

SPECIAL REPORT No. 10

INTERNATIONAL BOUNDARY COMMISSION

GEOGRAPHICAL POSITION OF BOUNDARY MONUMENTS ON THE NORTH
AMERICAN DATUM OF 1983 DEFINING THE INTERNATIONAL BOUNDARY
BETWEEN THE UNITED STATES AND CANADA

141st MERIDIAN FROM THE ARCTIC OCEAN TO MOUNT ST. ELIAS

(Alaska/Yukon)



Washington/Ottawa
2026

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INTRODUCTION

Article IV of the Treaty of Washington, February 24, 1925, provides for “the maintenance of an effective line” between Canada and the United States. The article further stipulates that:

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

This joint report is the tenth in a series of special publications that provide revised or supplementary information on the geographic positions of boundary monuments, turning points, reference marks, and control stations that define the location of a section of the boundary between Canada and the United States.

Additional to this report is a series of forty (40) updated maps showing the boundary demarcation.



INTERNATIONAL BOUNDARY COMMISSION
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**THE 141st MERIDIAN
FROM THE ARCTIC OCEAN TO MOUNT ST. ELIAS**

The 1,045-kilometer (650-mile) section of the 141st Meridian Boundary between the State of Alaska (United States) and the Yukon Territory (Canada) was established between 1906 and 1913. The original survey established control and projected the line from the Yukon River and established boundary monuments and triangulation networks that were used to map a 6-kilometer (4-mile) strip along the entire length of the boundary. A total of 202 original monuments and 600 kilometers (373 miles) of cleared vista marks the boundary line.

The original description of this section can be found in the Report of the Establishment of the Boundary between the United States and Canada – Arctic Ocean to Mount St. Elias, published in 1918 by the provisions of Article IV of the Convention signed in Washington on April 21, 1906.



Figure 1 - Location of the 141st Meridian from the Arctic Ocean to Mount St. Elias



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NAD 83 REFERENCE FRAME

The evolution of knowledge about the shape and geometry of the terrestrial globe has led to a redefinition of the reference frames to support an Earth-centered, geographical coordinate system (latitudes and longitudes) used to locate objects on the Earth's surface. The current reference system, adopted as a national georeferencing standard by the United States and Canada, is the North American Datum of 1983 (NAD83). In contrast, the original datum used to describe the 141st was on the Yukon Datum. Subsequently, the National Geodetic Survey readjusted the data in 1966 on the North American Datum of 1927 (NAD27)¹ and was published by the Commission as Special Report No. 4. From 2015 to 2017, the Commission inspected and surveyed all the monuments using GNSS technology on a modern NAD83, epoch 2010.0².

¹ Report International Boundary Commission, Revision on the NAD27 Datum, Special Report 4, 1966

² Technical Report – Section 29, 141st Meridian (AK/YK), NAD83, 2025



INTERNATIONAL BOUNDARY COMMISSION
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REQUIREMENT FOR MORE SURVEYS TO CONFIRM THE STABILITY OF ORIGINAL MONUMENTS

This special report confirms the official position of the boundary monuments that defines and demarcates the International Boundary between Canada and the United States of America. The Commissioners have observed that the geographical position of some original monuments is outside the circle of expected accuracy. There is some scientific evidence that monuments have moved as a result of human activity or potentially changing soil conditions such as landslips and ground movement caused by thawing permafrost, especially in northern and high latitude regions where permafrost is known to occur.

The Commissioners have agreed to carry out additional surveys of suspected monuments to ascertain their stability. Should these surveys reveal that some of the monuments are not stable or have moved over time, the Commissioners will need to determine the appropriate course of action. The suspected monuments are identified by an Asterisk (*) in Appendix A.



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UPDATED MAPS

A series of maps, numbered H-1 to H-39, is attached to this report and forms a visual representation of the boundary and is an integral part of this report. Maps are produced at the same scale and using the same map extent as those published in 1918, to simplify their management. Base mapping comes from ortho-imagery prepared from aerial photography.



Figure 2 – Map extents



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CERTIFICATION STATEMENT

We certify that the foregoing is an accurate record of the work done by the Commissioners on the maintenance of the International Boundary Line between Canada and the United States of America, and that the table herein submitted describes the true geodetic position of all monuments and boundary points, in accordance with the provisions of Article IV of the Treaty between the United States of America and His Britannic Majesty in respect of Canada signed at Washington, February 24, 1925.

The geographical description of the International Boundary, in terms of latitude, longitude, azimuth, and distance, represents the physical location of the boundary. All boundary monuments, boundary points, and reference marks used to define the boundary prior to the adoption of the NAD83 Datum and that remain unchanged from their original locations, continue to define the boundary. The small differences between the geodetic azimuths and ellipsoid distances in this report compared to the original data are a result of higher precision measurements as well as datum conversion. There is no resulting change in geometry or territorial sovereignty at any point along the boundary. The attached Appendix A lists the positions on the NAD83 Datum Epoch 2010.0 as surveyed.

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Moore, Jr
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John T. Moore, Jr
Acting United States Commissioner

Digitally signed by Gingras,
Martin
Date: 2026.07.09 15:43:48
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Martin Gingras
Canadian Commissioner





INTERNATIONAL BOUNDARY COMMISSION
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APPENDIX A

GEOGRAPHICAL POSITION OF BOUNDARY MONUMENTS ON THE NORTH
AMERICAN DATUM OF 1983 DEFINING THE INTERNATIONAL BOUNDARY
BETWEEN CANADA AND THE UNITED STATES

141st MERIDIAN

(Alaska/Yukon)



Monument	Latitude and Longitude			Azimuth	Back Azimuth	To Monument	Distance (meters)
Site of Monument 1 (Cetera of the Boundary)	N	69° 38'	47.81"	180° 02' 37.4"	0° 02' 37.4"	Monument 1-83	80.29
	W	141° 00'	02.10"				
Monument 1-83	N	69° 38'	45.215"	179° 36' 51.6"	359° 36' 51.6"	Monument 1A	7.56
	W	141° 00'	02.109"				
Monument 1A	N	69° 38'	44.971"	180° 00' 22.7"	0° 00' 22.7"	Monument 2	6196.23
	W	141° 00'	02.104"				
Monument 2	N	69° 35'	25.016"	180° 00' 25.5"	0° 00' 25.4"	Monument 3	6569.34
	W	141° 00'	02.168"				
Monument 3	N	69° 31'	53.019"	180° 00' 21.3"	0° 00' 21.2"	Monument 4	6208.89
	W	141° 00'	02.242"				
Monument 4 (Et of the Boundary)	N	69° 28'	32.653"	180° 00' 25.7"	0° 00' 25.6"	Monument 5	6346.75
	W	141° 00'	02.301"				
Monument 5 (Z1 of the Boundary)	N	69° 25'	07.837"	180° 00' 25.7"	0° 00' 25.6"	Monument 6	3832.45
	W	141° 00'	02.374"				
Monument 6	N	69° 23'	04.158"	180° 00' 08.8"	0° 00' 08.8"	Monument 7	3348.21
	W	141° 00'	02.417"				
Monument 7	N	69° 21'	16.107"	180° 00' 27.4"	0° 00' 27.4"	Monument 8	6151.36
	W	141° 00'	02.431"				
Monument 8 (Y1 of the Boundary)	N	69° 17'	57.593"	180° 00' 22.1"	0° 00' 22.1"	Monument 9	5025.12
	W	141° 00'	02.505"				
Monument 9	N	69° 15'	15.424"	180° 00' 25.0"	0° 00' 24.9"	Monument 10	5333.85
	W	141° 00'	02.554"				
Monument 10	N	69° 12'	23.291"	180° 00' 17.4"	0° 00' 17.4"	Monument 11	3629.23
	W	141° 00'	02.613"				
Monument 11	N	69° 10'	26.168"	180° 00' 24.0"	0° 00' 24.0"	Monument 12	2613.82
	W	141° 00'	02.641"				
Monument 12 (X1 of the Boundary)	N	69° 09'	01.814"	180° 00' 29.1"	0° 00' 29.0"	Monument 13	2619.24
	W	141° 00'	02.668"				
Monument 13	N	69° 07'	37.285"	180° 00' 21.4"	0° 00' 21.3"	Monument 14	6387.92
	W	141° 00'	02.702"				
Monument 14	N	69° 04'	11.132"	180° 00' 17.8"	0° 00' 17.8"	Monument 15	4403.88
	W	141° 00'	02.761"				
Monument 15	N	69° 01'	49.007"	180° 00' 18.1"	0° 00' 18.1"	Monument 16	2811.67
	W	141° 00'	02.796"				
Monument 16	N	69° 00'	18.267"	180° 00' 22.0"	0° 00' 21.9"	Monument 17	6098.28
	W	141° 00'	02.818"				
Monument 17 (W1 of the Boundary)	N	68° 57'	01.458"	180° 00' 15.3"	0° 00' 15.3"	Monument 18	5223.30
	W	141° 00'	02.876"				

* Monument is suspected of movement.

Monument	Latitude and Longitude	Azimuth	Back Azimuth	To Monument	Distance (meters)
Monument 18	N 68° 54' 12.886" W 141° 00' 02.911"	180° 00' 19.5"	0° 00' 19.4"	Monument 19	6464.25
Monument 19	N 68° 50' 44.264" W 141° 00' 02.966"	180° 00' 16.6"	0° 00' 16.5"	Monument 20	3812.53
Monument 20 (V1 of the Boundary)	N 68° 48' 41.221" W 141° 00' 02.993"	180° 00' 18.3"	0° 00' 18.2"	Monument 21	6878.25
Monument 21	N 68° 44' 59.235" W 141° 00' 03.047"	180° 00' 16.9"	0° 00' 16.8"	Monument 22	3161.53
Monument 22 (U1 of the Boundary)	N 68° 43' 17.200" W 141° 00' 03.070"	180° 00' 07.3"	0° 00' 07.2"	Monument 23	4925.04
Monument 23	N 68° 40' 38.250" W 141° 00' 03.085"	180° 00' 20.5"	0° 00' 20.5"	Monument 24	4833.77
Monument 24	N 68° 38' 02.245" W 141° 00' 03.128"	179° 59' 53.8"	359° 59' 53.8"	Monument 25*	5126.56
Monument 25*	N 68° 35' 16.789" W 141° 00' 03.114"	180° 01' 16.6"	0° 01' 16.5"	Monument 26	3497.04
Monument 26 (T1 of the Boundary)	N 68° 33' 23.924" W 141° 00' 03.229"	180° 00' 09.5"	0° 00' 09.5"	Monument 27	6032.14
Monument 27	N 68° 30' 09.239" W 141° 00' 03.253"	180° 00' 22.2"	0° 00' 22.1"	Monument 28	7298.31
Monument 28	N 68° 26' 13.687" W 141° 00' 03.322"	179° 59' 51.7"	180° 00' 51.1"	Monument 29*	5286.48
Monument 29* (5.2 m north of S1 of the Boundary)	N 68° 23' 23.066" W 141° 00' 03.304"	180° 00' 51.1"	0° 00' 51.0"	Monument 30	4240.51
Monument 30	N 68° 21' 06.202" W 141° 00' 03.395"	179° 59' 35.5"	359° 59' 35.5"	Monument 31*	4496.35
Monument 31*	N 68° 18' 41.081" W 141° 00' 03.349"	180° 00' 26.5"	0° 00' 26.4"	Monument 32-73	10250.22
Monument 32-73	N 68° 13' 10.249" W 141° 00' 03.463"	179° 59' 30.6"	359° 59' 30.6"	Site of Monument 32	41.17
Site of Monument 32	N 68° 13' 08.92" W 141° 00' 03.46"	179° 59' 50.3"	359° 59' 30.3"	Monument 33	140.00
Monument 33	N 68° 13' 04.402" W 141° 00' 03.461"	180° 00' 43.4"	0° 00' 43.3"	Monument 34	3478.36
Monument 34	N 68° 11' 12.135" W 141° 00' 03.525"	180° 00' 07.7"	0° 00' 07.6"	Monument 35	4443.91
Monument 35	N 68° 08' 48.703" W 141° 00' 03.539"	180° 00' 17.3"	0° 00' 17.3"	Monument 36	5778.47

* Monument is suspected of movement.

Monument	Latitude and Longitude	Azimuth	Back Azimuth	To Monument	Distance (meters)
Monument 36	N 68° 05' 42.196" W 141° 00' 03.581"	180° 00' 21.3"	0° 00' 21.3"	Monument 37	5273.09
Monument 37	N 68° 02' 52.000" W 141° 00' 03.628"	179° 59' 42.7"	359° 59' 42.7"	Monument 38	726.37
Monument 38 (114.7 m south of R1 of the Boundary)	N 68° 02' 28.555" W 141° 00' 03.623"	180° 00' 13.9"	0° 00' 13.8"	Monument 38A	7666.24
Monument 38A	N 67° 58' 21.115" W 141° 00' 03.667"	180° 00' 12.6"	0° 00' 12.6"	Site of Monument 39	1551.71
Site of Monument 39	N 67° 57' 31.03" W 141° 00' 03.68"	180° 00' 14.2"	0° 00' 14.2"	Monument 39-84	6.78
Monument 39-84	N 67° 57' 30.812" W 141° 00' 03.675"	180° 00' 22.8"	0° 00' 22.8"	Monument 40	6057.45
Monument 40	N 67° 54' 15.296" W 141° 00' 03.733"	180° 00' 25.3"	0° 00' 25.3"	Monument 41	4859.21
Monument 41	N 67° 51' 38.455" W 141° 00' 03.784"	180° 00' 04.5"	0° 00' 04.5"	Monument 42	3958.88
Monument 42	N 67° 49' 30.673" W 141° 00' 03.791"	179° 59' 17.1"	359° 59' 17.2"	Monument 43*	4091.96
Monument 43*	N 67° 47' 18.595" W 141° 00' 03.718"	180° 00' 47.6"	0° 00' 47.5"	Monument 44	6369.31
Monument 44 (21.2 m north of Q1 of the Boundary)	N 67° 43' 53.009" W 141° 00' 03.843"	180° 00' 01.5"	0° 00' 01.5"	Monument 45	1760.47
Monument 45	N 67° 42' 56.185" W 141° 00' 03.845"	180° 00' 08.1"	0° 00' 08.1"	Monument 46	6380.66
Monument 46	N 67° 39' 30.231" W 141° 00' 03.866"	180° 00' 21.3"	0° 00' 21.2"	Monument 46A	6663.83
Monument 46A	N 67° 35' 55.135" W 141° 00' 03.924"	180° 00' 21.8"	0° 00' 21.8"	Monument 47	3435.24
Monument 47 (2.7 m north of P1 of the Boundary)	N 67° 34' 04.251" W 141° 00' 03.955"	180° 00' 04.2"	0° 00' 04.2"	Monument 47A	5832.61
Monument 47A	N 67° 30' 55.983" W 141° 00' 03.965"	180° 00' 19.8"	0° 00' 19.8"	Monument 48	2346.53
Monument 48	N 67° 29' 40.240" W 141° 00' 03.984"	180° 00' 17.1"	0° 00' 17.1"	Monument 48A	3727.76
Monument 48A	N 67° 27' 39.913" W 141° 00' 04.010"	180° 00' 12.0"	0° 00' 12.0"	Monument 49	860.13

* Monument is suspected of movement.

Monument	Latitude and Longitude	Azimuth	Back Azimuth	To Monument	Distance (meters)
Monument 49	N 67° 27' 12.149" W 141° 00' 04.014"	180° 00' 17.2"	0° 00' 17.2"	Monument 49A	2911.93
Monument 49A	N 67° 25' 38.155" W 141° 00' 04.034"	179° 59' 42.2"	359° 59' 42.3"	Monument 50	1082.04
Monument 50 (29.0 m south of FALL of the Boundary)	N 67° 25' 03.228" W 141° 00' 04.027"	180° 01' 20.9"	0° 01' 20.8"	Monument 51*	1647.50
Monument 51*	N 67° 24' 10.048" W 141° 00' 04.081"	179° 59' 29.4"	359° 59' 29.5"	Monument 52	3695.35
Monument 52	N 67° 22' 10.766" W 141° 00' 04.035"	180° 01' 46.1"	0° 01' 46.0"	Monument 53*	3306.86
Monument 53* (89.4 m south of O1 of the Boundary)	N 67° 20' 24.023" W 141° 00' 04.177"	179° 59' 13.9"	359° 59' 14.0"	Monument 54	3743.87
Monument 54	N 67° 18' 23.173" W 141° 00' 04.107"	180° 00' 28.0"	0° 00' 28.0"	Monument 55	3882.93
Monument 55	N 67° 16' 17.834" W 141° 00' 04.152"	180° 00' 02.2"	0° 00' 02.2"	Monument 56	5514.12
Monument 56	N 67° 13' 19.840" W 141° 00' 04.156"	180° 00' 38.0"	0° 00' 37.9"	Monument 57*	6059.78
Monument 57*	N 67° 10' 04.231" W 141° 00' 04.249"	179° 59' 50.3"	359° 59' 50.3"	Monument 58	4251.14
Monument 58 (13.7 m north of N1 of the Boundary)	N 67° 07' 47.004" W 141° 00' 04.233"	180° 00' 12.0"	0° 00' 12.0"	Monument 59	6253.99
Monument 59	N 67° 04' 25.124" W 141° 00' 04.263"	180° 00' 41.4"	0° 00' 41.3"	Monument 60*	4986.68
Monument 60*	N 67° 01' 44.152" W 141° 00' 04.345"	180° 00' 19.6"	0° 00' 19.5"	Monument 61*	6600.26
Monument 61*	N 66° 58' 11.091" W 141° 00' 04.397"	179° 59' 49.4"	359° 59' 49.4"	Monument 62	3244.49
Monument 62	N 66° 56' 26.356" W 141° 00' 04.383"	180° 00' 11.4"	0° 00' 11.4"	Monument 63	5932.37
Monument 63	N 66° 53' 14.853" W 141° 00' 04.410"	180° 00' 09.3"	0° 00' 09.3"	Monument 64	6843.56
Monument 64 (4.7 m south of M1 of the Boundary)	N 66° 49' 33.934" W 141° 00' 04.435"	180° 00' 15.9"	0° 00' 15.9"	Monument 65	4263.00
Monument 65	N 66° 47' 16.318" W 141° 00' 04.462"	180° 00' 10.3"	0° 00' 10.2"	Monument 66	7800.33

* Monument is suspected of movement.

Monument	Latitude and Longitude			Azimuth	Back Azimuth	To Monument	Distance (meters)
Monument 66	N 66° 43'	04.511"	W 141° 00' 04.494"	180° 00' 07.4"	0° 00' 07.4"	Monument 67	7295.89
Monument 67	N 66° 39'	08.985"	W 141° 00' 04.515"	180° 00' 19.9"	0° 00' 19.9"	Monument 68	2394.52
Monument 68 (L1 of the Boundary)	N 66° 37'	51.685"	W 141° 00' 04.534"	180° 00' 05.3"	0° 00' 05.3"	Monument 69	5815.44
Monument 69	N 66° 34'	43.949"	W 141° 00' 04.546"	180° 00' 03.9"	0° 00' 03.9"	Monument 70	3313.67
Monument 70	N 66° 32'	56.975"	W 141° 00' 04.551"	180° 00' 14.0"	0° 00' 13.9"	Monument 71	5957.36
Monument 71	N 66° 29'	44.656"	W 141° 00' 04.584"	180° 00' 08.3"	0° 00' 08.3"	Monument 72	6327.59
Monument 72	N 66° 26'	20.383"	W 141° 00' 04.605"	179° 59' 51.4"	359° 59' 51.4"	Monument 73	2639.61
Monument 73 (K1 of the Boundary)	N 66° 24'	55.169"	W 141° 00' 04.596"	180° 00' 13.0"	0° 00' 13.0"	Monument 74	4652.45
Monument 74	N 66° 22'	24.973"	W 141° 00' 04.619"	180° 00' 18.7"	0° 00' 18.7"	Monument 75	7008.60
Monument 75	N 66° 18'	38.711"	W 141° 00' 04.670"	180° 00' 07.6"	0° 00' 07.5"	Monument 76	6750.03
Monument 76	N 66° 15'	00.796"	W 141° 00' 04.690"	180° 00' 01.3"	0° 00' 01.3"	Monument 77	1895.39
Monument 77 (J1 of the Boundary)	N 66° 13'	59.605"	W 141° 00' 04.691"	179° 59' 59.6"	359° 59' 59.6"	Monument 78	6029.92
Monument 78	N 66° 10'	44.936"	W 141° 00' 04.690"	180° 00' 02.6"	0° 00' 02.6"	Monument 79	1470.72
Monument 79	N 66° 09'	57.455"	W 141° 00' 04.692"	179° 59' 47.6"	359° 59' 47.7"	Monument 80*	4354.40
Monument 80*	N 66° 07'	36.876"	W 141° 00' 04.671"	180° 00' 24.2"	0° 00' 24.2"	Monument 81	5424.61
Monument 81 (6.3 m north of I1 of the Boundary)	N 66° 04'	41.746"	W 141° 00' 04.721"	180° 00' 06.1"	0° 00' 06.1"	Monument 82	2709.78
Monument 82 (18.1 m north of FAR of the Boundary)	N 66° 03'	14.262"	W 141° 00' 04.728"	180° 00' 16.0"	0° 00' 16.0"	Monument 83	5358.60
Monument 83 (2.9 m north of DOME of the Boundary)	N 66° 00'	21.261"	W 141° 00' 04.761"	180° 00' 02.8"	0° 00' 02.8"	Monument 84	5354.92

* Monument is suspected of movement.

Monument	Latitude and Longitude			Azimuth	Back Azimuth	To Monument	Distance (meters)
Monument 84	N 65° 57'	28.378"	W 141° 00' 04.766"	179° 59' 59.9"	359° 59' 59.9"	Monument 85	3895.31
Monument 85 (CLOSE of the Boundary)	N 65° 55'	22.617"	W 141° 00' 04.766"	180° 00' 13.5"	0° 00' 13.5"	Monument 86	5098.33
Monument 86 (2.3 m north of H1 of the Boundary)	N 65° 52'	38.017"	W 141° 00' 04.793"	180° 00' 07.0"	0° 00' 06.9"	Monument 87	5145.30
Monument 87	N 65° 49'	51.898"	W 141° 00' 04.806"	179° 59' 53.2"	359° 59' 53.2"	Monument 88	6353.28
Monument 88 (4.0 m north of SKIP of the Boundary)	N 65° 46'	26.779"	W 141° 00' 04.790"	180° 00' 06.2"	0° 00' 06.2"	Monument 89	4413.63
Monument 89	N 65° 44'	04.280"	W 141° 00' 04.800"	180° 00' 34.6"	0° 00' 34.6"	Monument 90*	4969.74
Monument 90*	N 65° 41'	23.827"	W 141° 00' 04.866"	179° 59' 30.4"	359° 59' 30.4"	Monument 91	6698.55
Monument 91 (1.9 m south of HORSE of the Boundary)	N 65° 37'	47.556"	W 141° 00' 04.791"	180° 00' 11.6"	0° 00' 11.5"	Monument 92	5116.95
Monument 92 (4.5 m south of G1 of the Boundary)	N 65° 35'	02.348"	W 141° 00' 04.813"	180° 00' 08.4"	0° 00' 08.3"	Monument 93	4833.84
Monument 93	N 65° 32'	26.279"	W 141° 00' 04.828"	180° 00' 00.6"	0° 00' 00.6"	Monument 94	5216.89
Monument 94 (3.2 m north of D'ARCY of the Boundary)	N 65° 29'	37.842"	W 141° 00' 04.829"	180° 00' 42.1"	0° 00' 42.1"	Monument 95*	5175.58
Monument 95*	N 65° 26'	50.737"	W 141° 00' 04.911"	179° 58' 56.5"	359° 58' 56.5"	Monument 96	5072.77
Monument 96	N 65° 24'	06.951"	W 141° 00' 04.790"	180° 00' 07.4"	0° 00' 07.4"	Monument 97	4994.59
Monument 97 (1.8 m south of F1 of the Boundary)	N 65° 21'	25.689"	W 141° 00' 04.804"	179° 59' 52.3"	359° 59' 52.3"	Monument 98	2290.09
Monument 98	N 65° 20'	11.747"	W 141° 00' 04.798"	179° 59' 56.6"	359° 59' 56.7"	Monument 99	7332.55
Monument 99 (E1 of the Boundary)	N 65° 16'	14.995"	W 141° 00' 04.789"	179° 59' 50.9"	359° 59' 51.0"	Monument 100	7437.08
Monument 100	N 65° 12'	14.865"	W 141° 00' 04.763"	179° 59' 58.7"	359° 59' 58.7"	Monument 101	4923.61

* Monument is suspected of movement.

Monument	Latitude and Longitude	Azimuth	Back Azimuth	To Monument	Distance (meters)
Monument 101	N 65° 09' 35.890" W 141° 00' 04.761"	179° 59' 50.4"	359° 59' 50.4"	Monument 102	8028.24
Monument 102	N 65° 05' 16.670" W 141° 00' 04.732"	179° 59' 52.4"	359° 59' 52.4"	Monument 103	6318.84
Monument 103	N 65° 01' 52.642" W 141° 00' 04.715"	179° 59' 57.2"	359° 59' 57.2"	Monument 104	4405.70
Monument 104	N 64° 59' 30.386" W 141° 00' 04.710"	180° 00' 00.8"	0° 00' 00.8"	Monument 105	8352.22
Monument 105 (1.5 m north of B1 of the Boundary)	N 64° 55' 00.698" W 141° 00' 04.713"	179° 59' 55.7"	359° 59' 55.7"	Monument 106	5485.54
Monument 106	N 64° 52' 03.572" W 141° 00' 04.704"	179° 59' 38.9"	359° 59' 38.9"	Monument 107	3335.57
Monument 107	N 64° 50' 15.867" W 141° 00' 04.678"	180° 00' 04.4"	0° 00' 04.4"	Monument 108	4259.19
Monument 108	N 64° 47' 58.338" W 141° 00' 04.685"	179° 59' 54.5"	359° 59' 54.6"	Monument 109	4455.34
Monument 109 (1.1 m north of A1 of the Boundary)	N 64° 45' 34.475" W 141° 00' 04.676"	180° 00' 06.2"	0° 00' 06.2"	Monument 110	5506.72
Monument 110	N 64° 42' 36.661" W 141° 00' 04.688"	180° 00' 02.2"	0° 00' 02.2"	Monument 111	2750.82
Monument 111	N 64° 41' 07.836" W 141° 00' 04.691"	180° 00' 05.8"	0° 00' 05.8"	Site of Monument 112	468.34
Site of Monument 112 (2.9 m north BALD of the Boundary)	N 64° 40' 52.71" W 141° 00' 04.69"	180° 00' 05.8"	0° 00' 05.8"	Monument 112-36	19.88
Monument 112-36	N 64° 40' 52.071" W 141° 00' 04.692"	179° 59' 50.7"	359° 59' 50.8"	Monument 113	2103.03
Monument 113	N 64° 39' 44.163" W 141° 00' 04.685"	179° 59' 56.2"	359° 59' 56.2"	Monument 114	3448.76
Monument 114 (D of the Boundary)	N 64° 37' 52.800" W 141° 00' 04.680"	180° 00' 15.8"	0° 00' 15.8"	Monument 114A	2789.49
Monument 114A	N 64° 36' 22.725" W 141° 00' 04.696"	179° 59' 50.3"	359° 59' 50.3"	Monument 115	5013.78
Monument 115 (E of the Boundary)	N 64° 33' 40.826" W 141° 00' 04.678"	179° 59' 54.8"	359° 59' 54.8"	Monument 115A	2041.39
Monument 115A	N 64° 32' 34.907" W 141° 00' 04.674"	179° 59' 39.5"	359° 59' 39.6"	Monument 116	5616.51

* Monument is suspected of movement.

Monument	Latitude and Longitude	Azimuth	Back Azimuth	To Monument	Distance (meters)
Monument 116	N 64° 29' 33.543" W 141° 00' 04.633"	180° 00' 10.8"	0° 00' 10.8"	Monument 117	2358.02
Monument 117	N 64° 28' 17.399" W 141° 00' 04.642"	180° 00' 10.4"	0° 00' 10.4"	Monument 118	5429.22
Monument 118 (F of the Boundary)	N 64° 25' 22.081" W 141° 00' 04.662"	180° 00' 05.9"	0° 00' 05.9"	Monument 118A	5572.80
Monument 118A	N 64° 22' 22.125" W 141° 00' 04.674"	180° 00' 07.2"	0° 00' 07.2"	Monument 119	2055.42
Monument 119	N 64° 21' 15.752" W 141° 00' 04.680"	179° 59' 47.2"	359° 59' 47.2"	Monument 120	1600.47
Monument 120	N 64° 20' 24.070" W 141° 00' 04.672"	180° 00' 18.1"	0° 00' 18.1"	Monument 121	2763.28
Monument 121	N 64° 18' 54.838" W 141° 00' 04.690"	179° 59' 44.8"	359° 59' 44.8"	Monument 122	1057.90
Monument 122	N 64° 18' 20.676" W 141° 00' 04.684"	180° 00' 14.7"	0° 00' 14.6"	Monument 123	3417.91
Monument 123	N 64° 16' 30.304" W 141° 00' 04.702"	179° 59' 57.9"	359° 59' 57.9"	Monument 123A	3803.90
Monument 123A	N 64° 14' 27.467" W 141° 00' 04.700"	180° 01' 33.6"	0° 01' 33.6"	Monument 124*	3811.44
Monument 124*	N 64° 12' 24.385" W 141° 00' 04.828"	179° 59' 10.2"	359° 59' 10.3"	Monument 125	6573.86
Monument 125	N 64° 08' 52.097" W 141° 00' 04.710"	179° 59' 58.7"	359° 59' 58.7"	Monument 125A	3600.99
Monument 125A	N 64° 06' 55.811" W 141° 00' 04.709"	180° 00' 01.9"	0° 00' 01.9"	Monument 126	3235.58
Monument 126 (G of the Boundary)	N 64° 05' 11.324" W 141° 00' 04.711"	180° 04' 42.5"	0° 04' 42.5"	Tablet 60-Mile Road	66.25
Tablet 60-Mile Road	N 64° 05' 09.184" W 141° 00' 04.718"	180° 04' 42.5"	0° 04' 42.5"	Monument 126B	85.01
Monument 126B	N 64° 05' 06.439" W 141° 00' 04.726"	179° 59' 28.9"	359° 59' 28.9"	Monument 126A	1450.91
Monument 126A	N 64° 04' 19.584" W 141° 00' 04.710"	180° 00' 04.8"	0° 00' 04.8"	Monument 127	5863.10
Monument 127 (H of the Boundary)	N 64° 01' 10.245" W 141° 00' 04.720"	180° 00' 16.9"	0° 00' 16.9"	Monument 128	5288.90
Monument 128	N 63° 58' 19.448" W 141° 00' 04.752"	180° 00' 02.6"	0° 00' 02.6"	Monument 129	4501.98

* Monument is suspected of movement.

Monument	Latitude and Longitude	Azimuth	Back Azimuth	To Monument	Distance (meters)
Monument 129 (ASA of the Boundary)	N 63° 55' 54.062" W 141° 00' 04.756"	179° 59' 46.3"	359° 59' 46.3"	Monument 130	2593.95
Monument 130	N 63° 54' 30.293" W 141° 00' 04.744"	180° 08' 41.5"	0° 08' 41.5"	Monument 131	140.28
Monument 131	N 63° 54' 25.763" W 141° 00' 04.770"	180° 00' 05.8"	0° 00' 05.8"	Monument 132	3107.82
Monument 132	N 63° 52' 45.399" W 141° 00' 04.776"	179° 59' 56.4"	359° 59' 56.4"	Monument 133	6658.85
Monument 133 (I of the Boundary)	N 63° 49' 10.356" W 141° 00' 04.768"	180° 00' 50.4"	0° 00' 50.3"	Monument 134*	4675.12
Monument 134*	N 63° 46' 39.376" W 141° 00' 04.851"	179° 59' 02.5"	359° 59' 02.6"	Monument 135	2957.22
Monument 135	N 63° 45' 03.873" W 141° 00' 04.791"	179° 59' 53.4"	359° 59' 53.4"	Monument 136	6010.85
Monument 136 (49.2 m south of J of the Boundary)	N 63° 41' 49.754" W 141° 00' 04.777"	179° 59' 43.5"	359° 59' 43.5"	Monument 137	4541.47
Monument 137	N 63° 39' 23.088" W 141° 00' 04.751"	180° 00' 11.5"	0° 00' 11.5"	Monument 138	4634.95
Monument 138	N 63° 36' 53.401" W 141° 00' 04.769"	180° 00' 20.9"	0° 00' 20.9"	Monument 139	4306.06
Monument 139	N 63° 34' 34.335" W 141° 00' 04.801"	179° 59' 20.3"	359° 59' 20.3"	Monument 140*	2220.37
Monument 140*	N 63° 33' 22.627" W 141° 00' 04.770"	180° 01' 10.5"	0° 01' 10.4"	Monument 141*	4231.95
Monument 141*	N 63° 31' 05.954" W 141° 00' 04.875"	179° 59' 47.1"	359° 59' 47.1"	Monument 142	5523.70
Monument 142 (K of the Boundary)	N 63° 28' 07.561" W 141° 00' 04.850"	179° 59' 37.9"	359° 59' 37.9"	Monument 143*	5245.10
Monument 143*	N 63° 25' 18.165" W 141° 00' 04.809"	180° 00' 51.0"	0° 00' 51.0"	Monument 144	4708.52
Monument 144	N 63° 22' 46.098" W 141° 00' 04.893"	179° 59' 51.8"	359° 59' 51.8"	Monument 145	3933.23
Monument 145	N 63° 20' 39.068" W 141° 00' 04.882"	180° 00' 03.4"	0° 00' 03.3"	Monument 146	5473.01
Monument 146	N 63° 17' 42.308" W 141° 00' 04.888"	180° 00' 12.2"	0° 00' 12.2"	Monument 147	2891.22
Monument 147-85	N 63° 16' 08.931" W 141° 00' 04.900"	179° 59' 54.9"	359° 59' 54.9"	Site of Monument 147	117.37

* Monument is suspected of movement.

Monument	Latitude and Longitude			Azimuth	Back Azimuth	To Monument	Distance (meters)
Site of Monument 147	N 63° 16'	05.14"	W 141° 00' 04.90"	179° 59' 54.8"	359° 59' 54.8"	Monument 148	4804.01
Monument 148	N 63° 13'	29.985"	W 141° 00' 04.892"	180° 00' 23.7"	0° 00' 23.6"	Monument 149	4995.76
Monument 149 (0.9 m north of L of the Boundary)	N 63° 10'	48.637"	W 141° 00' 04.932"	180° 00' 05.7"	0° 00' 05.7"	Monument 150*	2236.02
Monument 150* (M1 of the Boundary)	N 63° 09'	36.419"	W 141° 00' 04.996"	179° 59' 15.6"	359° 59' 15.6"	Monument 151	3760.80
Monument 151	N 63° 07'	34.955"	W 141° 00' 04.938"	180° 00' 03.6"	0° 00' 03.6"	Monument 152	5393.66
Monument 152	N 63° 04'	40.753"	W 141° 00' 04.945"	180° 00' 11.7"	0° 00' 11.6"	Monument 153	6227.42
Monument 153 (N of the Boundary)	N 63° 01'	19.620"	W 141° 00' 04.970"	180° 00' 12.6"	0° 00' 12.6"	Monument 154	5761.76
Monument 154	N 62° 58'	13.527"	W 141° 00' 04.995"	180° 00' 16.2"	0° 00' 16.1"	Monument 155	5074.36
Monument 155	N 62° 55'	29.633"	W 141° 00' 05.023"	180° 00' 10.8"	0° 00' 10.7"	Monument 156	4693.25
Monument 156	N 62° 52'	58.048"	W 141° 00' 05.040"	180° 00' 07.7"	0° 00' 07.7"	Monument 156	4552.27
Monument 157	N 62° 50'	31.015"	W 141° 00' 05.052"	180° 00' 10.8"	0° 00' 10.8"	Monument 158	2776.75
Monument 158 (3.3 m south of O of the Boundary)	N 62° 49'	01.329"	W 141° 00' 05.062"	180° 00' 10.1"	0° 00' 10.1"	Monument 159	6789.05
Monument 159	N 62° 45'	22.049"	W 141° 00' 05.086"	180° 00' 12.0"	0° 00' 11.9"	Monument 160	2876.05
Monument 160 (P of the Boundary)	N 62° 43'	49.155"	W 141° 00' 05.098"	180° 00' 11.1"	0° 00' 11.0"	Monument 161	6054.12
Monument 161 (Q of the Boundary)	N 62° 40'	33.610"	W 141° 00' 05.120"	180° 00' 09.9"	0° 00' 09.9"	Monument 162	4192.76
Monument 162	N 62° 38'	18.185"	W 141° 00' 05.135"	179° 59' 40.9"	359° 59' 40.9"	Monument 162A*	2514.15
Monument 162A*	N 62° 36'	56.979"	W 141° 00' 05.118"	180° 09' 33.8"	0° 09' 33.8"	Monument 162B	101.80
Monument 162B	N 62° 36'	53.690"	W 141° 00' 05.138"	180° 00' 38.1"	0° 00' 38.1"	Monument 163	3187.71

* Monument is suspected of movement.

Monument	Latitude and Longitude	Azimuth	Back Azimuth	To Monument	Distance (meters)
Monument 163	N 62° 35' 10.728" W 141° 00' 05.179"	179° 59' 59.9"	359° 59' 59.9"	Monument 164	2140.71
Monument 164 (25.5 m south of R of the Boundary)	N 62° 34' 01.582" W 141° 00' 05.179"	180° 00' 01.0"	0° 00' 01.0"	Monument 165	4826.13
Monument 165	N 62° 31' 25.697" W 141° 00' 05.181"	180° 00' 22.2"	0° 00' 22.1"	Monument 166	5765.36
Monument 166 (6.1 m south of S of the Boundary)	N 62° 28' 19.474" W 141° 00' 05.224"	180° 00' 10.4"	0° 00' 10.4"	Monument 167	2011.47
Monument 167	N 62° 27' 14.502" W 141° 00' 05.231"	179° 59' 55.8"	359° 59' 55.8"	Monument 168*	5919.31
Monument 168*	N 62° 24' 03.304" W 141° 00' 05.223"	180° 00' 25.4"	0° 00' 25.4"	Monument 169	10440.83
Monument 169	N 62° 18' 26.054" W 141° 00' 05.312"	180° 00' 17.0"	0° 00' 17.0"	Monument 170	9304.39
Monument 170	N 62° 13' 25.508" W 141° 00' 05.365"	180° 00' 13.1"	0° 00' 13.1"	Monument 171	6335.75
Monument 171	N 62° 10' 00.851" W 141° 00' 05.393"	180° 00' 04.7"	0° 00' 04.7"	Monument 172*	4313.99
Monument 172* (T of the Boundary)	N 62° 07' 41.501" W 141° 00' 05.400"	180° 01' 06.3"	0° 01' 06.2"	Monument 173	2363.59
Monument 173	N 62° 06' 25.152" W 141° 00' 05.452"	180° 00' 14.6"	0° 00' 14.6"	Monument 174	4087.38
Monument 174 (1.0 m south of U of the Boundary)	N 62° 04' 13.120" W 141° 00' 05.472"	179° 59' 52.8"	359° 59' 52.8"	Monument 175	1717.76
Monument 175 (V of the Boundary)	N 62° 03' 17.632" W 141° 00' 05.468"	180° 00' 16.4"	0° 00' 16.4"	Monument 176	2952.68
Monument 176	N 62° 01' 42.253" W 141° 00' 05.484"	180° 00' 25.6"	0° 00' 25.5"	Monument 176A*	5858.13
Monument 176A*	N 061° 58' 33.019" W 141° 00' 05.404"	180° 05' 56.1"	0° 05' 56.0"	Monument 177	1180.12
Monument 177	N 61° 57' 54.898" W 141° 00' 05.544"	180° 00' 06.5"	0° 00' 06.5"	Monument 178	2676.79
Monument 178	N 61° 56' 28.429" W 141° 00' 05.549"	180° 00' 11.4"	0° 00' 11.4"	Monument 179	5712.14
Monument 179	N 61° 53' 23.909" W 141° 00' 05.571"	180° 00' 16.1"	0° 00' 16.1"	Monument 180	5340.76

* Monument is suspected of movement.

Monument	Latitude and Longitude	Azimuth	Back Azimuth	To Monument	Distance (meters)
Monument 180 (3.6 m south of W of the Boundary)	N 61° 50' 31.385" W 141° 00' 05.599"	180° 01' 10.0"	0° 01' 09.9"	Monument 181*	3410.20
Monument 181* (4.0 m north of X of the Boundary)	N 61° 48' 41.223" W 141° 00' 05.678"	179° 59' 42.2"	359° 59' 42.2"	Monument 182	7329.62
Monument 182	N 61° 44' 44.449" W 141° 00' 05.635"	180° 00' 42.8"	0° 00' 42.8"	Monument 183	1606.62
Monument 183	N 61° 43' 52.548" W 141° 00' 05.658"	180° 00' 39.3"	0° 00' 39.3"	Monument 184	1357.32
Monument 184 (18.8 m south of Y of the Boundary)	N 61° 43' 08.701" W 141° 00' 05.675"	180° 00' 09.0"	0° 00' 09.0"	Site of Monument 185	6275.27
Site of Monument 185	N 61° 39' 45.98" W 141° 00' 05.69"	180° 00' 09.6"	0° 00' 09.6"	Monument 185A	25.39
Monument 185A	N 61° 39' 45.163" W 141° 00' 05.694"	180° 00' 14.3"	0° 00' 14.3"	Monument 186	1195.21
Monument 186	N 61° 39' 06.553" W 141° 00' 05.700"	180° 00' 10.1"	0° 00' 10.1"	Monument 187	3485.18
Monument 187	N 61° 37' 13.966" W 141° 00' 05.711"	179° 59' 53.5"	359° 59' 53.5"	Monument 187A	2620.17
Monument 187A	N 61° 35' 49.323" W 141° 00' 05.706"	180° 00' 28.9"	0° 00' 29.6"	Site of Monument 189	79551.06
Site of Monument 189	N 60° 52' 59.316" W 141° 00' 06.463"	179° 59' 44.6"	359° 59' 44.6"	Site of Monument 190	1186.29
Site of Monument 190	N 60° 52' 20.99" W 141° 00' 06.46"	180° 00' 28.4"	0° 00' 28.4"	Monument 191	5422.49
Monument 191	N 60° 49' 25.798" W 141° 00' 06.506"	180° 00' 28.3"	0° 00' 28.3"	Site of Monument 191A	590.70
Site of Monument 191A	N 60° 49' 06.71" W 141° 00' 06.51"	180° 00' 28.3"	0° 00' 27.8"	Boundary Point 187	57073.79
Boundary Point 187 (Point of intersection)	N 60° 18' 22.68" W 141° 00' 07.02"				

* Monument is suspected of movement.