 15.447 359 15 47 179 46 Mon. 46 67 47 06.313 1908; r. 1950 Mon. 46 522.23 2.717865 15 47 47 179 32.359 359 15 Mon. 46-A 06.628 67 47 1908; r. 1950 Mon. 46-A 381.67 2.581684 47 15 47 179 15 44.719 Mon. 47 67 47 06.858 1908: r. 1950 2.116561 144 Mon. 47 130.79 44 179 15 48.954 15 26 359 Mon. 47-A 06.937 67 1908; r. 1950 278.76 2.445237 144 Mon. 47-A 44 179 15 57.981 15 26 359 Mon. 48 . 67 07.105 1908: r. 1950 64.71 1.810957 44 Mon. 48 15 359 15 44 179 46 00.076 Mon. 48-A m. 47 07.144 67 1908; r. 1950 Mon. 48-A 26.29 1.419844 44 44 179 15 00.927 359 15 Mon. 49 R. 67 47 07.160 1908; r. 1950 2.495028 44 Mon. 49 312.63 44 179 15 359 15 46 11.051 Mon. 49-A 67 07.349 1908: r. 1950 163.60 2.213783 144 15 44 Mon. 49-A 179 16.349 15 359 Mon. 49-B m. 47 67 07.448

1908; r. 1950

MORTH LINE Boundary Monuments - Province New Brunswick International boundary line _ Maine State LATITUDE AND STATION DISTANCE (METERS) AZIMUTH BACK AZIMUTH TO STATION LOGARITHM Mon. 49-C 46 27 24.287 359 15 44 15 44 Mon. 49-B . 179 245.12 2.389379 67 1908; r. 1950 47 07.596 Mon. 49-D Mon. 49-C . 46 48.656 359 15 43 179 15 44 752.53 2.876525 1908; r. 1950 67 47 08.050 Mon. 50 46 57.864 27 43 43 359 15 179 15 Mon. 49-D 284.34 2.453845 1843; r. 1950 67 47 08.222 Mon. 50-A 46 06.370 04 . 359 11 179 11 04 Mon. 50 262.68 2.419431 1908: r. 1950 67 47 08.397 Mon. 50-B 46 28 27.327 359 11 04 11 04 . 179 Mon. 50-A 647.16 2.811011 1908; r. 1950 47 67 08.829 Mon. 50-C 46 38.157 359 11 04 179 11 04 . Mon. 50-B 334.44 2.524319 1908; r. 1950 67 47 09.052 Mon. 51 46 46.080 28 359 11 179 11 04 Mon. 50-C 244.66 2.388563 1908; r. 1950 67 47 09.215 Mon. 51-A 46 28 54.032 04 359 11 04 B. 179 11 Mon. 51 245.57 2.390175 1908; r. 1950 67 47 09.379 Mon. 51-B 46 29 16.571 359 11 03 11 04 M. 179 Mon. 51-4 696.03 2.842625 1908; r. 1950 67 09.8143 Mon. 51-0 46 . 29.284 359 11 03 179 11 03 Mon. 51-B 392.59 2.593937 47 1908; r. 1950 67 10.105 Mon. 52 . 46 49.351 359 11 03 179 11 03 Mon. 51-C 619.68 2.792165 1908: r. 1950 67 47 10.519 Mon. 52-A 46 30 m. 09.987 359 11 02 179 11 03 Mon. 52 637.28 2.804329 67 1908; r. 1950 10.945 Mon. 53 46 53 19 30 19.275 28.7 46 24.5 m. 73 253 Blaine 12987.2 4.113516 47 129 1843; r. 1952 67 11.137 54.6 309 18 41.9 Mars Hill 3.440833 2759.5 359 11 02 179 11 Mon. 52-A 02 286.82 2.457602 Mon. 54 46 35.698 m. 30 359 00 27 179 00 27 Mon. 53 507.18 2.705161 67 11.549 1908; r. 1950 Mon. 54-A 46 57.803 359 00 27 179 00 Mon. 54 B. 27 682.66 2.834206 47 1908; r. 1950 67 12.104 46 Mon. 55 31 20.825 359 00 26 179 00 Mon. 54-A m. 27 710.99 2.851861 1908; r. 1950 12.682 Mon. 55-A 46 31 38.396 359 00 26 179 00 26 Mon. 55 542.64 m. 2.734515 47 1908; r. 1950 13.123 Mon. 55-B 46 48.822 359 00 32 179 00 32 Mon. 55-A 321.97 2.507820 1908; r. 1950 47 13.385

Page 110 INTERNATIONAL BOUNDARY COMMISSION-UNITED STATES, ALASKA, AND CANADA GEOGRAPHIC POSITIONS-NORTH AMERICAN DATUM 1927 Province New Brunswick State Maine Boundary Monuments International houndary line NORTH LINE

STATION		LATITUDI	AND		AZIMUT	н	BA	CK AZIN	HTU	TO STATION	DISTANCE (METERS)	LOGARITHM
don. 55-C 1908; r. 1950	m.	46 32 67 47	05.281 13.798	359	00	32	179	00	32	Mon. 55-B	508.28	2.706102
lon. 56 .908; r. 1950	m.	46 32 67 47	19.874 14.164	359	00	32	179	00	32	Mon. 55-C	450.68	2.653870
on. 56-A 908; r. 1950	m.	46 32 67 47	35.924 14.567	359	00	31	179	00	32	Mon. 56	495.65	2.695173
on. 57-52 952	d.m.	46 33 67 47	11.107 15.450	359	00	30	179	00	31	Mon. 56-A	1086.54	3.036045
on. 57-A 908; r. 1952	m.	46 33 67 47	28.581 15.879	359	00	30	179	00	30	Mon. 57-52	539.65	2.732115
lon. 57-B 1908; r. 1952	n.	46 33 67 47	43.629 16.257	359	00	30	179	00	30	Mon. 57-A	464.71	2.667185
ion. 58 1908; r. 1952	••	46 34 67 47	08.572	359	00	29	179	00	30	Mon. 57-B	770.31	2.886663
lon. 58-A 908; r. 1950	Α.	46 34 67 47	32.154 17.475	359	00	29	179	00	29	Mon. 58	728.29	2.862304
lon. 58-B 1908; r. 1950	Α.	46 34 67 47	48.717 17.891	359	00	28	179	00	29	Mon. 58-A	511.51	2.708854
lon. 59 1908; r. 1952	A.	46 34 67 47	53.989 18.024	359	00	28	179	00	28	Mon. 58-B	162.82	2.211714
ion. 59-A 1908; r. 1950	m.	46 35 67 47	05.483	359	00	23	179	00	23	Mon. 59	354.97	2.550190
ion. 60 1843; r. 1950	n.	46 35 67 47	22.563 18.743	359	00	23	179	00	23	Mon. 59-A	527.48	2.722208
ion. 60-A 1908; r. 1950		46 35 67 47	34.714 19.045	359	01	13	179	01	13	Mon. 60	375.24	2.574310
Mon. 61 1908; r. 1952		46 35 67 47	59.512 19.660	359	01	12	179	01	13	Mon. 60-A	765.82	2.884129
Mon. 61-A 1908; r. 1952		46 36 67 47	19.701	359	01	12	179	01	12	Mon. 61	51.23	1.709499
Mon. 62 1843; r. 1952	н.	46 36 67 47		359	01	12	179	01	12	Mon. 61-A	102.79	2.011968
don. 62-A 1908; r. 1952		46 36 67 47	15.483 19.807	359	54	31	179	54	31	Mon. 62	339.13	2.530361
Mon. 63 1908; r. 1952	n.	46 36 67 47		359	54	31	179	54	31	Mon. 62-A	630.59	2.799744

International boundary line NORTH LINE Boundary Monuments State Maine Province New Brunswick LATITUDE AND DISTANCE STATION HTUMITH BACK AZIMUTH TO STATION LOGARITHM Mon. 63-A 46 48.497 54 359 31 54 179 31 Mon. 63 388.83 2.589763 . 47 67 1908; r. 1952 19.883 36 Mon. 64 46 56.136 143 26 36.3 51.4 323 23 Easton 8094.7 3,908199 . 202 20 20 1843; r. 1952 67 19.900 22 49.4 28.7 Andover 3.203001 1595.9 44 179 44 Mon. 63-A 235.88 2.372695 Mon. 65 43 43 Mon. 64 46 29.172 359 36 179 36 3.008654 1020.13 47 1908; r. 1952 67 20.129 Mon. 66 46 37 53.082 359 43 36 179 43 36 Mon. 65 2.868245 738.32 67 1908; r. 1952 20.295 Mon. 66-4 46 37 43 52 43 Mon. 66 58.092 359 179 52 154.71 2.189525 1908; r. 1952 67 20.329 38 47 05.422 Mon. 66-B 46 43 43 Mon. 66-A 359 52 179 52 226.32 2.354730 1908; r. 1952 67 20.379 Mon. 66-B Mon. 66-0 07.231 359 43 52 179 43 52 1.747108 55.86 20.391 1908; r. 1952 67 Mon. 67 16.431 43 43 Mon. 66-C 284.07 2.453432 359 52 179 52 47 20.454 67 1908; r. 1952 46 Mon. 67-A 38 33.330 359 43 52 179 43 52 Mon. 67 521.82 2.717519 . 67 20.569 1908; r. 1952 46 44.528 43 43 Mon. 67-B 359 179 52 Mon. 67-A 345.78 2.538806 67 20.645 1908; r. 1952 Mon. 67-0 46 07.780 359 43 179 43 Mon. 67-B 717.99 2.856119 1908; r. 1952 67 20.804 Mon. 67-D 39 11.865 43 179 43 51 Mon. 67-C 126.14 359 51 2.100869 1908; r. 1952 20.832 Mon. 68 46 17.069 359 43 179 43 Mon. 67-D 160.68 51 51 2.205968 1843; r. 1952 67 20.868 Mon. 68-4 46 359 44 179 44 31 Mon. 68 30.321 31 409.22 2.611953 m. 20.955 1908; r. 1952 14 44 Mon. 68-B 46 47.383 359 31 179 31 Mon. 68-A 526.84 2.721677 m. 67 47 1908; r. 1952 21.067 11 46 44 Mon. 68-B Mon. 69 09.039 359 31 179 31 668.72 2.825244 67 47 21,209 1908; r. 1952 46 40 1414 144 Mon. 69 406.23 Mon. 69-A 22.195 359 31 179 31 2.608768 1908; r. 1952 67 47 21.295 Mon. 69-B 2.366243 46 40 29.721 359 31 179 31 Mon. 69-A 232.40

47

67

1908; r. 1952

21.344

Province New Brunswick International boundary line NORTH LINE Boundary Monuments Mai ne State DISTANCE (METERS) LATITUDE AND LOGARITHM TO STATION AZIMUTH BACK AZIMUTH STATION Mon. 69-B 1.879790 44 75.82 40 359 44 31 179 31 46 Mon. 70 m. 32.177 67 47 21.360 1843: r. 1952 2.844912 699.70 44 Mon. 70 46 40 54.837 359 44 30 179 31 Mon. 71 m. 67 47 21,508 1908; r. 1952 2.749743 44 562.01 41 44 179 30 Mon. 71 46 13.037 359 30 Mon. 71-A m. 47 21.627 67 1908; r. 1952 2.395473 248.58 44 25 179 25 Mon. 71-A 46 41 21.087 359 Mon. 71-B m. 67 47 21.680 1908; r. 1952 686.38 2.836565 44 44 25 Mon. 71-B 46 41 43.315 359 25 179 Mon. 71-C m. 67 47 21.827 1908; r. 1952 745.10 2.872215 44 25 Mon. 71-C 07.445 44 179 46 42 359 25 Mon. 72 m. 67 47 21.986 1908; r. 1952 5942.0 3.773929 Easton 42 36.3 233 25 52.8 53 28 46 21.229 Mon. 72-A m. 10321.0 4.013720 45.3 59 Watson 131 03 310 18.2 67 47 22.077 1908; r. 1952 8587.3 3.933855 175 38 21.5 38 43.7 Andover 355 425.65 2.629049 359 25 179 25 Mon. 72 201.45 2.304165 45 Mon. 72-A 52 45 52 179 46 42 27.753 359 Mon. 72-B m. 67 47 22.116 1908: r. 1952 2.747043 45 52 Mon. 72-B 558.53 45.841 45 52 179 46 42 359 Mon. 73 67 47 22.224 1843; r. 1952 177.92 2.250220 43 179 40 43 Mon. 73 46 42 51.603 359 40 Mon. 73-A m. 47 67 22.271 1908; r. 1952 2.974651 40 943.30 43 Mon. 73-A 46 43 359 40 43 179 22.151 Mon. 73-B m. 67 47 22.520 1908; r. 1952 2.300484 199.75 43 40 43 179 40 Mon. 73-B 46 43 28.620 359 Mon. 73-C m. 47 67 22.573 1908; r. 1952 645.52 2.809909 40 43 Mon. 73-C 43 49.525 359 40 43 179 46 Mon. 74 m. 67 47 22.743 1908; r. 1952 43 612.26 2.786934 40 43 40 Mon. 74 179 46 09.352 359 Mon. 74-A m. 47 67 22.905 1908; r. 1952 Mon. 74-A 420.53 2.623796 40 43 179 40 43 46 44 22.970 359 Mon. 75 m. 67 47 23.016 1908; r. 1952 673.56 2.828376 40 43 1414 44.783 359 40 42 179 Mon. 75 46 Mon. 75-A m. 23.194 67 47 1908; r. 1952 2.250976 40 42 178.23 40 42 179 Mon. 75-A 46 44 50.555 359 B. Mon. 75-B 67 47 23.241 1908; r. 1952

International boundary line NORTH LINE

Boundary Monuments

State Maine

STATION		LA	TITUDE AND		AZIMU	714	1	CK AZI	MUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Mon. 75-C 1908; r. 1952	m.	46 67	45 06.989 47 23.375	359	40	42	179	40	42	Mon. 75-B	507.46	2.705404
Mon. 76 1843; r. 1952	n.	46 67	45 17.713 47 23.463	359	40	42	179	40	42	Mon. 75-C	331.16	2.520044
Mon. 77 1908; r. 1952	m.	46 67	45 28.744 47 23.553	359	40	42	179	40	42	Mon. 76	340.64	2.532290
Mon. 77-A 1908; r. 1952	m.	46 67	45 42.339 47 23.664	359	40	42	179	40	42	Mon. 77	419.80	2.623041
Mon. 77-B 1908; r. 1952	n.	46 67	45 49.901 47 23.776	359	40	42	179	40	42	Mon. 77-A	233.50	2.368288
Mon. 78 1843; r. 1952		46 67	45 55.251 47 23.770	359	40	42	179	40	42	Mon. 77-B	165.21	2.218030
don. 78-A 1908; r. 1952		46 67	45 57.870 47 23.791	359	40	42	179	40	42	Mon. 78	80.86	1.907753
ion. 79 1908; r. 1952	n.	46 67	46 15.673 47 23.936	359	40	42	179	40	42	Mon. 78-A	549.74	2.740161
don. 79-A 1908; r. 1952	n.	46 67	46 32.820 47 24.076	359	40	42	179	40	42	Mon. 79	529.50	2.723869
don. 80 1908; r. 1952	m.	46 67	46 48.117 47 24.201	359	40	42	179	40	42	Mon. 79-A	472.35	2.674265
don. 81 1908; r. 1952	m.	46 67	47 02.215 47 24.316	359	40	42	179	40	42	Mon. 80	435.35	2.638838
don. 81-A 1908; r. 1952	m.	46 67	47 22.952 47 24.485	359	40	41	179	40	42	Mon. 81	640.37	2.806430
don. 81-B 1908; r. 1952	a.	46 67	47 32.691 47 24.565	69 310 359	50 59 40	12.6 35.9 41	249 131 179	45 00 40	47.2 06.4 41	Watson Aroostook Mon. 81-A	8233.7 1176.0 300.74	3.915596 3.070399 2.478196
don. 82 1843; r. 1952	m.	46 67	47 36.802 47 24.599	359	40	38	179	40	38	Mon. 81-B	126.93	2.103581
Mon. 83 1843; r. 1952	d.m.	46 67	47 41.180 47 24.635	359	40	38	179	40	38	Mon. 82	135.20	2.130962
don. 84 1843; r. 1952	m.	46 67	47 45.196 47 24.668	359	40	38	179	40	38	Mon. 83	124.00	2.093439
don. 84-A 1908; r. 1952		46 67	47 49.894 47 24.706	359	40	38	179	40	38	Mon. 84	145.07	2.161565
Mon. 85 1908; r. 1952	m.	46 67	47 55.353 47 24.751	359	40	38	179	40	38	Mon. 84-A	168.58	2.226797

INTERNATIONAL BOUNDARY COMMISSION-UNITED STATES, ALASKA, AND CANADA

GEOGRAPHIC POSITIONS-NORTH AMERICAN DATUM 1927

international boundary line_	NORTH LINE	Bound	lary Monument	18					State _	Maine	Province New	Brunswick
STATION		LATIT	UDE AND		AZIMU1	1000	1,700	CK AZI	750 P.	TO STATION	DISTANCE (METERS)	LOGARITHM
on. 85-▲ 908; r. 1952	m.		48 07.350 47 24.849	359	40	38	179	40	38	Mon. 85	370.47	2.568758
on. 86 843; r. 1952			18 21.220 17 24.963	359	40	38	179	40	38	Mon. 85-A	428.29	2.631735
n. 86-A 108; r. 1952	n.		48 31.156 47 24.910	0	12	40	180	12	40	Mon. 86	306.81	2.486872
n. 87 108; r. 1952	m.		49 04.167 47 24.733	0	12	40	180	12	40	Mon. 86-A	1019.36	3.008327
on. 87-A 108; r. 1952	a.		49 24.422	0	12	40	180	12	40	Mon. 87	625.46	2.796203
n. 87-B 108; r. 1952	۵.		49 30.005 47 24.594	0	12	40	180	12	40	Mon. 87-A	172.42	2.236579
on. 88 ICS; r. 1952	m.	67 1	49 35.634 47 24.563	0	12	53	180	12	53	Mon. 87-B	173.83	2.240117
n. 88-A 08; r. 1952	m.	67 1	49 49.417	0	12	53	180	12	53	Mon. 88	425.62	2.629018
n. 89 08; r. 1952	m.	67	50 23.861	0	15	53	180	12	53	Mon. 88-A	1063.63	3.026791
n. 89-4 08; r. 1952	m.	67 1	50 48.581 47 24.165	0	12	53	180	12	53	Mon. 89	763.34	2.882718
n. 89-B 08; r. 1952	n.	67	51 01.516		12	53	180	12	53	Non. 89-A	399.45	2.601458
n. 90 43; r. 1952	n.		10.989 17 24.042	0	12	53	180	12	53	Mon. 89-B	292.52	2.466158
n. 91 43; r. 1952	۵.	67 1	51 27.697 47 23.951	750	12	53	180	12	53	Mon. 90	515.94	2.712599
on. 91-A 008; r. 1952	m.	67 1	51 30.592 47 23.952	359	58	50	179	58	50	Mon. 91 Mon. 91-A	89.39	1.951306
on. 91-B 908; r. 1952	n.	67 1	51 37.921 47 23.954 51 54.876	359	59	2000	179	59	25	Mon. 91-B		2.718967
n. 91-C 108; r. 1952	m.	67	7 23.958	359	59	25		59	25		523.56	
n. 92 108; r. 1952	n.		52 15.749 47 23.963	274 354 359	26 144 59	35.0 43.0 25	94 174 179	27 45 59	36.4 13.1 25	Falls Aroostook Mon. 91-3	1786.3 9552.3 644.56	3.251949 3.980107 2.809260
n. 92-A 108; r. 1952	•	146 5 67 1	52 36.172 47 23.966	359	59	41	179	59	41	Mon. 92	630.66	2.799794

International boundary line NORTH LINE Boundary Monuments State Maine Province New Brunswick LATITUDE AND DISTANCE (METERS) STATION AZIMUTH BACK AZIMUTH TO STATION LOGARITHM Mon. 93 46 39.241 41 41 359 59 59 m. 179 Mon. 92-A 94.76 1.976637 23,966 1908; r. 1952 67 Mon. 93-A 46 57.607 59 41 59 41 359 179 Mon. 93 567.15 2.753695 m. 47 1908; r. 1952 67 23.968 Mon. 94 13.398 359 59 41 179 59 41 Mon. 93-A 487.63 2.688094 m. 1908; r. 1952 67 23.970 Mon. 94-A 46 59 41 41 m. 37.936 359 179 Mon. 94 757.74 2.879521 1908; r. 1952 23.973 Mon. 95 46 00.307 41 359 59 179 59 41 Mon. 94-A 690.82 2.839364 1908; r. 1952 67 23.976 Mon. 95-A 46 41 41 m. 11.583 359 59 179 59 Mon. 95 348.20 2.541828 47 23.978 1908; r. 1952 Mon. 95-B 46 28.240 359 59 41 179 59 41 514.37 Mon. 95-A 2.711279 47 1908; r. 1952 67 23.980 Mon. 96 43.931 359 59 41 179 59 41 Mon. 95-B 484.52 2.685315 1843: r. 1952 23.982 46 Mon. 97 58.940 40 56 40 359 179 56 Mon. 96 463.48 2.666034 47 24.104 1908: r. 1952 Mon. 97-A 46 09.647 40 56 40 m. 359 179 56 Mon. 97 330.64 2.519354 24.191 1908; r. 1952 Mon. 97-3 46 55 47 28.691 359 40 56 179 40 56 Mon. 97-A 2.769448 588.10 1908; r. 1952 24.345 Mon. 98 46 35.789 40 56 40 56 359 179 Mon. 97-B 219.17 2.340773 24.403 1843; r. 1952 67 Mon. 99 55 52.972 359 53 39 179 53 39 2.724779 Mon. 98 530.61 24.449 1908; r. 1952 46 13,400 Mon. 99-A m. 359 53 39 179 53 39 Mon. 99 630.84 2.799918 1908: r. 1952 67 24.504 46 Mon. 99-B 34.701 53 53 m. 359 39 179 39 Mon. 99-A 657.80 2.818093 67 24.562 1908; r. 1952 46 41.941 Mon. 100 359 53 39 179 53 39 Mon. 99-B 223.56 m. 2.349387 47 67 24.582 1909; r. 1952 Non. 100-A 46 56 56.502 53 53 449.63 359 39 179 39 Mon. 100 2.652858 67 24.621 1909; r. 1952 46 04.836 Mon. 100-B 359 53 39 179 53 39 Mon. 100-A 257.37 2.410553 m. 24.644

1909: r. 1952

67

Province New Brunswick Boundary Monuments Meine International boundary line NORTH LINE State LATITUDE AND DISTANCE AZIMUTH BACK AZIMUTH TO STATION LOGARITHM STATION 53 39 Mon. 100-B 225.39 2.352927 Mon. 100-0 46 57 12.135 359 53 39 179 m. 24.664 67 1909: r. 1952 46 57 28.762 359 53 39 179 53 39 Mon. 100-C 513.45 2.710502 Mon. 101 m. 67 24.709 1909; r. 1952 Mon. 101 46 45.456 359 53 39 179 53 39 515.50 2.712232 Mon. 101-A m. 47 24.754 1909; r. 1952 2.922644 Mon. 101-A 836.84 179 53 39 Mon. 101-B 46 12.555 359 53 38 m. 67 47 24.827 1909; r. 1952 432.10 2.635586 58 47 26.548 179 53 38 Mon. 101-B 46 359 53 38 Mon. 102 67 24.865 1909; r. 1952 58 32 27.3 54 38.8 Limestone 10300.4 4.012855 46 49.328 219 Mon. 103 m. 47 156 336 30 39.8 Caswell. 6151.7 3.788992 67 24.928 1909; r. 1952 53 53 703.48 2.847251 179 Mon. 102 359 31 31 Mon. 103 124.72 2.095932 53.367 359 53 179 53 52 Mon. 104 m. 47 24.939 67 1909; r. 1952 422.66 2.625989 07.054 359 53 52 179 53 52 Mon. 104 Mon. 104-A 24.975 67 1909; r. 1952 144.32 46 179 53 52 Mon. 104-4 2.159322 59 11.727 359 53 52 Mon. 105 m. 47 67 24.987 1909; r. 1952 179 53 Mon. 105 815.86 2.911616 46 59 38.147 359 53 52 Mon. 105-A m. 67 25.056 1909; r. 1952 53 Mon. 105-A 782.20 2.893319 03.477 53 179 52 00 359 Mon. 106 67 47 1909; r. 1952 25.122 Mon. 106 779.94 2.892062 179 53 52 28.734 359 53 52 Mon. 106-A m. 67 47 1909; r. 1952 25.188 00 48.031 359 53 52 179 53 52 Mon. 106-A 595.90 2.775176 Mon. 107 67 25.239 1844; r. 1952 47 01 14.968 359 42 51 179 42 52 Mon. 107 831.83 2.920035 Mon. 108 B. 25.436 1909; r. 1952 570.78 2.756472 179 42 51 Mon. 108 m. 01 33.451 359 42 51 Mon. 109 47 25.571 67 1844; r. 1952 156.15 359 42 51 179 42 51 Mon. 109 2.193538 Mon. 109-A m. 38.507 67 25.608 1909; r. 1952 644.22 2.809036 59.368 359 42 57 179 42 57 Mon. 109-A 47 01 Mon. 110 67 47 25.760 1909; r. 1952 2.698991 42 57 179 42 57 Mon. 110 500.02 15.560 m. Mon. 110-A 47 67 25.878

1909: r. 1952

International boundary line NORTH LINE State Maine Boundary Monuments Province New Branswick LATITUDE AND STATION DISTANCE AZIMUTH BACK AZIMUTH TO STATION LOGARITHM Mon. 110-B 02 31.491 42 42 2.691925 359 57 179 57 Mon. 110-A 491.95 m. 1909; r. 1952 67 47 25.994 35.367 26.022 Mon. 111 02 359 42 57 179 42 57 m. Mon. 110-B 119.68 2.078017 1844; 2. 1953 47 Mon. 111-A 42 41.185 359 42 2.254447 m. 179 57 Mon. 111 179.66 47 1909; r. 1952 26.064 Mon. 112 46.307 359 42 42 179 51 Mon. 111-A 2.199092 158.16 47 1844; r. 1952 67 26.101 Mon. 113 42 03 07.552 359 51 42 n. 179 51 Mon. 112 656.05 2.816939 26.256 1909; r. 1952 Mon. 113-A 03 31.465 359 42 42 179 42 42 . Mon. 113 738.45 2.868322 1909; r. 1952 67 26,432 37.416 26.476 Mon. 113 B-40 03 n. 359 42 179 42 42 Mon. 113-4 183.78 2.264294 1940; r. 1952 47 Mon. 114-31 38.739 26.486 42 42 359 42 42 n. 179 Mon. 113 B-40 40.84 1.611081 1931; r. 1952 Mon. 114-A 39.893 26.495 359 42 42 42 42 03 179 Mon. 114-31 35.64 n. 1.551933 1909; r. 1952 03 45.282 26.535 Mon. 115 359 42 42 179 42 42 Mon. 114-A 166.43 . 2.221227 67 1909; r. 1952 52.615 26.589 Mon. 116-52 d.m. 03 359 179 42 42 Mon. 115 226.46 2.354987 1952 Mon. 117-52 03 57.316 359 56 43 56 Mon. 116-52 d.m. 179 145.18 2.161898 1952 26.621

International boundary line ST. JOHN RIVER

Third Order Scheme

State _ Maine

STATION			LONGIT	UDE		AZIMU	TH		ACK AZI	2000000	TO STATION	DISTANCE (METERS)	LOGARITHA
5-1 faine 1909	1.	47 67	03	57.384 26.668	•								
-1 lew Brunswick 1909	1.	47 67	04 47	05.102	26	32	13	206	32	09	S-1	266.4	2.425578
-2 (Ref.Mon.) aine 1909; r. 1952	d.m.	47 67	04 47	09.278 56.015	133 155 279 300	39 18 54 40	51.5 18.7 15 18	313 335 99 120	36 17 54 40	46.5 22.8 41 40	Cyr Grand C-1 S-1	7362.1 3849.3 749.4 720.0	3.867002 3.585381 2.874732 2.857322
-2 ew Brunswick 1909	1.	47 67	04 147	17.624 52.006	18 300 319	10 36 27	10 14 17	198 120 139	10 36 27	07 37 36	S-2 (Ref.Mon.) C-1 S-1	271.3 759.5 822.5	2.433377 2.880507 2.915139
-3 (Ref.Mon.) ew Brunswick 1909; r.1952	d.m.	47 67	0 ¹ 4 4g	24.220 12.781	294 322	55 31	18 18	114 142	55 31	33	C-2 S-2 (Ref.Mon.)	483.3 581.4	2.684258
-3 (Ref.Mon.) sine 1909; r.1952	d.m.	47 67	48 04	16.736 20.601	215 267 293	31 23 56	11 33 04	35 87 113	31 23 56	17 54 22	C-3 (Ref.Mon.) C-2 S-2 (Ref.Mon.)	284.0 604.0 567.6	2.453286 2.781006 2.754027
-4 (Ref.Mon.) maine 1909	1.	147 67	04 48	30.700 45.840	286 308	00 59	19 -59	106 129	00	43 17	C-3 (Ref.Mon.) S-3 (Ref.Mon.)	725.6 685.2	2.860703
_4 ew Brunswick 1909	1.	47 67	04 48	36.844 38.804	38 305 328	02 22 15	29 26 46	218 125 148	02 22 15	24 45 59	S-4 (Ref.Mon.) 0-3 (Ref.Mon.) S-3 (Ref.Mon.)	240.9 673.3 730.1	2.381817 2.828233 2.863397
-5 (Ref.Mon.) aine 1909	1.	147 67	04 48	41.648 57.930	290 322	11 58	12	110 142	11 58	26	C-4 S-4 (Ref.Mon.)	429.9 423.5	2.633372 2.626856
-5 ew Brunswick 1909	1.	47 67	148 0 ₁ 4	53.591 54.720	10 327 345	24 00 09	13 15 20	190 147 165	24 00 09	11 27 27	S-5 (Ref.Mon.) C-4 S-4 (Ref.Mon.)	375.0 616.6 731.3	2.573980 2.790002 2.864083
-6 (Ref.Mon.) aine 1909	1.	47 67	149	51.063 20.056	261 301	41 54	15 52	81 121	41 55	34 09	C-5 S-5 (Ref.Mon.)	540.1 549.9	2.732501 2.740290
-6 (Grand Falls east base) ew Brunswick 1909	n.d.	47 67	05	11.307 25.599	310 349	01	30 23	130 169	01 24	53 27	C-5 S-6 (Ref.Mon.)	850.6 636.0	2.929739 2.803454
-7 (Ref.Mon.) mine 1909	1.	47 67	05 49	01.397 43.853	231 283 302	31 05 26	17 19 34	51 103 122	31 05 26	30 55 51	C-6 C-5 S-6 (Ref.Mon.)	491.9 1064.1 594.8	2.691834 3.026983 2.774402
-7 (Grand Falls west base) ew Brunswick 1909	n.d.	47 67	05 50	22.702 12.528	289	33 24	55 16	109 137	34 24	29 37	C-6 S-7 (Ref.Mon.)	1050.5 893.7	3.021407 2.951182
i-8 (Ref.Mon.) Maine 1909; r. 1952	d.m.	47 67	05 50	08.971 31.349	223 267 283	06 00 08	45 57 09	43 87 103	06 01 08	59 45 44	C-7 C-6 S-7 (Ref.Mon.)	580.9 1388.8 1028.8	2.764071 3.142626 3.012333

International boundary line ST. JOHN RIVER

Third Order Scheme

State Maine

	10)		ATITUDE	AND			a.	1	10.00	one die o		Diegraphen	The state of the s
STATION			LONGIT	UDK		AZIMU	TH		BACK AZ	MUTH	TO STATION	DISTANCE	LOGARITHM
C-g New Brunswick 1909	1.	47 67	05 51	42.679 03.304	299 327	56 04	23	119	57 04	00 53	C-7 S-8 (Ref.Mon.)	1235.9 1240.1	3.091981 3.093449
S-9 (Ref.Mon.) Maine 1909; r. 1952	d.m.	47 67	05 51	23.245 15.529	203 270 295	14 42 18	50 57 35	23 90 115	14 43 19	59 43 07	C-8 C-7 S-8 (Ref.Mon.)	653.2 1328.9 1030.8	2.815049 3.123497 3.013195
S-10 (Ref.Mon.) Maine 1909	1.	47 67	05 51	46.349 52.861	276 312	11 10	01	96 132	11 11	37 11	C-8 S-9 (Ref.Mon.)	1051.3 1062.5	3.021709 3.026346
C-9 New Brunswick 1909	1.	47 67	06 51	01.340	19 303 332	40 13 08	14 35 15	199 123 152	40 14 08	08 05 36	B-10 (Ref.Mon.) C-8 S-9 (Ref.Mon.)	191.6 1051.6 1330.7	2.691637 3.021837 3.124069
C-10 New Brunswick 1909	1.	47 67	06 52	04.419	286	21 09	42 12	106 164	21 09	53 17	C-9 B-10 (Ref.Mon.)	337.5 580.1	2.528300 2.763473
S-11 (Ref.Mon.) Maine 1909; r. 1952	d.m.	47 67	05 52	56.052 17.681	234 256 299 307	42 39 47 41	07 36 13 42	54 76 119 127	42 40 47 42	20 00 31 27	C-10 C-9 S-10 (Ref.Mon.) S-9 (Ref.Mon.)(computed)	1447.2 708.0 603.1 1656.7	2.650509 2.850009 2.780384 3.219235
C-11 (Ref.Mon.) New Brunswick 1909;r. 1952	d.m.	47 67	06 52	12.310 45.339	284 310	24 43	29 16	104	25 43	02 36	C-10 S-11 (Ref.Mon.)	979.0 769.6	2.990786 2.886246
S-12 (Ref.Mon.) Maine 1909; r. 1952	d.m.	47 67	06 52	02.778 57.476	221 267 283	00 35 53	11 01 52	87 103	00 35 54	20 43 21	C-11 (Ref.Mon.) C-10 S-11 (Ref.Mon.)	390.1 1205.2 864.5	2.591144 3.081066 2.936768
S-13 (Ref.Mon.) Maine 1909	1.	47 67	06 53	09.385	260 306	25 06	22 34	80 126	25 06	41 44	C-11 (Ref.Mon.) S-12 (Ref.Mon.)	543.2 346.2	2.734932 2.539313
C-12 New Brunswick 1909	1.	47 67	06 52	16.946 52.314	13 58 314	58 59 13	23 46 48	193 238 134	58 59 13	19 32 53	S-12 (Ref.Mon.) S-13 (Ref.Mon.) C-11 (Ref.Mon.)	450.9 453.3 205.2	2.654055 2.656388 2.312254
C-13 New Brunswick 1909	1.	47 67	o6 53	27.193 03.046	16 324	26 25	08 40	196 144	26 25	03	S-13 (Ref.Mon.) C-12	573.4 389.0	2.758430 2.589973
S-14 (Ref.Mon.) Maine 1909	1.	47 67	06 53	16.589 24.391	233 269 307	57 03 41	29 44 55	53 89 127	57 04 42	44 08 05	C-13 C-12 S-13 (Ref.Mon.)	556.6 676.5 363.8	2.745527 2.830242 2.560868
S-15 (Ref.Mon.) Maine 1909	1.	47 67	06 53	33.126 25.825	290 356	52 36	40 39	110 176	52 36	56 40	C-13 S-14 (Ref.Mon.)	514.0 511.6	2.710992 2.708901
0-14 New Brunswick 1909	1.	47 67	06 53	37.162 13.230	20 64 325	19 51 06	36 37 12	200 244 145	19 51 06	28 28 19	S-14 (Ref.Mon.) S-15 (Ref.Mon.) C-13	677.5 293.3 375.3	2.830897 2.467379 2.574401
C-15 New Brunswick 1909	1.	47 67	06 53	54.836 15.512	17 354	58 57	14 45	197 174	58 57	07 47	S-15 (Ref.Mon.)	704.8 547.9	2.848060

Province New Brunswick ST. JOHN RIVER Third Order Scheme State International boundary line _ DISTANCE LATITUDE AND TO STATION LOGARITHM AZIMUTH BACK AZIMUTH STATION 2.488139 C-15 307.7 283 42 42 103 42 52 S-16 (Ref.Mon.) 1. 57.198 46 C-14 709.4 2.850901 34 112 67 53 29.692 330 42 150 Meine 1909 2.873794 44 173 44 32 S-15 (Ref.Mon.) 747.8 353 29 794.7 2.900194 14 06 S-16 (Ref. Mon.) 47 07 21.495 19 14 15 199 C-16 824.1 2.915977 25 11 177 25 12 C-15 67 53 17.272 357 New Brunswick 1909 3.303685 Hamlin 2012.3 50.1 206 33 18.9 18.738 26 33 S-17 (Ref.Mon.) d.m. 47 07 56 2.687830 56 14 C-16 487.3 259 79 31 53 40.036 Maine 1909:r. 1952 42.6 2075.0 3.317016 291 46 35.6 111 CAL 26 744 59 44 901.2 2.954805 324 59 C-15 2.845106 341 S-16 (Ref. Mon.) 700.0 50 57 161 51 05 1199.4 3.078953 55.639 32 18 151 32 38 C-16 07 331 C-17 (Ref. Mon.) 1. 23 S-17 (Ref. Mon.) 1143.2 3.058133 44.387 355 23 52 175 55 67 53 New Brunswick 1909 15 02 C-17 (Ref. Mon.) 322.7 2.508817 14 07 49.682 235 S-18 (Ref. Mon.) 1. 1207.4 3.081858 56.967 316 07 45 136 08 14 C-16 67 53 Maine 1909 31 S-17 (Ref.Mon.) 1020.1 3.008629 06 159 18 339 31 692.4 2.840378 C-17 (Ref.Mon.) 04.237 292 32 112 33 12 S-19 (Ref. Mon.) 1. 08 2.767130 14.730 320 12 140 47 S-18 (Ref. Mon.) 585.0 Maine 1909 455.2 2.658161 144 224 20 28 S-19 (Ref.Mon.) 20 39 08 14.778 C-18 1. C-17 (Ref. Non.) 672.8 2.827862 53 59.634 331 28 02 151 28 13 New Brunswick 1909 2.890444 S-18 (Ref.Mon.) 175 51 10 777.0 355 51 08 831.4 47 48 2.919789 47 47 25 126 C-18 S-20 (Ref. Mon.) 05 30.902 306 1. 45 S-19 (Ref. Mon.) 893.8 2.951252 67 31.227 337 06 33 157 Maine 1909 2.914976 S-19 (Ref. Non.) 822.2 36 181 13 35 30.855 1 13 C-19 1. 08 2.562564 S-20 (Ref. Mon.) 365.2 270 13 25 13.894 90 13 New Brunswick 1909 148 C-18 580.4 2.763694 328 48 58 C-19 994.7 2.997693 148 01 18 47 328 00 1. 05 58.176 C-20 349 ii S-20 (Ref. Mon.) 08 169 05 17 857.7 2.933316 67 38.898 New Brunswick 1909 233 48 C-20 376.9 2.576230 51 47 50.978 51 Og S-21 (Ref. Mon.) d.m. 3.016145 47 46 42 126 12 C-19 1037.9 53.345 Maine 1909: r.1952 N S-20 (Ref. Mon.) 2.889663 04 143 18 775.6 323 01 36 C-20 1056.7 3.023943 47 122 18 47 09 16.611 302 35 C-21 1. 8-21 (Ref. Non.) 984.8 2.993347 34 143 29 54 323 29 67 55 21.152 New Brunswick 1909 16 30 C-21 413.8 2.616831 235 16 18 47 09 08.977 S-22 (Ref. Mon.) d.m. 1274.8 3.105433 09 48 105 10 31 C-20 67 37.297 Meine 1909; r.1952 45 3.033431 58 S-21 (Ref. Mon.) 1080.0 120 300 58 13 52 C-21 710.1 2.851328 103 09 22.126 283 S-23 (Ref. Mon.) 1. 18 C5 S-22 (Ref.Mon.) 535.6 2.728856 17 53 139 67 319 53.877 Meine 1909

International boundary line ST. JOHN RIVER

Third Order Scheme

State Maine

STATION		u	LONGITU	AND		AZIMU	1/2/		ACK AZI	MUTH	TO STATION	DISTANCE (METERS)	LOGARITH
C-22 (Ref.Mon.) New Brunswick 1909	1.	147 67	09 55	31.358 44.520	34 312 347	39 46 34	30 14 59	214 132 167	39 46 35	23 31 04	S-23 (Ref.Mon.) C-21 S-22 (Ref.Mon.)	346.6 670.6 707.7	2.539818 2.826479 2.849859
1-24 (Ref.Mon.) Meine 1909; r. 1952	d.m.	47 67	09 56	44.718 18.253	300 323	08 38	16 42	120 143	08 39	41 00	C-22 (Ref.Mon.) S-23 (Ref.Mon.)	821.6 866.2	2.914679 2.937643
-23 ew Brunswick 1909	1.	47 67	09 56	51.386 02.631	57 328 348	57 19 27	37 57 52	237 148 168	57 20 27	26 11 59	S-24 (Ref.Mon.) C-22 (Ref.Mon.) S-23 (Ref.Mon.)	388.2 726.7 922.2	2.589019 2.861348 2.964837
-25 eine 1909	1.	47 67	10 56	01.037	302	24 26	56 38	122 164	25 26	12	C-23 S-24 (Ref.Mon.)	555.9 523.1	2.745034 2.718612
-24 ew Brunswick 1909	1.	47 67	10 56	07.454 11.841	10 54 338	53 15 38	16 21 53	190 234 158	53 15 39	12 12 00	S-24 (Ref.Mon.) S-25 C-23	715.0 339.2 532.8	2.854313 2.530490 2.726543
-25 lew Brunswick 1909	1.	47 67	10 56	34.213 30.059	335 353	05 57	39 43	155	05 57	52 47	C-214 8-25	911.1 1030.3	2.959563 3.012948
-26 (Ref.Mon.) sine 1909	1.	47 67	10 56	12.593 31.637	182 290 338	50 50 21	58 23 27	2 110 158	50 50 21	59 38 32	C-25 C-24 S-25	668.5 446.1 384.0	2.825092 2.649441 2.584283
8-27 (Ref.Mon.) Maine 1909	1.	47 67	10 56	24.782 47.913	232 317 326	14 40 33	05 39 06	52 137 146	14 40 33	18 51 23	C-25 S-26 (Ref.Mon.) S-25	475.6 509.1 878.8	2.677226 2.706790 2.943905
-28 (Ref.Mon.)	1.	47 67	10 56	34.007 54.764	269 333	17 08	42 11	89 153	18 08	00	C-25 S-27 (Ref.Mon.)	520.3 319.3	2.716243 2.504237
-26 (Ref.Mon.) lew Brunswick 1909	1.	47 67	10 56	42.957 38.862	18 50 325	45 27 31	18 50 38	198 230 145	45 27 31	11 38 44	S-27 (Ref.Mon.) S-28 (Ref.Mon.) C-25	592.7 434.2 327.5	2.772864 2.637680 2.515259
-27 ew Brunswick 1909	1.	47 67	10 56	54.862 50.685	7 325	35 53	46 42	187 145	35 53	43 51	S-28 (Ref.Mon.) C-26 (Ref.Mon.)	649.7 444.0	2.812742 2.647384
-29 (Ref.Mon.) aine 1909	1.	47 67	10 57	50.314 08.361	249 290 330	19 05 22	12 07 34	69 110 150	19 05 22	25 29 44	C-27 C-26 (Ref.Mon.) S-28 (Ref.Mon.)	397.8 661.4 579.3	2.549686 2.820458 2.762885
1-30 (Ref.Mon.) Maine 1909	1.	47 67	11 57	04.782	295 327	07 50	30 05	115	07 50	53 15	C-27 S-29 (Ref.Mon.)	721.4 527.8	2.858203 2.722506
-28 ew Brunswick 1909	1.	47 67	11 56	14.401 57.050	17 60 347	45 13 28	15 29 39	197 249 167	45 13 28	07 11 44	S-29 (Ref.Mon.) S-30 (Ref.Mon.) C-27	781.1 598.1 618.1	2.892690 2.776774 2.791058
Keegan Water Tower	1.	47 67	11 57	15.891 16.848	16 276	36 18	14	196	36 18	11 16	S-30 (Ref.Mon.) C-28	358.0 419.4	2.553884

International boundary line ST. JOHN RIVER

Third Order Scheme

State Maine

nternational boundary line 31. 00	/144* 144 * JAKE		Inira Orae	r sone	ne	State _	agine	_ Province _ New	DIURSWICK
STATION		LĄ	TITUDE AND		AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
C-29 (Ref.Mon.) New Brunswick 1909	1.	47 67	11 49.320 57 13.029	342	27 12 40 25	184 27 09 162 40 37	Keegan water tower C-25	1035.5 1129.6	3.015132 3.052931
-31 leine 1909	1.	47 67	11 31.510 57 41.522	227 312 333	28 38 52 30 11 05	47 28 59 132 52 48 153 11 20	C-29 (Ref.Mon.) Keegan water tower S-30 (Ref.Mon.)	813.8 708.9 924.8	2.910515 2.850559 2.966067
-32 (Ref.Mon.) sine 1909; r. 1952	d.m.	47 67	11 57.106 58 26.670	54 165 264 278 309	01 39.8 24 18.3 15 40.7 48 35 44 48	234 01 19.5 345 23 05.7 84 19 43.3 98 49 29 129 45 21	Van Buren south base Ste. Anne St. Leonard C-29 (Ref.Mon.) S-31	722.4 8256.1 6993.6 1568.6 1236.1	2.858790 3.916774 3.844699 3.195516 3.092059
-30 (Ref.Mon.) ew Brunswick 1909	1.	47 67	12 19.327 58 08.764	28 308	46 38 18 00	208 46 25 128 18 41	S-32 (Ref.Mon.) 0-29 (Ref.Mon.)	782.9 1495.0	2.893702 3.174628
-31 lew Brunswick 1909	1.	47 67	12 28.526 58 35.577	296 349	43 14 03 49	116 43 34 169 03 56	C-30 (Ref.Mon.) S-32 (Ref.Mon.)	631.8 988.3	2.800565 2.994871
-33 (Ref.Mon.) sine 1909	1.	47 67	12 09.926 58 45.265	199 249 315	32 30 17 43 19 39	19 32 37 69 18 10 135 19 53	C-31 C-30 (Ref.Mon.) S-32 (Ref.Mon.)	609.5 821.2 556.7	2.784982 2.914470 2.745634
-34 sine 1909	1,	47 67	12 25.160 59 11.482	262 310	09 51 26 55	82 10 17 130 27 14	0-31 S-33 (Ref.Mon.)	762.8 725.1	2.882384 2.860409
-32 (Ref.Mon.) ew Brunswick 1909; r. 1952	d.m.	47 67	12 35.458 59 03.183	28 290 334	46 32 13 27 26 12	208 46 26 110 13 47 154 26 25	S-34 C-31 S-33 (Ref.Mon.)	362.8 619.2 874.0	2.559679 2.791801 2.941518
-33 (Ref.Mon.) ew Brunswick 1909	1.	47 67	12 46.706 59 30.554	301 328	05 28 54 00	121 05 48 148 54 14	0-32 (Ref.Mon.) S-34	672.6 777.0	2.827765 2.890h49
-35 (Ref.Mon.) leine 1909; r. 1952	d.m.	47 67	12 29.927 59 34.647	189 255 286	26 13 31 53 47 56	9 26 16 75 32 16 106 48 13	C-33 (Ref.Mon.) C-32 (Ref.Mon.) S-34	525.3 683.8 509.2	2.720398 2.834935 2.706924
-36 (Ref.Mon.) maine 1909	1.	47 68	12 52.124 00 06.668	282 315	24 48 29 17	102 25 14 135 29 40	C-33 (Ref.Mon.) S-35 (Ref.Mon.)	778.1 961.2	2.891061 2.982829
-34 ew Brunswick 1909	1.	47 67	13 03.543 59 49.765	45 322 342	14 47 08 03 57 38	225 14 35 142 08 17 162 57 49	S-36 (Ref.Mon.) C-33 (Ref.Mon.) S-35 (Ref.Mon.)	500.9 658.6 1085.8	2.699710 2.818634 3.035747
-37 (Ref.Mon.) aine 1909	1.	47 68	13 14.665 00 26.891	293 328	43 49 33 38	113 44 16 148 33 53	C-34 S-36 (Ref.Mon.)	853.3 815.9	2.931116 2.911614
-35 (Ste.Anne east base) ew Brunswick 1909	1.	47 68	13 33.013 00 13.813	25 330 353	54 08 55 31 12 34	205 53 59 150 55 49 173 12 40	S-37 (Ref.Mon.) C-34 S-36 (Ref.Mon.)	629.9 1041.3 1271.6	2.799267 3.017563 3.104363
3-38 (Ref.Mon.) Maine 1909	1.	47 68	14 02.298 01 22.101	302 321	11 07 42 00	122 11 57 141 42 41	C-35 S-37 (Ref.Mon.)	1697.5 1874.3	3.22981 ⁴ 3.272832

International boundary line ST. JOHN RIVER

Third Order Scheme

State Maine

STATION		LA	TITUDE	AND		AZIMU	TH		ACK AZI	MUTH	TO STATION	DISTANCE	LOGARITHM
3-36 (Ste.Anne west base) New Brunswick 1909	1.	47 68	14 00	07.947 52.449	74 323 341	22 00 54	32 12 08	254 143 161	22 00 54	10 40 27	S-38 (Ref.Mon.) 0-35 S-37 (Ref.Mon.)	647.7 1350.7 1731.1	2.811351 3.130569 3.238318
0-37 (Ref.Mon.) New Brunswick 1909	1.	47 68	14	42.596 42.446	315 341	29 01	39 25	135 161	30 01	16 40	C-36 S-38 (Ref.Mon.)	1500.2 1316.0	3.176160 3.119258
-39 (Ref.Mon.) aine 1909	1.	47 68	14 02	32.138 12.571	242 293 310	59 54 57	10 00 23	62 113 130	59 54 58	32 59 00	C-37 (Ref.Mon.) C-36 S-38 (Ref.Mon.)	711.1 1843.4 1405.7	2.851954 3.265611 3.147902
-38 lew Brunswick 1909	1.	47 68	15	05.051 35.450	301 334	52 40	57	121 154	53	36 19	C-37 (Ref.Mon.) S-39 (Ref.Mon.)	1312.7 1124.6	3.118180 3.050982
-40 (Ref.Mon.) aine 1909; r. 1951	d.m.	47 68	14 03	54.851 02.652	241 282 303	09 38 39	24 18 30	61 102 123	09 39 40	44 17 07	C-38 C-37 (Ref.Mon.) S-39 (Ref.Mon.)	653.0 1728.7 1265.4	2.814927 3.237708 3.102233
L41 (Ref.Mon.) aine 1909	1.	47 68	15 03	13.799 39.383	281 307	21	20 36	101	22	07 03	C-38 S-40 (Ref.Mon.)	1371.3 969.0	3.137110 2.986324
-39 (Ref.Mon.) ew Brunswick 1909; r. 1951	d.m.	47 68	15 03	26.915 26.952	32 301 332	50 56 42	08 16 10	212 121 152	49 56 42	59 54 28	S-41 (Ref.Mon.) C-38 S-40 (Ref.Mon.)	482.1 1276.2 1114.3	2.683102 3.105908 3.046984
-40 ew Brunswick 1909	1.	47 68	15 04	45.650 24.744	295 315	27 52	25 50	115 135	28 53	07 23	C-39 (Ref.Mon.) S-41 (Ref.Mon.)	1345.8 1370.1	3.128966 3.136752
L42 (Ref.Mon.) Leine 1909	1.	47 68	15 05	25.994 11.998	166 238 256 269 280	10 34 32 15 56	54.6 09 04.0 03 07	346 58 76 89 100	08 34 35 16 57	54.7 44.0 20 15	Creen River C-40 Ste. Anne C-39 (Ref.Mon.) S-41 (Ref.Mon.)	14315.4 1164.3 6621.7 2208.8 1983.4	4.155804 3.066051 3.820971 3.344165 3.297418
-43 (Ref.Mon.) Laine 1909	1,	47 68	16 06	40.659 45.501	299 319	50 32	51 40	119 139	52 33	35 49	C-40 S-1:2 (Ref.Mon.)	3411.8 3029.9	3.532983 3.481429
-41 (Ref.Mon.) ew Brunswick 1909	1.	47 68	16 05	50.517 56.986	73 315 340	22 55 04	50 29 48	253 135 160	22 56 05	14 37 21	S-43 (Ref.Mon.) C-40 S-42 (Ref.Mon.)	1064.1 2787.9 2776.3	3.026990 3.445273 3.443464
_42 ew Brunswick 1909	1.	47 68	17	22.113	302 337	08 23	21 13	122 157	09 23	15 31	C-41 (Ref.Mon.) S-43 (Ref.Mon.)	1833.8 1386.8	3.263360 3.142011
_h4 (Ref.Mon.) sine 1909; r. 1951	d.m.	47 68	17 07	01.249	219 279 300	34 01 48	47 08 37	39 99 120	35 02 49	06 21 1 ¹	C-42 C-11 (Ref.Mon.) S-43 (Ref.Mon.)	836.1 2111.7 12 ^h 1.2	2.922236 3.324634 3.093848
_45 (Ref.Mon.) aine 1909	1.	47 68	17 08	40.892	286 310	18 10	01 56	106	19 11	10 46	C-42 S-44 (Ref.Mon.)	2065.0	3.314913 3.278104
143 (Ref.Mon.) New Brunswick 1909; r. 1951	d.m.	47 68	18	02.964 26.375	30 308 331	07 29 03	03 08 24	210 128 151	06 30 04	49 03 00	S-45 (Ref.Mon.) C-42 S-44 (Ref.Mon.)	788.0 2026.8 2177.8	2.896527 3.306816 3.338022

International boundary line ST. JOHN RIVER

Third Order Scheme

State Maine

STATION		LA	TITUDE	AND		AZIMUT		8/	CK AZII	HUTH	TO STATION	DISTANCE (METERS)	LOGARITHI
S-46 (Ref.Mon.) Meine 1909	1.	47 68	18	12.012 29.462	281 315	53	55 07	101	54 56	41 39	C-43 (Ref.Mon.) S-45 (Ref.Mon.)	1354.4 1337.4	3.131762 3.126250
:_44 (Ref.Mon.) Tew Brunswick 1909; r. 1951	d.m.	47 68	18 08	51.628 55.150	30 338 354	30 05 31	20 15 49	210 158 174	29 05 31	55 36 56	S-46 (Ref.Mon.) C-43 (Ref.Mon.) S-15 (Ref.Mon.)	1420.0 1619.9 2194.5	3.152274 3.209475 3.341331
L47 (Ref.Mon.) leine 1909	1.	47 68	19	00.509 59.436	281 337	28 11	31 46	101 157	29 12	18 08	C-44 (Ref.Mon.) S-46 (Ref.Mon.)	1377.7 1624.7	3.139167 3.210760
_h5 (Ref.Mon.) ew Brunswick 1909	1.	47 68	19 09	22.375 02.030	14 60 351	51 45 20	12 06 51	194 240 171	50 44 20	52 24 56	S-46 (Ref.Mon.) S-47 (Ref.Mon.) C-44 (Ref.Mon.)	2248.1 1381.8 960.5	3.351808 3.140452 2.982476
-16 ew Brunswick 1909	1.	47 68	19 10	51.079 27.361	296 339	18 25	52 02	116 159	19 25	55 23	C-45 (Ref.Mon.) S-47 (Ref.Mon.)	1999.1 1668.2	3.300829
Lug (Ref.Mon.) laine 1909; r. 1951	d.e.	47 68	19 10	27.404 37.748	196 274 315	36 24 54	29 31 29	16 94 135	36 25 54	36 41 57	C-46 C-45 (Ref.Mon.) S-47 (Ref.Mon.)	763.0 2016.0 1156.4	2.882518 3.30h490 3.063090
-47 (Ref.Mon.) ew Brunswick 1909; r. 1951	d.m.	47 68	19 10	52.536 46.753	112 212 276 346	18 25 18 18	30.2 59.4 12 26	292 32 96 166	08 28 18 18	39.3 05.7 26 33	Edmund Green River C-46 S-48 (Ref.Mon.)	18207.8 6717.6 409.6 798.8	4.260258 3.827216 2.612392 2.902462
-49 (Ref.Mon.) aine 1909; r. 1951	1.	47 68	19 10	38.321 54.534	200 235 313	24 22 43	41 06 29	20 55 133	24 22 43	47 26 42	C-47 (Ref.Mon.) C-46 S-48 (Ref.Mon.)	468.4 693.4 487.8	2.670628 2.840963 2.688200
-50 (Ref.Mon.) laine 1909; r. 1951	1.	47 68	20	05.382	283 300	50 01	27 13	103 120	51 02	23	C-47 (Ref.Mon.) S-49 (Ref.Mon.)	1657.4 1670.0	3.219420 3.222724
_kg (Ref.Mon.) ew Brunswick 1909; r. 1951	d.s.	47 68	20	13.291 41.678	61 299 317	49 03 29	30 39 17	241 119 137	49 04 29	14 19 51	S-50 (Ref.Mon.) C-47 (Ref.Mon.) S-49 (Ref.Mon.)	517.3 1319.3 1465.0	2.713721 3.120355 3.165829
_lig (Ref.Mon.) New Brunswick 1909; r. 1951	d.m.	47 68	12 20	34.803 15.902	312 343	45 53	23 01	132 163	45 53	4g 10	0-48 (Ref.Mon.) S-50 (Ref.Mon.)	978.5 945.8	2.990579
-51 (Ref.Mon.) Laine 1909	1.	47 68	15 50	17.595 33.038	214 277 301	05 01 13	36 23 05	34 97 121	05 02 13	49 01 27	C-49 (Ref.Mon.) C-4g (Ref.Mon.) S-50 (Ref.Mon.)	641.7 1086.4 727.7	2.807356 3.035991 2.861943
5-52 (Ref.Mon.) Frine 1909	1.	47 68	20	43.036 54.283	277 294	00 43	31 33	97 114	01 44	144 33	C-49 (Ref.Mon.) S-51 (Ref.Mon.)	2080.7 1877.8	3.318216 3.273644
-50 (Ref.Mon.) ew Brunswick 1909	1.	47 68	21 13	03.783 26.821	41 301 321	58 00 38	140 29 02	221 121 141	58 01 38	20 22 42	S-52 (Ref.Mon.) C-49 (Ref.Mon.) S-51 (Ref.Mon.)	861.9 1736.9 1819.1	2.935433 3.239783 3.259862
2-51 New Brunswick 1909	1.	47 68	21 14	37.069 33.670	306 333	13 38	26 33	126 153	14 39	15 02	C-50 (Ref.Mon.) S-52 (Ref.Mon.)	1739.2 1862.2	3.240357 3.270031

International boundary line ST. JOHN RIVER Third Order Scheme State Maine Province New Brunswick LATITUDE AND DISTANCE STATION AZIMUTH BACK AZIMUTH TO STATION LOGARITHM S-53 (Ref.Mon.) 21 01.774 205 46 d .m. 18 36 C-51 1210.4 3.082934 68 Maine 1909; r. 1951 74 58.748 268 08 56 88 C-50 (Ref.Mon.) 3.285654 10 03 1930.4 08 54 293 09 113 41 S-52 (Ref.Mon.) 1471.7 3.167811 C-52 (Ref. Mon.) d.m. 21 31.594 261 17 35 81 18 13 C-51 1117.5 3.048259 New Brunswick 1909: r. 1951 68 15 26.310 327 147 52 51 50 10 S-53 (Ref. Mon.) 3.036437 1087.5 S-54 (Ref. Mon.) C-52 (Ref. Mon.) 20 51.519 219 52 48 24 d.m. 39 56 1612.9 3.207610 Maine 1909: r. 1951 236 39 34 40 16 15.590 48 C-51 3.408264 2560.1 258 52 57 78 53 53 1643.7 S-53 (Ref.Mon.) 3.215813 C-53 (Ref. Mon.) 276 36 C-52 (Ref. Mon.) 3.242565 d.m. 38.111 12 96 37 13 1748.1 New Brunswick 1909: r. 1951 16 49.057 333 58 40 153 59 S-54 (Ref. Mon.) 1601.2 3.204446 05 S-55 (Ref. Mon.) 56.810 20 21 36 1. 208 28 22 00 C-53 (Ref. Mon.) 1449.5 3.161222 Maine 1909 17 246 05 66 2652.5 21.868 07 19 C-52 (Ref. Mon.) 3.423660 41 276 35 96 42 24 3-54 (Ref. Mon.) 3.146353 1400.7 C-54 (Ref. Mon.) 34 42 26.6 21 32,926 214 41 47.1 Second d.m. 3.296783 1980.5 New Brunswick 1909; r. 1951 74 18 05.245 21 49.6 254 16 39.1 St. Hilaire 9203.5 3.963953 32 101 43.7 281 30 52.4 First 3.510556 3240.1 264 21 84 17 C-53 (Ref. Mon.) 1606.8 3.205963 17 46 27 140 46 S-55 (Ref. Mon.) 320 59 1439.7 3.158279 S-56 (Ref. Mon.) d.m. 21 04.788 201 48 12 21 48 24 C-54 (Ref. Mon.) 2.971249 935.9 SpS Maine 1909: r. 1951 18 21.810 07 74 62 08 42 C-53 (Ref. Mon.) 3.342791 2201.9 281 04 28 05 S-55 (Ref . Mon.) 101 12 1282.0 3.107894 S-57 (Ref. Mon.) 10,951 249 143 69 24 46 C-54 (Ref. Mon.) 1. 21 23 1929.1 3.285363 Maine 1909 19 31.292 277 25 48 97 26 39 S-56 (Ref. Mon.) 1470.7 3.167514 43, 340 C-55 (Ref.Mon.) 1. 28 08 49 208 08 30 S-57 (Ref. Mon.) 1134.4 3.0511763 New Brunswick 1909 19 05.795 284 57 104 12 41 C-54 (Ref. Mon.) 11 1310.7 3.117504 322 142 12 13 06 3-56 (Ref. Mon.) 1506.5 3.177980 C-56 21 41.629 266 12 21 86 12 49 C-55 (Ref.Mon.) 799.5 2.902822 New Brunswick 1909 344 19 43.812 29 56 164 30 05 S-57 (Ref. Mon.) 983.2 2.992628 S-58 (Ref. Mon.) 12.496 199 52 21 19 05 C-56 956.7 2.980787 Mgine 1909 19 59.316 229 40 49 42 20 C-55 (Ref. Mon.) 1472.7 3.168122 38 94 07 38 S-57 (Ref.Mon.) 28 590.1 2.770926 S-59 (Ref. Mon.) 1. 21 14.253 236 28 58 56 29 43 C-56 1531.3 3.185058 20 44.650 273 15 36 93 16 S-58 (Ref. Mon.) Maine 1909 09 953.0 2.979092 C-56 21 39.191 267 08 22 87 09 1. 1512.1 3.179575 304 New Brunswick 1909 20 55.779 49 21 124 50 02 S-58 (Ref. Mon.) 1443.5 3.159422 343 07 45 163 07 S-59 (Ref. Mon.) 53 804 . g 2.905680 C-58 34.590 248 04 1. 21 68 380.5 2.580328 New Brunswick 1909 21 12.598 316 57 21 136 57 41 S-59 (Ref.Mon.) 859.3 2.934159

International boundary line ST. JOHN RIVER

Third Order Scheme

State Maine

BTATION		L	LONGIT	AND		AZIMU		BA	CK AZI	O'LLOUGH	TO STATION	DISTANCE (METERS)	LOGARITHI
S-60 (Ref.Mon.) Naine 1909; r. 1951	d.m.	47 68	21	11.649	175 199 261	29 14 22	07 54 52	355 19 81	29 15 23	05 04 10	C-58 C-57 S-59 (Ref.Mon.)	710.7 900.9 536.7	2.851659 2.954688 2.729699
S-61 (Ref.Mon.) Maine 1910	1.	47 68	50	56.645 04.886	223 248	07 06	00 29	43 68	07 07	38 09	C-58 S-60 (Ref.Mon.)	1605.4 1243.0	3.205589 3.094467
-59 (Ref.Mon.) New Brunswick 1910	1.	47 68	55 51	20.453	252 280 337	42 33 27	13 13 28	72 100 157	43 34 27	02 04 39	C-58 S-60 (Ref.Mon.) S-61 (Ref.Mon.)	1468.8 1483.6 796.1	3.166971 3.171321 2.900954
-60 (Ref.Mon.) lew Brunswick 1910; r. 1951	d.m.	47 68	20	39.928 03.214	216 247	17 07	17 51	36 67	17 08	49 34	C-59 (Ref.Mon.) S-61 (Ref.Mon.)	1552.7 1328.7	3.191097 3.123435
1-62 (Ref.Mon.) Leine 1910	1.	47 68	50	33.629 21.926	102 182 206	39 04 42	15 42 43	282 2 26	38 04 42	45 44 56	C-60 (Ref.Mon.) C-59 (Ref.Mon.) S-61 (Ref.Mon.)	888.3 1447.0 795.7	2.948538 3.160465 2.900753
3-63 (Ref.Mon.) Maine 1910	1.	47 68	55 50	04.952 37.427	153 200	23	03 28	333 20	22	39	C-60 (Ref.Mon.) S-62 (Ref.Mon.)	1208.2 943.5	3.082143 2.974754
-61 (Ref.Mon.)(Edmunston north ew Brunswick 1910; r. 1951	base) d.m.	47 68	53 50	02.998	181 223 263	19 21 55	28 03 55	1 43 83	19 21 56	29 34 15	C-60 (Ref.Mon.) S-62 (Ref.Mon.) S-63 (Ref.Mon.)	1140.8 1301.0 571.0	3.057204 3.114271 2.756604
-62 (Ref.Mon.)(Edminston south New Brunswick 1910; r. 1951	base) d.m.	47 68	19 23	46.223 08.521	189	19 27	39 35	9 14g	19 27	42 58	C-61 (Ref.Mon.) S-63 (Ref.Mon.)	525.0 872.2	2.720147 2.940625
E-64 (Ref.Mon.) deine 1910; r. 1951	d.m.	47 68	19	37.970 48.612	121 156 195	22 41 44	26 54 25	301 336 15	22 41 44	11 42 33	C-62 (Ref.Mon.) C-61 (Ref.Mon.) S-63 (Ref.Mon.)	489.6 841.6 865.7	2.689864 2.925191 2.937384
-63 (Ref.Mon.) New Brunswick 1910	1.	47 68	19 23	28.365 17.429	198 243	44 53	08 07	18 63	44 53	1 ⁴ 28	C-62 (Ref.Mon.) S-64 (Ref.Mon.)	582.4 673.9	2.765193 2.828604
6-65 (Ref.Mon.) Naine 1910	1.	47 68	19 22	22.855 45.316	104 145 171	09 58 34	50 32 08	284 325 351	09 58 34	27 15 06	C-63 (Ref.Mon.) C-62 (Ref.Mon.) S-64 (Ref.Mon.)	695.5 870.7 471.8	2.842282 2.939885 2.673803
S-66 (Ref.Mon.) Maine 1910	1.	47 68	18	34.535 38.929	154	03 51	59 51	3.34 354	03 51	31 46	C-63 (Ref.Mon.) S-65 (Ref.Mon.)	1848.6 1498.3	3.266844 3.175591
2-64 (Ref.Mon.) New Brunswick 1910; r. 1951	d.m.	47 68	18 23	50.997 27.278	190 221 296	09 50 35	42 51 19	10 41 116	09 51 35	49 21 54	C-63 (Ref.Mon.) S-65 (Ref.Mon.) S-66 (Ref.Mon.)	1172.4 1320.8 1135.7	3.069074 3.120850 3.055255
C-65 (Ref.Mon. 1917) New Brunswick 1910	1.	47 68	18 23	42.749 30.130	193	14 16	12 03	13	14 16	1 ¹⁴	C-64 (Ref.Mon.) S-66 (Ref.Mon.)	261.7 1105.0	2.417735 3.043355
S-67 (Ref.Mon.) Maine 1910	1.	147 68	18 22	26.155 43.631	117 129 200	41 55 53	24 40 39	297 309 20	40 55 53	50 08 42	C-65 (Ref.Mon.) C-64 (Ref.Mon.) S-66 (Ref.Mon.)	1103.0 1195.4 277.0	3.042568 3.077517 2.442460

INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA

GEOGRAPHIC POSITIONS-NORTH AMERICAN DATUM 1927

International boundary line ST. JOHN RIVER

Third Order Scheme

Maine

STATION		LAT	TITUDE AND		AZIMU	тн		ACK AZI	митн	TO STATION	DISTANCE (METERS)	LOGARITHM
S-68 (Ref.Mon.) Maine 1910	1.	47 68	17 59.383 22 29.489	136 160	26 14	21 09	316 340	25 13	37 59	C-65 (Ref.Mon.) S-67 (Ref.Mon.)	18 ¹¹ 8.3 878.5	3.266772 2.943752
C-66 (Ref.Mon.) New Brunswick 1910; r. 1951	d.m.	47 68	17 45.713 23 56.004	196 197 230 256	39 08 35 54	38 49 31 58	16 17 50 76	39 09 36 56	59 08 24 01	C-64 (Ref.Mon.)(computed) C-65 (Ref.Mon.) S-67 (Ref.Mon.) S-68 (Ref.Mon.)	21(4,4 1843.3 1967.6 1866.0	3.323138 3.265601 3.293933 3.270914
i-69 (Ref.Mon.) Maine 1910; r. 1951	d.m.	47 68	16 56.625 22 29.077	95 129 151 179	33 41 12 44	24.1 58 03.7 39	275 309 331 359	27 40 10 44	46.4 54 07.4 38	Brook C-66 (Ref.Mon.) St. Hilaire S-68 (Ref.Mon.)	9702.3 2373.7 6899.9 1938.1	3.986874 3.375429 3.838844 3.287380
5-70 (Ref.Mon.) Maine 1910	1.	47 68	16 35.125 23 37.269	169 208 245	45 41 08	52 17 09	349 28 65	45 42 08	38 06 59	C-66 (Ref.Mon.) S-68 (Ref.Mon.) S-69 (Ref.Mon.)	2215.2 2966.4 1579.5	3.345408 3.472223 3.198520
5-71 (Ref.Mon.) deine 1910; r. 1951	d.m.	47 68	16 53.945 24 3 ¹ 2.950	207 295	06 36	15 28	27 115	06 37	43 10	C-66 (Ref.Mon.) S-70 (Ref.Mon.)	1796.0 1344.4	3.254310 3.128530
C-67 (Ref.Mon.) New Brunswick 1910; r. 1951	d.m.	47 68	17 26.954 24 38.401	236 321 355	57 14 55	33 28 48	56 141 175	58 15 55	он 13 51	C-66 (Ref.Mon.) S-70 (Ref.Mon.) S-71 (Ref.Mon.)	1062.6 2052.4 1022.0	3.026387 3.312264 3.009440
-68 (Ref.Mon.) lew Brunswick 1910; r. 1951	d.m.	47 68	17 25.981 26 13.401	269 295	07 32	39 49	89 115	08 34	48 01	C-67 (Ref.Mon.) S-71 (Ref.Mon.)	1996.4	3.300251 3.360455
-72 (Ref.Mon.) Fine 1910; r. 1951	1.	47 68	16 39.954 26 01.750	170 230 256	13 20 39	41 40 59	350 50 76	13 21 41	32 40 02	C-68 (Ref.Mon.) C-67 (Ref.Mon.) S-71 (Ref.Mon.)	1442.3 2274.8 1874.7	3.159069 3.356949 3.272943
-73 (Ref.Mon.) ain: 1910; r. 1951	d.m.		16 59.519 27 32.762	243 287	53 31	10	63	54 32	08 24	C-68 (Ref.Mon.) S-72 (Ref.Mon.)	1857.1 2005.9	3.2688 ¹ 7 3.302310
-69 (Ref.Mon.) ew Brunswick 1910; r. 1951	d.m.		17 45.256 27 30.901	1 290 317	35 04 05	09 16 58	181 110 137	35 05 07	08 13 03	S-73 (Ref.Mon.) C-68 (Ref.Mon.) S-72 (Ref.Mon.)	1413.0 1733.8 2752.6	3.150135 3.238992 3.439736
-74 (Ref.Mon.) gine 1910	1.		17 27.261 28 21.536	242 309	24 53	54 11	62 129	25 53	31 47	C-69 (Ref.Mon.) S-73 (Ref.Mon.)	1200.3 1335.8	3.079291 3.125752
-70 (Ref.Mon.) ew Brunswick 1910; r. 1951	d.m.		18 00.608 28 11.722	11 298 336	19 55 32	23 45 17	191 118 156	19 56 32	16 15 46	S-74 (Ref.Mon.) C-69 (Ref.Mon.) S-73 (Ref.Mon.)	1050.3 980.0 2 0 56.5	3.021294 2.991204 3.313126
-71 (Ref.Mon.) ew Brunswick 1910	1.		18 18.932 29 09.910	294 327	50 30	06 05	114	50 30	49 41	C-70 (Ref.Mon.) S-74 (Ref.Mon.)	1747.0	3.129377 3.276892
-75 (Ref.Mon.) aine 1910; r. 1951	d.m.		17 27.257 29 12.868	182 231 269	13 16 59	47 29 16	2 51 89	13 17 59	49 14 54	C-71 (Ref.Mon.) C-70 (Ref.Mon.) S-74 (Ref.Mon.)	1597.0 1646.6 1078.6	3.203317 3.216586 3.032866
3-76 (Ref.Mon.) Meine 1910	1.		17 36.137 30 03.932	58p 550	38 19	56 55	104	39	36 33	C-71 (Ref.Mon.) S-75 (Ref.Mon.)	1742.0	3.241059 3.044316

International boundary line ST. JOHN RIVER

Third Order Scheme

State Meine

sternational boundary line ST. JOHN RIVE										State _	PAR A LLC	Province		
STATION		L,	LONGIT	UDE		AZIMU			ACK AZ	IMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM	
C-72 (Ref.Mon.) New Brunswick 1910; r. 1951	d.m.	47 68	18 30	13.583	262 318 350	52 38 50	01 24 33	82 138 170	52 39 50	47 08 39	G-71 (Ref.Mon.) S-75 (Ref.Mon.) S-76 (Ref.Mon.)	1331.5 1905.9 1171.3	3.124338 3.280099 3.068683	
-77 (Ref.Mon.) Maine 1919: r. 1951	d.m.	117	17 30	39.223 31.531	200 23 ¹ 4 279	20 25 19	30 16 48	20 54 99	26 26 20	16 08	C-72 (Ref.Mon.) C-71 (Ref.Mon.) S-76 (Ref.Mon.)	1131.7 2108.1 587.7	3.053732 3.323896 2.769133	
-78 (Ref.Mon.) aine 1910	1.	47 68	17 30	38.927 57.082	71 175 220 269	41 59 59 01	32.1 28.2 30 18	251 355 li1 89	35 59 00 01	42.4 10.1 03 37	Cleir Baker C-72 (Ref.Mon.) S-77 (Ref.Mon.)	10541.0 7411.1 1418.0 536.9	4.022883 3.869884 3.151682 2.729914	
1-73 (Ref.Mon.) New Brunswick 1910; r. 1951	d.m.	47 68	17 31	59.564 12.584	250 306 332	58 03 55	22 40 41	70 126 152	59 04 55	06 10 52	C-72 (Ref.Mon.) S-77 (Ref.Mon.) S-78 (Ref.Mon.)	1328.4 1067.0 715.7	3.123328 3.028175 2.854738	
:_74 (Ref.Mon.) New Brunswick 1910; r. 1951	d.m.	47 68	17 31	46.409	234	56 19	34 11	5h 104	56 19	55 43	C-73 (Ref.Mon.) S-78 (Ref.Mon.)	707.3 933.8	2.849633	
1-79 (Ref.Mon.) Maine 1910	1.	47 68	17 31	34.855 18.171	127 188 254	98 44 45	06 36 54	307 8 74	141 144 09	50 41 10	C-74 (Ref.Mon.) C-73 (Ref.Mon.) S-78 (Ref.Mon.)	583.5 772.1 460.6	2.766058 2.887661 2.663344	
i-60 (Ref.Mon.) laine 1910	1.	47 68	17 31	21.731 38.513	177 204 226	25 59 31	26 41 08	357 25 46	25 00 31	25 01 23	C-74 (Ref.Mon.) C-73 (Ref.Mon.) S-79 (Ref.Mon.)	762.9 1289.2 589.1	2.882486 3.110318 2.770159	
-75 (Ref.Mon.) New Brunswick 1910; r. 1951	d.m.	47 68	17 32	27.217 25.712	236 238 279	57 14 41	38 02 22	56 58 99	58 11: 41	33 36 57	C-73 (Ref.Mon.)(computed) C-74 (Ref.Mon.) S-80 (Ref.Mon.)	1832.7 1126.0 1006.1	3.263085 3.051557 3.002659	
E-81 (Ref.Mon.) Seine 1910	1.	47 68	16 32	56.337 19.343	172 208 227	00 02 34	42 15 07	352 28 47	00 02 34	37 44 37	C-75 (Ref.Mon.) C-74 (Ref.Mon.) S-80 (Ref.Mon.)	963.0 1752.1 1162.4	2.983623 3.243549 3.065358	
-76 (Ref.Mon.) Tew Brunswick 1910	1.	47 68	17 32	18.002 48.434	239	11 34	58 36	59 137	12	15 58	C-75 (Ref.Mon.) S-81 (Ref.Mon.)	555.9 906.3	2.744965 2.957268	
5-82 (Ref. Mon.) Maine 1910	1.	47 68	16 33	45.798 06.690	201 213 251	05 56 52	36 44 55	21 33 71	05 57 53	49 14 30	C-76 (Ref.Mon.) C-75 (Ref.Mon.) S-81 (Ref.Mon.)	1066.0 1542.0 1047.0	3.027748 3.188090 3.019936	
5-83 (Ref.Mon.) Maine 1910	1.	47 68	16 33	50.523	236 279	44	31 59	56 99	45 06	16 31	C-76 (Ref.Mon.) S-E2 (Ref.Mon.)	1547.7 922.3	3.189673 2.964867	
2-77 (Ref.Mon.) New Brunswick 1910; r. 1951	d.m.	47 68	17 33	17.677 32.895	23 269 330	13 22 46	50 50 37	203 89 150	13 23 46	37 22 56	S-83 (Ref.Mon.) C-76 (Ref.Mon.) S-82 (Ref.Mon.)	912.6 934.3 1128.1	2.960258 2.970499 3.052332	
C-78 (Ref.Mon.) New Brunswick 1910; r. 1951	d.m.	47 68	17 34	23.863 23.501	280 325	10 39	43	100 145	11 39	26 20	C-77 (Ref.Mon.) S-83 (Ref.Mon.)	1080.h 1247.0	3.033590 3.095876	

INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA

International boundary line _ST.	JOHN RIVE	R		Third Or			C POSITIONS—	NORTH AME	RICAN I	State _1	Maine	Province New Brunswick		
STATION		L	AND		AZIMU			CK AZ	митн	TO STATION	DISTANCE (METERS)	LOGARITHM		
S-g4 (Ref.Mon.) Meine 1910	1.	47 68	16 34	50.766 14.725	169 226 270	46 36 49	20 09 30	349 46 90	46 36 49	14 40 48	C-78 (Ref.Mon.) C-77 (Ref.Mon.) S-83 (Ref.Mon.)	1038.6 1209.7 519.2	3.016452 3.082684 2.715357	
S-85 (Ref.Mon.) Meine 1910; r. 1951	d.m.	47 68	16 34	47.168 45.996	260	38 23	26 57	80 22	38	43 20	C-78 (Ref.Mon.) S-84 (Ref.Mon.)	1227.9 666.5	3.089155 2.823825	
C-79 (Ref.Mon.) New Brunswick 1910; r. 1951	d.m.	47 68	17 35	08.058 25.614	249 289 307	29 42 45	23 46 57	69 109 127	30 43 46	09 38 26	G-78 (Ref.Mon.) S-84 (Ref.Mon.) S-85 (Ref.Mon.)	1393.5 1582.6 1053.3	3.144106 3.199366 3.022549	
C-80 (Ref.Mon.) New Brunswick 1910; r. 1952	d.m.	47 68	16 36	40.753 00.917	262	20 49	18 15	41 82	20 50	14 10	C-79 (Ref.Mon.) S-85 (Ref.Mon.)	1123.2 1587.0	3.050447 3.200586	
S-86 (Ref.Mon.) Maine 1910; r. 1951	d.m.	47 68	16 35	25.641 07.905	112 164 214	43 08 42	55 25 21	292 344 34	43 08 42	16 12 37	C-80 (Ref.Mon.) C-79 (Ref.Mon.) S-85 (Ref.Mon.)	1208.0 1361.8 808.7	3.082070 3.134113 2.907797	
S-g7 (Ref.Mon.) Meine 1910	1.	47 68	16 35	02.613 35.597	22 85 155 219	04 15 141 17	22.2 59.7 11 52	202 265 335 39	03 13 40 18	07.1 34.7 52 12	Fort Clair C-80 (Ref.Mon.) S-86 (Ref.Mon.)	5724.8 4166.5 1292.5 919.0	3.757758 3.619768 3.111435 2.963318	
C-E1 (Ref.Mon.) New Brunswick 1910	1.	47 68	16 36	28.827 23.388	232 273 308	02 32 51	59 27 32	52 93 128	03 33 52	15 22 07	C-80 (Ref.Mon.) S-86 (Ref.Mon.) S-87 (Ref.Mon.)	598.9 1589.6 1290.2	2.777375 3.201292 3.110647	
C-82 (Ref.Mon.) New Brunswick 1910; r. 1951	d.m.	47 68	15 36	14.942 19.270	177	49 56	39 49	357 31	49 57	36 21	C-81 (Ref.Mon.) S-87 (Ref.Mon.)	2283.4 1735.1	3.358577 3.239313	
S-89 (Ref.Mon.) Maine 1910; r. 1952	d.m.	47 68	1 ⁴ 35	47.775 14.603	121 155 169	40 08 11	49 38 22	301 335 349	40 07 11	01 47 06	C-82 (Ref.Mon.) C-81 (Ref.Mon.) S-87 (Ref.Mon.)	1597.8 3439.5 2353.0	3.203532 3.536497 3.371613	
S-28 (Ref.Mon.) Meine 1910; r. 1951	d.m.	47 68	15 35	36.081 17.173	63 139 357	26 29 55	29 32 30	243 319 177	25 28 55	43 43 32	C-82 (Ref.Mon.) C-81 (Ref.Mon.) S-89 (Ref.Mon.)	1459.7 2142.6 1492.8	3.164275 3.330948 3.173998	
S-90 Kaine 1910	1.	47 68	1 ¹ 36	40.207	180 217 260	33 19 18	48 53 57	0 37 80	33 20 19	48 39 45	C-82 (Ref.Mon.) S-88 (Ref.Mon.) S-89 (Ref.Mon.)	1072.8 2170.3 1390.3	3.030501 3.336513 3.1 ¹ 3108	
C-83 (Ref.Mon.) New Brunswick 1910	1.	47 68	14 36	57.775 40.517	220 279 321	07 41 11	09 26 32	40 99 141	07 42 11	24 29 47	C-22 (Ref.Mon.) S-89 (Ref.Mon.) S-90	693.3 1832.9 696.2	2.840946 3.263145 2.842724	
C-84 (Ref.Mon.) New Brunswick 1910	1.	47 68	14 37	54.891 15.689	263 291	07 04	44 49	83 111	08	10 30	C-83 (Ref.Mon.) S-90	745.0	2.872148	
Clair east base New Brunswick 1910	1.	47 68	14 36	54.616 38.598	90 157	33 19	29 55	270 337	33 19	02 54	C-gh (Ref.Mon.) C-g3 (Ref.Mon.)	780.0 104.7	2.892117	

International boundary line ST. JOHN RIVER

Third Order Scheme

State Maine

STATION		L	TITUDE	AND		AZIMUT		-	CK AZI	EUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Clair west base New Brunswick 1910	1.	47 68	1 ⁴ 37	48.257 10.543	152 245 253	09 02 37	12 01 41	332 65 73	09 02 38	08 23 04	C-84 (Ref.Mon.) C-83 (Ref.Mon.) Clair east base	231.7 696.5 700.17	2.364924 2.842917 2.845202
-91 (Ref.Mon.) Laine 1910; r. 1951	d.m.	47 68	14 36	20.131 55.846	158 195 230	45 29 44	28 54 31	338 15 50	45 30 44	13 05 57	C-84 (Ref.Mon.) C-83 (Ref.Mon.) S-90	1151.7 1206.4 979.8	3.061344 3.081492 2.991157
-92 (Ref.Mon.) maine 1910; r. 1952	d.m.	47 68	1 ⁴ 37	16.938 44.897	207 231 253 264	39 47 13 32	24 24 05 06	27 51 73 84	39 49 14 32	12 55 42	C-84 (Ref.Mon.) S-88 (Ref.Mon.)(computed) S-89 (Ref.Mon.)(computed) S-91 (Ref.Mon.)	1323.3 3952.7 3301.3 1036.4	3.121654 3.596899 3.518684 3.015531
-85 (Ref.Mon.) lew Brunswick 1910	1.	47 68	14 37	41.084 45.453	235 301 359	44 48 06	05 05 05	55 121 179	44 48 06	27 43 06	C-84 (Ref.Mon.) S-91 (Ref.Mon.) S-92 (Ref.Mon.)	757.4 1227.7 745.8	2.879310 3.089091 2.872602
-36 (Ref.Mon.) New Brunswick 1910; r. 1951	d.m.	47 68	14 38	38.791 18.174	264 313	07 57	15 13	84 133	07 57	39 38	C-85 (Ref.Mon.) S-92 (Ref.Mon.)	691.8 972.2	2.839967 2.987776
5-93 (Ref.Mon.) Maine 1910	1.	47 68	14 38	15.972 08.510	163 212 266	54 00 33	43 52 24	343 32 86	54 01 33	36 09 42	C-86 (Ref.Mon.) C-85 (Ref.Mon.) S-92 (Ref.Mon.)	733.4 914.7 497.5	2.865366 2.961261 2.696836
3-9h (Ref.Mon.) Maine 1910	1.	47 68	14 38	17.014	222	02	41 17	42 92	03 16	02 45	C-86 (Ref.Mon.) S-93 (Ref.Mon.)	905.7 810.5	2.956968 2.908761
-97 (Ref.Mon.) New Brunswick 1910; r. 1952	d.m.	47 68	14 38	42.244 54.324	277 310 348	58 05 50	46 36 14	97 130 168	59 06 50	12 09 19	C-86 (Ref.Mon.) S-93 (Ref.Mon.) S-94 (Ref.Mon.)	767.7 1259.7 794.2	2.885193 3.100250 2.899918
C-88 (Ref.Mon.) New Brunswick 1910	1,	47 68	14 39	43.054 39.372	271 306	30 08	26 03	91	30 08	59 41	C-87 (Ref.Mon.) S-94 (Ref.Mon.)	947.7 1363.5	2.976675 3.134671
3-95 (Ref.Mon.) Maine 1910; r. 1952	d.m.	47 68	14 39	10.313	160 211 254	55 13 36	44 31 11	340 31 74	55 13 36	32 52 37	C-85 (Ref.Mon.) C-87 (Ref.Mon.) S-94 (Ref.Mon.)	1069.8 1153.2 779.6	3.029317 3.061901 2.891890
s-96 (Ref.Mon.) Maine 1910	1.	47 68	13	51.872 29.709	208 213 247 287	48 48 58 25	33.5 39 42 10.2	28 33 67 107	49 49 59 27	16 31 31.0	Clair C-88 (Ref.Mon.) S-95 (Ref.Mon.) Fort	4214.2 1902.4 1519.3 4231.0	3.624719 3.279309 3.181631 3.626447
2-89 (Ref.Mon.) New Brunswick 1910; r. 1952	d.m.	47 68	14 40	36.259 09.780	17 251 309	00 49 00	22 48 15	197 71 129	00 50 00	07 10 49	S-96 (Ref.Mon.) C-88 (Ref.Mon.) S-95 (Ref.Mon.)	1433.4 673.1 1273.0	3.156369 2.828052 3.104816
C-90 (Ref.Mon.) New Brunswick 1910; r. 1952	d.m.	47 68	14 41	55.644 30.841	289 326	20 51	28 15	109 146	21 52	28	C-89 (Ref.Mon.) S-96 (Ref.Mon.)	1806.8 2351.9	3.256905 3.371427
S-97 (Ref.Mon.) Mrine 1910; r. 1951	d.m.	47 68	14 41	17.144 54.474	202 254 293	41 58 37	06 56 51	22 75 113	41 00 38	23 13 53	C-90 (Ref.Mon.) C-89 (Ref.Mon.) S-96 (Ref.Mon.)	1288.7 2279.7 1946.3	3.110136 3.357879 3.289218

International boundary line ST. JOHN RIVER

Third Order Scheme State Maine

International boundary line		LATITUDE AND LONGITUDE AZIMUTH							_	State _	Maine	Province New Brunswick	
BTATION			LONGIT	UDE		AZIMU	TH "			ZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
C-91 (Ref.Mon.) New Brunswick 1910; r. 1951	d.m.	47 68	14 42	52.868 11.000	264 342	11 30	59 42	g4 162	12 30	28 54	C-90 (Ref.Mon.) S-97 (Ref.Mon.)	848.9 1156.7	2.928835
S-98 (Ref.Mon.) Meine 1910	1.	47 68	14	19.500 53.008	220 237 273	36 07 22	13 55 31	40 57 93	36 08 23	44 57 14	C-91 (Ref.Mon.) C-90 (Ref.Mon.) S-97 (Ref.Mon.)	1357.4 2057.2 1233.3	3.132692 3.313277 3.091066
C-92 (Ref.Mon.) New Brunswick 1910; r. 1951	d.m.	47 68	14 43	56.587 23.892	149 274 292 302 330 332	50 16 57 55 26 16	54.1 38 05.2 20 17 02.1	229 94 113 122 150 152	44 17 01 56 26 16	45.6 32 33.8 26 40 52.6	St. Francis C-91 (Ref.Mon.) Fort S-97 (Ref.Mon.) S-98 (Ref.Mon.) Ledges	13835.2 1537.2 8364.0 2240.6 1316.7 3110.8	4.140984 3.186722 3.922415 3.350362 3.119482 3.492868
C-93 (Ref.Mon.) New Brunswick 1910; r. 1951	d.m.	47 68	14 43	51.142 43.723	248 312	02	06 17	68 132	02	20 54	C=92 (Ref.Mon.) S=98 (Ref.Mon.)	1449.7 1446.5	2.652886
S-99 (Ref.Mon.) Meine 1910; r. 1951	d.m.	47 68	14 43	08.190 22.663	161 179 240	32 00 44	12 33 55	341 359 60	31 00 45	57 32 17	C-93 (Ref.Mon.) C-92 (Ref.Mon.) S-98 (Ref.Mon.)	1398.4 1494.8 714.9	3.145645 3.174596 2.854253
S-100 (Ref.Mon.) Maine 1910; r. 1951	d.m.	47 68	13 44	26.622	207 234	23 25	16 59	27 54	24 27	03	C-93 (Ref.Mon.) S-99 (Ref.Mon.)	2939.8 2207.5	3.468321 3.343893
C-9h (Ref.Mon.) New Brunswick 1910; r. 1951	d.m.	47 68	14 14	31.203 55.035	247 247 290 355	40 44 04 46	11 45 54 24	67 67 110 175	41 45 06 46	03 51 01 29	C-93 (Ref.Mon.) C-92 (Ref.Mon.)(computed) S-99 (Ref.Mon.) S-100 (Ref.Mon.)	1621.3 2070.9 2068.8 1999.8	3.209851 3.316162 3.315711 3.300985
C-95 (Ref.Mon.) New Brunswick 1910; r. 1951	d.m.	47 68	13 45	49.804	221	52 57	13 07	41 118	52 57	53 52	C-94 (Ref.Mon.) S-100 (Ref.Mon.)	1717.0	3.234773 3.169843
S-101 (Ref.Mon.) Maine 1910; r. 1951	d.m.	47 68	13 45	19.472 19.922	146 193 251	23 17 46	05 39 49	326 13 71	22 17 47	43 57 12	C-95 (Ref.Mon.) C-94 (Ref.Mon.) S-100 (Ref.Mon.)	1124.8 2276.2 706.4	3.051094 3.357211 2.849050
S-102 (Ref.Mon.) Maine 1910; r. 1951	d.m.	47 68	13 45	13.225 54.717	185 255	31 13	22 56	5 75	31 14	26	C-95 (Ref.Mon.) S-101 (Ref.Mon.)	1134.9 757.1	3.054964 2.879144
C-96 (Ref.Mon.) New Brunswick 1910; r. 1951	d.m.	47 68	13 46	46.081 44.755	264 294 313	20 42 56	27 46 22	84 114 133	21 43 56	08 49 59	C-95 (Ref.Mon.) S-101 (Ref.Mon.) S-102 (Ref.Mon.)	1167.5 1964.8 1462.1	3.067265 3.293316 3.164973
C-97 (Ref.Mon.) New Brunswick 1910	1.	47 68	13 47	21.832 15.614	220 278	55 52	14	40 98	55 53	37 00	C-96 (Ref.Mon.) S-102 (Ref.Mon.)	991.1 1722.7	2.996117
S-103 (Ref.Mon.) Maine 1910	1.	47 68	13 47	02.002	172 202 257	39 43 56	11 42 16	352 22 77	39 44 57	08 02 13	C-97 (Ref.Mon.) C-96 (Ref.Mon.) S-102 (Ref.Mon.)	617.5 1475.9 1659.8	2.790618 3.169055 3.220051
S-104 (Ref.Mon.) Meine 1910	1.	47 68	12 47	43.507 59.391	217 240	53 15	15 53	37 60	53 16	47 28	C-97 (Ref.Mon.) S-103 (Ref.Mon.)	1499.8 1151.8	3.176027 3.061360

International houndary line ST. JOHN RIVER

Third Order Scheme

State Maine

International boundary line _ST.	JOHN RIVE	R		Third Orde	r Sche	me				State _	Maine	Province New	Drunews CK		
STATION			LATITUDE AND			AZIMU			ACK AZ		TO STATION	DISTANCE (METERS)	LOGARITHM		
C-98 (Ref.Mon.) New Brunswick 1910; r. 1951	d.m.	47 68	13	05.945	249 275 331	10 04 56	24 27 47	69 95 151	11 05 57	09 15 00	C-97 (Ref.Mon.) S-103 (Ref.Mon.) S-104 (Ref.Mon.)	1380.4 1374.7 785.2	3.140010 3.138212 2.894961		
C-99 (Ref.Mon.) New Brunswick 1910; r. 1951	d.m.	47 68	12 49	46.313 32.391	29 249 262 272	49 05 05 31	59.9 31 59.9 31	209 69 82 92	48 06 11 32	21.9 26 20.8 39	St. Francis C-98 (Ref.Mon.) Ledges S-104 (Ref.Mon.)	5656.4 1699.5 9288.5 1959.0	3.752537 3.230324 3.967945 3.292024		
S-105 (Ref.Mon.) Maine 1910; r. 1951	d.m.	47 68	12	20.074 57.530	137 211 239	50 05 23	47 09 31	317 31 59	50 05 24	21 38 13	C-99 (Ref.Mon.) C-98 (Ref.Mon.) S-104 (Ref.Mon.)	1093.1 1654.2 1421.5	3.038648 3.218538 3.152752		
S-106 (Ref.Mon.) Maine 1910	1.	47 68	12	00.444 48.123	193 240	09	16 31	13 60	09	27 08	C-99 (Ref.Mon.) S-105 (Ref.Mon.)	1454.7 1225.3	3.162771 3.088244		
C-100 (Ref.Mon.) New Brunewick 1910	1.	ц ₇ 68	12 50	25.229 00.859	222 276 340	36 48 41	53 19 55	42 96 160	37 49 42	14 06 05	C-99 (Ref.Mon.) S-105 (Ref.Mon.) S-106 (Ref.Mon.)	884.8 1342.3 811.0	2.946833 3.127841 2.909019		
C-101 (Ref.Mon.) New Brunswick 1910; r. 1951	d.m.	47 68	12 50	09.858	243 283	07 33	20 37	63 103	07 34	52 19	C-100 (Ref.Mon.) S-106 (Ref.Mon.)	1050.1	3.021251 3.093225		
S-107 (Ref.Mon.) Maine 1910; r. 1951	d.m.	47 68	11 50	50.762 29.532	150 209 251	31 32 03	36 56 41	330 29 71	31 33 04	24 16 11	C-101 (Ref.Mon.) C-100 (Ref.Mon.) S-106 (Ref.Mon.)	677.4 1223.6 921.5	2.830851 3.087637 2.964473		
S-108 (Ref.Mon.) Maine 1910	1.	47 68	11 50	36.035 59.091	195	27 50	24	15 53	27 50	3 ⁴ 22	C-101 (Ref.Mon.) S-107 (Ref.Mon.)	1083.7 770.7	3.034915 2.886880		
C-102 (Ref.Mon.) New Brunswick 1910; r. 1951	d.m.	47 68	11 51	51.384 19.703	231 271 317	42 02 31	26 15 42	51 91 137	42 02 31	51 52 57	C-101 (Ref.Mon.) S-107 (Ref.Mon.) S-108 (Ref.Mon.)	920.7 1056.2 642.6	2.964131 3.023752 2.807935		
C-103 (Ref.Mon.) New Brunewick 1910; r. 1951	d.m.	47 68	11 51	40.577 44.633	237 278	32 19	32 06	57 98	32 19	50 39	C-102 (Ref.Mon.) S-108 (Ref.Mon.)	621.9 968.9	2.793736 2.986273		
S-109 (Ref.Mon.) Maine 1910; r. 1951	d.m.	47 68	11 51	21.410 24.814	144 186 230	49 37 09	19 45 59	324 6 50	49 37 -10	05 49 18	C-103 (Ref.Mon.) C-102 (Ref.Mon.) S-108 (Ref.Mon.)	724.2 931.9 705.1	2.859847 2.969364 2.848273		
C-104 (Ref.Mon.) New Brunswick 1910: r. 1951	d.m.	47 68	11 51	33.731 58.297	233 298	40 21	53 28	53 118	41 21	03 52	C-103 (Ref.Mon.) S-109 (Ref.Mon.)	356.9 801.0	2.552606 2.903639		
S-110 (Ref.Mon.) Maine 1910; r. 1951	d.m.	47 68	11 52	05.071	184 198 237	39 10 00	52 02 06	18 57	39 10 00	55 15 33	C-104 (Ref.Mon.) C-103 (Ref.Mon.) S-109 (Ref.Mon.)	888.0 1154.0 926.6	2.948423 3.062215 2.966882		
C-105 (Ref.Mon.) New Brunswick 1910; r. 1951	d.m.	47 68	11 52	17.636 49.433	245 253 291 328	12 13 07 22	40 28.8 07 02.5	65 73 111 148	13 21 07 22	18 14.2 42 49.0	C-104 (Ref.Mon.) Ledges S-110 (Ref.Mon.) St. Francis	1185.7 13939.0 1076.7 2547.2	3.073985 4.144233 3.032105 3.406062		

ernational boundary line ST.				2000				-		State _		Province New Brunswick		
STATION		LA	TITUDE	AND		AZIMUT	100	-	CK AZI		TO STATION	DISTANCE (METERS)	LOGARITH	
-111 (Ref.Mon.) sine 1910; r. 1951	d.m.	47 68	10 52	52.395 16.516	138 196 218	21 43 29	48 20 48	318 16 38	21 43 29	24 34 59	C-105 (Ref.Mon.) C-104 (Ref.Mon.) S-110 (Ref.Mon.)	10 ¹ / ₃ .0 1332.9 500.2	3.018302 3.124808 2.699147	
-112 (Ref.Mon.) sine 1910; r. 1951	d.m.	47 68	10 52	34.067 47.176	177 228	58 45	40 23	357 48	58 45	38 45	C-105 (Ref.Mon.) S-111 (Ref.Mon.)	1346.3 858.6	3.129152 2.933779	
-106 (Ref.Mon.) w Brunswick 1910; r. 1951	d.m.	47 68	10 53	59.135 20.927	229 278 317	14 43 26	49 11 41	49 98 137	15 43 27	12 58 06	C-105 (Ref.Mon.) S-111 (Ref.Mon.) S-112 (Ref.Mon.)	875.3 1372.1 1050.9	2.942143 3.137380 3.021556	
-113 (Ref.Mon.) ine 1910; r. 1951	đ.m.	47 68	10 53	03.046 35.660	190 226	09	11 13	10 46	09 49	22 49	C-106 (Ref.Mon.) S-112 (Ref.Mon.)	1759.7 1400.1	3.245435 3.146153	
-114 (Ref.Mon.) line 1910; r. 1952	d.m.	47 68	10 54	33.344 13.766	234 269 319	23 17 22	48 22 35	54 89 139	24 18 23	27 26 03	C-106 (Ref.Mon.) S-112 (Ref.Mon.) S-113 (Ref.Mon.)	1368.3 1823.5 1232.6	3.260911 3.090839	
. Francis east base line 1910	n.d.	147 68	10 53	34.923 20.332	87 179	31	26 54	267 359	30	45 26	S-114 (Ref.Mon.) C-106 (Ref.Mon.)	1126.2 747.8	3.051633 2.873793	
. Francis west base line 1910	n.d.	47 68	10 54	19.194 04.537	156 216 242	01 39 26	22 48 23	336 36 62	01 40 26	15 20 55	S-114 (Ref.Mon.) C-106 (Ref.Mon.) St. Francis east base	478.2 1537.7 1050.0	2.679646 3.186889 3.021186	
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Province New Brunswick State Maine Reference Monuments International houndary line ST. JOHN RIVER

STATION		L	LONGIT	AND		AZIMUT	пн	BAC	K AZIA	LUTHO	TO STATION	DISTANCE (METERS)	LOGARITHE
		0	,	200				•		*			
One New Brunswick 1952	n.m.	47 67	04 47	05.020 20.842	17 27	33 08	58 20	197 207	33 08	54 16	Mon. 116-52 Mon. 117-52	401.8 267.3	2.604030
lef. Mon. C-1-52 lew Brunswick 1917; r. 1952	d.m.	47 67	04 47	04.919	20 31 99	19 04 03	47 02 22	200 211 279	19 03 03	42 57 21	Mon. 116-52 Mon. 117-52 One	405.2 274.1 19.75	2.607683 2.437931 1.295624
in ew Brunswick 1952	n.m.	47 67	03 47	54.145 25.083	33 194	54 55	37 19	213	54 55	36 22	Mon. 116-52 One	57.0 347.5	1.755516 2.541001
def. Mon. S-1-52 inine 1940; r. 1952 (lost in 1	d.m. 955)	47 67	03	54.773 42.020	234 236 273 281	41 06 06 34	12 12 12 02	56	41 06 06 34	58 29 25 14	One Ref.Mon. C-1-52 Win Mon. 116-52	547.6 561.8 357.9 332.4	2.738427 2.749618 2.553768 2.521609
lart laine 1952	n.m.	47 67	03	57.505 42.657	243 244 285 350	14 29 37 56	32 16 42 35	63 64 105 170	14 29 37 56	48 33 55 35	One Ref.Mon. C-1-52 Win Ref.Mon. S-1-52	515.5 531.6 385.1 85.4	2.712228 2.725621 2.585533 1.931584
Ref. Mon. S-2 Maine 1909; r. 1952	d.m.	47 67	04 47	09.278 56.015	133 155 280 280 322	39 18 01 02 12	51.5 18.7 07 39	313 335 100 100 142	36 17 01 03 12	46.5 22.8 34 05 59	Cyr Grand Ref.Mon. C-1-52 One Hart	7.362.1 3.849.3 773.5 753.7 460.0	3.867002 3.585381 2.888436 2.877203 2.662785
Owo New Brunswick 1952	n.m.	47 67	04	17.863 50.651	23 323 344	07 37 58	07 23 49	203 143 164	07 37 58	03 42 55	Ref.Mon. S-2 Win Hart	288.3 909.7 650.9	2.459772 2.958878 2.813519
Ref. Mon. C-2-52 New Brunswick 1952	d.m.	47 67	04 47	17.882 50.711	22 294	50 58	27	202 114	50 58	23	Ref.Mon. S-2 Two	288.3	2.459846
Fon New Brunswick 1952	n.m.	47 67	#8 Op	20.171	288 288 343	27 29 27	22 48 51	108 108 163	27 29 27	29 55 54	Ref.Mon. C-2-52 Two Ref.Mon. S-2	223.3 224.6 350.9	2.348795 2.351490 2.545168
Ref. Mon. C-3 New Brunswick 1909; r. 1952	d.m.	47 67	748 071	24.220	296 322	13 31	10 18	116 142	13 31	19 30	Ton Ref.Mon. S-2	283.0 581.4	2.451800 2.764492
Ref. Mon. S-3 Maine 1909; r. 1952	d.m.	47 67	718 Oyt	16.736 20.601	215 293 306	31 56 33	11 04 41	35 113 126	31 56 34	17 22 09	Ref.Mon. C-3 Ref.Mon. S-2 Hart	284.0 567.6 996.8	2.453286 2.754027 2.998623
Cross Maine 1952	d.	47 67	#8 O#	12.521 24.615	213 214 244 257	03 38 51 01	09 49 52 55	33 34 64 77	03 38 52 02	12 58 10 19	Ref.Mon. S-3 Ref.Mon. C-3 Ton Two	155.3 439.2 556.3 735.4	2.191160 2.642643 2.745272 2.866509
Ref.Mon. S-4-52 Maine 1952	d.m.	47 67	04 48	30.700 45.836	286 309 321	00 00 25	21 10 27	106 129 141	00 00 25	45 28 42	Ref.Mon. C-3 Ref.Mon. S-3 Gross	725.5 685.2 718.1	2.860659 2.835787 2.856168

International houndary Hop ST. JOHN RIVER

Reference Monuments

International boundary line ST.			leference Monu			-	State _	Maine	Province New Brunswick		
STATION			TITUDE AND	AZIN	eume .	BACK A	ZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM	
Ref. Mon. S-4A ecc. Maine 1952	n.m.	47 67	04 25.630 48 45.759	179 24 273 34 280 03 312 13	39	359 24 93 35 100 04 132 13	22 03 15 30	Ref.Mon. S-4-52 Ref.Mon. C-3 Ton Oross	156.6 697.1 964.5 602.4	2.194695 2.843322 2.984313 2.779901	
Ref. Mon. S-WA Maine 1952 (lost in 1955)	d.m.	47 67	04 25.622 48 45.759	179 24 179 24		359 24 359 24	55	Ref.Mon. S-44 ecc. Ref.Mon. S-4-52	0.25	9.403094 2.195396	
Ref. Mon. C-4-52 New Brunswick 1952	d.m.	47 67	04 37.457 48 37.663	25 03 39 34 330 38 340 19	16	205 03 219 34 150 38 160 19	48 01 28 47	Ref.Mon. S-4A ecc. Ref.Mon. S-4-52 Ref.Mon. S-3 Cross	403.2 270.7 734.2 817.8	2.605508 2.432467 2.865816 2.912641	
Ref. Mon. S-5-52 Maine 1952	d.m.	47 67	04 41.646 48 57.925	286 50 322 57 332 34	06 51 17	106 50 142 58 152 34		Ref.Mon. C-4-52 Ref.Mon. S-4-52 Ref.Mon. S-44 ecc.	446.6 423.4 557.2	2.649917 2.626794 2.746021	
Ref. Mon. 0-5-52 New Brunswick 1952	d.m.	47 67	04 53.686 48 54.811	10 01 324 10 345 03	34	190 01 144 10 165 03		Ref.Mon. S-5-52 Ref.Mon. C-4-52 Ref.Mon. S-4-52	377.6 618.1 734.6	2.576994 2.791046 2.866078	
Ref. Mon. S-6-52 Maine 1952 (lost in 1955)	d.m.	47 67	04 49.881 49 21.495	258 12 297 05	24 07	78 12 117 05		Ref.Mon. C-5-52 Ref.Mon. S-5-22	575.0 558.5	2.759693 2.747010	
Lin New Brunswick 1952	n.m.	47 67	04 58.943 49 02.410	55 11 315 21		235 11 135 21		Ref.Mon. S-6-52 Ref.Mon. C-5-52	490.3 228.1	2.690469 2.358209	
Ref.Mon. C-6-52 ecc. New Brunswick 1952	n.a.	47 67	05 08.083 49 26.563	298 59 323 29 349 13	03 50 51	118 59 143 30 169 13	11	Lin Ref.Mon. S-5-52 Ref.Mon. S-6-52	582.6 1.015.6 572.2	2.765379 3.006730 2.757534	
Ref.Mon. C-6-52 New Brunswick 1952	d.m.	47 67	05 08.117 49 26.687	291 59 323 24 348 59	13 51 38	111 59 143 25 168 59	13 12 42	Ref.Mon. C-6-52 ecc. Ref.Mon. S-5-52 Ref.Mon. S-6-52	2.82 1,018.0 573.7	0.450627 3.007758 2.758695	
Ref.Mon. C-7-52 New Brunswick 1952	d.m.	47 67	05 18.100 50 14.927	307 42	15	127 42	55	Ref.Mon. S-6-52	1,424.7	3.153720	
Ref.Mon. S-7-52 Maine 1952	d.m.	47 67	04 51.918 49 49.163	146 05 223 40	144 144	326 05 43 41	25 01	Ref.Mon. C-7-52 Ref.Mon. C-6-52 ecc.	974.2 690.3	2.988651 2.8390 3 4	
Ref.Mon. S-SA ecc. Maine 1952	n.m.	47 67	05 05.601 50 41.884	235 49 267 13 285 58 290 48	50	55 50 87 14 105 59 110 48	05 46 01 39	Ref.Mon. C-7-52 Ref.Mon. C-6-52 ecc. Ref.Mon. S-6-52 Ref.Mon. S-7-52	687.2 1.590.7 1.763.9 1.189.7	2.837098 3.201575 3.246475 3.075437	
Ref.Mon. S-8A Maine 1952	d.m.	47 67	05 05.564 50 41.877	172 48 235 44		352 48 55 44	20 45	Ref.Mon. S-EA ecc. Ref.Mon. C-7-52	1.20 687.8	0.077856	
Ref.Mon. S-8 Maine 1909; r. 1952	d.m.	47 67	05 08.971 50 31.349	64 38 64 54 230 51	19 15 39	244 38 244 54 50 51	07	Ref.Mon. S-SA Ref.Mon. S-SA ecc. Ref.Mon. C-7-52	245.8 245.4 446.6	2.390498 2.389843 2.649909	

International boundary line ST. JOHN RIVER Maine Reference Monuments State

Province New Brunswick DISTANCE (METERS) LATITUDE AND TO STATION LOGARITHM STATION ATIMUTH BACK AZIMUTH 3.109935 04 117 Ref Mon. C-7-52 1.288.1 05 23.245 05 31 Ref. Mon. S-9 d.m. Ref .Mon. 8-6-52 2.616.8 3.417766 56 51 15,529 293 10 32 113 11 Maine 1909; r. 1952 Ref Mon. S-8 1,030.8 3.013195 295 18 35 115 19 07 Ref Mon. S-SA ecc. 894.7 307 30 127 31 08 2.951677 279 3.117482 99 Ref.Mon. C-7-52 1.310.6 47 25,201 05 n.m. Stone 59 62.0 1.792267 41 Ref .Mon. S-9 59 67 51 16.190 Maine 1952 1.765497 34 24 Ref.Mon. S-9 58.3 183 Ref. Mon. S-94 d.m. 25.129 1.248566 26 13 25 Stone 17.72 67 51 15.356 97 13 277 Maine 1952 784.6 2.894639 Ref Mon. S-9 25 43 21 53 Ref. Mon. C-8-52 ecc. n.m. 38.383 2.980949 45.654 161 37 Ref Mon. S-8 957.1 37 32 50 22 New Brunswick 1952 Ref .Mon. S-gA ecc. 3.006670 355 30 29 175 30 31 1.015.5 36 36 05 2 894987 Ref Mon. S-9 785.2 38.333 53 233 35 36 Ref. Mon. C-8-52 d.m. 46 50 45.563 128 308 Ref.Mon. C-8-52 ecc. 2.45 0.389272 New Brunswick 1952 134 02 Ref .Mon. 0-7-52 2.953702 02 14 898.9 314 36 24 36 175 Ref. Mon. S-8A 3.006466 355 22 1.015.0 349.4 2.543307 14 14 Ref. Mon. C-8-52 208 27 05 28.367 Ref. Mon. 119-52 d.m. Ref.Mon. C-7-52 871.2 2.940142 20 50 53.402 291 20 111 43 Maine 1952 Ref.Mon. C-8-52 ecc. 1.369.5 3.136547 304 124 28 10 06 03.478 31 Ref. Mon. C-9-52 ecc. n.m. 3.106448 41 1,277.8 51 39.194 337 41 05 157 18 Stone New Brunswick 1952 67 06 46 Ref .Mon. S-9 1.339.0 3.126767 338 158 07 03 04 2.69 0.429977 04 20 19 Ref .Mon. C-9-52 ecc. 200 19 03.396 Ref. Mon. C-9-52 d.m. 51 39.238 New Brunswick 1952 2.814055 651.7 Ref.Mon. C-9-52 ecc. 05 44.825 53 11 27 53 21 207 n.m. Ten Ref . Mon. C-8-52 ecc. 1,447.7 3.160686 53 29 97 18 51 53.649 277 Maine 1952 2.998131 29 127 29 48 Stone 995.7 22 307 1.548442 35.35 02 Ten 157 02 337 05 43.771 Ref. Mon. S-10-52 d.m. 33 25 2.829042 33 37 Bef.Mon. C-9-52 ecc. 51 52.995 205 Maine 1952 2.827314 25 Ref Mon. C-9-52 671.9 205 422.0 2.625300 Ref.Mon. C-9-52 ecc. 10 22 110 10 06 08.191 290 Ref. Mon. C-10-52 ecc. n.m. Ref.Mon. S-9 1.651.7 3.217919 327 10 30 147 11 00 67 51 57.979 New Brunswick 1952 352 47 21 172 47 24 Ten 727.3 2.861721 1.656.0 3.219049 14 02 Ref.Mon. S-9 147 08.334 Ref. Mon. C-10-52 d.m. 49 58 Ref .Mon. C-10-52 ecc. 4.54 0.657202 345 165 49 67 51 58.031 58 New Brunswick 1952 561.7 - 744542 47 Ref .Mon. C-10-52 56.052 227 32 56 31 56 13 22 41 Ref. Mon. S-11 d.m. 559.6 254 2.747877 35 Ref .Mon. C-10-52 ecc. 20 Maine 1909; r. 1952 843.4 01 13 29 Ref . Mon. C-9-52 ecc. 2.926020 124 22 614.0 Ten 2./88190 22 27 Ref.Mon. S-9 1.656.7 3.219235 307 127 1.265.7 24 25 3.102336 262 82 00 Ref .Mon. C-10-52 ecc. 02.778 Ref. Mon. S-12 d. .. Ref .Mon. C-9-52 ecc. 3.217718 28 89 25 Maine 1909; r. 1952 Ref Mon. S-11 864.5 2.936768 53 103 21 2.591144 Ref.Mon. S-12 390.1 41 00 11 06 12.310 Ref. Mon. C-11 d.m. 769.6 2.886246 Ref Mon. S-11 52 45.339 310 43 16 130 36 New Brunswick 1909; r. 1952

International boundary line _ST. JOHN RIVER Reference Monuments State Maine Promince New Brunswick LATITUDE AND DISTANCE BTATION AZIMUTH TO STATION BACK AZIMUTH LOGARITHM Ref. Mon. C-12 18.947 Ref Mon. S-12 2.700536 185 501.8 d.m. 67 442.5 2.645939 Lig New Brunswick 1917; r. 1952 52 55.108 OR 39 228 OR 27 Ref.Mon. S-13 (lost) Ref. Mon. C-13 47 06 04 Ref. Non. S-15 (lost) 2.632728 29.983 103 07 03 429.3 d.m. 56 167 Ref. Mon. S-12 New Brunswick 1917; r. 1952 67 53 05.992 347 09 859.1 2.934053 03 Ref. Mon. S-13-31 06 11.312 183 Ref. Non. C-13 2.761605 d.m. 19 19 577.6 67 141 Maine 1931: r. 1952 53 35 Ref.Mon. S-12 2.530091 07.581 321 02 338.9 Ref. Mon. S-14-31 d.m. 47 06 21.088 222 11 13 42 11 22 Ref Mon. C-13 370.8 2.569087 322 142 Ref Mon. S-12 67 53 50 2.850955 Maine 1931; r. 1952 17.801 12 50 27 709.5 46 144 54 28 28 Ref. Mon. S-13-31 370.9 2.569267 Ref. Mon. S-15-52 153 34 69.4 1.841459 d.m. 333 Ref.Mon. S-15 (lost) 31.113 24.360 Naine 1952 67 53 2.476168 Ref. Mon. C-14 d.m. 47 06 37.096 51 65 19 231 53 11 Ref . Mon. S-15-52 299.3 67 245 New Brunswick 1917; r. 1952 53 13.189 17 28 17 19 Ref.Mon. S-15 (lost) 293.3 2.467261 43 43 Ref Mon. S-16 (lost) 150 58 330 2.852244 711.6 Ref. Mon. C-15 d.m. 06 54.134 15 12 195 12 Ref . Mon. S-15-52 736.7 2.867300 New Brunswick 1917; r. 1952 15.193 19 03 199 03 41 Ref.Mon. S-15 (lost) 686.4 2.836567 107 12 00 287 Ref.Mon. S-16 (lost) 2.505125 11 50 320.0 24 355 40 24 42 Ref.Mon. C-14 175 527.8 2.722505 304 Ref. Mon. 3-16-40 03.262 27 124 27 Ref.Mon. C-15 498.2 2.697411 d.m. 67 53 34.679 Meine 1940: r. 1952 d.m. 26 50.1 206 33 Hamlin 3.303685 Ref. Mon. S-17 18.738 18.9 2.012.3 40.036 Maine 1909: r. 1952 67 53 291 35.6 111 42.6 Cyr 3.317016 2.075.0 325 25 25 Ref Mon. C-15 11 145 29 922.8 2.965110 166 42 20 Ref. Mon. S-16-40 491.1 2.691158 48 Ref. Mon. S-16-40 674.3 Ref. Mon. C-16 21.547 33 79 08 01 213 07 2.828857 d.m. 47 47 2.689494 New Brunswick 1917; r. 1952 17.195 19 259 02 Ref.Mon. S-17 489.2 136 01 43 316 01 14 Ref.Mon. S-18 (lost) 1.207.3 3.081830 Ref. Mon. S-18-40 48.572 00 Ref. Mon. C-16 d.m. 07 309 130 13 1,298.4 3.113409 54 19 67 04.384 187 Ref. Mon. C-18 (lost) Maine 1940; r. 1952 29 19 33 801.6 2.903954 Ref. Mon. C-17-40 238 57 Ref . Mon. S-18-40 d.m. 57.310 10 523.5 2.718881 43.102 107 44 New Brunswick 1940; r. 1952 53 287 21 Ref.Mon. S-19 (lost) 700.0 2.845120 326 35 54 Ref.Mon. C-18 (lost) 629.1 2.798713 Ref. Mon. S-18-40 Ref. Mon. C-18-52 ecc. 14.308 187 27 801.1 2.903660 n.m. 326 New Brunswick 1952 67 53 59.637 25 146 25 27 Ref. Mon. C-17-40 630.1 2.799378 Ref. Mon. C-18-52 Ref. Mon. S-18-40 d.m. 14.317 19 187 19 801.6 2,903972 67 53 38 02 262 38 02 Ref . Mon. C-18-52 ecc. New Brunswick 1952 59.530 82 2.28 0.357918 01.641 226 00 46 01 Ref. Mon. C-18-52 ecc. 563.3 Ref. Mon. S-19-52 ecc. 2.750733 n.m. 54 280 03 27 100 03 53 Ref . Mon. C-17-40 765.6 18.870 Maine 1952 2.883987

322

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142

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Ref . Mon. S-18-40

506.1

2.704199

Province New Brunswick International boundary line ST. JOHN RIVER Reference Monuments Maine State LATITUDE AND DISTANCE STATION AZIMUTH BACK AZIMUTH TO STATION LOGARITHM 9.540921 01.650 142 19 Ref.Mon. 3-19-52 ecc. 0.35 Ref. Mon. 3-19-52 d.m. 322 19 322 506.4 67 54 53 40 142 53 Ref . Mon . S-18-40 2.704497 Maine 1952 18.880 50 56 56 Ref. Mon. S-20-52 OR 23.222 285 18 105 52 Ref. Mon. 0-18-52 ecc. 1.002.2 3,000935 d.m. 22 23 67 54 301 15 121 01 Ref. Mon. C-17-40 1.536.9 Maine 1952 45.365 3.186633 Ref. Mon. S-21 1.601.0 3.204381 Ref. Mon. C-18-52 ecc. d.m. 08 50.978 00 01 26 67 54 334 30 30 42 Ref . Mon. S-19-52 ecc. 1.687.9 53.345 17 3.227352 Meine 1909; r. 1952 35 54 22 35 Ref. Mon. C-19-52 ecc. 30.788 186 48 Ref . Mon. S-19-52 ecc. 906.1 2.957180 n.m. 54 06 53 3.016400 New Brunswick 1952 67 13,930 126 306 38 Ref.Mon. S-21 1.038.5 54 149 Ref. Mon. C-18-52 ecc. 329 05 591.4 2.771862 44 44 08 30.826 238 46 Ref.Mon. C-19-52 ecc. 2.24 0.350894 Ref. Non. C-19-52 d.m. 67 54 New Brunswick 1952 13.839 50.412 49 49 Ref Mon . S-20-40 2.959511 Ball d. 08 22 202 20 911.0 55 18 47 55 67 54 28.594 91 271 06 Ref.Mon. S-21 521.8 2.717481 New Brunswick 1952 331 332 46 25 151 18 Ref .Mon. C-18-52 ecc. 1.271.0 3.104134 40 152 47 50 Ref Non. 0-19-52 2.832550 680.1 332 58 59 152 59 2.832654 09 Ref . Non. C-19-52 ecc. 680.2 02 165 02 27 Ref. Mon. S-18-40 1.976.7 3.295936 352 15 172 15 13 Ref. Non. S-19-52 ecc. 1.520.0 3.181839 2.694928 02.445 44 22 16 nu Ref. Non. S-21 495.4 Ref. Mon. C-20-52 ecc. 09 n.m. 334 67 46 26 154 46 32 Ball 410.g 2.613601 New Brunswick 1952 36.903 33 168 33 10 29 Ref.Mon. S-19-52 ecc. 1.915.8 3.282343 Ref. Mon. C-20-52 ecc. 0.280590 Ref. Non. C-20-52 02.391 331 1.91 d.m. 54 36.859 334 47 27 67 33 Ba11 408.9 2.611584 New Brunswick 1952 45 Ref. Mon. S-21 1.080.0 Ref. Mon. S-22 d.m. 08.977 300 13 120 3.033431 67 55 37.297 Maine 1909: r. 1952 3.140989 09 25.914 39 142 25 OB Ball 1,383.5 Ref. Mon. C-21-52 ecc. n.m. 322 343 21 163 1414 New Brunswick 1952 67 55 08.650 33 Ref.Mon. S-21 1,126.0 3.051555 24 24 09 25.909 142 322 58 Ref. Mon. C-21-52 ecc. 0.20 9.303560 Ref. Mon. C-21-52 d.m. 08.644 24 142 25 3.140926 67 55 322 39 OS Ball. 1.383.3 New Brunswick 1952 Ref. Mon. S-23 346.8 2.540121 35 214 16 Ref. Mon. C-22-29 d.m. 31.372 23 09 1.648.9 67 55 44.530 319 13 139 09 50 Ref. Mon. S-21 3.217197 Mew Brunswick 1929; r. 1952 714 34 347 28 167 Ref Mon. S-22 33 708.2 2.850147 36 36 43 09 31.431 282 102 Ref. Mon. C-21-52 ecc. 780.5 2.892364 17 Ref. Non. C-22-29 ecc. n.m. Ref .Mon. C-22-29 67 55 44.807 287 20 17 107 20 17 6.11 0.785914 New Brunswick 1952 Ref. Mon. S-21 1.654.1 319 02 31 139 03 08 3.218563 334.9 946.3 2.524920 03 26 32 Ref .Mon. C-22-29 ecc. 09 22.240 212 32 03 Sub n.m. 06 67 263 31 83 07 03 Ref . Mon. C-21-52 ecc. 2.976015 53.246 Maine 1952 51 10 298 09 118 52 Ball 2.036.3 3.308849 38 127 25 Ref.Mon. S-21 3.201097 307 21 1,588.9

Maine

Reference Monuments

International boundary line ST. JOHN RIVER Province New Brunswick State _ LATITUDE AND STATION DISTANCE (METERS) AZIMUTH BACK AZIMUTH TO STATION LOGARITHM Ref. Mon. S-23-52 254 d.m. 09 22.131 51 22 51 22 Sub 12.89 1.110356 Maine 1952 55 53.837 Ref. Mon. S-23A 22.126 135 46 315 46 d.m. 11 11 Sub 4.97 0.695937 Maine 1952 (lost in 1955) 55 53.080 23 23 10 53 Ref. Mon. S-21 1.584.0 3.199750 Viol 56 26 n.m. 31.869 271 57 26 09 Ref . Mon. C-22-29 ecc. 397.6 2.599495 Maine 1952 54 03.674 310 130 03 Ref.Mon. S-21 1.946.8 3.289311 323 32 143 32 53 Sub 369.7 2.567854 Rail 09 56 46.075 20 47 n.m. 305 125 Ref .Mon. C-22-29 ecc. 21 09 781.6 2.893004 328 Maine 1952 15.074 00 22 148 00 Sub (computed) 2.938453 38 867.9 331 18 12 151 18 20 Viol 500.1 Leon 09 56.041 d. 18 50 50 198 50 Sub 38 1.102.9 3.042555 New Brunswick 1952 55 39 36.332 37 38 54 942.8 2.974417 217 Viol. 19 22 249 Rail 872.1 2.940572 Cab 02 46 144 n.m. 10.873 290 110 Leon 1,291.4 3.111065 Maine 1952 67 56 33.664 48 319 09 139 48 45 Ref .Mon. C-22-29 ecc. 1,594.5 3.202625 330 150 27 28 Sub. 1,726.3 3.237127 34 n.m. 9 34 10 33.257 189 50 Cab 701.0 2.845742 29 56 New Brunswick 1952 316 28.122 136 30 12 Leon 1.584.4 3.199877 43 161 341 29 09 Sub 2.312.8 3.364147 Ref. Non. C-23-52 ecc. 09 n.m. 52.332 60 38 240 26 Rail 397.2 2.599002 55 58.598 New Brunswick 1952 127 23 307 57 Cab 934.5 2.970568 353 57 173 05 01 Sub 936.1 2.971318 Ref. Mon. C-23-52 52.328 127 48 47 d.m. 307 Cab 934.4 2.970548 New Brunswick 1952 67 55 42 58.605 229 27 27 Ref . Mon . C-23-52 ecc . 0.20 9.310091 Ref. Mon. S-25-52 35 58 28 d.m. 10 00.959 148 35 42 36 328 Cab 2.554741 358.7 56 Maine 1952 67 24.788 175 58 23 355 21 Nat 999.9 2.999950 27 278 31 98 07 Leon 1.031.8 3.013596 47 295 37 115 47 Ref . Mon. C-23-52 57 612.5 2.787099 317 22 16 137 Ref . Mon . C-22-29 ecc . 1,241.2 3.093848 Ref. Mon. S-24 44.718 d.m. 164 344 56 Ref.Mon. S-25-52 517.4 2.713824 Maine 1909; r. 1952 18.253 07 300 07 120 07 32 Ref. Mon. C-22-29 821.2 2.914470 14 300 12 49 13 120 Ref . Mon. C-22-29 ecc. 819.0 2.913309 Ref. Non. C-24-52 ecc. 10 16.595 n.m. 36 200 Ref. Mon. S-25-52 515.9 2.712558 New Brunswick 1952 67 22 244 22 16.166 Cab 408.7 2.611390 Ref. Mon. C-24-52 d.m. 10 16.598 55 244 Ref .Mon . C-24-52 ecc . 0.20 9.290196 New Brunswick 1952 56 16.158 64 22 244 67 55 22 42 Cab 408.9 2.611597 Ref. Mon. 3-26-52 11.488 d.m. 67 26 Ref. Mon. C-24-52 418.3 2.621489 Maine 1952 34.553 315 26 135 Cab 26.68 1.426173

Propince New Brunswick International boundary line ST. JOHN RIVER Reference Monuments State Maine DISTANCE (METERS) LATITUDE AND AZIMUTH BACK AZIMUTH TO STATION LOGARITHM STATION 2.665142 462.5 26 40 47 10 25.556 239 03 59 03 Nat d.m. Ref. Mon. 3-27-52 2.848335 Ref. Mon. C-24-52 705.2 05 35 113 05 58 56 46.961 293 67 Maine 1952 1.744.5 3.241676 29 28 121 30 20 Leon 301 2.726691 533.0 148 18 Cab 328 17 57 07 2.704991 Ref. Mon. S-26-52 58 148 58 507.0 328 13 22 526.4 2.721317 22 90 33.368 270 22 47 10 Ruin n.m 934.8 2.970734 123 39 Ref .Mon. C-24-52 ecc. 38 67 56 53,121 303 38 Maine 1952 3.297962 26 1.985.9 305 28 125 22 Leon 329 56 149 28 10 Cab 806.5 2.906616 27 2.812796 649.8 Ref. Non. 3-26-52 42 32.288 8 188 Ref. Mon. C-25-54 10 d.m. 415.5 2.618547 58 37 239 58 25 Ref. Mon. S-27-52 56 29.879 New Brunswick 1954 67 564.1 2.751344 44 Ref . Non. S-27-52 Lile 40 197 Ref. Mon. C-26-52 47 10 42.953 17 d.m. 422.6 2.625914 32 225 45 32 03 Ruin 67 56 38.797 13 New Brunswick 1952 06 374.4 2.573360 13 21 Nat 323 18 Ref. Mon. C-25-54 379.1 2.578793 150 33 330 18 27 2.456488 286.1 Ref.Mon. C-26-52 230 27 56 37.056 Ref. Mon. S-28-52 ecc. n.m. 460.6 2.663344 284 45 104 45 33 Nat 67 56 49.275 17 Maine 1952 0.48 9.685413 Ref Non. S-28-52 ecc. 27 230 37.066 50 27 d.m. Ref. Mon. S-28-52 2.455751 Ref. Mon. C-26-52 285.6 49.257 230 27 48 50 27 67 56 Maine 1952 2.637415 109 52 55 Ref. Mon. C-25-54 433.9 289 52 41 2.758383 Ref.Mon. 0-26-52 573.3 47 48.625 287 47 107 10 n.m. Keg 530.7 2.724882 04.723 35 152 35 27 Ruin 57 332 18 67 Maine 1952 20.88 1.319770 140 26 320 26 Keg 48.104 10 d.m. Ref. Non. S-29A 2.744946 Ref.Mon. C-26-52 555.8 106 04.091 286 37 32 37 51 57 Maine 1952 354.2 2.549195 240 18 Keg 54,320 60 10 Ran n.m. Ref Mon. C-26-52 424.4 2.627761 325 358 145 39 56 50.123 48 31 67 New Brunswick 1952 533.4 04 178 04 Ref.Mon. S-28-52 ecc. 2.727090 410.1 2.612874 Ref. Mon. S-28-52 16 188 16 14 16 Ref. Mon. C-27-54 10 50.207 d.m. 276.0 2.440951 Ref . Mon. C-26-52 144 15 46.455 324 15 10 67 New Brunswick 1954 2.60HHRH 402.2 252 03 16 Ran 03 72 50.307 Ref. Mon. S-29-52 d.m. 10 05 661.4 2.820445 O4 Ref. Mon. C-26-52 110 07 290 67 57 08.297 Maine 1952 1.961182 91.4 36 14 124 16 304 Ref . Mon. C-27-54 459.9 2.662664 22 90 23 06 270 51 639.3 2.805677 42 120 02 02 Ran 04.680 300 01 11 Ref. Mon. S-30-52 ecc. n.m. 3.016179 16 Ref. Mon. C-26-52 1.038.0 16.409 310 16 130 38 57 10 Maine 1952 2.743127 36 153 36 25 Keg 553.5 16 333 773.4 2.888386 Ref. Mon. C-27-54 19 50 04.688 305 19 28 125 Ref. Mon. S-30-52 9.591226 Ref .Non. S-30-52 ecc. 0.39 16 130 16 10 16.423 310 10 57 Maine 1952 16 Ref . Mon. C-26-52 1.038.3 3.016342 130 38 310 671.5 2.827070 13 27 Ref. Mon. S-30-52 217 18 11 21.983 d.m. Ref. Non. C-28-52

56

57.091

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New Brunswick 1952

2.811190

2.865294

3.023471

733.3

1.055.5

INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA

GEOGRAPHIC POSITIONS-NORTH AMERICAN DATUM 1927 International boundary line ST. JOHN RIVER Beference Monuments State Maine Province New Brunswick LATITUDE AND DISTANCE AZIMUTH BACK AZIMUTH TO STATION LOGARITHM Ate 47 11 23.049 313 46 46 19 133 20 Ref. Mon. C-28-52 1.677530 n.m. 47.59 New Brunswick 1952 56 67 58.723 Les 11 49.937 339 47 53 159 884.8 2.946835 n.m. 03 Ate New Brunswick 1952 57 13,236 Ref. Mon. C-29-52 11 49.801 107 40 42 40 42 Les 1.140785 13.83 New Brunswick 1952 67 57 12.609 Ref. Mon. 121 d.m. 11 41.904 207 42 27 47 Les 280.6 2.448165 Maine 1917; r. 1952 57 19.471 210 37 51 37 30 56 2.452440 Ref. Mon. C-29-52 283.4 143 07 323 07 27 42 Ato 727.3 2.862063 Ref. Mon. 122 53.440 284 hh d.m. 11 31 104 31 59 431.1 2.631628 Les Maine 1917; r. 1952 57 33.064 284 37 36 104 445.0 37 51 Ref. Mon. C-29-52 2.648319 321 13 41 141 13 51 Ref.Mon. 121 456.9 2.659855 Ref. Mon. S-31-52 ecc. 56 n.m. 11 32.849 214 26 34 56 41 Ref. Mon. 122 775.7 2.889707 Maine 1952 67 57 54.171 238 111 30 31 14 3.004506 Les 1.010.4 02 58 03 23 Ref.Mon. 121 782.2 2.893292 56 56 Ref. Mon. S-31-52 d.m. 11 32.853 54 26 234 56 26 Ref. Mon. S-31-52 ecc. 0.23 9.359077 214 Maine 1952 57 34 05 56 20 Ref.Mon. 122 775.5 2.889586 69 249 03 13 03 Ref.Mon. 121 38 781.9 2.893169 Ref. Mon. 123-40 d.m. 12 00.090 297 10 57 117 11 Ref. Non. 122 449.5 2.652775 Maine 1940: r. 1952 57 52.062 309 18 10 129 18 74 Ref.Mon. 121 886.6 2.947731 Ref. Non. C-30-31 40 d.m. 12 19.953 308 128 41 16 Les 1.483.1 3.171164 New Brunswick 1931; r. 1952 58 08.241 317 52 24 137 52 50 Ref.Mon. 122 1.103.9 3.042918 12 320 30 140 13 21 Ate 2,286.5 3.359221 Ref. Mon. 3-32 d.m. 11 57.106 01 39.B 274 01 19.5 Van Buren south base 722.4 2.858790 165 Maine 1909; r. 1952 58 26.670 24 345 18.3 23 05.7 Ste. Anne 8.256.1 3.916774 47 208 28 48 Ref. Mon. C-30-31 08 805.1 2.905874 40.7 264 15 84 19 43.3 St. Leonard 6.993.6 3.844699 299 35 30 119 36 74 Ate 2.129.2 3.328221 Ref. Mon. S-32A 57.512 26.476 42 42 d.m. 11 18 00 198 00 Ref. Mon. S-32 13.20 1.120504 Maine 1952 58 Ref. Mon. S-33-52 ecc. 12 09.331 246 22 66 n.m. 37 23 03 Ref.Mon. C-30-31 818.7 2.913138 Maine 1952 58 43.882 287 25 02 107 26 09 Les 1,999.7 3.300975 54 316 10 41 136 10 Ref. Non. S-32 523.2 2.718697 Ref. Mon. S-33-52 214 d.m. 12 09.321 19 41 19 41 Ref . Mon. S-33-52 ecc. 0.38 9.580926 134 43.892 314 Maine 1952 58 50 51 51 04 Ref. Mon. S-32A 517.1 2.713546 316 08 14 136 08 27 Ref . Mon. S-32 523.2 2.718632 44 44 12 30.105 18 187 15 647.4

Ref . Mon. S-33-52 ecc.

Ref. Mon. C-30-31

Ref. Mon. S-32

n.m.

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39.740

New Brunswick 1952

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International boundary line ST. JOHN RIVER

Reference Monuments

State Maine

STATION		LĄ	TITUDE	AND DE		AZIML		0.000		ACK AZ	MUTH	TO STATION	DISTANCE	LOGARITHM
Ref. Mon. C-31-52 New Brunswick 1952	d.m.	47 67	12 58	30.027 39.753	186 344	27 50	34 35		6 164	27 50	34 45	Gas Ref.Mon. S-32	2.43	0.384929 3.022542
Ref. Mon. C-32 New Brunswick 1909; r. 1952	d.m.	47 67	12 59	35.458 03.183	288 292 327	31 29 01	25 21 07		108 112 147	31 30 01	42 01 34	Gas Ref.Non. C-30-31 Ref.Non. S-32	520.3 1,251.5 1,411.9	2.716273 3.097437 3.149791
Ref. Mon. S-34-52 Maine 1952	d.m.	47 67	12 59	22.480 17.725	217 253	21 35	46 02		37 73	21 35	57 30	Ref.Mon. 0-32	504.3 833.4	2.702660 2.920836
Ref. Mon. S-35 Maine 1909; r. 1952	d.m.	47 67	12 59	29.927 34.647	255 269 302	31 43 51	53 20 06		75 89 122	32 纠 51	15 00 18	Ref.Mon. C-32 Gas Ref.Mon. S-34-52	683.8 1.155.5 423.9	2.834935 3.062778 2.627286
Ref. Mon. C-33-40 New Brunswick 1940; r. 1952	d.m.	47 67	12 59	48.732 31.626	340	14 09	50 27		186	14 09	48 37	Ref.Mon. S-35 Ref.Mon. S-34-52	584.2 861.9	2.766566 2.935444
Sept New Brunswick 1952	n.m.	47 67	12 59	47.817 31.883	6 190 339	00 50 09	35 15 11		186 10 159	00 50 09	33 15 21	Ref.Mon. S-35 Ref.Mon. C-33-40 Ref.Mon. S-34-52	555.5 28.76 837.3	2.744719 1.458758 2.922866
Ref. Mon. 124 Maine 1917; r. 1952	d.m.	47 67	12 59	57.797 58.645	298 329	41 35	18		118	41 36	37 00	Sept Ref.Mon. S-35	642.0 997.9	2.807510 2.999090
Ref. Mon. C-34 New Brunswick 1917; r. 1952	d.m.	47 67	13 59	05.560 51.558	31 342	53 04	02		211 162	52 04	57 52	Ref.Mon. 124 Ref.Mon. 3-35	282.3 1.156.5	2.450764 3.063159
Ref. Mon. S-36-52 Maine 1952	d.m.	47 68	12 00	42.573 19.697	219	49	42		39	50	03	Ref.Mon. C-34	924.4	2.965859
Ref. Mon. S-37-52 Maine 1952	d.m.	47 68	13 00	13.880 31.489	287 302 318 345	00 41 36 36	01 00 27 16		107 122 138 165	00 41 37 36	30 144 09 24	Ref.Mon. C-34 Sept Ref.Mon. S-35 Ref.Mon. S-36-52	878.6 1,490.2 1,809.2 998.1	2.943789 3.173259 3.257480 2.999194
Oat New Brunswick 1952	n.m.	47 68	13	31.892 14.932	3 32 328	45 03 50	59 32 00		183 212 148	45 03 50	55 20 17	Ref.Mon. S-36-52 Ref.Mon. S-37-52 Ref.Mon. C-34	1,526.3 656.3 950.3	3.183651 2.817107 2.977869
Ref. Mon. C-35-52 New Brunswick 1952	d.m.	47 68	13	32.203 14.400	14	09	33 40		184	09	29	Ref.Mon. S-36-52 Oat	1.536.7	3.186592 1.168951
Ref. Mon. 126-52 Maine 1952	d.m.	47 68	13 00	31.015 29.510	264 314	29 57 32	57 01 49		184 84 134	29 57 33	56 12 17	Ref.Mon. S-37-52 Oat Ref.Mon. C-34	530.8 307.9 1,120.5	2.724913 2.488397 3.049h14
Hay Maine 1952	n.m.	47 68	13	36.210 48.073	280 292 308	49 20 30	29 00 56		100 112 128	49 20 31	53 13 37	Oat Ref.Mon. 126-52 Ref.Mon. C-34	709.9 422.2 1,519.8	2.851168 2.625515 3.181781
Ref. Mon. C-36-52 New Brunswick 1952	d.m.	47 68	14 00	06.830 54.456	334 351	36 55	52 00		154 171	37 55	10 05	Ref.Mon. 126-52 Hay	1,224.2 955.1	3.087855 2.980034

International boundary line ST. JOHN RIVER Reference Monuments Maine Province New Brunswick State LATITUDE AND STATION AZIMUTH DISTANCE BACK AZIMUTH TO STATION LOCABITHM Rasp 06.221 266 n.m 19 86 30 Ref.Mon. C-36-52 300.0 2.477099 Maine 1952 01 08.690 313 OR 43 133 09 23 Oat 3.190354 1,550.1 319 05 06 33 139 30 Ref. Mon. C-34 2,478.4 3.394168 322 49 51 142 50 Ref. Mon. 126-52 20 1.364.3 3.134916 Ref. Mon. S-38-52 47 14 06.191 266 d.m. 86 Ref. Mon. C-36-52 31 08 324.5 2,511232 Maine 1952 68 01 09.856 267 51 56 87 51 57 Rasp 24.54 1.389812 Knol1 47 15 02.978 n.m. New Brunswick 1952 68 02 31.734 Ste. Anne Catholic Church, east spire 47 14 50.937 49 110 16 290 48 42 Knol1 1.046.4 3.019699 New Brunswick 1952 68 01 45.222 Ref. Mon. C-37-51 47 14 d.m. 41.786 123 33 303 33 07 Knol1 1.184.0 3.073352 New Brunswick 1951 68 01 44.815 178 15 59 358 15 59 Ste. Anne Cath. Church. 282.7 2.451382 east spire Ref. Mon. S-39-51 47 14 29.667 14 d.m. 228 44 Ste.Anne Cath. Church. 01 27 996.0 2.998255 Maine 1951 68 02 20.821 east spire 243 63 Ref. Mon. C-37-51 12 g44.7 2.926697 Ref. Mon. C-38-51 47 d.m. 15 07.209 295 29 52 115 30 29 Ste Anne Cath. Church. 1.167.2 3.067128 New Brunswick 1951 68 02 35.317 east spire 150 01 Knoll. 150.8 2.178475 345 16 01 165 16 12 Ref. Mon. S-39-51 1.198.8 3.078746 Ref. Mon. S-40 14 54.851 d.m. 236 24 55 25 Ref. Mon. C-38-51 690.0 15 2.838828 Maine 1909; r. 1952 68 03 02.652 248 53 53 50 43 Knoll. 696.9 2.843182 274 94 17 15 14 Ste. Anne Cath. Church. 1,632.8 3.212927 east spire Ref. Mon. 128 47 d.m. 15 14.219 88 268 22 Ref.Mon. S-41 (lost) 540.4 2.732709 New Brunswick 1917; r. 1951 68 03 13.690 338 158 27 Ref. Mon. S-40 641.6 2.807244 Ref. Mon. S-40A 47 14 54.732 266 d.m. 30 34 **86** 30 Ref Mon S-40 60.42 36 1.781209 Maine 1952 68 03 273 57 45 44 05.520 93 58 Ste. Anne Cath. Church. 1,692.7 3,228573 east spire Ref. Mon. C-39 47 d.m. 15 26.915 297 26 14 117 27 29 Ste.Anne Cath. Church. 2,410.5 3.382101 New Brunswick 1909; r. 1951 03 26.952 east spire 299 15 57 119 16 Ref. Kon. C-38-51 35 1,244.6 3.095039 332 42 42 10 152 28 Ref. Mon. S-40 1.114.3 3.046984 335 36 24 155 36 40 Ref. Mon. S-40A 1.091.3 3.037932 Ref. Mon. S-41-51 d.m. 08,900 202 15 36 22 15 144 Ref.Mon. C-39 601.1 2.778966 Maine 1951 16 03 37.782 272 14 92 00 17 Ref. Mon. C-38-51 1.314.5 3.118771 14 283 10 103 12 07 Ste.Anne Cath. Church. 2,431.1 3.385806 east spire 300 25 22 48 Ref. Mon. S-40 120 25 856.7 2.932837 44.370 Lille Church, n.w. cupola d. 16 66 246 Ref. Mon. S-43 (lost) 18 12 18 03 285.1 2.455048 Maine 1909; r. 1952 06 324 144 33.079 Ref. Mon. S-42 (lost) 51 20 2,960.3 3.471 338

INTERNATIONAL BOUNDARY COMMISSION-UNITED STATES, ALASKA, AND CANADA

GEOGRAPHIC POSITIONS-NORTH AMERICAN DATUM 1927 International boundary line ST. JOHN RIVER Reference Monuments State Maine

iternational boundary line ST.		= 2.1	-				-	-		Salah Salah		NAME OF THE OWNER OWNER OF THE OWNER OWNE	Brunswick
STATION		LA	LONGITUD	ND .		AZIML	TH		ACK A	KIMUTH	TO STATION	DISTANCE	LOGARITHI
Ref. Mon. S-42-51 Waine 1951	d.m.	47 68		26.003	24 24	29 51	52	204 324	29 50	52	Ref.Mon. S-42 (lost) Lille Church,n.w. cupola	0.31 2,960.2	9.497180 3.471315
Ref. Mon. S-42A ecc.	n.m.	47 68		33.567 09.625	12	01 16	36 06	192 321	01	34 04	Ref.Mon. S-42-51 Lille Church, n.w. cupola	238.8	2.378070 3.447670
Ref. Mon. S-42A Maine 1951	d.m.	47 68		33.23 ⁴ 08.853	16 122 141	27 20 08	45 32 32	196 302 321	27 20 07	42 31 29	Ref.Mon. S-42-51 Ref.Mon. S-42A ecc. Lille Church,n.w. cupola	232.9 19.20 2,821.5	2.367077 1.283356 3.450476
def. Mon. C-40-51 New Brunswick 1951	d.m.	47 68	15 04	57.691 34.786	38 44 120	38 30 06	24 57 54	218 224 300	37 30 05		Ref.Mon. S-42A ecc. Lille Church, n.w. cupola	1.252.8 1.044.8 2.874.1	3.097883 3.019019 3.458505
Ref. Mon. 130 Meine 1917; r. 1951	d.m.	47 68		57.974	11 11 121	144 144 16	41 55 44	191 191 301	44 44 15		Ref.Mon. S-42-51 Ref.Mon. S-42 (lost) Ref.Mon. S-43 (lost)	1,008.4 1,008.7 2,539.7	3.003647 3.003777 3.404776
Nef. Mon. C-41 ecc. New Brunewick 1951	n.m.	47 68		48.961 02.425	77 334 337	35 30 30	31 29 52	257 154 157	35 31 31	08 08 29	Lille Church, n.w. cupola Ref.Mon. S-42A ecc. Ref.Mon. S-42-51	659.7 2.579.3 2.772.6	2.819329 3.411508 3.442887
Ref. Mon. C-41-51 New Brunswick 1951	d.m.	47 68		49.396	76 352	25 29	21	256 172	24	58 31	Lille Church, n.w. cupola Ref.Mon. C-41 ecc.	661.0	2.820180 1.131594
Tile New Brunswick 1951	n.m.	47 68		50.561	66 75	47 52	* 51	246 255	47 52	47 01	Ref.Mon. C-41 ecc. Lille Church, n.w. cupola	125.4 783.2	2.098320 2.893879
Ref. Mon. S-43-51 ecc. Meine 1951	n.m.	47 68	1000	41.073	106 231 235 301	52 43 20 54	43 18 58 26	286 51 55 121	52 43 21 55	13	Lille Church, n.w. cupole Ref.Mon. C-41 ecc. Tile Ref.Mon. C-40-51	350.7 393.2 515.4 2.534.0	2.544894 2.594646 2.712106 3.403807
Ref. Mon. S-123-51 Meine 1951	d.m.	47 68	100000	41.064 17.130	106 230 231	56 03 43	18 30 18	286 50 51	56 03 43	41	Lille Church, n.w. cupola Ref.Mon. C-41-51 Ref.Mon. S-43-51 ecc.	350.4 400.8 0.44	2.544580 2.602892 9.647863
Ref. Mon. S-14 Maine 1909; r. 1951	d.m.	47 68		01.249	280 291	53 26	11 16	100	54 27	50	Ref.Mon. C-41 ecc. Lille Church,n.w. cupola	2.007.5	3.302646 3.154043
Pop lew Brunswick 1952	n.m.	47 68		15.789 56.573	61 333	41 01	02 41	241 153	40	33 58	Ref.Mon. S-44 Lille Church, n.w. cupola	946.5	2.976130 3.036896
def. Mon. C-42-52 ecc. New Brunswick 1952	n.m.	47 68		26.115	33 313 327	13 59 24	18 35 33	213 133 147	13 59 25	47	Ref.Mon. S-44 Pop Lille Church, n.w. cupola	918.0 459.1 1,530.1	2.962819 2.661941 3.184706
lef. Mon. C-42-52 New Brunswick 1952	đ.m.	47 68		26.215 12.342	33 314 327 341	03 10 26 14	41 42 18 20	213 134 147 161	03 10 26 14	54	Ref.Mon. S-44 Pop Lille Church, n.w. cupola Ref.Mon. C-2-52 ecc.	920.0 462.0 1,533.2 3.26	2.963771 2.664680 3.185605 0.513806

International boundary line ST. JOHN RIVER Reference Monuments State Maine Propince New Brunswick LATITUDE AND DISTANCE STATION AZIMUTH BACK AZIMUTH TO STATION LOGARITHM Ref. Mon. C-43 02.964 24 Ref Mon. S-44 03 151 00 3.338022 d.m. 18 331 2.177.8 68 New Brunswick 1909: r. 1951 08 26.375 Ref. Mon. C-44 47 05 Ref.Mon. C-43 1.619.9 3.209475 18 51.628 338 05 15 158 36 d.m. 68 New Brunswick 1909; r. 1951 OR 55.150 Ref. Mon. S-45-51 ecc. 47 17 46.102 166 346 39 Ref. Mon. C-44 2.079.7 3.318006 18 n.m. 26 68 Og 32.302 193 26 55 13 59 Ref.Mon. C-43 2.728692 Maine 1951 535.4 Ref. Mon. S-45-51 46.093 Ref.Mon. C-43 17 193 535.8 2.728977 d.m. 24 68 32.318 24 54 49 54 Ref. Mon. S-15-51 ecc. 9.635284 Maine 1951 229 0.43 27.084 Ref.Mon. S-45 (lost) Ref. Mon. 134 287 09 1.445.3 3.159963 d.m. 17 107 09 11 07 39.469 355 06 49 06 Ref.Mon. S-44 Maine 1917; r. 1951 175 51 800.8 2.903499 Ref. Mon. S-46A ecc. 176 356 55 46 Ref. Mon. C-44 47 18 10,129 48 1.283.4 3.108375 n.m. 26 112 26 Ref. Mon. C-43 Maine 1951 68 08 51.877 292 16 35 579.6 2.763158 331 00 03 151 00 18 Ref.Mon. S-45-51 ecc. 848.3 2.928569 Ref. Non. S-46A 18 10.034 177 06 14 357 06 12 Ref.Mon. C-44 1.286.1 3,109290 d.m. 68 08 52 Ref Mon. S-46A ecc. Maine 1951 52.055 231 02 51 52 02 4.77 0.678252 g47.6 330 58 150 13 Ref. Mon. S-45-51 ecc. 2,928188 42 47 42 56 Ref. Mon. S-45-51 847.7 330 150 2.928231 28.668 140 24 Ref. Mon. S-47 (lost) 1.265.4 Grand Isle Church spire d. 18 59 320 59 3.102237 59 09 21.516 217 14 37 59 33 Ref Mon. C-44 899.7 2.9511106 Meine 1951 124 304 58 25 Ref.Mon. C-43 1.404.2 3.147433 38 48 321 35 141 11 Ref. Mon. S-45-51 ecc. 1.672.4 3.223331 Ref. Mon. C-45-52 51 193 Grand Isle Church spire 1.708.3 3.232562 19 22.373 51 d.m. 13 New Brunswick 1952 Ref.Mon. C-45 (lost) 68 09 17 8.757017 02.032 215 00 35 17 00 0.06 Ref. Mon. S-46-52 18 12.008 194 50 hi 14 51 01 Ref Mon. C-45-52 2.248.1 3.351815 d.m. Ref.Mon. C-44 1,420.0 09 210 04 Maine 1952 68 29.459 29 39 30 30 3.152297 101 25 Ref. Mon. C-43 1.354.4 281 53 39 3.131737 47 34 45 34 Ref. Mon. S-47 (lost) 1.912245 Ref. Mon. S-47-51 18 58.758 228 21 81.7 d.m. Ol 68 240 03 56 60 40 Ref. Mon. C-45-52 1.461.7 3.164864 10 02.353 Maine 1951 36 52 Ref.Mon. C-44 278 51 98 1.428.5 3.154882 49 1,264.6 317 17 19 137 17 Grend Isle Church spire 3.101958 334 25 154 46 Ref. Mon. S-46-52 1,600.6 22 25 3.204274 24 46 3.304484 274 36 94 25 Ref. Mon. C-45-52 2,016.0 Ref. Mon. S-48 d.m. 19 27.404 Maine 1909: r. 1951 10 37.748 297 08 12 117 09 27 Ref.Mon. C-44 2.421.4 3.384064 74 Grand Isle Church spire 33 34 2,419.4 3.383709 318 138 30 319 57 31 139 57 Ref.Mon. S-47-51 3.062752 57 1,155.5 Ref. Mon. C-46 48,426 4 184 Ref.Mon. S-48 651.7 2.814021 d.m. 47 22 23 Ref. Mon. C-45-52 (comp.) 3.324811 New Brunswick 1917; r. 1951 68 10 35.057 292 36 112 2.112.6 Ref. Mon. C-47 52.536 112 18 30.2 292 08 39.3 Edmind 18,207.8 4.260258 d.m. 10 46.753 212 25 59.4 32 28 05.7 Green River 6.717.6 3.827216 New Brunswick 1909; r. 1951 2,441598 Ref. Mon. C-46 297 117 20 09 276.4 20 Ref.Mon. S-48 2.902462

International boundary line ST. J	OHN RIVE	R I	Refere	nce Monum	ents					State _	Maine	Province New	Brunswick
ETATION		The state of the s	LONGIT	AND	0	AZIMUT	100	BA	CK AZI	A A A A A A A A A A A A A A A A A A A	TO STATION	DISTANCE (METERS)	LOGARITHM
Ref. Mon. S-49-54 Naine 1954	d.m.	47 68	19	39.530 55.310	336	25	22	156	25	22	Ref.Mon. S-49 (lost)	40.74	1.609985
Ref. Mon. C-48 New Brunswick 1909; r. 1951	d.m.	47 68	20	13.291 41.678	61 299 316 317	49 03 57 29	30 39 27 17	241 119 136 137	49 04 58 29	14 19 01 51	Ref.Mon. S-50 (lost) Ref.Mon. C-47 Ref.Mon. S-49-54 Ref.Mon. S-49 (lost)	517.3 1.319.3 1.426.5 1.465.0	2.713721 3.120355 3.154271 3.165829
Ref. Mon. S-50-5h Meine 1951	d.m.	47 68	19	56.026 02.932	219 289	55 43	21 50	39 109	55 44	37 40	Ref.Mon. C-48 Ref.Mon. S-49-54	695.3 1,508.5	2.842158 3.178539
Ref. Mon. C-49 New Brunswick 1909; r. 1951	d.m.	47 68	20	34.803 15.902	312 343 347	45 53 11	23 01 20	132 163 167	45 53 11	48 10 29	Ref.Mon. C-48 Ref.Mon. S-50 (lost) Ref.Mon. S-50-54	978.5 945.8 1,228.1	2.990579 2.975790 3.089242
Ref. Mon. S-51-51 Maine 1951	d.m.	47 68	20	00.396 38.034	203 251 258	36 23 02	57 31 28	23 71 78	37 24 02	13 12 53	Ref.Mon. C-49 Ref.Mon. C-48 Ref.Mon. S-50 (lost)	1,159.7 1,248.4 743.3	3.064361 3.096353 2.871185
Ref. Mon. C-50-51 New Brunswick 1951	d.m.	47 68	21	03.776 26.837	300 332	59 22	45 04	121	00	37 40	Ref.Mon. C-49 Ref.Mon. S-51-51	1,737.1 2,209.2	3.239823 3.344243
St. Basil Hospital spire New Brunswick 1951	d.	47 68	21	28.888	305 312 325	24 03 24	33 06 24	125 132 145	25 03 25	55 36 30	Ref.Mon. C-49 Ref.Mon. C-50-51 Ref.Mon. S-51-51	2,881.9 1,157.8 3,319.5	3.459682 3.063622 3.521067
Ref. Mon. S-52-51 ecc. Meine 1951	n.m.	47 68	20	42.054 56.461	170 222 276	39 49 02	35 32 43	350 42 96	39 49 03	27 54 57	St.Basil Hospital spire Ref.Mon. C-50-51 Ref.Mon. C-49	1,465.8 914.7 2,122.7	3.166072 2.961268 3.326891
Ref. Mon. S-52-51 Maine 1951	d.m.	47 68	20	42.086 56.418	42 222 276	49 49 04	32 32 27	222 42 96	49 49 05	32 54 41	Ref.Mon. S-52-51 ecc. Ref.Mon. C-50-51 Ref.Mon. C-49	1.33 913.3 2,121.9	0.124994 2.960634 3.326726
Ref. Mcn. S-53 Maine 1909; r. 1951	d.m.	47 68	21	01.774 58.748	231 268	55 09	53 19	51 88	56 10	31 27	St.Basil Hospital spire Ref.Mon. C-50-51	1,358.2	3.132951 3.285575
Ref. Mon. S-53A Maine 1951	d.m.	47 68	20 15	42.448 03.420	189 219 270	19 08 29	47 23 19	9 39 90	19 09 30	50 04 08	Ref.Mon. S-53 St.Basil Hospital spire Ref.Mon. S-52-51 ecc.(comp.)	604.9 1.849.3 1.405.6	2.781650 3.267002 3.147855
Ref. Mon. C-51-51 New Brunswick 1951	d.m.	47 68	21 14	37.082 32.733	20 335	53 51	45 57	200 155	53 52	22	Ref.Mon. S-53A Ref.Mon. S-52-51 ecc.	1,806.0	3.256717 3.270009
Ref. Mon. C-52 New Brunnwick 1909; r. 1951	d.m.	47 68	21 15	31.594 26.310	272 327 342	53 51 26	45 50 01	92 147 162	54 52 26	43 10 18	St.Basil Hospital spire Ref.Mon. S-53 Ref.Mon. S-53A	1.649.8 1.087.5 1.592.0	3.217419 3.036437 3.201942
Ref. Mon. S-54 Maine 1909; r. 1951	d.m.	47 68	20	51.519 15.590	219 236 246 258 280	52 53 42 52 28	48 30 20 57	39 56 66 78	53 54 43 53 29	24 46 54 53 04	Ref.Mon. C-52 Ref.Mon. C-51-51 St.Besil Hospital spire Ref.Mon. S-53 Ref.Mon. S-53A	1,612.9 2,576.8 2,919.8 1,643.7 1,540.6	3.207610 3.411082 3.465360 3.215813 3.187679

Province New Brunswick International boundary line ST. JOHN RIVER Reference Monuments Maine State DISTANCE (METERS) BTATION AZIMUTH BACK AZIMUTH TO STATION LOGARITHM 96 1.748.1 3.242565 Ref. Mon. C-53 276 36 12 Ref. Mon. C-52 d.m. 38.111 13 Ref . Mon. S-54 3.204446 New Brunswick 1909: r. 1951 16 49.057 333 58 40 153 59 05 1,601.2 68 Ref. Mon. 134A-31 11.070 239 46 Ref. Mon. S-54 1.194.9 3.077349 d.m. New Brunewick 1931; r. 1951 68 26.459 180 17 00 Ref. Mon. C-52 2.802009 15 17 00 0 633.9 47 Ref. Mon. S-55-51 47 21 01.654 43 47 05 223 00 Ref.Mon. S-55 (lost) 207.2 2.316353 d.m. Ref.Mon. C-53 68 17 15.038 205 50 13 25 50 32 1.251.0 3.097259 Maine 1951 47 32.926 34 74 42 26.6 214 47 47.1 Second 1,980.5 3.296783 Ref. Mon. C-54 d.m. 21 254 St. Hilaire 18 05.245 21 49.6 16 39.1 9.203.5 3.963953 New Brunswick 1909; r. 1951 281 3,510556 101 32 43.7 30 52.4 First 3.240.1 264 16 21 gl4 Ref.Mon. C-53 1.506.8 3,205963 17 312 30 09 132 30 46 Ref . Mon. S-55-51 1.429.3 3.155121 04.788 48 48 24 Ref.Mon. C-54 2.971249 201 21 935.9 Ref. Mon. S-56 d.m. 18 242 07 34 62 08 112 Ref. Mon. C-53 3.342791 Meine 1909; r. 1951 21.810 2.201.9 273 56 40 93 57 31 Ref. Mon. S-55-51 1.404.8 3.147614 23.447 Ref. Mon. S-56 2.761414 Ref. Mon. 136 183 d.m. 28 226 Ref.Mon. C-54 New Brunswick 1917; r. 1951 68 18 20.142 52 53 46 53 428.3 2.631727 2.879470 47 21 28.192 27 27 Ref.Mon. S-56 Ref. Mon. 138 d.m. 17 197 10 14 24 Ref.Mon. S-55 (lost) 1.414.8 New Brunswick 1917; r. 1951 68 18 10.982 313 13 48 133 3.150710 264 1.683.0 3.226092 47 84 Ref. Mon. C-54 Ref. Mon. S-57-51 27,992 d.m. 56 Ref.Mon. S-56 3.178844 Maine 1951 68 19 25.115 298 20 09 118 20 1,509.5 47 21 40.793 43 51 51 Ref . Mon. S-57-51 548.2 2.738944 Ref. Mon. C-55A d.m. 223 10 36 36 Ref. Mon. C-54 3.120189 New Brunswick 1951 68 19 07.016 280 100 37 21 1,318.8 31 Ref.Mon. S-56 3.164848 319 30 139 32 03 1.461.7 1.837460 Ref. Mon. C-55-51 47 21 41.966 58 12 21 238 12 19 Ref.Mon. C-55A 68.78 d.m. 42 43 Ref .Mon. C-54 3.103424 68 19 04.230 282 20 102 1.268.9 New Brunswick 1951 03 322 142 Ref Mon. S-56 12 28 12 1,452.9 3.162229 59 14 47 21 277 97 46 Ref. Mon. C-54 2.067.6 3.315461 Ref. Mon. C-56-51 d.m. 41.377 15 2.044.2 New Brunswick 1951 19 42.984 303 32 57 123 33 Ref.Mon. S-56 3.310533 47 24 317 137 2.746696 11 Ref . Mon. S-57-51 558.1 Ref. Mon. S-58-40 47 21 10.943 275 16 Ref.Mon. S-56 2,070.8 3.316134 d.m. 15 36 68 Maine 1940: r. 1951 20 00.058 304 18.463 124 Ref. Mon. S-59 (lost) 2.363478 Flag 47 21 15 15 50 230.9 n.m. 53.744 68 20 Maine 1952 42 166.1 2.220432 Ref. Mon. S-59-51 21 16.044 116 50 296 42 45 Flag d.m. 69.7 1.843531 68 20 46.673 322 29 59 142 30 00 Ref. Mon. S-59 (lost) Maine 1951 11.649 238 Flag 399.6 2.601649 Ref. Mon. S-60 13 13 d.m. 74 254 27 27 47 Ref .Mon. S-59-51 506.7 2.704717 Maine 1909: r. 1952 21 09.932 30 261 22 52 81 23 Ref. Mon. S-59 (lost) 536.7 2.729699 10

International boundary line ST. JOHN RIVER Reference Monuments Propince New Brunswick Maine State DISTANCE STATION AZIMUTH BACK AZIMUTH TO BTATION LOGARIIHM 2.856872 Ref.Mon. S-60 719.2 47 50 21 32.242 27 50 207 Ref. Mon. C-57-51 1.m. 425.6 2.628967 53.925 359 29 179 29 23 Flag 68 20 New Brunswick 1951 2.749061 561.1 29,412 307 03 16 127 03 Flag Ref. Mon. 0-58-52 d.m. 21 2.747486 168 Ref. Mon. S-60 559.1 6R 21 15.082 34g 51 13 51 17 New Brunswick 1952 3.345.8 3.524503 54 Ref.Mon. 0-56-51 20.453 78 52 ha 258 50 21 Ref. Mon. C-59-51 d.m. 3.255047 04 58 1.799.1 57 91 07 Flag New Brunswick 1951 22 19.417 271 34 Ref.Mon. S-60 280 33 21 100 12 1,483.4 3.171271 2.335562 216.6 141 Ref. Mon. C-59-51 21 14.970 36 321 Ref. Mon. C-59A d.m. 274 25 36 QL 26 22 Ref. Mon. S-60 1,327.3 3.122975 22 12,986 New Brunswick 1951 40 340 47 Ref. Mon. C-59-51 778.5 2.891277 160 00 57 20 56.661 Ref. Mon. S-61-51 d.m. 2.762318 167 47 27 347 47 23 Ref.Mon. C-59A 578.5 22 07.156 Maine 1951 147 Ref Mon. C-58-52 1.489.1 3.172920 227 12 49 13 27 54 26 45 Ref .Mon. C-57-51 1.889.3 3.276308 234 25 51 55 68 Ref.Mon. S-60 (comp.) 1.287.2 3.109630 55 53 11 zli 06 Ref. Mon. C-59-51 1,552.9 3,191133 20 39.928 216 18 Ref. Mon. C-60 d.m. 66 246 17 04 17 45 Ref. Mon. S-61-51 1.285.1 3.108953 23 03.214 New Brunswick 1910; r. 1951 67 14 Ref. Mon. S-60 (comp.) 3.410207 37 2,571.6 247 35 51 874.3 2.941677 Ref Mon. C-60 103 00 33.281 n.m. Lea 43 49 Ref. Mon. C-59-51 1.458.5 3,163900 22 22.726 182 47 Maine 1951 264 Ref.Mon. C-60 839.9 2.924239 42.515 gli 32 45 32 16 20 Pig n.m. 1.174.6 3.069890 22 184 03 45 4 03 LIR Ref.Mon. C-59-51 23.381 Maine 1951 14 14 2.455614 16 177 285.5 357 17 Lea 228.8 2,359387 20 40.679 2 182 57 39 Ref. Mon. S-62-51 d.m. 27 268 Ref.Mon. C-60 (comp.) 862.0 2.935509 25 22.163 gg 27 18 6g Maine 1951 62.2 43 44 43 43 1.793887 155 335 Pig 1.140.8 3.057204 02.998 181 19 28 19 29 Ref.Mon. C-60 20 Ref. Mon. C-61 d.m. 34 34 35 Ref.Mon. C-59-51 2.572.2 3.410302 04.469 201 02 New Brunswick 1910; r. 1951 113 08 1.281.6 3,107763 223 08 06 37 48 36 Ref.Mon. S-60 (comp.) 3.205.5 3.505902 228 35 00 Ref.Mon. C-61 680.4 2.832790 07 14.916 144 237 Ref. Mon. S-63-51 d.m. 20 44 945.9 2.975823 Ref. Mon. C-60 22 45 12 124 53 37.210 Maine 1951 3.313475 27 10 27 25 Ref.Mon. C-59-51 2,058.1 190 12 208 11 11 Lea 643.5 2.808555 2,978196 744 324 44 Ref.Mon. C-60 951-0 45 Ref. Mon. S-63A 20 14.779 12 d.m. 744 145 324 45 Ref. Mon. S-63-51 0.714465 37.068 12 12 5.18 Maine 1954 22 841.6 54 41 42 Ref.Mon. C-61 2,925101 156 41 336 19 37.970 Ref Mon S-64 d.m. Ref.Mon. C-60 1.937.8 3.287312 54 01 350 53 50 48.612 170 Maine 1910; r. 1951 57 3,508362 190 57 25 10 Ref .Mon. C-59-51 3,223.8 50 51 07 Ref. Mon. S-63-51 (comp.) 1,165.8 3.066638 191 11 59

Province New Brunswick International boundary line ST. JOHN RIVER State Maine Reference Monuments DISTANCE STATION AZIMUTH BACK AZIMUTH TO STATION LOGARITHM 2.720147 19 46.223 189 19 39 19 42 Ref.Mon. C-61 525.0 Ref. Mon. C-62 d.m. 22 ii 22 26 Ref.Mon. S-64 489.6 2.689864 23 08.521 301 121 New Brunswick 1910; r. 1951 1.665.4 3,221512 Ref. Mon. S-63-51 19 28.308 210 11 36 12 Ref. Mon. C-63-51 d.m. 2.825144 243 29 29 LL Ref. Mon. S-64 668.6 23 17.103 23 New Brunswick 1951 2.847006 1111 Ref.Mon. C-63-51 703.1 27.984 270 Ref. Mon. S-65-51 19 90 09 14 341 14 46 Ref.Mon. S-64 325.7 2.512802 22 43.625 161 50 Maine 1951 3.256966 06 Ref.Mon. C-63-51 1.807.0 334 43 33 Ref. Mon. S-66-51 d.m. 18 35.397 Ref.Mon. S-65-51 1.625.4 3.210971 35 357 35 03 40.363 177 Maine 1951 14 14 38 Ref.Mon. S-64 1.662.4 3.220744 29 18 50.997 209 10 Ref. Mon. C-64 d.m. 44 45 24 Ref. Mon. S-65-51 1.464.6 3.165728 38 23 27.278 218 52 New Brunswick 1910; r. 1951 116 Ref. Mon. S-66-51 3.040167 296 03 03 34 1.096.9 00 Ref.Mon. C-64 1.204.0 3.080638 25.759 130 20 43 310 20 Ref. Mon. S-67-51 d.m. 18 2.484623 40 Ref. Mon. S-66-51 305.2 49 16 12 18 43.587 192 Maine 1951 2.581064 15 02 339 14 Ref.Mon. C-64 381.1 39.457 159 Ref. Mon. C-65-51 18 d.m. 2.934305 Ref. Mon. S-66-51 859.6 20.849 23 23 278 23 01 98 30 New Brunswick 1951 Ref. Mon. S-67-51 889.7 2,949246 23 06 118 23 33 298 Ref.Mon. C-64 (comp.) 2.104.4 3.323138 16 39 45.713 196 38 17 Ref. Mon. C-66 d.m. 2,208.9 3.344173 46 00 45 Ref.Mon. S-66-51 59 23 56.004 225 50 New Brunswick 1910; r. 1951 3.292386 53 54 04 Ref .Mon. S-67-51 1.960.6 50 230 11 2.966.3 3.472214 42 41 17 Ref.Mon. S-70 (lost) 07 208 59.380 17 Lean n.m. Ref Mon. C-66 1.866.0 3,270905 29.491 07 56 256 22 76 03 Maine 1951 142 322 Ref.Mon. C-64 2.003.6 3.301802 13 32 Ref.Mon. C-66 1.663.4 3.220991 31 41 257 57.337 Cullen n.m. 17 1.946.1 3.289161 45 55 Ref.Mon. C-64 328 09 22 38.698 148 Maine 1951 56 14 203.5 2.308485 251 07 71 Lean 1,629.5 3.212050 44 48 Ref.Mon. C-66 56.994 38 39 Ref. Mon. S-68-51 d.m. 17 77 34.06 1.532302 Cullen 22 40.239 51 37 71 51 38 Maine 1951 245 Ref.Mon. S-70 (lost) 3.198520 09 1.579.5 16 65 08 Ref. Mon. S-69 56.625 OB 59 d.m. 40 54 Ref.Mon. C-66 2,373.7 3.375429 41 309 Maine 1910; r. 1951 22 29.077 129 58 24 Ref. Mon. C-66 1,553.0 3.191184 23 16 55.867 172 31 Ref. Mon. S-70-51 d.m. 1,621.3 3.209871 Ref.Mon. S-69 269 52 89 10 49 23 46.217 09 Maine 1951 Ref.Mon. S-70 (lost) 667.6 2.824504 163 38 16 343 38 09 3.145735 Ref.Mon. S-70 (lost) 1.398.7 43 40 223 39 07.886 Ref. Mon. 139 d.m. 54 3.253418 40 06 Ref.Mon. C-66 1.792.3 40 68 22 51.311 130 310 Maine 1917; r. 1951 2.765273 Ref.Mon. S-69 582.5 306 39 27 126 39 43 1.286.2 3.109295 04 344 52 Ref .Mon. C-66 164 29 Ref. Mon. 140 d.m. 17 05.581 3.178569 34 Ref. Mon. S-69 1,508.6 33 24 100 16 23 39.646 280 Maine 1917; r. 1951 941.9 2.973984 176 57 35 Ref.Mon. S-70 (lost) 356 57 33

GEOGRAPHIC POSITIONS-NORTH AMERICAN DATUM 1927

ef. Mon. 141-51 aine 1951 ef. Mon. 142-51 ecc. eine 1951 ef. Mon. 142-51 eine 1951	d.m.	47 68 47 68	17 23	08.637 47.640	348	AZIMU 06	TH *		CK AZI	MUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
ef. Mon. 142-51 ecc. eine 1951 ef. Mon. 142-51	n.m.	68	23		348	06	-	9702					
eine 1951 ef. Mon. 142-51					355	39	19 51	168 175	o6 39	27 52	Ref.Mon. S-70 (lost) Ref.Mon. S-70-51	1,057.6 395.5	3.024325 2.597142
	d m		23	02.491 51.182	175 201 332	39 24 58	33 44 48	355 21 152	39 24 58	30 47 52	Ref.Mon. C-66 Ref.Mon. 141 Ref.Mon. S-70-51	1,338.6 203.9 229.6	3.126660 2.309322 2.361057
	4.5.	47 68	17 23	02.537 51.050	61 175 333	55 32 44	3 ¹ 4 2 ¹ 4 19	241 355 153	55 32 44	34 21 23	Ref.Mon. 142-51 ecc Ref.Mon. C-66 Ref.Mon. S-70-51	3.04 1.337.4 229.7	0.483110 3.126264 2.361201
ef. Mon. S-71 aine 1910; r. 1951	d.m.	47 68	16 24	53.945 34.950	207 295	06 36	15 28	27	06 37	43 10	Ref.Mon. C-66 Ref.Mon. S-70 (lost)	1,796.0 1,344.4	3.254310 3.128530
ef. Mon. S-71A aine 1951	d.m.	47 68	16 24	53.856 30.800	91 204 297	48 32 12	15 09 16	271 24 117	48 32 12	12 34 55	Ref.Mon. S-71 Ref.Mon. C-66 Ref.Mon. S-70 (lost)	87.3 1,760.5 1,265.0	1.940849 3.245630 3.102103
ef. Mon. C-67 ew Brunswick 1910; r. 1951	d.m.	47 68	17 24	26.954 38.401	236 321 355	57 14 55	33 28 48	56 141 175	58 15 55	04 13 51	Ref.Mon. C-66 Ref.Mon. S-70 (lost) Ref.Mon. S-71	1,062.6 2,052.4 1,022.0	3.026387 3.312264 3.009440
ef. Mon. C-68 ew Brunswick 1910; r. 1951	d.m.	47 68	17 26	25.981 13.401	269 295	07 32	39 49	89 115	08 34	4g 01	Ref.Mon. C-67 Ref.Mon. S-71	1,996.4 2,293.3	3.300251 3.360455
ef. Mon. S-72-54 sine 1954	d.m.	47 68	16 25	46.321 37.727	68 148	43 32	26	24g 32g	43 31	09 34	Ref.Mon. S-72 (lost) Ref.Mon. C-68	541.8 1,436.0	2.733870 3.157154
ef. Mon. S-73 aine 1910; r. 1951	d.m.	47 68	16 27	59.519 32.762	243 279	53 33	10 28	63 99	511 34	08 52	Ref.Mon. C-68 Ref.Mon. S-72-54	1,857.1 2,451.7	3.268847 3.389467
ef. Mon. C-69 ew Brunswick 1910; r. 1951	d.m.	47 68	17 27	45.256 30.901	1 290 317	35 04 05	09 16 58	181 110 137	35 05 07	08 13 03	Ref.Mon. S-73 Ref.Mon. C-68 Ref.Mon. S-72 (lost)	1,413.0 1,733.8 2,752.6	3.150135 3.238992 3.439736
ef. Mon. 144 ew Brunswick 1917; r. 1951	d.m.	47 68	17 27	10.426	296	11 24	17 46	183 116	11 25	16 52	Ref.Mon. S-73 Ref.Mon. S-72 (lost)	337.4 2,114.8	2.528100 3.325277
ef. Mon. 143 ew Brunswick 1917; r. 1951	d.m.	47 68	17 27	07.276	56 105 164 246	19 55 43 10	37 54 18 08	236 285 344 66	19 55 43 10	24 42 06 53	Ref.Mon. S-73 Ref.Mon. 144 Ref.Mon. C-69 Ref.Mon. C-68	432.1 354.4 1.215.8 1.430.0	2.635552 2.549499 3.084878 3.155328
ef. Mon. C-70 ew Brunswick 1910; r. 1951	d.m.	47 68	18 28	00.608	298 336	55 32	45 17	118 156	56 32	15 46	Ref.Mon. C-69 Ref.Mon. S-73	980.0 2.056.5	2.991204 3.313126
ef. Mon. S-74-51 aine 1951	d.m.	47 68	17 28	27.131 21.398	191 242	07 10	27 49	11 62	07 11	34 26	Ref.Mon. C-70 Ref.Mon. C-69	1.053.7	3.022697 3.079046
ef. Mon. S-74A aine 1951	d.m.	47 68	17 28	31.163 14.293	50 183 244	10 23 28	23 57 35	230 3 64	10 23 29	18 59 07	Ref.Mon. S-74-51 Ref.Mon. C-70 Ref.Mon. C-69	194.4 910.9 1,010.3	2.288721 2.959488 3.004441

INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA

GEOGRAPHIC POSITIONS-NORTH AMERICAN DATUM 1927

Province New Brunswick Maine International boundary line ST. JOHN RIVER Reference Monument State LATITUDE AND DISTANCE AZIMUTH TO STATION STATION BACK AZIMUTH LOGARITHM 1.646.6 3.216586 14 Ref.Mon. C-70 16 29 17 17 27.257 231 Ref. Mon. S-75 d.m. 2.213.4 3.345060 75 Ref.Mon. C-69 12.868 255 26 43 27 58 29 Maine 1910; r. 1951 3 -034027 LL Ref. Mon. S-74-51 1.081.5 12 90 12 270 06 46 Ref Mon. S-75 910.6 2.959330 210 06 52.763 07 02 17 30 Ref. Mon. 145 d.m. Ref. Mon. S-76 (lost) 3.207799 26 1.613.6 27 11 251 17 New Brunswick 1917; r. 1951 28 51.123 71 1.234.0 06.544 40 27 04 220 26 36 Ref.Mon. S-76 (lost) 3.091301 47 18 Ref. Mon. 146 d.m. Ref.Mon. C-71 (lost) 508.1 2.705953 24 41 09 35 29 25.829 221 09 New Brunswick 1917; r. 1951 1.243.5 3.094633 167 21 Ref.Mon. S-75 347 56 06 20 2.786649 Ref Mon. S-75 611.9 45.602 22 11 21 202 11 13 17 Ref. Mon. 147 d.m. Ref.Mon. S-76 (lost) 1.336.3 3.125907 257 21 29 22 15 New Brunswick 1917; r. 1951 29 01.871 77 Ref Mon. S-75 1.071.4 3.029957 47 17 38.162 288 18 108 19 28 Ref. Mon. S-76-31 d.m. 68 30 01.275 Maine 1931; r. 1951 1.407.1 3.148337 45 Ref.Mon. S-75 18 12.769 2 27 182 25 Ref. Mon. C-71-31 d.m. 25 1.522.7 3.182626 09.646 45 45 225 25 07 Ref.Mon. S-76-31 68 29 New Brunswick 1931; r. 1951 3.122874 1.327.0 04 45 Ref. Mon. C-71-31 47 271 91 05 31 d.m. 18 13.583 Ref. Mon. C-72 3.280099 38 24 39 Ref.Mon. S-75 1,905.9 30 12.804 318 138 08 New Brunswick 1910; r. 1951 68 347 30 167 30 56 Ref.Mon. S-76-31 1.120.4 3.049365 114 Ref.Mon. C-72 1.131.7 3.053732 17 39.223 200 20 20 20 Ref. Mon. S-77 d.m. 2.769133 279 19 99 20 08 Ref. Mon. S-76 (lost) 587.7 30 31.531 Maine 1910; r. 1951 Ref .Mon. S-76 (lost) 482.3 2.683361 51,412 02 57 192 02 53 Ref. Mon. 149 d.m. 17 12 3.083282 1,225.4 Ref Mon. S-75 68 29 59.140 307 29 37 127 30 11 New Brunswick 1917; r. 1951 602.8 2.780161 Ref.Mon. S-77 56.421 28 208 13 Ref. Mon. 151 d.m. 17 2.840299 47 48 Ref. Mon. S-76 (lost) 692.3 334 154 00 30 17.963 50 New Brunswick 1917; r. 1951 Ref.Mon. 151(comp.) 326.3 2.513588 51.448 241 55 61 27 47 17 17 Ref. Mon. 153 d.m. 2.875294 03 Ref. Mon. S-76 (lost) 750.4 03 43 23 129 New Brunswick 1917; r. 1951 68 30 31.665 309 2.576979 359 24 179 24 Ref.Mon. S-77 377.5 Ref Mon. S-77 431.0 2.634441 13 46 13 50.896 33 213 Ref. Mon. 151A-39 d.m. 17 2.379432 LL 239.6 52 274 04 Ref.Mon. 153 30 20.291 New Brunswick 1939; r. 1951 68 2.249166 Ref .Mon. 151 177.5 195 59 57 15 59 59 1.328.4 3.123328 06 Ref.Mon. C-72 59.564 250 22 70 Ref. Mon. C-73 d.m. 17 Ref.Mon. S-77 1.067.0 3.028175 126 31 12.584 306 03 40 10 New Brunswick 1910; r. 1951 2.849633 56 54 55 Ref.Mon. C-73 707.3 46.409 234 Ref. Mon. C-74 d.m. 31 New Brunswick 1910; r. 1951 68 40.145 2,959512 Ref. Mon. C-74 911.0 279 22 31 41.601 23 Ref. Mon. S-78-53 d.m. Ref.Mon. C-73 640.3 2.806371 02 330 02 28 30 57.366 150 39 Maine 1953 2.887264 771.4 236 56 35 47 Ref.Mon. C-73 47 17 45.812 Ridge n.m. 992.7 2.496825 21 102 22 16 Ref.Mon. S-73 (lost) 282 42 68 31 43.233 New Brunswick 1951

ST. JOHN RIVER Refer

Reference Monuments

State Maine

International boundary line ST. Jo	HN RIVER	Re	feren	ce Monume	nte				_	State _	Maine	Province New	Brunswick
STATION			TITUDE	AND		AZIMUT	*		ACK AZ	150 (A CASCOM)	TO STATION	DISTANCE (METERS)	LOGARITHM
Ref. Mon. S-79-53 Maine 1953	d.m.	47 68	17 31	37.060 16.113	119	45 05	41 18	299	45 05	23	Ref.Mon. C-74 Ref.Mon. C-73	581.6 698.9	2.764659 2.844422
Ref. Mon. S-80-51 ecc. Meine 1951	n.m.	47 68	17 31	25.238	180	34	49	0	34	49	Ridge	635.4	2.803056
Ref. Mon. S-80-51 Maine 1951	d.m.	47 68	17 31	25.321 43.479	26	35	31	206	35	31	Ref.Mon. S-80-51 ecc.	2.88	0.459448
Ref. Mon. C-75 New Brunswick 1910; r. 1951	d.m.	47 68	17 32	27.217 25.712	236 237 238 273	57 14 14 56	38 12 02 22	56 57 58 93	58 14 14 56	33 43 36 53	Ref.Mon. C-73 (comp.) Ridge Ref.Mon. C-74 Ref.Mon. S-80-51 ecc.	1,832.7 1,061.3 1,126.0 888.2	3.263085 3.025850 3.051557 2.948532
Side Maine 1951	n.m.	47 68	16 32	56.893 15.885	167 204 217	33 25 49	51 16 29	347 24 37	33 25 49	44 40 53	Ref.Mon. C-75 Ridge Ref.Mon. S-80-51 ecc.	959.0 1,659.2 1,108.3	2.981799 3.219908 3.044641
Pole New Brunswick 1951	n.m.	47 68	17 32	12.016 45.151	221 307	01 12	28 28	41 127	01	42 49	Ref. Mon. C-75 Side	622.3	2.793979 2.887753
Ref. Mon. S-81-51 Maine 1951	d.m.	47 68	16 32	57.530 19.604	129 172 284	48 01 07	15 46 55	309 352 104	47 01 07	57 42 58	Pole Ref.Mon. C-75 Side	698.8 925.7 80.6	2.844359 2.966480 1.906316
Ref. Mon. S-SIA Maine 1954	d.m.	47 68	16 32	58.509 20.247	172 335	37 54	10 01	352 155	37 54	06 01	Ref.Mon. C-75 Ref.Mon. S-81-51	893.9 33.13	2.951313
Ref. Mon. C-75A New Brunswick 1951	d.m.	47 68	17 32	12.038 45.121	43 309	41 52	03 28	223	41 52	03 46	Pole Ref.Mon. S-81-51	0.92 698.7	9.963390 2.844321
Ref. Mon. S-82-52 Maine 1952	d.m.	47 68	16 33	45.806 06.689	209	13 53	35 46	29 69	13 54	51 - 20	Ref.Mon. C-76A Ref.Mon. S-81-51	928.3 1.053.8	2.967692 3.022738
Ref. Mon. C-76-52 New Brunswick 1952	d.m.	47 68	17 32	18.001	21	05	17	201	05	04	Ref.Mon. S-82-52	1,065.6	3.027594
Ref. Mon. C-77 New Brunswick 1910; r. 1951	d.m.	47 68	17 33	17.677 32.895	269 279 291 330	50 59 46	58 09 17 07	89 99 112 150	23 50 00 46	30 44 10 26	Ref.Mon. C-76-52 Ref.Mon. C-76A Ref.Mon. S-81-51 Ref.Mon. S-82-52	934.1 1.018.9 1.661.1 1.127.9	2.970385 3.008147 3.220400 3.052256
Ref. Mon. S-83-51 Maine 1951	d.m.	47 68	16 33	50.630 50.790	50/1	14	10	5,1	14	23	Ref.Mon. C-77	916.0	2.961910
Ref. Mon. C-78 New Brunswick 1910; r. 1951	d.m.	47 68	17 34	23.863 23.501	280 306 326	10 03 10	43 00 57	100 126 146	11 03 11	20 56 21	Ref.Mon. C-77 Ref.Mon. S-82-52 Ref.Mon. S-83-51	1,080.4 1,996.7 1,235.3	3.033590 3.300320 3.091756
Ref. Mon. C-79 New Brunswick 1910; r. 1951	d.m.	47 68	17 35	08.058 25.614	249 264	29 40	23	69 84	30 42	09 15	Ref.Mon. C-78 Ref.Mon. C-76-52	1,393.5 3,317.0	3.144106 3.520741

International boundary line ST. JCHN RIVER

Reference Monuments

State

Maine Province New Brunswick

nternational boundary line_S1. 0				ence monum						State	Maine	Province	
STATION		L	LONGIT	UDE		AZIMI		R	ACK AZ	HTUMIS	TO STATION	DISTANCE (METERS)	LOGARITHM
						14		200			7.6 V - 0.70	1 50) 5	
Ref. Mon. S-84-54 Maine 1954	d.m.	47 68	16 34	51.021	110	56	50 58	352	56	00 54	Ref.Mon. C-79 Ref.Mon. C-78	1,524.5	3.183117 3.009444
Ref. Mon. S-85 Maine 1910; r. 1951	d.m.	47 68	16 34	47.168 45.996	127 202	46 38	26	307 22	45 38	57 43	Ref.Mon. C-79 Ref.Mon. C-78	1,053.3	3.022549 3.089155
Ref. Mon. C-80 New Brunswick 1910; r. 1951	d.m.	47 68	16 36	40.753 00.917	262	20	18 15	¥1 82	20 50	10	Ref.Mon. C-79 Ref.Mon. S-85	1,123.2	3.050h47 3.200586
Ref. Mon. S-86 Maine 1910; r. 1951	d.m.	47 68	16 35	25.641 07.905	112 164 214	43 08 42	55 25 21	344 344 292	43 08 42	16 12 37	Ref.Mon. C-80 Ref.Mon. C-79 Ref.Mon. S-85	1,208.0 1,361.8 808.7	3.082070 3.134113 2.907797
Ref. Mon. C-81-52 New Brunswick 1952	d.m.	47 68	16 36	28.830 23.389	232 273	03 32	28 38	52 93	03 33	44 33	Ref.Mon. C-80 Ref.Mon. S-86	598.9 1.589.6	2.777354 3.201300
Ref. Mon. S-87-51 Maine 1951	d.m.	47 68	16 35	02.616 35.599	128 155	52 41	08	308 335	51 40	33 53	Ref.Mon. C-81-52 Ref.Mon. C-80	1,290.1	3.110640 3.111401
Ref. Mon. C-82 New Brunswick 1910; r. 1951	d.m.	47 68	15 36	14.942 19.270	211	56	39	31	57	11	Ref.Mon. S-87-51	1.735.1	3.239327
Ref. Mon. S-89 Maine 1910; r. 1951	d.m.	47 68	14 35	47.775 14.603	121 169	40 11	49 20	301 349	40 11	01 04	Ref.Mon. C-82 Ref.Mon. S-87-51	1.597.8 2.353.1	3.203532 3.371632
Ref. Mon. S-88 Maine 1910; r. 1951	d.m.	47 68	15 35	36.081 17.173	63 139 154 357	26 29 42 55	29 35 05 30	243 319 334 177	25 28 41 55	43 46 51 32	Ref.Mon. C-82 Ref.Mon. C-81-52 Ref.Mon. S-87-51 Ref.Mon. S-89	1,459.7 2,142.7 906.4 1,492.8	3.164275 3.330964 2.957323 3.173998
Ref. Mon. S-90-51 Maine 1951	d.m.	47 68	14 36	40.454 17.621	178 199 216	08 11 29	08 42 30	358 19 36	08 12 30	07 13 15	Ref.Mon. C-82 Ref.Mon. S-87-51 Ref.Mon. S-88	1,065.6 2,686.8 2,137.0	3.027607 3.429232 3.329804
Ref. Mon. S-90A Maine 1951	d.m.	47 68	14 36	42.064 24.988	287	47	21	107	47	26	Ref .Mon. S-90-51	162.72	2.211430
Ev New Brunswick 1951	n.m.	47 68	15 36	02.047 33.342	212 216 236 333	58 36 43 37	46 43 00 36	32 36 56 153	59 36 43 37	28 53 56 47	Ref.Mon. S-87-51 Ref.Mon. C-82 Ref.Mon. S-88 Ref.Mon. S-90-51	2,230.0 496.1 1,915.6 744.3	3.348298 2.695605 3.282315 2.871736
Ref. Mon. S-92 Maine 1910; r. 1952	d.m.	47 68	14 37	16.938 44.897	219 231 253	47 47 13	01 24 05	39 51 73	48 49 14	35 12 55	Ref.Mon. S-87-51 Ref.Mon. S-88 Ref.Mon. S-89	4,247.7 3,952.7 3,301.3	3.628158 3.596899 3.518684
Ref. Mon. S-91 Maine 1910; r. 1951	d.m.	47 68	14 36	20.131 55.846	8 _J †	32	42	264	32	06	Ref.Mon. S-92	1.036.4	3.015531
Har New Brunswick 1951	n.m.	47 68	14 37	47.293 11.721	36 232 240	39 14 33	51 58 00	216 52 60	39 15 33	26 36 28	Ref.Mon. S-92 Ref.Mon. C-82 Ev	1.168.7 1.394.8 926.8	3.067687 3.144525 2.966982

n New Brunswick

INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA

GEOGRAPHIC POSITIONS—NORTH AMERICAN DATUM 1927

Intermedical house days line ST, JOHN RIVER Reference Monuments

International boundary line _Sr. J	OHN HIVE		Reler	ence Monus	mente		_	-	_	State _	Maine	_ Province	Brunswick
STATION			LONG	E AND		AZIM	UTH		ACK AZ	IMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Ref. Mon. C-84-51 New Brunswick 1951	d.m.	47 68	1 ⁴ 37	48.165 09.853	55	34	50	235	34	49	Har	47.62	1.677752
Ref. Mon. C-83-51 ecc. New Brunswick 1951	n.m.	47 68	14 36	57.232 36.601	67 204 213	40 44 40	14 29 28	247 24 33	25 14 40	48 31 40	Har Ev Ref.Mon. C-82	799.8 163.7 657.2	2.902977 2.214092 2.817711
Ref. Mon. C-83-51 New Brunswick 1951	d.m.	47 68	14 36	57.298 36.630	213	49	05 35	33 163	49	17 35	Ref.Mon. C-82 Ref.Mon. C-83-51 ecc.	655.9 2.13	2.816819 0.327821
Ref. Mon. C-85-51 New Brunswick 1951	đ.m.	47 68	1 ⁴ 37	40.964 45.447	227 246 253 254 270 359	15 45 26 35 28 06	39 12 50 07 37 22	47 66 73 74 90 179	17 46 27 35 29 06	14 05 17 33 41 23	Ref.Mon. S-87-51 Ev Ref.Mon. C-84-51 Har Ref.Mon. S-90-51 Ref.Mon. S-92	3.716.6 1.650.3 780.9 735.8 1.847.1 742.0	3.570144 3.217552 2.892611 2.866734 3.266498 2.870432
Ref. Mon. C-86 New Brunswick 1910; r. 1952	d.m.	47 68	14 38	38.791 18.17 ¹⁴	264 313	25 57	41 13	84 133	26 57	05 38	Ref.Mon. C-85-51 Ref.Mon. S-92	691.5 972.2	2.839808 2.987776
Ref. Mon. S-93-51 Maine 1951; r. 1952	d.m.	47 68	14 38	19.153 09.564	163	22 58	35 44	343 36	22 59	59	Ref.Mon. C-86 Ref.Mon. C-85-51	632.9 843.2	2.801344
Ref. Mon. C-87 New Brunswick 1910; r. 1952	d.m.	47 68	14 38	42.24h 54.324	277 307	58 08	46 20	97	59 08	12 52	Ref.Mon. C-86 Ref.Mon. S-93-51	767.7 1,181.0	2.885193
Ref. Mon. S-94-52 Maine 1952	d.m.	47 68	14 38	17.034 47.019	168 265	50 14	17 33	 348 85	50 15	12 10	Ref.Mon. C-87 Ref.Mon. S-93-51	793.6 790.5	2.899579
Ref. Mon. S-95 Maine 1910; r. 1952	d.m.	47 68	14 39	10.313 22.750	211 254	13 33	31 27	31 74	13 33	52 53	Ref.Mon. C-87 Ref.Mon. S-94-52	1,153.2 779.7	3.061901 2.891918
Ref. Mon. C-88-52 New Brunswick 1952	d.m.	47 68	14 39	43.053 39.377	306 340	06 55	45	126 160	07 55	23	Ref.Mon. S-94-52 Ref.Mon. S-95	1,363.2 1,069.8	3.134550 3.029320
Ref. Mon. S-96-52 Maine 1952	d.m.	47 68	13	51.874 29.711	213	48 58	36 49	33 67	49 59	13 38	Ref.Mon. C-88-52 Ref.Mon. S-95	1,902.3	3.279284 3.181634
Ref. Mon. 154 Yew Brunswick 1917; r. 1952	d.m.	47 68	14 39	15.88 ^l ₄ 37.683	55 177 298	53 34 42	10 06 39	235 357 118	52 34 42	32 05 50	Ref.Mon. S-96-52 Ref.Mon. C-88-52 Ref.Mon. S-95	1,321.9 839.8 358.1	3.121208 2.924169 2.554029
Ref. Mon. 155 New Brunswick 1917; r. 1952	d.m.	47 68	14 39	22.821 59.489	33 214 276 296	37 05 40 33	59 41 46 18	213 34 96 116	37 05 41 33	37 56 39 45	Ref.Mon. S-96-52 Ref.Mon. C-88-52 Ref.Mon. S-94-52 Ref.Mon. S-95	1,147.8 754.5 1,534.7 863.9	3.059872 2.877673 3.186019 2.936462
Ref. Mon. C-89 New Brunswick 1910; r. 1952	d.m.	47 68	14 40	36.259 09.780	17 309	00	28 15	197 129	00	13 49	Ref.Mon. S-96-52 Ref.Mon. S-95	1,433.4 1,273.0	3.156360 3.104816
Ref. Mon. C-90 New Brunswick 1910; r. 1952	d.m.	47 68	14 41	55.644 30.841	289 326	20 51	28 15	109 146	21 52	28	Ref.Mon. C-89 Ref.Mon. S-96-52	1,806.8	3.256905 3.371 ¹ 17

International boundary line ST. JOHN RIVER

Reference Monuments

State Meine

BTATION		L	LONGI	E AND		AZIM	UTH		ACK A	ZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Party and the same of the same		0	,			,	1		,				
Ref. Non. S-97 Meine 1910; r. 1951	d.m.	47 68	14 41	17.144 54.474	202 254 293	41 58 37	06 56 48	75 113	41 00 38	23 13 50	Ref.Mon. C-90 Ref.Mon. C-89 Ref.Mon. S-96-52	1,288.7 2,279.7 1,946.3	3.110136 3.357879 3.289207
Ref. Mon. C-91 New Brunswick 1910; r. 1951	d.m.	47 68	14	52.868 11.000	264 342	11 30	59 42	gl ₄ 162	12 30	28 54	Ref.Mon. C-90 Ref.Mon. S-97	848.9 1,156.7	2.928835 3.063209
Ref. Mon. C-92 New Brunswick 1910; r. 1951	d.m.	47 68	14 43	56.587 23.892	49 274 292 302 332	50 16 57 55 16	54.1 38 05.2 20 02.1	229 94 113 122 152	44 17 01 56 16	45.6 32 33.8 26 52.6	St. Frencis Ref.Mon. C-91 Fort Ref.Mon. S-97 Ledges	13,835.2 1,537.2 8,364.0 2,240.6 3,110.8	4.140984 3.186722 3.922415 3.350362 3.492868
Ref. Mon. C-93 New Brunswick 1910; r. 1951	d.m.	47 68	14 43	51.142 43.723	248	02	06	68	02	20	Ref.Mon. C-92	449.7	2.652886
kef. Mon. 0-92A lew Brunewick 1951	d.m.	47 68	14	47.258 28.132	110 197	05 11	47 39	290 17	05 11	36 42	Ref.Mon. C-93 Ref.Mon. C-92	349.1 301.6	2.542985 2.479443
Ref. Mon. S-98-51 Meine 1951	d.m.	47 68	14 42	19.1195 53.008	132 139 150 220 273	30 15 26 35 22	15 20 56 57 01	312 319 330 40 93	29 14 26 36 22	38 54 33 28 44	Ref.Mon. C-93 Ref.Mon. C-92A Ref.Mon. C-92 Ref.Mon. C-91 Ref.Mon. S-97	1,446.7 1,131.7 1,316.8 1,357.5 1,233.3	3.160364 3.053738 3.119532 3.132740 3.091069
Ref. Mon. S-99 Maine 1910; r. 1951	d.m.	47 68	14 43	08.190 22.663	161 179	32 00	12 33	341 359	31 00	57 32	Ref.Mon. C-93 Ref.Mon. C-92	1.398.4	3.145645 3.174596
Ref. Mon. S-100 Maine 1910; r. 1951	d.m.	47 68	13	26.622	207 234	23 25	16 59	27 54	2 ⁴	03 01	Ref.Mon. C-93 Ref.Mon. S-99	2,939.8	3.468321 3.343893
Ref. Mon. C-94 New Brunswick 1910; r. 1951	d.m.	47 68	14 44	31.203 55.035	247 247 290 355	46 40 40 40 40 40 40 40 40 40 40 40 40 40	11 45 54 24	67 67 110 175	41 45 06 46	03 51 01 29	Ref.Mon. C-93 Ref.Mon. C-92 (comp.) Ref.Mon. S-99 Ref.Mon. S-100	1,621.3 2,070.9 2,068.8 1,999.8	3.209851 3.316162 3.315711 3.300985
Ref. Mon. 156 New Brunswick 1917; r. 1951	d.m.	47 68	14 42	31.840 59.730	288 339 339	17 38 39	27 42 23	108 159 159	18 38 39	15 47 28	Ref.Mon. S-97 Ref.Mon. S-98 (lost) Ref.Mon. S-98-52	1,445.6 406.5 406.6	3.160042 2.609043 2.609214
Ref. Mon. 157 New Brunswick 1917; r. 1951	d.m.	47 68	14 43	41.730 22.760	177 317	01 38	42 52	357 137	01 39	141 14	Ref.Mon. C-92 Ref.Mon. S-98 (lost)	459.4 928.9	2.662226 2.967965
Ref. Mon. 158 New Brunswick 1917; r. 1951	d.m.	147 68	14 43	26.874 24.112	94 180 279	00 17 02	25 18 42	273 0 99	59 17 03	19 18 48	Ref.Mon. C-94 Ref.Mon. C-92 Ref.Mon. S-97	1,917.0 917.6 1,909.1	3.282614 2.962670 3.280835
Ref. Mon. 159 New Brunswick 1917; r. 1951	d.m.	47 68	14 43	28.909	184 209	52 05	41 32	14 29	52 05	43 48	Ref.Mon. C-93 Ref.Mon. C-92	689.1 978.2	2.838275 2.990428
Ref. Mon. 159A New Brunewick 1917; r. 1951	d.m.	47 68	14 43	18.426 32.769	102 167 267	51 09 43	13 24 21	282 347 87	50 09 43	13 16 50	Ref.Mon. C-94 Ref.Mon. C-93 Ref.Mon. S-98 (lost)	1.774.7 1.036.3 837.0	3.249119 3.015475 2.922715

STATION		Li	TITUDE	AND		AZIML	74		ACK AZ	MUTH	TO STATION	DISTANCE	LOGARITHM
STATION		0	LONGIT	ude .	0	/	*		/			(METERS)	
Mef. Mon. 159B Maine 1917; r. 1951	d.m.	47 68	14 43	16.093 31.160	104 154 166	49 50 17	24 23 01	284 334 346	48 50 16	23 22 52	Ref.Mon. C-94 Ref.Mon. 159A Ref.Mon. C-93	1.824.8 79.6 1,114.2	3.261209 1.900896 3.046950
ef. Mon. 160 ew Brunswick 1917; r. 1951	d.m.	47 68	14 44	13.757 06.158	117 202 221 280	39 13 26 38	44 37 49 14	297 22 41 100	39 13 27 38	08 53 03 45	Ref.Mon. C-94 Ref.Mon. C-93 Ref.Mon. 159 Ref.Mon. S-99	1,160.6 1,247.2 624.3 930.9	3.064698 3.095951 2.795404 2.968895
lef. Mon. 161 lew Brunswick 1917; r. 1951	d.m.	47 68	14 44	04.411 30.922	148 214	29 31	38 04	328 34	29 31	20 38	Ref.Mon. C-94 Ref.Mon. C-93	970.5 1.751.6	2.986975 3.243441
lef. Mon. 162 Waine 1917; r. 1951	d.m.	47 68	13	58.344 14.287	118 139 210 211	10 49 30 45	02 06 17 15	298 319 30 31	09 48 30 145	50 36 53 35	Ref.Mon. 161 Ref.Mon. C-94 Ref.Mon. C-92 Ref.Mon. 159	396.9 1,328.2 2,087.8 1,110.1	2.598682 3.123277 3.319680 3.045370
lef. Mon. 163-51 ecc. maine 1951	n.m.	47 68	13	37.663 35.827	36 166 211	58 16 49	44 12 24	216 346 31	58 15 50	35 58 16	Ref.Mon. S-100 Ref.Mon. C-94 Ref.Mon. C-92	426.8 1,702.1 2,868.8	2.630218 3.230973 3.457703
ef. Mon. 163-51 eine 1951	d.m.	47 68	13 44	37.595 35.685	37 125	00 28	01 45	217 305	27	52 45	Ref.Mon. S-100 Ref.Mon. 163-51 ecc.	426.9 3.64	2.630361 0.560929
ef. Mon. C-95 ew Brunswick 1910; r. 1951	d.m.	68	13 45	49.804	298	52 57	13 07	41 118	52 57	53 52	Ref.Mon. C-94 Ref.Mon. S-100	1,717.0	3.234773 3.169843
tef. Mon. S-101 maine 1910; r. 1951	d.m.	47 68	13 45	19.472	146 193 251	23 17 46	05 39 49	326 13 71	22 17 47	43 57 12	Ref.Mon. C-95 Ref.Mon. C-94 Ref.Mon. S-100	1,124.8 2,276.2 706.4	3.051094 3.357211 2.849050
lef. Mon. S-102 maine 1910; r. 1951	d.m.	47 68	13 45	13.225 54.717	185 255	31 13	22 56	5 75	31 14	26	Ref.Mon. C-95 Ref.Mon. S-101	1,134.9 757.1	3.054964 2.879144
lef. Mon. 0-96 lew Brunswick 1910; r. 1951	d.m.	47 68	13 46	46.081 44.755	264 294 313	20 42 56	27 46 22	g4 114 133	21 43 56	08 49 59	Ref.Mon. C-95 Ref.Mon. S-101 Ref.Mon. S-102	1,167.5 1,964.8 1,462,1	3.067265 3.293316 3.164973
lef. Mon. 163A-31 New Brunswick 1931; r. 1951	d.m.	47 68	13 46	23.100 45.305	40 285	37 58	оц 53	220 105	36 59	44 30	Ref.Mon. S-103 (lost) Ref.Mon. S-102	858.3 1,107.2	2.933654 3.044218
def. Mon. S-103-51 ecc. Maine 1951	n.m.	47 68	12 46	59.012 51.162	185 249	17 42	50 37	5 69	17 43	55 19	Ref.Mon. C-96 Ref.Mon. S-102	1,459.8	3.164297 3.102491
ef. Mon. S-103-51 eine 1951	d.n.	47 68	12 46	59.129 50.904	56 189 249	23 02 46	51 21 43	236 9 69	23 02 47	51 26 25	Ref.Mon. S-103-51 ecc. Ref.Mon. 163A-31 Ref.Mon. S-102	6.52 749.6 1,259.8	0.814024 2.874812 3.100305
ef. Mon. C-97-51 ew Brunswick 1951	d.m.	47 68	13	21.836 15.612	220 278 323	55 52 52	26 17 20	40 98 143	55 53 52	48 16 37	Ref.Mon. C-96 Ref.Mon. S-102 Ref.Mon. S-103-51 ecc.	991.0 1.722.7 872.6	2.996064 3.236202 2.940830

- Province New Brunswick International boundary line ST. JOHN RIVER State Maine Reference Monuments LATITUDE AND BACK STIMUTH TO STATION LOGARITHM STATION 48 St. Francis 5.656.4 3.752537 46.313 29 40 59.9 209 21.9 Ref. Mon. C-99 d.m. 12 3.967945 49 32.391 262 05 59.9 82 11 20.8 Ledges 9,288.5 New Brunswick 1910; r. 1951 68 Ref.Mon. 0-99 1.699.5 3.230324 249 05 05.345 06 31 Ref. Mon. C-98 d.m. 16.938 New Brunswick 1910: r. 1951 3.038648 50 47 21 Ref.Mon. C-99 1.093.1 20.074 137 Ref. Mon. S-105 d.m. 43 05 05 Ref.Mon. C-98 1.654.2 3.218588 57.530 211 09 31 38 Maine 1910; r. 1951 244 Ref.Mon. S-105 1.410.9 3.149488 39.994 08 Ref. Mon. S-104-31 d.m. 36 2.955533 47 332 Ref.Mon. C-98 57.197 152 13 35 58 902.7 Maine 1931: r. 1951 496.7 2.696100 Ref. Mon. 164 12 54.476 135 02 28 50 Ref.Mon. C-98 d.m. 48 26 176 27 27 Ref.Mon. S-104 (lost) 339.4 2.530717 Maine 1917; r. 1951 68 00.388 356 27 2 RISECO 43.256 181 03 Ref.Mon. C-98 700.8 Ref. Mon. 165 d.m. 51 148 04 Ref .Mon. S-104 (lost) 382.4 2.582468 17.557 268 50 50 17 Maine 1917; r. 1951 566.6 2.753283 214 34 01 Ref Mon C-38 Ref. Mon. 166 12 50.839 d.m. 2.861554 48 08 33 108 08 57 Ref.Mcn. S-104 (lost) 727.0 Maine 1917: r. 1951 32.222 288 264 Ref. Mon. C-99 990.4 2.995813 49.111 gl 12 Ref. Mon. 167 d.m. Ref. Mon. C-73 794.7 2.900215 Lg 45.505 229 08 30 49 UK 51. Maine 1917; r. 1951 2.454167 Ref Mon. 166 79 11 259 11 20 30 06 25 06 59 Ref. Mon. S-104 (lost) 985.7 2.993745 280 100 1.087.4 3.036394 107 29 287 28 27 Ref Mon. C-99 Ref. Mon. 168 d.m. 35.736 3.034732 68 43.103 210 32 44 33 03 Ref Mon. C-38 Maine 1917; r. 1951 30 255 22 27 22 59 Ref. Mon. 3-104 (lost) 2.978029 2.723552 14 14 Ref Mon. S-106 (lost) Ref. Mon. 169 12 16.414 21 12 201 12 d.m. 49 38 13 300 37 57 Ref.Mon. C-100 (lost) 2.727746 Maine 1917; r. 1951 39.017 120 35 8 35 Ref.Mon. C-39 2.970253 138 13 18 1.543473 12 25.204 16 271 15 17 Hef.Mon. U-100 (lost) Ref. Mon. C-100-51 d.m. 59.199 New Brunswick 1951 Ref. Mon. C-100 (lost) 1.050.1 3.021251 243 52 Ref. Mon. C-101 d.m. 12 09.858 07 64 3.033864 50 45.368 243 59 45 00 18 Ref. Mon. 0-100-51 1.081.1 New Brunswick 1910; r. 1951 Ref . Mon. C-101 1.249.4 3.093229 00.444 Ref. Mon. S-106-52 d.m. 12 142 340 Ref. Mon. C-100 (10st) 811.0 2.909020 49 48.123 160 52 Maine 1952 677.4 2.830851 24 Ref. Mon. C-101 11 50.762 150 31 330 31 Ref. Mon. S-107 d.m. Ref.Mon. C-100 (lost) 3.087537 32 56 29 33 16 1.223.5 Maine 1910; r. 1951 50 29.532 209 Ref .Mon. C-101 920.7 2.964131 51.384 42 26 51 112 51 d.m. 11 Ref. Mon. C-102 1.056.2 Ref .Mon. S-107 3.023752 51 19.703 02 02 52 New Brunswick 1910; r. 1951 32 32 10 Ref .Mon. C-102 642.6 2.807933 11 36.034 137 317 Ref. Mon. S-108-52 d.m. 27 42 Ref .Mon. C-101 3.074943 59.094 27 1.083.8 195 33 15 Maine 1952

interestional houndary line ST. JOHN RIVER

Reference Monuments

State Maine

International boundary line ST. JO	HN RIVER	. A	erere	nce Monume	ents				_	State _	18 THE	_ Province	1 41104 4011
STATION		L	LONGIT	AND		AZIML			ACK AZ		TO STATION	DISTANCE	LOGARITHM
Ref. Mon. C-103 New Brunswick 1910; r. 1951	d.m.	ь ₇ 68	11 51	40.577 44.633	237 258 278	32 44 19	32 23 20	57 78 98	32 45 19	50 18 53	Ref.Mon. C-102 Ref.Mon. S-107 Ref.Mon. S-108-52	621.9 1,611.8 968.8	2.793736 3.207322 2.986252
Ref. Mon. S-109 Maine 1910; r. 1951	d.m.	47 68	11 51	21.410 24.814	144	49 37	19 45	324 6	49 37	05 149	Ref.Mon C-103 Ref.Mon. C-102	724.2 931.9	2.8598 ¹ 7 2.969 ³ 6 ¹
Ref. Mon. C-104 New Brunswick 1910; r. 1951	d.m.	47 68	11 51	33.731 58.297	233	40 21	53 28	53	41	03 52	Ref.Mon. C-103 Ref.Mon. S-109	356.9 801.0	2.552606 2.903639
Ref. Mon. S-110 Maine 1910; r. 1951	d.m.	47 68	11 52	05.071 01.727	184 198 237	39 10 00	52 02 06	18 57	39 10 00	55 15 33	Ref.Mon. C-104 Ref.Mon. C-103 Ref.Mon. S-109	888.0 1,15½.0 926.6	2.948423 3.062215 2.966882
Ref. Mon. C-105 New Brunswick 1910; r. 1951	d.m.	47 68	11 52	17.636 49.433	245 253 266 291 328	12 13 14 07 22	40 28.8 54 07 02.5	65 73 86 111 148	13 21 15 07 22	18 14.2 56 42 49.0	Ref.Mon. C-104 Ledges Ref.Mon. S-109 Ref Mon. S-110 St. Frencis	1,185.7 13,939.0 1,785.3 1,076.7 2,547.2	3.073985 4.144233 3.251701 3.032105 3.406062
Ref. Mon. S-111 Msine 1910; r. 1951	d.m.	47 68	10 52	52.395 16.516	138 196 218	21 43 29	48 20 48	313 16 38	21 43 29	24 34 59	Ref.Mon. C-105 Ref.Mon. C-104 Ref.Mon. S-110	1.043.0 1.332.9 - 500.2	3.018302 3.124808 2.699147
Hay 2 New Brunswick 1951	n.m.	47 68	11 52	14.423 53.118	218	01 25	07 57	38 131	01	10 24	Ref.Mon. C-105 Ref.Mon. S-111	126.0	2.100208
Ref. Mon. 170-51 New Brunswick 1951	d.m.	47 68	11 52	08.113 52.051	173	25 36	76 50	353 10	25 36	19 4g	Hay 2 Ref.Mon. C-105	196.2	2.292612
Ref. Mon. 170A New Brunswick 1939; r. 1952	d.m.	47 68	11 52	08.159 51.955	190 235	16	57 14	10 55	16 02	59 54	Ref.Mon. C-105 Ref.Mon. C-104	297.5	2.473423 3.139343
Ref. Mon. S-112 Maine 1910; r. 1951	d.m.	47 68	10 52	34.067 47.176	177 228	58 45	40	357 48	58 45	38 45	Ref.Mon. C-105 Ref.Mon. S-111	1,346.3 858.6	3.129152 2.933779
Ref. Mon. C-106 New Brunswick 1910; r. 1951	d.m.	47 68	10 53	59.135 20.927	229 245 263 278 317	14 29 43 43 26	49 01 07 11 41	49 65 83 98 137	15 29 44 43 27	12 22 05 58 06	Ref.Mon. C-105 Ref.Mon. 170-51 Ref.Mon. S-110 Ref.Mon. S-111 Ref.Mon. S-112	875.3 668.2 1.677.6 1.372.1 1.050.9	2.942143 2.824914 3.224680 3.137380 3.021556
Ref. Mon. S-113 Maine 1910; r. 1951	d.m.	47 68	10 53	03.046 35.660	190	09	11	10 46	09 49	22 49	Ref.Mon. C-106 Ref.Mon. S-112	1.759.7 1.400.1	3.245435 3.146153
Ref. Mon. S-114 Maine 1910; r. 1952	d.m.	47 68	10 54	33.344 13.766	234 269 319	23 17 22	48 22 35	54 89 139	24 18 23	27 26 03	Ref.Mon. C-106 Ref.Mon. S-112 Ref.Mon. S-113	1,368.3 1,823.5 1,232.6	3.136182 3.260911 3.090839
Ref. Mon. 171 Maine 1917; r. 1951	d.m.	47 68	10 53	53.052 15.388	15 148 226	27 09 34	19 57 09	195 328 46	27 09 34	04 53 26	Ref.Mon. S-113 Ref.Mon. C-106 Ref.Mon. 17C-51	1,602.2 221.1 676.6	3.204711 2.344647 2.830318

International boundary line ST. J	OHN RIVE	3 1	Refer	ence Monum	ente			-			State _	Maine	Province New	Brunswick
STATION		L	LONGIT	LAND		AZIMI	лн		В	ACK AZ	Part Control	TO STATION	DISTANCE	LOGARITHM
Ref. Mon. 172 Maine 1917; r. 1951	d.m.	47 68	10 53	43.296 27.531	7 195 288	50 52 32	30 11 16		187 15 108	50 52 32	24 16 46	Ref.Mon. S-113 Ref.Mon. C-106 Ref.Mon. S-112	1.254.7 508.5 896.3	3.098548 2.706305 2.952452
Ref. Mon. 173 Maine 1917; r. 1951	d.m.	47 68	10 53	54.234 30.975	234 259 304	24 53 01	15 34 37		54 79 124	25 54 02	22 39 09	Ref.Mon. C-106 Ref.Mon. S-110 Ref.Mon. S-112	260.1 1,905.7 1,112.9	2.415188 3.280732 3.046440
Ref. Mon. 175 New Brunswick 1917; r. 1951	d.m.	47 68	10 54	48.209 00.418	247 339	54 30	34 03		67 159	55 30	03 21	Ref.Mon. C-106 Ref.Mon. S-113	897.3 1,489.0	2.952960 3.172888
Ref. Mon. S-1-55 Maine 1955	d.m.	47 67	03 47	57.110 43.075	291 342	45 50	01 40		111 162	45 50	13 40	Mon. 116-52 Ref.Mon. S-1-52 (lost)	374.5 75.5	2.573508
Ref. Mon. S-4A-55 Maine 1955	d.m.	47 67	04 48	25.284 46.015	181 207	17 19	30 00		27	17 19	30 00	Ref.Mon. S-4-52 Ref.Mon. S-4A (lost)	167.3 11.76	2.223499
Ref. Mon. S-23A-55 Maine 1955	d.m.	47 67	09 55	22.211 53.167	80 198	02 44	04 49		260	02	01 0 1	Ref.Mon. S-23-52 Leon	14.33	1.156306 3.042674
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International boundary line ST. JOHN RIVER Secondary Stations State Maine Province New Brunswick

STATION		r	ATITUDE	AND		AZIMU	тн	9/	CK AZI	MUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
Funeral Parlor, cross Maine 1909; r. 1952 (lost in 1955)	đ.	47 67	09	21.360 58.151	149 255	35 16	18 22	329 75	35 16	03	Ref.Mon. S-24 Ref.Mon. S-23 (lost)	836.4 93.1	2.922431
St. Bruno's Catholic Church, spire Maine 1952	d.	47 67	09 56	42.852 27.060	192 243 248 291	25 58 29 36	28 14 06 51	12 63 68 111	25 58 29 37	36 35 15 22	Ref.Mon. C-24 Ref.Mon. C-23-52 ecc. Rail Ref.Mon. C-22-29 ecc.	1,067.1 667.1 271.4 957.4	3.028216 2.824219 2.433555 2.981071
Van Buren, iron cross on boulder Meine 1909; r. 1952	d.	47 67	10 56	34.290 54.623	18 334	47 17	48 46	198 154	47 17	48 51	Ref.Mon. S-28 (lost) Ref.Mon. S-27 (lost)	9.2 325.8	0.964773
Stack, St. John Lumber Co. Maine 1952	d.	47 67	11 57	18.850 15.089	3 117 128 149 182 249 255	40 44 06 20 19 22 40	28 21 20 28 37 16 17	183 297 308 329 2 69 75	40 43 05 19 19 22 40	27 55 28 49 39 28 30	Ref.Mon. S-30-52 Ref.Mon. S-31-52 Ref.Mon. S-32 Ref.Mon. C-30-31 Les *Ate Ref.Mon. C-28-52	438.2 929.3 1,914.8 2.193.7 960.8 368.2 391.1	2.641719 2.968161 3.282113 3.341182 2.982655 2.566045 2.592282
Green River Church spire New Brunswick 1951	d.	47 68	18 08	53.686 31.895	0 17 82 94 355	14 19 35 43 45	06 54 19 20 58	180 197 262 274 175	14 19 35 42 46	06 39 02 14 02	Ref.Mon. S-45-51 ecc. Ref.Mon. S-46A ecc. Ref.Mon. C-44 Ref.Mon. S-47-51 Ref.Mon. C-43	2.087.2 1.409.1 492.5 1.906.3 1.570.7	3.319556 3.148946 2.692439 3.280187 3.196092
Green River School cupola New Brunswick 1951	d.	47 68	19 08	17.343 49.183	1 8 352	33 58 49	43 04 33	181 188 172	33 58 49	41 00 46	Ref.Mon. S-46A ecc. Ref.Mon. C-44 Ref.Mon. S-45-51 ecc.	2,076.5 804.0 2,839.9	3.317331 2.905232 3.453309
Lille, old church cross on cupola Maine 1909; r. 1952	d.	47 68	16 06	43.765 35.006	66 112 323	30 46 59	00 22 30	246 292 144	29 45 00	52 37 31	Ref.Mon. S-43 (lost) Ref.Mon. S-44 Ref.Mon. S-42 (lost)	240.5 1.395.2 2.968.7	2.381164 3.144651 3.472566
St. Besil's Catholic Church spire New Brunswick 1909; r. 1952	d.	47 68	21	23.518 55.879	63 319 358	02 29 27	02 28 53	243 139 178	01 30 27	16 29 54	Ref.Mon. S-53 Ref.Mon. S-51 (lost) Ref.Mon. S-52 (lost)	1,480.5 2,677.4 1,250.6	3.170414 3.427709 3.097135
St. Basil's convent cross New Brunswick 1909; r. 1952	d.	47 68	21	29.734	50 317 347	08 44 32	46 01 04	230 137 167	08 45 32	10 12 15	Ref.Mon. S-53 Ref.Mon. S-51 (lost) Ref.Mon. S-52 (lost)	1,347.3 3,010.0 1,477.0	3.129458 3.478570 3.169371
St. David's Church, cross on cupols Maine 1909; r. 1951	d.	47 68	20	56.874 40.277	89 121 287	52 59 41	41 20 42	269 301 107	52 58 42	10 17 00	Ref.Mon. S-55 (lost) Ref.Mon. C-54 Ref.Mon. S-54	873.0 2,102.3 543.9	2.941C04 3.322700 2.735529
Madawaska Catholic Church spire Maine 1951	đ.	47 68	21	16.370 41.738	178 224 255 282	03 00 49 01	45 36 16 47	358 44 75 102	03 01 50 02	44 02 27 46	Ref.Mon. C-56-51 Ref.Mon. C-55A Ref.Mon. C-54 Ref.Mon. S-56	772.7 1,048.7 2,088.6 1,715.2	2.888020 3.020662 3.319851 3.234324
Edmundston Catholic Church spire (: New Brunswick 1940; r. 1952	S.E.) n.d.	47 68	21	45.817 57.798	279 302	33	21 37	99	3 ⁴	44 4g	Ref.Mon. C-54 Ref.Mon. S-56	2,395.2 2,379.8	3.379341 3.376537

International boundary line ST. JOHN RIVER

Secondary Stations

State Maine

International boundary line ST. JOHN RIVER	Seco	dary Statio	ng	20 3 4500	Sta	te Maine	Province New B	runswick
STATION	LATITU	DE AND	AZIML	лн ,	BACK AZIMUTH	TO STATION	DISTANCE (METERS) .	LOGARITHM
Clair Church spire d. New Brunswick 1910; r. 1951	47 19 68 30		12 59 238 51 307 04	20 05 06	192 59 11 58 51 42 127 04 45	S-90 (lost) Ref.Mon. S-88	1,109.2 1,246.6 1,405.2	3.045000 3.095728 3.147724
Fort Kent, Catholic School, cross d. Maine 1910; r. 1951	47 1º 68 3º	10.892 30.956	97 01 200 25 334 16	28 51 43	277 00 52 20 26 01 154 16 55	Ref.Mon. S-88	1,023.6 830.1 792.4	3.010120 2.919146 2.898950
Fort Kent, Madawaska Training School, weather wane. Maine 1910; r. 1951 d.	47 1 ¹ 68 3!	59.912	61 15 112 54 190 29	34 23 47	241 14 55 292 53 44 10 29 54		1,265.4 1,192.8 1,136.0	3.102214 3.076564 3.055373
Fort Kent, Protestant Church spire d. Maine 1910; r. 1951	147 11 68 31	58.461	64 57 185 25 333 29	05 58 40	244 56 23 5 26 02 153 29 46	Ref.Mon. S-88	1,331.2 1,167.0 368.8	3.124229 3.067088 2.566749
Connor, Catholic Church spire d. New Brunswick 1910; r. 1952	47 12 68 50	23.184	223 02 273 54 334 24	54 53 52	43 03 17 93 55 43 154 25 04	Ref.Mon. S-105	977.4 1,404.3 778.6	2.990091 3.147450 2.891312
St. Francis, Protestant Church spire Maine 1910; r. 1951 d.	47 1 68 5	34.440	37 27 150 27 189 48	30 03 48	217 27 04 330 26 48 9 48 56	Ref .Mon. C-106	1,221.3 876.7 1,353.8	3.086814 2.942836 3.131549
St. Francis, Catholic Church spire Maine 1910; r. 1951 d.	47 10 68 5	06.420	169 50 242 58 279 03	10 30 18	349 50 05 62 59 29 99 03 41	Ref.Mon. S-112	1,879.6 661.7	2.926711 3.274054 2.820676

International boundary line ST. JOHN RIVER

Boundary Turning Points

State _Maine

STATION	LATITUDE AND	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 1	47 04 01.829 . 67 47 26.653		236 06 12 56 06 29 179 43 56	Ref.Mon. S-1-52 Ref.Mon. C-1-52 Mon. 117-52	171.2 2	.591796 .233476 .144067
T.P. 2	47 04 10.04 67 47 42.48		324 21 44 127 13 28 139 35 09	Ref.Mon. C-2-52 T.P. 1 Mon. 117-52	419.6 2	.473843 .622883 .713009
T.P. 3	47 04 21.36 67 48 15.76	35 31 15 215 31 15 296 28 14	215 31 11 35 31 17 116 28 39	Ref.Mon. S-3 Ref.Mon. C-3 T.P. 2	108.2 2	.244986 .034197 .894445
T.P. 4	47 04 33.59 67 48 42.324	16 22 12 39 34 04 219 34 04 303 58 04	196 22 09 219 34 01 39 34 07 123 58 23	Ref.Mon. S-44 Ref.Mon. S-4-52 Ref.Mon. C-4-52 T.P. 3	116.2 2	.409521 .065026 .189027 .829891
T.P. 5	47 04 52.84 67 49 02.89		256 52 34 81 19 19 143 52 21	Ref.Mon. S-6-52 Ref.Mon. C-5-52 T.P. 4	172.5 2	.605229 .236704 .866746
т.Р. 6	47 05 00.12 67 49 17.94		323 13 01 125 19 11 143 30 14	Ref.Mon. C-6-52 T.P. 5 Ref.Mon. S-5-52	389.0 2	.488706 .589989 .851208
T.P. 7	47 05 04.66 67 49 35.59		216 02 16 60 23 13 110 36 41	Ref.Mon. S-7-52 Ref.Mon. C-6-52 T.P. 6	216.0 2	.687189 .334532 .599632
T.P. 8	47 05 05.72 67 49 51.89		308 11 24 95 26 45 172 18 52	Ref.Mon. C-7-52 T.P. 7 Ref.Mon. S-7-52	345.4 2	.791178 .538293 .633586
T.P. 9	47 05 15.41 67 50 19.75		230 51 39 236 53 22 50 51 51 116 59 51	Ref.Mon. S-8 Ref.Mon. S-8A Ref.Mon. C-7-52 T.P. 8	557.1 2 131.3 2	.498724 .745906 .118232 .819302
T.P. 10	47 05 35.72 67 50 57.14	340 50 45 251 44 58 308 29 28	160 50 48 71 45 06 128 29 55	Ref.Mon. 119-52 Ref.Mon. C-8-52 T.P. 9	257.2 2	.381187 .410243 .003280
T.P. 11	47 05 48.49 67 51 35.20		349 31 29 116 10 14 149 53 06 151 58 56	Ref.Mon. C ₇ 9-52 T.P. 10 Ref.Mon. S-9A Ref.Mon. S-9	894.3 834.2	.670179 .951496 .921292 .946119
T.P. 12	47 06 01.79 67 52 08.05		228 53 35 46 16 37 120 39 26	Ref.Mon. S-11 Ref.Mon. C-10-52 T.P. 11	292.4	.430570 .465944 .905908

INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA

GEOGRAPHIC POSITIONS-NORTH AMERICAN DATUM 1927

ternational boundary line ST. JOHN		urning Points	State _	Maine	Province_New	Brunswick
BTATION	LATITUDE AND	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHE
P. 13		.052 130 43 26 278 06 35 310 43 26	310 43 16 98 06 52 130 43 36	Ref.Mon. C-11 T.P. 12 Ref.Mon. S-11	390.9 495.0 378.6	2.592102 2.694572 2.578219
.P. 1 ⁴		.468 41 00 17 .957 221 00 17 .294 10 38	221 00 11 41 00 20 114 10 51	Ref.Mon. S-12 Ref.Mon. C-11 T.P. 13	273.8 116.3 408.4	2.437402 2.065548 2.611103
.P. 15		.686	228 06 37 48 08 39 128 25 08	Ref.Mon. S-13-31 Ref.Mon. C-12 T.P. 14	202.3 150.9 309.0	2.305995 2.178715 2.489982
.Р. 16		163 40 13 57 341 245 17 24 326 28 07	220 13 53 65 17 28 146 28 21	Ref.Mon. S-15-52 Ref.Mon. C-14 T.P. 15	163.8 142.8 721.5	2.214382 2.154677 2.858258
.P. 17	47 06 50. 67 53 24	695 150 42 34 330 43 50 347 34 36	330 42 26 150 43 58 167 34 40	Ref.Mon. S-16-40 Ref.Mon. C-14 T.P. 16	445.0 481.4 491.1	2.648341 2.682514 2.691203
.P. 18		197 2 40 04 021 48 55 52 199 18 27	182 40 03 228 55 43 19 18 31	T.P. 17 Ref.Mon. S-16-40 Ref.Mon. C-16	602.9 326.0 371.4	2.780245 2.513186 2.569845
.P. 19		303 79 47 11 313 259 47 11 343 49 58	259 47 02 79 47 19 163 50 02	Ref.Mon. S-17 Ref.Mon. C-16 T.P. 18	272.5 216.7 324.9	2.435370 2.335867 2.511805
.P. 20	47 07 27 67 53 25.	376 9 17 47 617 48 43 50 315 23 46	189 17 45 228 43 39 135 23 52	T.P. 19 Ref.Mon. S-17 Ref.Mon. C-16	221.3 404.4 252.8	2.345020 2.606791 2.402780
.P. 21		173 25 26 21 583 330 17 47 345 26 39	205 26 12 150 17 55 165 26 41	Ref.Mon. S-17 Ref.Mon. C-16 T.P. 20	562.0 484.4 248.8	2.749748 2.685232 2.395805
.P. 22	47 07 44. 67 53 38.	807 102 04 14 553 166 03 21 324 45 53	282 03 55 316 03 18 144 46 00	Ref.Mon. S-1g-40 Ref.Mon. C-17-40 T.P. 21	556.8 398.0 364.2	2.745672 2.599871 2.561387
.P. 23		518 86 36 45 690 170 00 18 339 49 05	266 36 28 350 00 17 159 49 07	Ref.Mon. S-18-40 Ref.Mon. C-17-40 T.P. 22	491.8 244.5 155.0	2.691824 2.388253 2.190335
.P. 24	47 07 54. 67 53 47.	005 64 19 33 837 224 18 51 314 15 42	244 19 20 44 18 54 134 15 46	Ref.Mon. S-18-40 Ref.Mon. C-17-40 T.P. 23	387.0 142.8 198.6	2.587688 2.154770 2.297909
P. 25	47 07 59. 67 53 57.	042 22 46 38 943 175 56 40 306 09 37	202 46 33 355 56 39 126 09 45	Ref.Mon. S-18-40 Ref.Mon. C-18-52 T.P. 24	350.7 472.9 263.8	2.544919 2.674783 2.421306

INTERNATIONAL BOUNDARY COMMISSION—UNITED STATES, ALASKA, AND CANADA

GEOGRAPHIC POSITIONS-NORTH AMERICAN DATUM 1927 Province New Brunswick State Maine International boundary line ST. JOHN RIVER Boundary Turning Points DISTANCE LATITUDE AND TO STATION LOGARITHM AZIMUTH BACK AZIMUTH STATION 2.489099 308.4 29 197 25 Ref .Mon. S-19-52 47 08 11.178 T.P. 26 606.9 2.783129 54 40 18 40 Ref .Mon. C-19-52 67 14.498 181 18 T.P. 25 512.0 2.709297 03 03 317 02 51 137 2.803460 306 45 49 Ref Mon. S-21 636.0 38.651 126 07 47 T.P. 27 2.605647 48 403.3 48 126 38 Ref.Mon. C-19-52 ELL 67 29.164 306 27 2.955658 12 T.P. 26 902.9 339 59 01 159 59 2.923622 Ref . Mon. S-20-52 838.7 47 191 38 25 08 49.823 11 38 31 T.P. 28 26 2.589108 54 28 26 28 Ref. Mon. C-20-52 388.2 1 67 37.333 181 2.586090 T.P. 27 385.6 29 13 333 29 07 153 2,298419 55.454 Ref. Mon. S-21 198.8 45 14 225 09 47 57 08 T.P. 29 296.1 2.471476 54 39 40 43 39 47 Ref.Mon. C-20-52 67 223 2.416433 16 T.P. 28 260.9 311 09 131 2.607458 144 144 08 Ref.Mon. S-22 405.0 283 47 05.863 103 22 T.P. 30 57 27 886.4 2.947620 56 96 Ref . Mon. C-20-52 276 36 07 67 55 18.623 26 748.0 2.873919 115 12 T.P. 29 295 347 34 Ref. Mon. C-22-29 432.1 2.635547 34 47 167 12 09 17.709 T.P. 31 56 56 2.764992 128 T.P. 30 582.1 06 22 67 55 40.115 308 Ref.Mon. S-22 2.441076 347 35 167 35 04 276.1 02 Ref Mon. S-23A 167.7 2.224556 47 268 49 88 59 59 22.221 T.P. 32 09 07 183.7 2.263993 269 55 Ref . Mon. S-23-52 89 08 01 55 45.120 2.451587 182 31 06 Ref. Mon. C-22-29 282.9 31 06 2 2.242374 53 06 142 53 10 T.P. 31 174.7 322 34 55 41 36 Ref Mon. S-23A 390.1 2.591215 34 180 09 55 34.759 0 37 South Tablet, Van Buren 390.5 2.591585 Ref. Mon. S-23-52 55 03 182 02 52.893 St. Leonard Bridge, 1929; r. 1952 40 120 45 Ref . Mon. C-22-29 204.9 2.311501 300 2.623648 04 28 157 04 33 T.P. 32 420.4 337 2.600153 0 04 13 180 12 Ref.Mon. S-23A 398.2 35.022 09 North Tablet. Van Buren 21 Ref. Mon. S-23-52 398.4 2.600355 21 182 50 2 51 53.056 St. Leonard Bridge, 1929; r. 1952 2.326446 212.1 06 35 122 06 40 Ref . Mon. C-22-29 302 0.945923 04 South Tablet, Van Buren 8.83 04 28 337 28 157 St. Leonard Bridge 345.9 58 2.538913 Ref. Mon. C-23-52 09 41.190 173 T.P. 33 636.0 04 2.803476 T.P. 32 67 55 56.881 337 25 157 33 157 North Tablet, Van Buren 206.8 2.315576 337 25 St. Leonard Bridge Ref.Mon. S-234 594.1 2.773892 15 16 15 14 172

353

60

240

316

115

295

771

09 56

56

67

67

T.P. 34

T.P. 35

48.847

07.625

57.661

14.779

20

29

15

47

48

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53

18

36

23

07

E7

55

10

43

31

20

03

173

240

60

136

295

115

151

20

29

15

48

m

Ref . Mon. 8-23-52

Ref . Mon. C-23-52

Ref. Mon. S-25-52

Ref .Mon. C-23-52

Ref. Mon. S-24

T.P. 33

mp zh

592.1

257.6

218.3

327.3

234.1

378.4

311.1

2.772361

2.410990

2.339023

2.514931

2.369438

2.577928

12.492950

International boundary line ST. JOHN RIVER Boundary Turning Points State __Maine Province New Brunswick DISTANCE (METERS) TO STATION LOGARITHM AZIMUTH BACK AZIMUTH STATION 2.469866 247 Ref. Mon. S-26-52 295.0 67 10 26 T.P. 36 10 15.194 10 35 2.091113 Ref.Mon. C-24-52 67 56 21.641 249 25 08 69 25 12 123.3 T.P. 35 560.4 2.748500 345 03 165 03 25 17 2.742907 14 181 14 01 Ref .Mon. S-26-52 553.2 S.E. Tablet, Keegan R.R. Bridge d.m. 47 10 29.398 01 124.3 2.094362 67 56 224 06 44 06 36 Ref .Mon. C-25-54 33.987 33 1929; r. 1952 149 20 41 T.P. 36 509.9 2.707505 329 20 32 2.746431 45 Ref. Mon. S-26-52 557.7 47 10 29.546 0 56 180 56 N.W. Tablet, Keegan R.R. Bridge d.m. 34 2.089846 56 29 46 29 Ref . Mon. C-25-54 123.0 67 34.116 226 37 1929; r. 1952 20 32 149 20 32 S.E. Tablet. Keegan R.R. 0.724309 5.30 329 Bridge 05 23 Ref.Mon. S-27-52 317.1 2.501171 T.P. 37 33.637 38 05 30 218 14 56 284 104 Ref.Mon. C-25-54 169.3 2.228697 37.672 37 329 329 T.P. 36 662.1 2.820914 20 29 149 20 41 N.W. Tablet, Keegan R.R. 146.9 2.166908 20 29 149 20 32 Bridge 24 Ref . Mon. S-28-52 136.9 2.136538 10 39.913 50 03 28 230 03 T.P. 38 148.7 44.271 2.172193 67 230 50 16 50 50 20 Ref.Mon. C-26-52 324 144 T.P. 37 238.5 2.377453 21 36 21 41 240.8 2.381579 223 Ref. Mon. S-29A 53.757 43 31 16 31 16 18 T.P. 39 2.440542 275.8 56 26 17 Ref. Mon. S-29-52 04 04 Ref . Mon. C-27-54 232.9 2.367236 118 23 298 17 496.0 2.695512 T.P. 38 329 31 149 31 49 236.9 2.374557 124 50 304 50 41 Ref .Mon. S-30-52 11 00.305 T.P. 40 32 12 32 Ref.Mon. C-27-54 536.5 2.729555 67 305 18 125 57 07.189 T.P. 39 2.487171 311 131 09 307.0 01 3 T.P. 40 739.7 2.869036 27 183 11 24.213 T.P. 41 58 27 Ref .Mon. 121 2.795744 58 16 67 57 05.069 150 330 2.258940 17 45 Ref.Mon. C-28-52 181.5 292 39 112 283 37 47 Ref.Mon. 121 228.6 2.359079 40.160 103 37 T.P. 42 11 2.488175 345 21 Ref .Mon. C-29-52 21 59 56 307.7 08.917 165 39 T.P. 41 499.1 2.698157 39 32 170 35 350 41 Ref.Mon. 121 216.1 2.334718 47.926 30 210 37 T.P. 43 38 Ref.Mon. C-29-52 1.827981 27 30 154 38 57 67.3 57 14.240 210 28 264.7 T.P. 42 2.422807 334 57 56 Ref.Mon. 122 214 189.4 2.277383 58.467 34 02 11 T.P. 44 43 36 47 Ref.Mon. C-29-52 413.7 2.621917 129 57 27.909 309 31 31 T.P. 43 434.5 2.637945 318 28 138 38 Ref.Mon. C-32 865.9 2.937460 36 293 30 24.275 113 30 T.P. 45 12 2.586669 13 28 13 40 Ref.Mon. C-30-31 386.1 58 25.453 290 110

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303

29

123

21

11

T.P. 44

1449.8

3.161322

International boundary line ST. JOHN RIVER

Boundary Turning Points

State Maine

ternational boundary line			State	Province
STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH TO STATION	UISTANCE LOGARITHM
T.P. 46	47 12 31.007 67 59 00.059	154 26 14 285 55 39 333 03 53	334 26 12 Ref.Mon. C-32 105 56 05 T.P. 45 153 04 05 Ref.Mon. S-33-52	152.4 2.182942 757.4 2.879310 751.2 2.875745
F.P. 47	47 12 33.145 67 59 16.345	75 32 06 255 32 06 280 54 07	255 31 53 Ref.Mon. S-35 75 32 16 Ref.Mon. C-32 100 54 19 T.P. 46	397.8 2.599625 286.0 2.456435 349.0 2.542874
r.p. 4g	47 12 35.918 67 59 24.841	48 07 28 160 09 42 295 35 28 340 09 21	228 07 21 Ref.Mon. S-35 340 09 37 Ref.Mon. C-33-40 115 35 34 T.P. 47 160 09 26 Ref.Mon. S-34-52	198.2 2.297190
r.P. 49	47 13 01.460 67 59 55.301	31 52 59 211 52 59 320 53 58	211 52 57 Ref.Mon. 124 31 53 02 Ref.Mon. C-34 140 54 20 T.P. 48	133.2 149.1 1016.4 2.124557 2.173532 3.007055
r.P. 50	47 13 37.612 68 00 26.598	16 44 12 303 03 35 329 27 53	196 44 10 Ref.Mon. 126-52 123 03 44 Ref.Mon. C-35-52 149 28 16 T.P. 49	212.7 306.2 1296.2 2.486001 3.112659
r.P. 51	47 14 05.592 68 01 01.838	96 16 20 256 09 32 319 22 08	276 16 12 Ref.Mon. S-38-52 76 09 38 Ref.Mon. C-36-52 139 22 34 T.P. 50	
r.P. 52	47 14 18.425 68 01 12.719	312 59 15 329 59 31 350 56 32	132 59 29 Ref.Mon. C-36-52 149 59 39 T.P. 51 170 56 32 Ref.Mon. S-38-52	457.7 2.660552
T.P. 53	47 14 23.654 68 01 32.882	155 51 34 290 50 39 318 04 18	335 51 25 Ref.Mon. C-37-51 110 50 54 T.P. 52 138 04 33 Ref.Mon. S-38-52	453.8 2.656833
r.p. 54	47 14 35.818 68 02 01.972	64 23 58 242 56 28 301 32 50	244 23 44 Ref.Mon. S-39-51 62 56 41 Ref.Mon. C-37-51 121 33 11 T.P. 53	
r.p. 55	47 14 47.232 68 02 22.635	156 37 24 309 02 44 355 58 37	336 37 15 Ref.Mon. C-38-51 129 02 59 T.P. 54 175 58 38 Ref.Mon. S-39-51	559.6 2.747846
T.P. 56	47 15 06.890 68 03 09.513	158 47 22 301 37 16 338 47 22 347 23 37	338 47 19 Ref.Mon. 128 121 37 50 T.P. 55 158 47 27 Ref.Mon. S-40 167 23 40 Ref.Mon. S-40A	242.8 2.385229 1157.7 3.063606 398.8 2.600735 384.7 2.585146
T.P. 57	47 15 18.498 68 03 34.930	11 26 23 212 50 02 303 50 56	191 26 21 Ref.Mon. S-41-51 32 50 08 Ref.Mon. C-39 123 51 15 T.P. 56	302.4 2.480555 309.4 2.490485 643.5 2.808574
T.P. 58	47 15 25.946 68 03 55.340	267 07 43 298 11 31 324 57 22	87 08 04 Ref.Mon. C-39 118 11 46 T.P. 57 144 57 35 Ref.Mon. S-41-51	597.6 486.9 643.0 2.808188

International boundary line ST. JOHN RIVER

Boundary Turning Points

State Meine

International boundary line _st. John			State Maine	Province New Brunswick
STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH TO STATIO	DISTANCE LOGARITHM
T.P. 59	47 15 32.809 68 04 28.274	77 07 30 90 53 09 137 26 03 287 00 54	257 06 58 Ref.Mon. S-42-51 270 52 40 Ref.Mon. S-42A 317 25 38 Ref.Mon. 130 107 01 18 T.P. 58	942.9 853.3 2.931093 1055.3 724.2 2.859833
1.P. 60	47 15 44.941 68 04 37.780	128 03 52 189 04 58 331 55 23	308 03 34 Ref.Mon. 130 9 05 00 Ref.Mon. C-40-51 151 55 30 T.P. 59	652.8 2.814789 398.7 2.600690 424.7 2.628035
T.P. 61	47 15 57.073 68 04 40.382	93 28 12 260 46 35 351 41 32	273 27 56 Ref.Mon. 130 80 46 39 Ref.Mon. C-40-51 171 41 34 T.P. 60	460.1 2.662865 119.2 2.076237 378.6 2.578192
T.P. 62	47 16 15.411 68 04 56.901	11 44 59 319 38 51 328 28 57	191 44 55 Ref.Mon. 130 139 39 07 Ref.Mon. C-40-51 148 29 09 T.P. 61	550.0 2.740370 718.0 2.856144 664.3 2.822367
T.P. 63	47 16 35.424 68 05 34.185	100 55 39 125 56 18 308 15 27	280 55 07 Ref.Mon. S-h3-51 305 55 57 Ref.Mon. C-h1-51 128 15 54 T.P. 62	919.2 2.963428 735.2 2.866411 998.1 2.999155
T.P. 64	47 16 41.344 68 05 52.101	89 03 42 138 39 53 295 53 43	269 03 23 Ref.Mon. S-43-51 318 39 45 Ref.Mon. C-42-51 115 53 56 T.P. 63	
T.P. 65	47 16 47.787 68 06 10.428	34 09 22 253 22 31 297 19 04	214 09 17 Ref.Mon. S-43-51 73 22 37 Ref.Mon. C-41-51 117 19 18 T.P. 64	
T.P. 66	47 16 53.003 68 06 19.946	99 02 04 286 54 12 308 50 15	279 01 08 Ref. Kon. S-44 106 54 25 Ref. Kon. C-41-51 128 50 22 T.P. 65	1623.1 3.210347 383.0 2.583230 256.8 2.409657
T.P. 67	47 17 14.586 68 07 17.259	144 03 31 196 03 00 298 57 15	224 03 17 Ref.Kon. S_hh 16 03 03 Ref.Kon. C_h2_52 118 57 57 T.P. 66	573.1 373.7 1376.5 2.7758235 2.572563 3.138790
T.P. 68	47 17 23.417 68 07 25.061	110 30 32 252 04 48 328 59 22	290 30 21 Ref.Mon. 134 72 04 56 Ref.Mon. C-42-52 148 59 27 T.P. 67	323.2 280.9 318.2 2.509500 2.448543 2.502733
T.P. 69	47 17 38.234 68 07 40.870	324 01 18 355 06 48 355 06 48	144 01 30 T.P. 68 175 06 49 Ref.Mon. 134 175 06 51 Ref.Mon. S-44	565.4 2.752385 345.6 2.538583 1146.4 3.059321
T.P. 70	47 17 44.173 68 08 11.101	151 03 35 286 06 06 331 03 35	331 03 24 Ref.Mon. C-43 106 06 28 T.P. 69 151 04 00 Ref.Kon. S-44	663.1 2.821603 661.1 2.820275 3.180322
T.P. 71	47 17 58.242 68 08 30.402	6 07 29 210 07 00 316 58 23	186 07 28 Ref.Mon. S-45-51 30 07 03 Ref.Mon. C-43 136 58 37 T.P. 70	377.3 168.6 2.226858 594.3 2.774018

International boundary line ST. JOHN RIVER Boundary Turning Points

State Maine

STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE LOGARITH
T.P. 72	47 18 20.214 68 08 50.727	174 31 52 327 49 01 339 50 36	354 31 49 147 49 16 159 50 50	Ref.Mon. C-44 T.P. 71 Ref.Mon. S-45-51	974.6 2.988817 801.7 2.904023 1122.5 3.050172
T.P. 73	47 18 34.655 68 09 09.850	30 29 53 210 29 53 317 59 19 333 49 08	210 29 39 30 30 04 137 59 33 153 49 21	Ref.Mon. S-46-52 Ref.Mon. C-44 T.P. 72 Ref.Mon. S-46A	811.7 608.4 600.2 847.2 2.928004
T.P. 74	47 18 47.961 68 09 15.448	14 50 51 194 50 51 344 01 55 337 14 26	194 50 41 14 51 01 164 01 59 157 14 33	Ref.Mon. S-46-52 Ref.Mon. C-45-52 T.P. 73 Ref.Mon. S-46A	1148.6 3.060187 1099.4 3.041175 427.4 2.630839 1270.5 3.103966
T.P. 75	47 18 54.186 68 09 13.660	11 03 12 97 51 55 281 29 04	191 03 11 277 51 20 101 29 18	T.P. 74 Ref.Mon. S-47-51 Ref.Mon. C-44	195.9 1032.4 3.013835 396.7 2.598475
T.P. 76	47 19 19.230 68 09 10.287	5 14 04 59 58 12 240 45 04	185 14 01 239 57 34 60 45 10	T.P. 75 Ref.Mon. S-47-51 Ref.Mon. C-45-52	776.6 2.890214 1263.1 3.101422 198.7 2.298187
T.P. 77	47 19 30.508 68 09 18.732	43 03 30 305 37 00 333 01 07	223 02 58 125 37 12 153 01 13	Ref.Mon. S-47-51 Ref.Mon. C-45-52 T.P. 76	1341.9 431.4 390.9 3,127706 2,634870 2,592016
T.P. 78	47 19 37.666 68 09 37.841	23 11 33 298 50 53 302 07 43	203 11 15 118 51 07 122 08 09	Ref.Mon. S-47-51 T.P. 77 Ref.Mon. C-45-52	1307.2 458.1 888.0 2.66 994 2.948402
T.P. 79	47 19 42.408 68 10 13.561	112 22 52 281 02 37 292 22 52	292 22 36 101 02 53 112 23 44	Ref.Mon. C-46 T.P. 78 Ref.Mon. C-45-52	488.1 2.688523 764.2 2.883200 1624.5 3.210707
T.P. 80	47 19 43.774 68 10 35.653	4 58 27 184 58 27 275 11 32	184 58 25 4 58 27 95 11 48	Ref.Mon. S-48 Ref.Mon. C-46 T.P. 79	507.4 144.2 2.705391 2.159005 2.668178
T.P. 81	47 19 48.570 68 10 48.924	25 39 15 200 24 45 297 59 27	205 39 10 20 24 47 117 59 37	Ref.Mon. S-49-54 Ref.Mon. C-47 T.P. 80	309.7 2.490935 130.7 2.116286 315.6 2.499096
T.P. 82	47 20 21.740 68 12 10.349	163 53 05 300 55 21 348 54 16	343 53 01 120 56 21 168 54 21	Ref.Mon. C-49 T.P. 81 Ref.Mon. S-50-54	419.9 2.623182 1992.9 3.299493 809.2 2.908082
T.P. 83	47 20 22.436 68 12 28.218	16 50 43 214 05 40 273 16 37	196 50 36 34 05 49 93 16 50	Ref.Mon. S-51-51 Ref.Mon. C-49 T.P. 82	711.2 2.851972 461.2 2.663913 375.7 2.574894
T.P. 84	47 20 19.675 68 12 42.772	230 21 50 254 24 24 350 30 50	50 22 10 74 24 35 170 30 54	Ref.Mon. C-49 T.P. 83 Ref.Mon. S-51-51	732.4 317.2 603.6 2.780784

International boundary line ST. JOHN RIVER

Boundary Turning Points

State Maine

STATION	LATITUDE AND	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 85	47 20 22.1 68 12 54.2	- 77 7-	64 34 19 109 29 16 153 29 12	Ref.Mon. C-49 T.P. 84 Ref.Mon. S-51-51	890.2 254.5 760.3	2.949512 2.405669 2.880959
T.P. 86	47 20 29.6 68 13 11.4		292 10 15 82 13 18 121 32 54 142 07 53	Ref.Mon. S-52-51 Ref.Mon. C-149 T.P. 85 Ref.Mon. S-51-51	1018.5 1177.7 425.8 1144.0	3.007950 3.071040 2.629252 3.058442
T.P. 87	47 20 40.7 68 13 27.2		273 46 27 97 01 44 136 05 05	Ref.Mon. S-52-51 Ref.Mon. C-49 T.P. 86	613.2 1509.4 477.6	2.787603 3.178803 2.6790 3
T.P. 88	47 21 00.7 68 13 30.8		222 58 05 41 56 33 173 02 31	Ref.Mon. S-52-51 Ref.Mon. C-50-51 T.P. 87	787.2 126.1 621.0	2.896111 2.100757 2.793002
T.P. 89	47 21 03.6 68 13 33.3	41 36 00 57 70 54 39 88 09 59 268 15 47 329 32 44	216 00 40 250 53 33 268 08 56 88 15 52 3.49 32 45	Ref.Mon. S-52-51 Ref.Mon. S-53A Ref.Mon. S-53 Ref.Mon. C-50-51 T.P. 88	823.0 2000.4 1793.0 137.1 104.0	2.91538 ¹ 4 3.391108 3.253589 2.136927 2.017935
T.P. 90	47 21 11.9 68 13 43.1		196 51 21 126 23 53 141 21 54	Ref.Mon. S-52-51 Ref.Mon. C-50-51 T.P. 89	963.0 424.4 327.7	2.983640 2.627756 2.515461
T.P. 91	47 21 18.9 68 14 05.9		226 56 22 244 26 08 114 15 19 170 00 28	Ref.Mon. S-53A Ref.Mon. S-53 T.P. 90 Ref.Mon. S-52-51	1650.2 1227.9 526.1 1155.3	3.217541 3.089148 2.721102 3.062694
T.P. 92	47 21 17.0 68 14 18.7		221 14 24 334 38 22 77 52 30 156 31 33	Ref.Mon. S-53A Ref.Mon. C-51-51 T.P. 91 Ref.Mon. S-52-51	1421.6 684.3 274.7 1177.5	3.152770 2.835251 2.438891 3.070973
r.P. 93	47 21 07.4 68 14 54.5		193 30 28 206 27 59 26 37 31 68 29 30	Ref.Mon. S-53A Ref.Mon. S-53 Ref.Mon. C-51-51 T.P. 92	794.8 196.5 1023.1 807.9	2.900235 2.293400 3.009907 2.907336
T.P. 94	47 21 07.8 68 15 55.5		219 52 48 39 53 24 90 30 10	Ref.Mon. S-54 Ref.Mon. C-52 T.P. 93	656.3 956.6 1279.5	2.817105 2.980733 3.107042
T.P. 95	47 21 16.0 68 16 17.8		249 37 12 66 07 19 118 39 07	Ref.Mon. S-55-51 Ref.Mon. C-52 T.P. 94	1281.2 1182.1 532.7	3.107605 3.072659 2.726487
T.P. 96	47 21 34.4 68 16 51.9		205 33 06 28 22 00 128 25 40	Ref.Mon. S-55-51 Ref.Mon. C-53 T.P. 95	1124.0 127.1 914.0	3.050779 2.104179 2.960953

Province New Brunswick State Maine International boundary line ST. JOHN RIVER Boundary Turning Points DISTANCE LATITUDE AND TO STATION LOGARITHM AZIMUTH BACK AZIMUTH STATION 264 Ref. Non. C-54 1225.3 3.088235 04 16 21 36.881 21 T.P. 97 g4 Ref.Mon. C-53 381.5 2.581523 17 07.148 264 04 17 17 17 2.515444 44 T.P. 96 327.7 283 01 33 103 01 2.905392 804.3 264 16 Ref. Mon. C-54 16 49 21 35.523 T.P. 98 421.0 264 04 T.P. 97 17 27.111 16 49 17 2.904473 802.6 16 49 17 17 Ref.Mon. C-53 694.1 2.841 399 259 53 Ref.Mon. 138 42 53 18 21 32.136 T.P. 99 2.414141 259.5 T.P. 98 17 38.422 246 13 13 33 3.022107 53 42 79 18 Ref.Mon. C-53 1052.2 259 2.490396 Ref.Mon. 138 309.3 56 13 48 47 21 21.332 133 13 313 T.P. 100 566.7 2.753336 18 00.243 233 55 20 55 36 T.P. 99 3.051813 38 122 38 45 Ref. Mon. S-55-51 1126.7 302 12 463.0 2.665601 Ref. Mon. S-56 48 48 12 47 21 18.708 21 18 201 T.P. 101 2.674789 472.9 48 24 Ref.Mon. C-54 201 48 18 21 18 13.616 2.465562 73 45 T.P. 100 292.1 253 53 35 53 432.8 2.636300 Ref. Mon. S-56 37 18.776 28 38 183 28 T.P. 102 144.5 2,159880 Ref.Mon. 136 28 38 28 38 18 20.560 183 49 58 90 50 03 T.P. 101 145.7 2.163587 270 456.1 2.659045 44 Ref.Mon. 136 37 21 22.321 265 37 28 85 T.P. 103 459.2 2.662033 47 13 103 47 29 T.P. 102 18 41.811 283 2.835770 06 Ref . Mon. S-56 685.1 322 12 51 142 13 2.273682 46 Ref. Mon. S-57-51 187.8 46 41 38 33.783 17 197 T.P. 104 388.4 236 2.589279 07 27 56 56 07 38 Ref. Mon. C-55A 19 22.383 26 25 Ref.Mon. C-55-51 457.1 2.660048 26 12 2.964772 34 46 T.P. 103 922.1 34 292 17 112 166.1 2.220260 349 02 24 Ref.Mon. C-56-51 169 02 26 36.098 T.P. 105 T.P. 104 407.1 2.609648 06 100 07 05 19 280 424.9 2.628332 Ref .Mon. S-57-51 306 05 22 126 33 2.226447 Ref. Mon. C-56-51 168.4 36.032 44.584 30 13 191 30 12 11 East Bridge Tablet d.m. 65.2 1.814217 13 T.P. 105 268 02 88 13 05 Madawaska-Edmundston 1929; r. 1952 19 26 478.1 2.679508 17 121 17 Ref . Mon. S-57-51 301 12 2.232392 Ref. Mon. C-56-51 170.8 194 36 14 28 37 28 21 36.022 West Bridge Tablet d.m. 0.959106 East Bridge Tablet 9.10 268 13 88 13 02 45.017 02 Madawaska-Edmundston 1929; r. 1952 19 1.870970 T.P. 105 74.3 268 13 02 gg 13 2.686404 42 03 120 17 Ref .Mon. S-57-51 485.7 300 1193.1 3.076681 24 239 19 Ref. Mon. S-59-51 59 T.P. 106 355.7 267.9 2.551086 21 60 27 Ref.Mon. C-56-51 19 2.427908 13 West Bridge Tablet 268 12 57 02 342.2 2.534228 13 10 T.P. 105 268 12 88 57 2.984324 964.5 232 53 19 Ref. Mon. 5-59-51 34.888 21 T.P. 107 Ref.Mon. C-56-51 601.7 2.779393 250 41 33 01 32 70 20 10.019 oli TP 106 258.3 12.412195

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Province New Brunswick International boundary line ST. JOHN RIVER Boundary Turning Points Maine State _ DISTANCE LOGARITHM BACK AZIMUTH TO STATION STATION ATIMUTH 2.649845 446.5 42 14 42 09 Ref. Mon. S-59-51 29.284 23 203 T.P. 108 46 344 0 2.536561 68 105 23 56 285 23 Ref. Mon. C-57-51 20 38.120 614.6 38 25 47 2.788579 253 73 38 T.P. 107 2.791983 619.4 21 28.430 39 213 12 28 Ref.Mon. S-60 T.P. 109 47 33 12 358 23 Ref. Mon. C-57-51 117.8 2.070991 68 20 53.766 178 23 15 16 24 24 329.4 2.517726 265 21 85 32 T.P. 108 44 Lile 2.613275 410.5 158 08 Ref . Mon. S-59-51 338 02 Ref. Mon. S-60 455.7 2.658676 41 41 02 T.P. 110 21 26.375 00 183 166.3 2.220949 68 124 44 304 40 Ref . Mon. C-58-52 21 08.537 19 19 316.4 2.500236 258 304 25 18 78 25 T.P. 109 2.747293 27 124 48 hh Ref.Mon. S-59-51 558.8 646.2 2.810350 Ref. Mon. C-59-51 43 280 33 21 T.P. 111 47 21 16.620 100 33 2.956160 32 T.P. 110 904.0 21 49.149 250 31 53 70 22 33 100 34 12 Ref. Mon. S-60 837.3 2.922864 280 503.9 2.702307 47 337 28 Ref. Mon. C-59-51 T.P. 112 21 05.383 157 28 20 13 2.749810 231 562.1 68 22 52 36 51 52 51 T.P. 111 10.219 42 166 hh 2.442373 Ref. Mon. S-61-51 276.9 2.717414 57.540 Ref .Mon. S-62-51 47 183 30 521.7 20 3 30 13 12 T.P. 113 2.850102 68 22 20.644 182 05 09 2 05 10 Ref.Mon. C-59-51 708.1 40 05 46 T.P. 112 326.4 2.513816 222 05 38 2.665841 463.3 45 Ref.Mon. C-60 T.P. 114 20 36.643 102 39 01 282 38 2.893164 22 41.679 214 22 34 22 53 T.P. 113 781.9 38 43 428.2 2.631646 04 73 04 57 Ref. Mon. S-62-51 253 44 598.9 2.777376 47 50 22.590 153 22 333 22 Ref. Mon. C-60 T.P. 115 68 22 202 56 22 22 56 29 T.P. 114 471.3 2.673276 50.430 310 29 34 130 29 Ref. Mon. S-63-51 Ref. Mon. S-63-A 364:8 2.562228 35 2.568446 47 54.173 48 27 45 228 27 35 Ref.Mon. C-62 370.2 T.P. 116 19 41 41 T.P. 115 883.4 2.946134 68 22 55.324 186 20 6 23 16 164 16 344 13 18 Ref. Mon. S-64 519.9 2.715883 22 16 301 22 11 Ref.Mon. C-62 175.9 2.245288 47 43.258 121 T.P. 117 19 T.P. 116 2.556507 68 23 37 20 37 59 01.368 200 360.2 16 26 Ref.Mon. S-64 2.496537 301 22 121 22 313.7 26.551 Ref.Mon. C-63-51 222.0 2.346381 104 OS 45 284 08 37 47 T.P. 118 19 34 34 T.P. 117 23 192 47 12 50 528.7 2.723173 06.851 21 47 21 56 Ref. Mon. S-64 520.6 2.716527 43 227 g14 264 48 51 49 OR Ref. Mon. S-65-51 489.7 2.689958 Ref.Mon. C-64 14 907.3 2.957759 16.634 14 209 10 19 29 T.P. 119 357 21 20 T.P. 118 306.6 2.486528 23 06.177 177 21 20 29 14 38 Ref. Mon. S-64 755.1 2.878013 209 14 25 Ref.Mon. S-65-51 2.770250 53 29 589.2 29 233 39 2.895767 2.345125 2.832521 41 51 221 50 51 34 22 Ref. Mon. C-64 47 19 09.971 T.P. 120 21 37 338 T.P. 119 Ref.Mon. S-65-51 02.289 680.5

International boundary line ST. JOHN RIVER

Boundary Turning Points

State -

Maine

CONTRACTOR								1700000			DISTANCE LOGARITHM 583.3 2.765914			
STATION	LATITUDI	UDE TOP		AZIMU			ACK AZ	IMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM			
F.P. 121	47 18 68 22	36.848 53.343	97 121 169 279	56 30 35 20	25 50 36 11	277 301 349 99	56 30 35 20	05 25 29 20	Ref.Mon. C-65-51 Ref.Mon. C-64 T.P. 120 Ref.Mon. S-66-51	583.3 836.0 1040.0 276.3	2.765914 2.922222 3.017040 2.441448			
.P. 122	47 18 68 22	29.470 52.918	117 177 235 300	43 45 14 18	56 15 33 42	297 357 55 120	43 45 14 18	36 15 42 49	Ref.Mon. C-65-51 T.P. 121 Ref.Mon. S-66-51 Ref.Mon. S-67-51	662.8 228.0 321.0 227.1	2.821388 2.357983 2.506541 2.356152			
.P. 123	47 18 68 23	13.037	50 210 231	36 26 30	07 05 54	230 30 51	35 26 31	31 15 11	Ref.Mon. C-66 T.P. 122 Ref.Mon. S-67-51	1329.3 588.6 631.3	3.123633 2.769792 2.800242			
.P. 124	47 18 68 23	04.011 03.885	166 212 293	20 24 33	16 39 36	346 32 113	20 24 33	14 54 54	T.P. 123 Ref.Mon. S-67-51 Ref.Mon. S-68-51	286.9 795.6 542.0	2.457712 2.900675 2.733993			
.P. 125	47 17 68 22	55.797 52.195	76 135 261	55 55 37	45 17 32	256 315 81	54 55 37	58 08 41	Ref.Mon. C-66 T.P. 124 Ref.Mon. S-68-51	1376.3 353.1 253.9	3.138716 2.547861 2.404660			
.P. 126	47 17 68 22	42.517 36.637	16 93 141 170	05 23 26 23	02 43 51 46	196 273 321 350	04 22 26 23	52 45 40 44	Ref.Mon. 139 Ref.Mon. C-66 T.P. 125 Ref.Mon. S-68-51	1113.0 1670.4 524.4 453.4	3.046511 3.222830 2.719692 2.656528			
.P. 127	47 17 68 22	27.512 30.888	35 107 165	18 27 23	10 26 32	215 287 345	17 26 23	55 23 27	Ref.Mon. 139 Ref.Mon. C-66 T.P. 126	742.6 1874.6 478.9	2.870771 3.272913 2.680227			
.P. 128	47 17 68 22	20.134 34.124	43 196 351	40 36 41	45 39 19	223 16 171	40 36 41	33 42 23	Ref.Mon. 139 T.P. 127 Ref.Mon. S-69	523.0 237.8 733.7	2.718491 2.376139 2.865530			
.P. 129	47 17 68 22	14.406	43 223 333	40 40 23	40 40 53	223 43 153	40 40 24	33 45 02	Ref.Mon. 139 T.P. 128 Ref.Mon. S-69	278.4 244.6 614.1	2.444659 2.388446 2.788255			
.P. 130	47 17 68 22	10.412 55.630	130 246 310	40 27 40	51 11 51	310 66 130	40 27 40	06 21 54	Ref.Mon. C-66 T.P. 129 Ref.Mon. 139	1672.6 308.7 119.7	3.223403 2.489568 2.078054			
.P. 131	47 17 68 23	09.391 25.755	68 150 267	02 27 08	58 55 35	248 330 87	02 27 08	48 33 58	Ref.Mon. 140 Ref.Mon. C-66 T.P. 130	314.7 1289.3 633.8	2.497957 3.110349 2.801957			
.P. 132	47 17 68 23	12.259 42.367	164 284 344	30 14 30	02 01 02	344 104 164	29 14 30	52 13 04	Ref.Mon. C-66 T.P. 131 Ref.Mon. 140	1072.2 360.2 214.0	3.030256 2.556503 2.330434			

Province New Brunswick International boundary line ST. JOHN RIVER State Maine Boundary Turning Points LATITUDE AND DISTANCE TO STATION STATION AZIMUTH BACK AZIMUTH LOGARITHM 309 Ref.Mon. C-67 682.6 2.834165 T.P. 133 13.002 129 Og 39 20 68 24 13.214 199 41 19 41 Ref.Mon. C-66 1072.9 3.030572 13 25 01 92 01 272 T.P. 132 648.5 2.811896 28 50 304 45 52 07 Ref.Mon. 142-51 566.7 2.753355 '49 2.502143 T.P. 134 17 16.690 55 39 55 48 Ref.Mon. C-67 175 317.8 40 102 39 2.715596 37.328 282 58 T.P. 133 519.5 59 59 348 23 168 Ref. Mon. S-71A 718.4 2.856351 28 355 49 175 55 51 Ref.Mon. S-71 704.2 2.847685 224 532.4 2.726230 42 44 42 48 Ref.Mon. C-67 T.P. 135 17 14.703 2.604047 12 401.8 56.226 81 13 09 T.P. 134 18 320 19 140 18 Ref .Mon. S-714 836.7 2.922546 38 325 145 06 10 26 Ref.Mon. S-71 781.6 2.892971 54 20 55.189 43 41 2.448665 T.P. 136 16 12 192 Ref.Mon. S-72-54 281.0 59 50 25 230 21 40 Ref.Mon. C-67 1537.5 3.186821 233 19 20 T.P. 135 1009.1 3.003924 02 47 68 153 254 51 06 51 06 52.393 Ref.Mon. C-68 1155.4 3.062745 T.P. 137 16 56 333 38 41 2.499034 25 49.180 T.P. 136 315.5 51 2.484449 307 55 00 127 55 Ref . Mon . S-72-54 08 305.1 966.8 T.P. 138 16 55.128 170 13 38 13 32 Ref.Mon. C-68 2.985350 45 45 45 36 26 T.P. 137 355.1 645.7 2.550335 05.591 283 103 294 Ref .Mon. S-72-54 2.810010 06 17 01.078 137 42 317 58 Ref.Mon. C-69 1862.2 3.270035 T.P. 139 26 16 50 T.P. 138 556.4 2.745368 109 17 08 30.579 289 292 18 07 45 Ref.Mon. S-72-54 1200.6 3.079401 112 18 55.736 3.008480 16 116 25 18 296 24 46 Ref . Mon. 144 1019.7 T.P. 140 26 13 13 218 28 38 66 53 Ref.Mon. C-68 1189.0 3.075183 246 T.P. 139 21 2.612220 409.5 04 101 04 51 Ref . Mon. S-72-54 281 00 1513.7 3.180050 30 07 55.097 57.440 134 04 T.P. 141 16 17 314 30 Ref.Mon. 143 536.6 2.729667 224 26 56 44 08 Ref.Mon. C-68 28 1329.0 3.123512 264 03 32 84 03 39 T.P. 140 190.7 2.280453 164 344 06 Ref.Mon. C-69 1545.5 3.189056 T.P. 142 16 56.981 21 344 164 11.519 43 21 43 18 Ref.Mon. 143 329.6 2.518000 T.P. 141 281 07 23 101 07 33 301.5 2.479354 Ref Mon: S-73 16 16 125.8 2.099636 T.P. 143 17 03.586 11 183 11 25 11 27 32.429 181 46 Ref.Mon. C-69 45 25 1287.2 3.109661 16 Ref.Mon. 144 2.325471 183 11 17 211.6 252 04 58 Ref.Mon. 143 2.568827 05 370.5 11 294 53 114 T.P. 142 484.5 53 09 2.685263

International boundary line ST. JOHN RIVER Province New Brunswick Maine Boundary Turning Points State DISTANCE (METERS) LATITUDE AND TO STATION LOGARITHM STATION AZIMUTH BACK AZIMUTH 644.7 2.809380 47 42 Ref .Mon. S-74-51 241 17 36.938 61 02 T.P. 144 456.2 59 54.311 2.659129 66 11 246 58 56 Ref. Mon. S-74A 27 25 Ref.Mon. C-69 554.9 2.744215 242 14 62 31 42 T.P. 143 3.052283 56 26 155 1127.9 335 2.805821 56 639.5 40.457 49 56 36 229 19 Ref.Mon. S-74-51 17 T.P. 145 26 75 155 43 Ref.Mon. S-75 1622.9 3.210299 27 58.105 27 38 255 335 Ref.Mon. C-70 684.9 2.835638 40 18 30 18 2.771200 255 Ref.Mon. C-69 590.5 27 38 27 58 44 134.8 143 21 T.P. 144 2.129631 323 18 656.7 2.817390 Ref. Mon. S-74-51 191 00 19 48.006 11 00 23 T.P. 146 17 396.9 2.598703 19 23 Ref.Mon. C-70 28 191 19 20 11 15.431 T.P. 145 432.3 2.635764 04 302 37 51 122 38 22 02 Ref. Mon. S-744 520.7 2.715578 357 22 01 177 3.042060 1101.7 Ref.Mon. S-75 16 231 16 17 49.572 51 T.P. 147 14 544.9 2.736314 Ref.Mon. C-70 68 28 31.959 231 16 59 51 17 97 56 07 T.P. 146 350.6 2.544817 277 55 476.1 2.677738 13 Ref. Mon. S-75 202 47 17 41.533 22 11 19 11 T.P. 148 Ref.Mon. 147 135.7 2.132613 29 04.310 202 11 19 22 11 21 57 69 56 21 T.P. 147 723.6 2.859512 249 55 1474.2 3.168542 24 Ref.Mon. C-72 37.752 26.443 138 38 318 38 17 T.P. 149 479.5 2.680757 255 04 75 20 T.P. 148 29 39 Ref.Mon. S-75 431.7 2.635226 38 58 138 OB 318 408.3 2.611008 26 Ref . Mon. S-76-31 37.391 41.874 93 20 41 273 20 T.P. 150 19 297 19 22 Ref.Mon. 151A-39 908.5 2.958343 29 51 T.P. 149 324.4 2.511112 41 268 01 88 01 52 685.1 2.835769 117 10 58 Ref .Mon. S-75 297 10 37 Ref . Mon. S-76-31 240.8 2.381741 269 02 89 03 38.290 T.P. 151 3.013809 22 15 Ref.Mon. 147 1032.3 49.814 21 40 29 257 77 27 48 T.P. 150 169.1 2.228192 27 42 99 279 241 32,4 Ref.Mon. S-77 412.3 2.615208 45.585 61 32 20 17 T.P. 152 14.279 06 207.0 2.316013 142 11 322 Ref. Mon. 1514-39 30 2.749132 T.P. 151 113 39 57 561.2 293 39 39 49 309 59 129 59 58 Ref. Mon. S-76-31 356.7 2.552250 34 24 Ref.Mon. 153 131.7 2.119533 24 359 17 47.184 179 T.P. 153 43 43 367.6 2.565408 22 T.P. 152 30 31.618 277 09 97 34 34 24 179 24 Ref. Mon. S-77 245.9 2.390705 359 477.9 2.679343 55 332 86 41 Ref. Mon. C-73 45.784 152 T.P. 154 644.7 266 09 22 T.P. 153 2.809333 31 00 02.232 26 04 107 26 26 Ref. Mon. S-77 676.1 2.830028 287 2.216824 Ref. Mon. S-78-53 164.7 141 38 35 321 38 32

International boundary line ST. JOHN RIVER Boundary Turning Points

State Maine

nternational boundary line 31. 00114	ALVAL DOUBLETY LAIR	-6-1-2-1-2	State	Province New Brunswick
STATION	LATITUDE AND LONGITUDE	AZIMUTH		O STATION DISTANCE LOGARI
T.P. 155	47 17 40.0	5 127 41 59	307 41 50 Ref.Mon. (319.9 2.505032
	68 31 28.0	8 252 01 09	72 01 29 T.P. 154	571.3 2.756896
	00 72 1311	8 252 01 09 290 17 00	110 17 09 Ref. Mon.	8-79-53 268.5 2.428886
.P. 156	47 17 31.1	4 80 33 45	260 33 19 Ref.Mon.	2-75 745.1 2.872227
,0	47 17 31.1 68 31 50.7	1 239 58 07	59 58 24 T.P. 155	549.3 2.739800
	760 8 7 8 300	4 80 33 45 11 239 58 07 255 57 45	75 58 11 Ref.Mon.	S-79-53 749.8 2.874923
.P. 157	47 17 06.9 68 32 21.5	3 172 00 40	352 00 37 Ref.Mon. 40 48 13 T.P. 156	0-75 633.5 2.801743
	68 32 21.5		40 48 13 T.P. 156	990.2 2.995722
		352 04 01 354 05 45	172 04 02 Ref.Mon.	
		354 05 45	174 05 46 Ref.Mon.	S-81-A 260.6 2.415921
.P. 158	47 17 03.3		317 33 49 Ref.Mon. 54 41 52 T.P. 157	
	68 32 28.8	5 234 41 47	54 41 52 T.P. 157	187.8 2.273710
		309 54 55	129 55 01 Ref.Mon. 133 03 26 Ref.Mon.	S-81-A 234.8 2.370669
		313 03 20	133 03 26 Ref.Mon.	s-81-51 265.0 2.423188
.P. 159	47 16 55.5	8 21 05 08	201 05 04 Ref.Mon.	S-82-52 323.8 2.510247
27	68 33 01.1	7 201 05 08	21 05 17 Ref.Mon.	C-76-52 741.8 2.870300
	22 88 200	250 28 26	70 28 50 T.P. 158	720.9 2.857877
		266 03 48	86 04 18 Ref.Mon.	S-81-51 875.1 2.942076
.P. 160	47 16 56.3 68 33 15.3	0 150 46 20	330 46 07. Ref.Mon. 94 30 16 T.P. 159	
	68 33 15.3	7 274 30 06 330 46 20	94 30 16 T.P. 159	299.6 2.476514
		330 46 20	150 46 26 Ref.Mon.	S-82-52 373.1 2.571850
.P. 161	47 16 59.2 68 33 30.3	58 03 30 174 41 00	238 03 16 Ref.Mon.	
NOT SEED	68 33 30.3	0 58 03 30 174 41 00	354 40 59 Ref.Mon.	
	202 300 0000	236 44 31	56 45 02 Ref. Mon.	
		286 02 31	106 02 43 T.P. 160	328.5 2.516553
.P. 162	47 17 13.6 68 34 20.7	169 46 26	349 46 24 Ref.Mon. 112 41 10 T.P. 161	C-78 321.3 2.506888
2022 2022	68 34 20.7	17 292 40 34	112 41 10 T.P. 161	1148.1 3.059961
		318 24 05	138 24 27 Ref.Mon. 174 24 11 Ref.Mon.	s-83-51 949.6 2.977522
	18-1101	354 24 09	174 24 11 Ref.Mon.	S-84-54 701.4 2.845978
.P. 163	47 17 15.3 68 34 41.2	08 234 44 07	54 44 20 Ref.Mon. 96 53 15 T.P. 162 146 21 45 Ref.Mon.	0-78 457.6 2.660465
	68 34 41.2	276 53 00	96 53 15 T.P. 162 146 21 45 Ref.Mon.	433.8 2.637287
		326 21 28	146 21 45 Ref.Mon.	s -84-54 901.0 2.954705
.P. 164	47 17 13.4 68 34 50.0	2 240 08 01	60 08 21 Ref.Mon.	
	68 34 50.0	253 03 38 315 26 35	73 03 45 T.P. 163 135 26 59 Ref.Mon.	192.5 2.284426
		315 26 35		
		354 01 29	174 01 32 Ref.Mon.	
.P. 165	47 16 49.8 68 35 23.8	14 176 17 44	356 17 43 Ref.Mon. 44 12 43 T.P. 164	
	68 35 23.8	9 224 12 18		1019.7 3.008493
		275 52 39	95 53 07 Ref.Mon.	3-8 5 800.4 2.903305
P.P. 166	47 16 43.5 68 35 27.7	12 82 49 39 12 203 04 52	262 49 15 Ref.Mon.	
and mass	68 35 27.7		23 04 55 T.P. 165 82 50 10 Ref.Mon.	209.2 2.320588
		262 49 39	82 50 10 Ref.Mon.	S-85 885.1 2.947009

Province New Brunswick International boundary line ST. JOHN RIVER Boundary Turning Points Maine State LATITUDE AND DISTANCE (NETERS) STATION AZIMUTH BACK AZIMUTH TO STATION LOGARITHM 26.760 33 14 32 Ref. Mon. C-81-52 1032.6 3.013944 T.P. 167 16 93 273 38 35 34.354 127 39 307 19 Ref.Mon. C-80 706.0 2.848804 194 53 33 T.P. 166 2.730674 00 14 53 04 537.9 14 273 93 33 33 Ref . Mon. S-86 557.0 2.745867 Ref. Mon. C-81-52 806.7 2.906729 T.P. 168 16 12.439 128 308 33 35 18 17 42 18 31 T.P. 167 598.0 2.776711 53.504 222 2.684324 Ref. Mon. S-87-51 483.4 308 51 55 128 52 08 06.541 28 46 Ref.Mon. C-81-52 905.5 2.956871 16 139 319 T.P. 169 34 186.5 2.270624 21 T.P. 168 35 55.403 192 12 21 35 3.092458 319 29 07 139 29 35 Ref.Mon. S-88 1237.3 3.034322 16 00.609 143 38 31 323 38 09 Ref .Mon. C-81-52 1082.2 T.P. 170 45 45 163 38 2.280569 68 35 52.365 37 34 T.P. 169 190.8 368.2 260 18 21 80 18 Ref . Mon. S-87-51 2.566099 716.6 153 48 42 333 48 30 T.P. 170 2.855273 T.P. 171 15 39.787 26 706.6 2.849150 35 47 47 27 Ref.Mon. S-87-51 37.821 183 104 46 448.9 284 02 Ref.Mon. S-88 2.652187 17 31.449 47 Ref. Mon. S-87-51 964.6 2.984356 183 T.P. 172 47 35 25 3 47 26 T.P. 171 258.1 2.411719 38.632 183 252 23 72 24 39 Ref. Mon. S-88 473.3 2.675144 2.845004 15 35 40 27 Ref. Mon. C-82 699.8 22.067 71 40 51 251 T.P. 173 33 47.673 213 15 56 16 02 T.P. 172 346.5 2.539765 58 52 59 14 235 Ref. Mon. S-88 773.7 2.888553 04 25 265 04 Ref. Mon. C-82 389.5 2.590457 15 16.026 85 11 T.P. 174 333.4 235 58 55 58 52 T.P. 173 2.523002 00.816 58 55 59 14 235 42 Ref Mon. S-88 1107.1 3.044185 37 41 Ref.Mon. C-82 58.422 37 511.7 2.709003 14 175 03 N.E. Bridge Tablet d.m. 36 T.P. 174 646.0 212 31 32 2.810227 Clair-Fort Kent, 1931; r. 1951 17.411 26 227 06 26 51 Ref. Mon. S-88 1719.5 3.235413 44 176 12 356 12 43 Ref. Mon. C-82 518.8 2.715031 14 58.178 S.W. Bridge Tablet d.m. 32 32 47 36 41 41 44 T.P. 174 654.9 2.816188 Clair-Fort Kent, 1931; r. 1951 17.640 212 31 212 41 31 41 31 N.E. Bridge Tablet 8.93 0.950754 227 21 35 22 20 Ref. Mon. S-88 1728.2 3.237589 44 14 57.342 89 47 57 269 47 Ref.Mon. C-83-51 382.8 2.582927 T.P. 175 36 18.428 OB 358 08 Ref.Mon. C-82 543.8 2.735462 178 OB 32 41 41 44 T.P. 174 685.6 2.836085 212 31 212 41 31 41 31 S.W. Bridge Tablet 30.7 1.487167 358 OB 08 178 08 OB Ref. Mon. S-90-51 521.8 2.717507 Ref.Mon. S-91 1056.4 14 49.017 147 23 30 23 11 3.023841 212 T.P. 176 41 36 Ref. Mon. C-83-51 2.480835 38 327 41 33 302.6 28.940 220 41 19 40 41 27 T.P. 175 339.1 2.530275 318 00 21 138 00 29 Ref. Mon. S-90-51 355.€ 2.551199

International boundary line ST. JOHN RIVER Boundary Turning Points State Maine Province New Brunswick

STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
T.P. 177	47 14 36.019 68 37 04.915	164 31 38 242 02 45 338 45 21	344 31 35 62 03 11 158 45 28	Ref.Mon. C-84-51 T.P. 176 Ref.Mon. S-91	389.2 856.5 526.4	2.590226 2.932724 2.721321
T.P. 178	47 14 31.690 68 37 33.546	27 39 32 138 50 53 224 23 54 257 28 46	207 39 24 318 50 44 44 24 12 77 29 07	Ref.Mon. S-92 Ref.Mon. C-85-51 Ref.Mon. C-84-51 T.P. 177	514.3 380.4 712.2 616.8	2.711244 2.580197 2.852593 2.790163
T.P. 179	47 14 31.460 68 37 45.229	179 06 22 268 20 47 359 06 22	359 06 22 88 20 56 179 06 23	Ref.Mon. C-85-51 T.P. 178 Ref.Mon. S-92	293.5 245.8 448.5	2.467636 2.390646 2.651791
T.P. 180	47 14 32.288 68 38 08.271	133 57 20 273 01 05 313 57 20	313 57 13 93 01 22 133 57 38	Ref.Mon. C-26 T.P. 179 Ref.Mon. S-92	289.3 485.3 682.9	2.461369 2.685980 2.834377
T.P. 181	47 14 26.473 68 38 26.820	130 05 56 205 32 44 245 16 35 301 54 51	310 05 36 25 32 50 65 16 48 121 55 03	Ref.Mon. C-87 Ref.Mon. C-86 T.P. 180 Ref.Mon. S-93-51	756.2 421.6 429.5 427.6	2.878631 2.624944 2.632938 2.630991
T.P. 182	47 14 22.021 68 38 48.464	168 50 16 253 11 37 348 50 16	348 50 12 73 11 53 168 50 17	Ref.Mon. C-87 T.P. 181 Ref.Mon. S-94-52	636.6 475.6 157.0	2.803844 2.677200 2.195878
T.P. 183	47 14 21.252 68 39 13.014	31 13 38 211 13 38 267 21 39 283 23 46	211 13 31 31 13 52 87 21 57 103 24 05	Ref.Mon. S-95 Ref.Mon. C-87 T.P. 182 Ref.Mon. S-94-52	395.0 758.2 516.9 562.0	2.596629 2.879760 2.713397 2.749766
T.P. 184	47 14 19.778 68 39 21.360	5 42 44 96 41 14 255 27 57 276 41 14	185 42 43 276 40 46 75 28 03 96 41 39	Ref.Mon. S-95 Ref.Mon. 155 T.P. 183 Ref.Mon. S-94-52	293.7 807.4 181.4 727.2	2.467977 2.907110 2.258520 2.861681
T.P. 185	47 14 13.045 63 39 30.072	118 42 45 221 23 24 298 42 45	298 42 39 41 23 30 118 42 50	Ref.Mon. 154 T.P. 184 Ref. Mon. S-95	182.5 277.2 175.6	2.261287 2.442716 2.244549
T.P. 186	47 14 09.928 68 39 37.312	177 34 06 177 34 06 237 41 55	357 34 05 357 34 06 57 42 01	Ref.Mon. C-88-52 Ref.Mon. 154 T.P. 185	1023.9 184.1 180.1	3.010253 2.265059 2.255603
T.P. 187	47 14 10.486 68 39 49.382	55 53 01 235 53 01 273 53 05	235 52 32 55 53 10 93 53 14	Ref.Mon. S-96-52 Ref.Mon. 154 T.P. 186	1024.7 297.2 254.5	3.010606 2.473059 2.405622
T.P. 188	47 14 17.235 68 40 04.945	33 37 55 170 10 52 213 37 55 302 28 39	213 37 37 350 10 49 33 37 59 122 28 50	Ref.Mon. S-96-52 Ref.Mon. C-89 Ref.Mon. 155 T.P. 187	940.6 596.2 207.2 388.1	2.973411 2.775427 2.316396 2.588905

International boundary line ST. JOHN RIVER

Boundary Turning Points

State Maine

International boundary line		truing Foints	State _	Meine	Province New Brunswick
STATION	LATITUDE AND LONGITUDE	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE LOGARITHM
T.P. 189	47 14 32.2 68 40 31.7	9 74 59 57	254 58 56 75 00 13 129 30 25	Ref.Mon. 8-97 Ref.Mon. C-89 T.P. 188	1802.4 3.255848 477.3 2.678811 729.4 2.862952
T.P. 190	47 14 34.9 68 40 47.9	125 23 44 7 267 00 31 283 25 03	305 23 12 87 00 59 103 25 15	Ref.Mon. C-90 Ref.Mon. C-89 T.P. 189	1106.0 3.043761 804.2 2.905375 351.7 2.546142
T.P. 191	47 14 34.2 68 41 05.56	6 62 48 19 141 06 31 267 00 12	242 47 43 321 06 12 87 00 25	Ref.Mon. S-97 Ref.Mon. C-90 T.P. 190	1157.4 847.8 3.063502 2.928311 369.8 2.568002
T.P. 192	47 14 39.74 68 41 15.66	9 146 51 26 9 308 36 34 326 51 26	326 51 15 128 36 42 146 52 00	Ref.Mon. C-90 T.P. 191 Ref.Mon. S-96-52	585.9 2.767822 271.3 2.433471 1766.0 3.246989
T.P. 193	47 14 37.66 68 41 32.00		216 39 29 79 33 15 137 12 27	Ref.Mon. S-97 T.P. 192 Ref.Mon. S-96-52	791.3 2.898335 350.8 2.545025 1928.7 3.285261
T.P. 194	47 14 33.0 68 41 44.66	5 22 41 13 6 202 41 13 241 50 30	202 41 06 22 41 23 61 50 39	Ref.Mon. S-97 Ref.Mon. C-90 T.P. 193	533.2 2.726908 755.4 2.878195 302.6 2.480874
T.P. 195	47 14 17.74 68 42 10.00	9 93 22 33 3 228 24 06 273 22 33	273 22 01 48 24 24 93 22 44	Ref.Mon. S-98-52 T.P. 194 Ref.Mon. S-97	905.9 712.0 2.852484 327.4 2.515079
T.P. 196	47 14 15.77 68 42 23.09	4 192 27 44 8 256 58 42 265 47 46	12 27 53 76 58 52 85 48 07	Ref.Mon. C-91 T.P. 195 Ref Mon. S-97	1175.1 3.070063 281.6 2.449670 602.8 2.780200
T.P. 197	47 14 18.70 68 42 33.39		273 22 01 93 22 44 93 22 33 113 02 18	Ref.Mon. S-98-52 Ref.Mon. S-97 T.P. 195 T.P. 196	413.3 820.0 492.6 2.692494 236.2 2.692494 2.373286
T.P. 198	47 14 21.65 68 42 35.97		259 27 36 279 02 42 99 03 48 149 05 57	Ref.Mon. S-98-52 Ref.Mon. 158 Ref.Mon. S-97 T.P. 197	364.3 2.561475 1025.1 3.010773 884.0 2.946459 106.0 2.025133
T.P. 199	47 14 24.88 68 42 46.22		220 35 57 40 36 28 114 50 57	Ref.Mon. S-98-52 Ref.Mon. C-91 T.P. 198	219.2 2.340840 1138.3 3.056257 237.5 2.375668
T.P. 200	47 14 26.87 68 42 57.00	5 159 39 25 6 285 08 47 339 39 25	339 39 23 105 08 55 159 39 28	Ref.Mon. 156 T.P. 199 Ref.Mon. S-98-52	163.6 2.213672 235.3 2.371670 243.1 2.385760
T.P. 201	47 14 25.97 68 43 03.12		21 31 09 77 45 33 133 14 09	Ref.Mon. 156 T.P. 200 Ref.Mon. S-98-52	194.8 2.289521 131.3 2.118230 292.1 2.465535

International boundary line ST. JOHN RIVER Boundary Turning Points _ Province New Brunswick Maine State LATITUDE AND DISTANCE (METERS) STATION AZIMUTH BACK AZIMUTH TO STATION LOGARITHM 16.942 334 65 T.P. 202 23 1.704365 50 50 22 Ref.Mon. 159A 50.6 08 09 68 43 31.746 245 08 663.4 30 T.P. 201 2.821802 154 334 50 23 50 23 Ref.Mon. 159B 1.461978 29.0 T.P. 203 14 10,705 100 38 31 280 38 14 Ref.Mon. 160 2.707865 510.3 68 43 42.312 05 03 49 05 229 11 T.P. 202 294.1 2.468483 280 38 31 100 38 45 2.623804 Ref. Mon. S-99 420.5 T.P. 204 47 14 08.208 37 07 36 56 Ref.Mon. 160 2.567801 117 369.7 246 50.586 05 45 05 51 T.P. 203 2.279581 190.4 270 03 00 90 03 20 Ref Mon. S-99 2.768890 587.3 T.P. 205 47 14 45 45 08.226 21 Ref.Mon. 162 211 15 358.9 2.555021 LL 174 68 354 05.306 00 53 00 53 Ref Mon. 160 2.234764 171.7 45 21 45 211 31 35 Ref.Mon. 159 2.875745 751.2 06 90 06 270 32 T.P. 204 309.6 2.490862 T.P. 206 47 68 13 59.935 118 09 59 298 09 50 Ref.Mon. 161 292.8 2.466573 74 25 18.651 227 37 37 T.P. 205 379.9 2.579708 09 298 59 10 02 118 Ref.Mon. 162 104.1 2.017451 45 T.P. 207 47 30 45 51.795 22 Ref.Mon. S-100 807.7 2.907265 163 343 37.603 05 52 Ref. Mon. C-94 3.104152 1271.0 50 199 50 08 19 Ref.Mon. 161 13 414.2 2.617195 237 57 02 T.P. 206 471.3 2.673329 57 T.P. 208 34.568 118 37 298 57 Ref.Mon. 0-95 07 2.987599 971.8 45 09.103 231 20 51 43 T.P. 207 849.8 2.929314 298 57 37 118 57 52 Ref .Mon. 9-100 506.7 2.704772 27.446 T.P. 209 146 22 59 22 43 13 326 Ref .Mon. C-95 829.1 2.918623 27.704 240 39 39 60 39 53 T.P. 208 44g.9 2.652147 326 22 59 146 23 05 Ref.Mon. S-101 2.470878 295.7 T.P. 210 31 13 19.268 23 185 31 22 Ref .Mon. S-102 187.5 2.273008 45 53.859 185 31 23 31 26 Ref Mon. C-95 947.4 2.976540 245 20 65 T.P. 209 38 20 57 605.5 2.782108 30 05 30 05 T.P. 211 16.173 27 Ref.Mon. 8-103-51 1007.8 3.003356 106 10.060 35 286 09 Ref . Mon. 1634-31 771.8 2.887488 254 20 00 74 20 12 T.P. 210 354.0 2.549018 285 54 105 05 Ref . Mon. 3-102 335.4 2.525582 T.P. 212 15.696 36 26 40 33 16 220 Ref.Mon. 163A-31 301.1 2.478765 54.622 05 06 269 43 89 T.P. 211 937 - 7 2.972054 351 18 19 171 18 21 Ref. Mon. 9-103-51 517.6 2.713986 55.426 T.P. 213 12 1 03 51 181 03 51 Ref.Mon. 165 375.9 2.575080 17.225 181 03 51 Ref.Mon. C-98 51 324.9 2.511758 250 10 58 70 11 59 T.P. 212 1847.4 3.266560

International boundary line ST. JOHN RIVER Province New Brunswick Boundary Turning Points State -LATITUDE AND DISTANCE STATION AZIMUTH BACK AZIMUTH TO STATION LOGARITHM (METERS) 54.515 T.P. 214 16 196 56 Ref.Mon. 167 174.3 2.241387 237 267 68 20 11 57 Ref.Mon. C-98 20 30 654.1 2.815633 43 545.4 02 24 87 02 T.P. 213 2.736688 34 296 21 21 42 116 Ref . Mon. 166 255.7 2.407647 48.458 47 264 12 Ref.Mon. C-99 T.P. 215 21 759.1 2.880288 236 20 56.456 11 56 20 T.P. 214 21 337.5 2.528223 59 59 55 Ref.Mon. 167 231.3 2.364223 626.4 T.P. 216 40.221 28 48 27 12 107 287 28 Ref.Mon. C-99 2.796867 49 57 T.P. 215 299.8 03.997 211 31 57 30 2.476866 29 287 107 03 Ref.Mon. 168 461.0 2.663692 35 35 25 T.P. 217 12 25.895 15 188 13 Ref.Mon. 169 296.1 2.471437 35 49 36.916 188 15 Ref.Mon. C-99 2.804616 18 637.7 T.P. 216 237 59 57 23 2.914863 822.0 57 09 34 50 T.P. 218 12 14,001 165 345 46 Ref. Mon. C-100-51 356.6 579941 2.552207 49 226 530.3 55.089 40 T.P. 217 2.724493 257 340 32 77 43 Ref. Non. 169 2.539538 160 02 443.6 Ref.Mon. S-106-52 2.646991 56 33 10 36 06 47 05.266 Ref . Mon. C-101 T.P. 219 12 103 33 283 604.7 2.781557 09 33 68 50 17.438 240 T.P. 218 542.2 2.734188 34 283 103 18 634.7 Ref . Mon. S-106-52 2.802586 330 63 24 T.P. 220 11 58.867 150 31 31 Ref.Mon. C-101 2.590959 389.9 50 36.253 243 28 41 28 54 T.P. 219 442.6 2.646002 330 31 31 150 31 36 Ref . Mon. S-107 2.458644 287.5 44 54 23 T.P. 221 11 46.397 78 44 Ref .Mon. C-103 920.8 2.964183 09 18 14 51 112 07 292 54 08 408.5 01.730 Ref.Mon. C-102 2.611158 234 14 T.P. 220 19 660.2 2.819672 258 78 45 18 Ref.Mon. S-107 691.0 2.839480 14 T.P. 222 11 40.651 50 269 50 89 Ref.Mon. C-103 828.1 2,918099 3243 51 21 3254 05.293 137 317 10 Ref. Mon. C-102 449.3 2.652529 202 52 22 54 T.P. 221 192.6 2.284764 317 21 137 32 25 Ref. Mon. 3-108-52 193.3 2.286225 25.119 144 49 16 324 49 05 T.P. 223 Ref .Mon. 0-103 584.1 2.766476 11 51 225 42 45 42 26 686.9 28.648 08 T.P. 222 2.836886 324 49 16 144 49 19 Ref.Mon. S-109 2.146426 140.1 42 14 T.P. 224 20.577 86 15 266 Ref .Mon. 0-105 11 1390.7 3.143223 43.517 142 33 51 09 322 32 59 Ref. Mon. C-104 511.7 2.708996 245 266 52 65 07 T.P. 223 343.0 18 2.535302 42 15 56 Ref . Mon. S-109 394.6 2.596147 T.P. 225 11 19.969 39 184 39 52 Ref . Mon. S-110 461.6 2.664276

51

59.944

184

266

39

53

54

25

55

Ref. Mon. C-104

T.P. 224

426.4

346.3

2.629827

2.539483

39

53

86

International boundary line ST. JOHN RIVER

Boundary Turning Points

State Maine

STATION	LATITUDE AND	AZIMUTH	BACK AZIMUTH	TO STATION	DISTANCE (METERS)	LOGARITHM
	• ' '		• ' -			
T.P. 226	47 11 20.545	82 22 21	262 21 58	Ref.Mon. C-105	676.5	2.830278
	47 11 20.545 68 52 17.583	272 44 22	92 44 36 145 03 52	T.P. 225	371.8	2.570278
		325 03 40	145 03 52	Ref.Mon. S-110	582.3	2.765605
M P 227	47 11 14.023	111 07 17	291 07 07	Ref.Mon. C-105	309.7	2.490951
T.P. 227	47 11 14.023 68 52 35.710	242 10 22	62 10 35	T.P. 226	431.5	2.635006
	00 92 991123	291 07 17	111 07 42	Ref.Mon. S-110	767.0	2.884806
an and contain			250 57 74	D. C. W	716 0	2.855400
T.P. 228	47 10 53.306 68 52 57.459	79 53 58 92 58 03	259 53 34 272 57 46 20 36 33	Ref.Mon. 173 Ref.Mon. C-106	716.8 494.8	2.694407
	00 92 911.439	200 36 29	20 36 33	Ref.Mon. 170-51	323.5	2.509934
		223 13 54	43 20 10	T.P. 227	323.5 667.3	2.824297
		259 53 58	79 54 39	Ref.Mon. S-110	1191.9	3.076230
T.P. 229	47 10 59.249	46 34 16	226 34 09	Ref.Mon. 171	278.4	2,444655
1.1. 667	68 53 05.786	89 22 10	269 21 59	Ref. Mon. C-106	318.8	2.503555
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	226 34 16	46 34 26	Ref.Mon. C-170-51	398.2	2.503555
		279 25 40	99 25 46	T.P. 228	177.7	2.249699
T.P. 230	47 10 55.151	15 52 15	195 52 11	Ref.Mon. 172	380.6	2.580482
250	68 53 22.588	195 52 15	15 52 16	Ref.Mon. C-106	127.9	2.106884
		250 19 01	70 19 13	T.P. 229	375 . 7	2.5714887
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We certify that the foregoing is a true record of the work done by the Commissioners from 1925 to 1955 inclusive, on the maintenance of the International Boundary Line between Canada and the United States of America, between the Source of the St. Croix River and the Mouth of the St. Francis River, and that the tables and descriptions submitted herein show the true locations and geodetic positions of all additional monuments and marks established in this period, in accordance with 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.

JER Ross

J.E.R. Ross Canadian Commissioner

Samuel L. Golan

United States Commissioner

Washington March 23, 1956

ERRATA

- Page 47 line 5 for job read jog Page 49 line 1 for job read jog
- Page 50 line 1 for Monument 57 read Monument 57-52
- Page 59 line 43 R.M. S-25 should read S-25-52 Page 63 line 38 R.M. S-34 should read S-34-52
- Page 66 line 18 R.M. 128-51 delete -51
- Page 67 line 17 R.M. 130-51 delete -51
- Page 71 line 29 R.M. 134A delete F.H.B., 1917, and add J.H., H.S.M., 1931
- Page 80 line 32 R.M. 151A-39 add Tablet marked 151B, and 1939
- Page 84 line 1 R.M. C-82 insert G.C.R.1910 after New Brunswick
- Page 95 line 28 delete Maine add N.B. (Ledges) line 30 for Connor read Connors
- Page 16 line 7 for "Park Hill" read "Parke"