

# SPECIAL REPORT No 9

REVISED GEOGRAPHICAL POSITION OF BOUNDARY POINTS  
AND UPDATED MAPS

SOUTHWEST BRANCH OF THE ST. JOHN RIVER

OF THE INTERNATIONAL BOUNDARY BETWEEN  
CANADA AND THE UNITED STATES

(Quebec/Maine)



INTERNATIONAL BOUNDARY COMMISSION

Ottawa/Washington

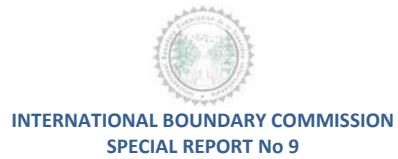
2017



## CONTENTS

INTRODUCTION .....	1
THE SOUTHWEST BRANCH OF THE ST. JOHN RIVER SECTION .....	2
NAD 83 REFERENCE FRAME .....	3
NEW SURVEY OF REFERENCE MONUMENTS .....	3
UPDATED MAPS .....	4
CERTIFICATION STATEMENT .....	5
APPENDIX A .....	7





INTERNATIONAL BOUNDARY COMMISSION  
SPECIAL REPORT No 9

## 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 ninth in a series of special publications that provide revised or supplementary information concerning the geographical positions of the 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. Attached to this report is a series of ten (10) updated maps showing the boundary demarcation.



INTERNATIONAL BOUNDARY COMMISSION  
SPECIAL REPORT No 9

### SOUTHWEST BRANCH OF THE ST. JOHN RIVER

The line becomes a water boundary as it follows the Southwest Branch of the St. John River from the intersection of the South Line to the source of the river at Little Lake St. John. This 61-kilometre (38-mile) section of the boundary ascends the small shallow stream through remote and densely wooded terrain. The boundary is defined by 1,045 turning points which are referenced by monuments located on the shore. It constitutes part of the boundary between the province of Quebec (Canada) and the state of Maine (United States). The original description of this section can be found on pages 172 to 190 of the "Report of the Reestablishment of the Boundary between the United States and Canada – Source of the St. Croix River to the St. Lawrence River" published in 1924 by the International Boundary Commission.



Figure 1 - Location of the Southwest Branch of the St. John River Section

## NAD 83 REFERENCE FRAME

Evolution of the knowledge of the shape and geometry of the terrestrial globe has led to the regular revision of the reference frame supporting the coordinate system (in terms of 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), when the datum used to describe the boundary in the original report of 1924 was the North American Datum (NAD). In 1983, the International Boundary Commission published Special Report No 6 to provide with an updated description in North American Datum 27 (NAD 27), but a revision is required to update those values once more in the new common reference frame. In order to provide with a more precise position of boundary points, the Commission has decided to re-capture the geographic position of all reference monuments using state-of-the art GPS technology.

## NEW SURVEY OF REFERENCE MONUMENTS

The new survey of boundary monuments position took place during the field seasons of 2005 under the supervision of Martin Gingras, Q.L.S., C.L.S., and observations were processed and adjusted by Rodger Reid, O.L.S., C.L.S. from the Canadian Section. Details of the processing and adjustment can be found in the following report:

- “Re-adjustment of the Southwest Branch of the St. John River computed on the NAD83 Datum, Epoch 2010.0” Project 2015-19-008.

Surveys were conducted using GPS methodology and latitudes and longitudes were computed based on the NAD 83, epoch 2010.0.



INTERNATIONAL BOUNDARY COMMISSION  
SPECIAL REPORT No 9

UPDATED MAPS

A series of ten (10) maps is attached to this report and forms integral part of it. Maps are produced at the same scale and using the same map extent than the original maps published in 1924 in order to simplify map management. Base mapping comes from ortho-imagery prepared from aerial photography taken in 2008.

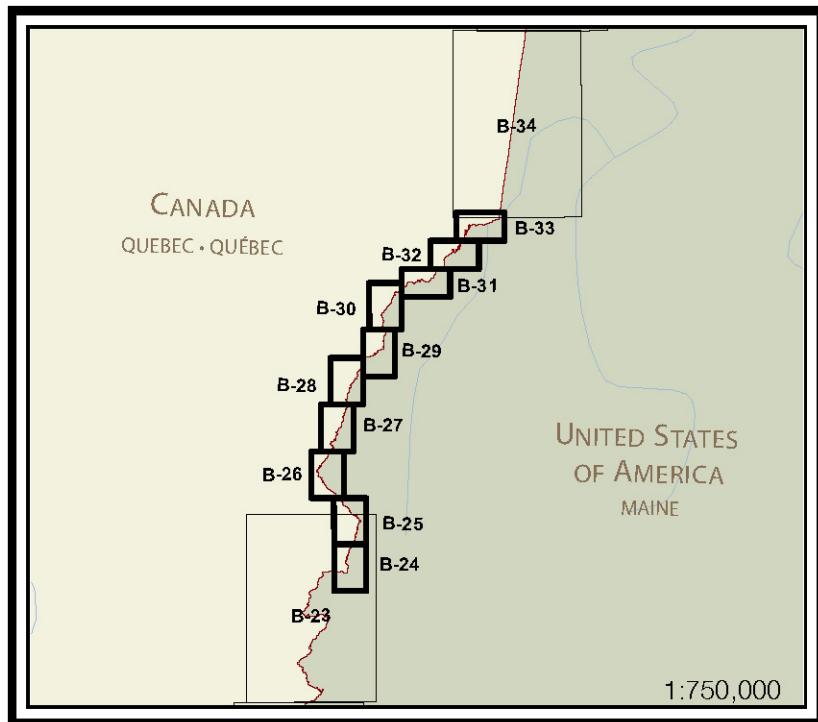


Figure 2 - Map extents



INTERNATIONAL BOUNDARY COMMISSION  
SPECIAL REPORT No 9

**CERTIFICATION STATEMENT**

We certify that the foregoing is a true 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 maps and tables submitted herein show the true location and 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 distances, have no effect whatsoever on the physical location of the boundary line itself. All boundary monuments, reference marks, and control stations that were used to define the boundary prior to the adoption of the NAD83 Datum, remain unaltered from their original location and they continue to define the boundary. The small differences between the updated inversed geodetic azimuths and ellipsoid distances are entirely due to the mathematical re-adjustment, and there is no resultant change in territorial sovereignty at any point on the boundary.

*Original Signed by Jean Gagnon*

Jean Gagnon

Commissioner for Canada

*Original Signed by Kyle K. Hipsley*

Kyle K. Hipsley

Commissioner for the United States



INTERNATIONAL BOUNDARY COMMISSION  
SPECIAL REPORT No 9



INTERNATIONAL BOUNDARY COMMISSION  
SPECIAL REPORT No 9

## APPENDIX A

REVISED GEOGRAPHICAL POSITION OF BOUNDARY POINTS  
NAD 83, EPOCH 2010.0

### SOUTHWEST BRANCH OF THE ST. JOHN RIVER

OF THE INTERNATIONAL BOUNDARY BETWEEN  
CANADA AND THE UNITED STATES

(Quebec/Maine)





INTERNATIONAL BOUNDARY COMMISSION  
SPECIAL REPORT No 9

**GEOGRAPHIC POSITIONS OF BOUNDARY TURNING POINTS AND REFERENCE MONUMENTS  
DEFINING THE INTERNATIONAL BOUNDARY THROUGH THE  
SOUTHWEST BRANCH OF THE ST. JOHN RIVER**  
**NAD83 EPOCH 2010.0**

SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
RM308	46° 25' 02.134" 70° 03' 23.059"	TP1	188° 21' 08"	8° 21' 08"	79.76
TP1	46° 24' 59.58"	RM308	8° 21' 08"	188° 21' 08"	79.76
	70° 03' 23.60"	TP2	160° 26' 40"	340° 26' 40"	51.62
		RM309	188° 21' 11"	8° 21' 08"	42.34
RM309	46° 24' 58.222"	RM308	8° 21' 09"	188° 21' 10"	122.10
	70° 03' 23.890"	TP1	8° 21' 08"	188° 21' 11"	42.34
TP2	46° 24' 58.00" 70° 03' 22.79"	TP3	192° 23' 27"	12° 23' 26"	60.72
TP3	46° 24' 56.08" 70° 03' 23.40"	TP4	215° 45' 25"	35° 45' 23"	96.42
TP4	46° 24' 53.55" 70° 03' 26.04"	TP5	258° 01' 20"	78° 01' 14"	179.91
TP5	46° 24' 52.34" 70° 03' 34.28"	TP6	244° 39' 15"	64° 39' 09"	198.21
TP6	46° 24' 49.59" 70° 03' 42.67"	TP7	282° 20' 11"	102° 20' 05"	185.09
TP7	46° 24' 50.87" 70° 03' 51.14"	TP8	243° 53' 12"	63° 53' 10"	68.71
TP8	46° 24' 49.89" 70° 03' 54.02"	TP9	206° 16' 18"	26° 16' 15"	154.22
TP9	46° 24' 45.41" 70° 03' 57.22"	TP10	231° 29' 24"	51° 29' 21"	101.01
TP10	46° 24' 43.38"	TP11	245° 30' 39"	65° 30' 36"	105.19
	70° 04' 00.92"	RMS8	208° 18' 25"	28° 18' 24"	55.76
		RMC8	311° 35' 21"	131° 35' 19"	87.65
RMS8	46° 24' 41.787" 70° 04' 02.160"	TP10	28° 18' 24"	208° 18' 25"	55.76

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
RMC8	46° 24' 45.261" 70° 04' 03.991"	RMS8 TP10	159° 57' 55" 131° 35' 19"	339° 57' 57" 311° 35' 21"	114.18 87.65
TP11	46° 24' 41.96" 70° 04' 05.40"	TP12	259° 39' 42"	79° 39' 32"	301.55
TP12	46° 24' 40.21" 70° 04' 19.29"	TP13	236° 36' 03"	56° 35' 58"	178.35
TP13	46° 24' 37.03" 70° 04' 26.27"	TP14	246° 29' 07"	66° 29' 01"	208.29
TP14	46° 24' 34.34" 70° 04' 35.21"	TP15 RM311 RM310	274° 35' 30" 193° 16' 34" 13° 00' 58"	94° 35' 27" 13° 16' 33" 193° 00' 58"	71.70 17.79 26.65
RM310	46° 24' 35.181" 70° 04' 34.927"	RM311 TP14	193° 07' 13" 193° 00' 58"	13° 07' 12" 13° 00' 58"	44.44 26.65
RM311	46° 24' 33.780" 70° 04' 35.399"	TP14	13° 16' 33"	193° 16' 34"	17.79
TP15	46° 24' 34.53" 70° 04' 38.55"	TP16	289° 50' 43"	109° 50' 41"	53.81
TP16	46° 24' 35.12" 70° 04' 40.92"	TP17	331° 19' 52"	151° 19' 50"	73.31
TP17	46° 24' 37.20" 70° 04' 42.57"	TP18	301° 18' 10"	121° 18' 09"	41.01
TP18	46° 24' 37.89" 70° 04' 44.21"	TP19	284° 27' 27"	104° 27' 25"	39.71
TP19	46° 24' 38.21" 70° 04' 46.01"	TP20	272° 22' 38"	92° 22' 33"	138.40
TP20	46° 24' 38.40" 70° 04' 52.49"	TP21	261° 12' 41"	81° 12' 34"	191.00
TP21	46° 24' 37.45" 70° 05' 01.32"	TP22	243° 26' 39"	63° 26' 34"	154.40
TP22	46° 24' 35.22" 70° 05' 07.79"	TP23	228° 46' 39"	48° 46' 36"	98.60

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP23	46° 24' 33.11" 70° 05' 11.26"	TP24	277° 05' 42"	97° 05' 41"	43.80
TP24	46° 24' 33.29" 70° 05' 13.30"	TP25	306° 17' 44"	126° 17' 43"	47.01
TP25	46° 24' 34.19" 70° 05' 15.07"	TP26	341° 57' 50"	161° 57' 49"	81.21
TP26	46° 24' 36.69" 70° 05' 16.25"	TP27	328° 37' 51"	148° 37' 50"	40.31
TP27	46° 24' 37.80" 70° 05' 17.23"	TP28	309° 30' 58"	129° 30' 57"	52.81
TP28	46° 24' 38.89" 70° 05' 19.14"	TP29	290° 44' 01"	110° 44' 00"	38.51
TP29	46° 24' 39.33" 70° 05' 20.82"	TP30	254° 09' 04"	74° 09' 02"	56.40
TP30	46° 24' 38.84" 70° 05' 23.37"	TP31	243° 55' 06"	63° 55' 05"	43.10
TP31	46° 24' 38.22" 70° 05' 25.18"	TP32	231° 17' 07"	51° 17' 04"	85.20
TP32	46° 24' 36.50" 70° 05' 28.29"	TP33	219° 56' 03"	39° 56' 01"	99.39
TP33	46° 24' 34.03" 70° 05' 31.28"	TP34	269° 37' 02"	89° 36' 59"	70.50
TP34	46° 24' 34.01" 70° 05' 34.58"	TP35 RMC13	280° 59' 03" 68° 16' 08"	100° 59' 02" 248° 16' 24"	32.91 527.90
RMC13	46° 24' 40.342" 70° 05' 11.617"	RMS14 TP34	246° 11' 27" 248° 16' 24"	66° 11' 10" 68° 16' 08"	530.16 527.90
TP35	46° 24' 34.22" 70° 05' 36.09"	TP36	286° 04' 11"	106° 04' 08"	78.12
TP36	46° 24' 34.92" 70° 05' 39.61"	TP37	289° 39' 10"	109° 39' 08"	65.42
TP37	46° 24' 35.63" 70° 05' 42.49"	TP38	257° 22' 08"	77° 22' 07"	37.50

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP38	46° 24' 35.36" 70° 05' 44.20"	TP39	244° 06' 06"	64° 06' 05"	41.50
TP39	46° 24' 34.78" 70° 05' 45.95"	TP40	270° 26' 04"	90° 26' 03"	29.91
TP40	46° 24' 34.78" 70° 05' 47.35"	TP41	239° 51' 59"	59° 51' 58"	40.80
TP41	46° 24' 34.12" 70° 05' 49.00"	TP42	189° 06' 58"	9° 06' 58"	25.91
		RMC16	254° 50' 01"	74° 50' 00"	20.62
		RMS14	93° 59' 54"	274° 00' 04"	314.23
RMC16	46° 24' 33.946" 70° 05' 49.935"	TP41	74° 50' 00"	254° 50' 01"	20.62
RMS14	46° 24' 33.410" 70° 05' 34.327"	RMC16	272° 50' 21"	92° 50' 10"	333.77
		TP41	274° 00' 04"	93° 59' 54"	314.23
TP42	46° 24' 33.29" 70° 05' 49.20"	TP43	138° 24' 01"	318° 24' 03"	71.30
TP43	46° 24' 31.56" 70° 05' 46.98"	TP44	109° 02' 05"	289° 02' 07"	82.10
TP44	46° 24' 30.70" 70° 05' 43.35"	TP45	96° 00' 06"	276° 00' 08"	51.60
TP45	46° 24' 30.52" 70° 05' 40.94"	TP46	144° 45' 02"	324° 45' 03"	24.71
TP46	46° 24' 29.87" 70° 05' 40.28"	TP47	185° 21' 05"	5° 21' 05"	35.01
TP47	46° 24' 28.74" 70° 05' 40.43"	TP48	220° 42' 57"	40° 42' 56"	34.31
TP48	46° 24' 27.90" 70° 05' 41.48"	TP49	247° 17' 56"	67° 17' 52"	145.51
TP49	46° 24' 26.08" 70° 05' 47.76"	TP50	213° 49' 50"	33° 49' 49"	33.01
TP50	46° 24' 25.19" 70° 05' 48.62"	TP51	166° 17' 49"	346° 17' 49"	24.71

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP51	46° 24' 24.41" 70° 05' 48.35"	TP52	108° 23' 53"	288° 23' 54"	31.80
TP52	46° 24' 24.09" 70° 05' 46.93"	TP53	64° 03' 51"	244° 03' 53"	71.59
TP53	46° 24' 25.10" 70° 05' 43.92"	TP54	119° 15' 49"	299° 15' 50"	29.40
TP54	46° 24' 24.64" 70° 05' 42.72"	TP55	157° 37' 54"	337° 37' 55"	19.51
TP55	46° 24' 24.05" 70° 05' 42.37"	TP56	190° 34' 40"	10° 34' 40"	30.01
TP56	46° 24' 23.10" 70° 05' 42.63"	TP57	215° 59' 33"	35° 59' 32"	58.21
TP57	46° 24' 21.57" 70° 05' 44.23"	TP58	233° 06' 34"	53° 06' 30"	126.21
TP58	46° 24' 19.12" 70° 05' 48.96"	TP59	272° 18' 28"	92° 18' 19"	281.71
TP59	46° 24' 19.49" 70° 06' 02.14"	TP60	236° 30' 20"	56° 30' 20"	31.51
TP60	46° 24' 18.92" 70° 06' 03.37"	TP61	188° 46' 28"	8° 46' 28"	30.71
TP61	46° 24' 17.94" 70° 06' 03.58"	TP62	153° 09' 31"	333° 09' 31"	33.21
TP62	46° 24' 16.98" 70° 06' 02.88"	TP63	125° 51' 35"	305° 51' 37"	73.70
TP63	46° 24' 15.58" 70° 06' 00.09"	TP64	93° 18' 39"	273° 18' 40"	37.60
TP64	46° 24' 15.51" 70° 05' 58.33"	TP65	69° 11' 43"	249° 11' 45"	66.09
TP65	46° 24' 16.27" 70° 05' 55.44"	TP66	76° 51' 43"	256° 51' 44"	39.49
TP66	46° 24' 16.56" 70° 05' 53.64"	TP67	119° 16' 42"	299° 16' 43"	26.00

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP67	46° 24' 16.15" 70° 05' 52.57"	TP68	155° 08' 44"	335° 08' 44"	29.81
TP68	46° 24' 15.28" 70° 05' 51.99"	TP69	196° 41' 37"	16° 41' 37"	28.41
TP69	46° 24' 14.39" 70° 05' 52.37"	TP70	214° 22' 38"	34° 22' 37"	41.61
TP70	46° 24' 13.28" 70° 05' 53.47"	TP71	233° 47' 35"	53° 47' 34"	55.31
TP71	46° 24' 12.22" 70° 05' 55.56"	TP72	281° 19' 34"	101° 19' 31"	91.90
TP72	46° 24' 12.81" 70° 05' 59.78"	TP73	243° 30' 33"	63° 30' 32"	17.31
TP73	46° 24' 12.56" 70° 06' 00.50"	TP74	231° 59' 35"	51° 59' 35"	19.81
TP74	46° 24' 12.16" 70° 06' 01.23"	TP75	193° 02' 35"	13° 02' 35"	26.21
TP75	46° 24' 11.34" 70° 06' 01.51"	TP76	141° 19' 42"	321° 19' 43"	30.80
TP76	46° 24' 10.56" 70° 06' 00.61"	TP77	75° 45' 40"	255° 45' 42"	46.29
TP77	46° 24' 10.93" 70° 05' 58.51"	TP78	109° 38' 42"	289° 38' 43"	25.00
TP78	46° 24' 10.65" 70° 05' 57.41"	TP79	175° 13' 37"	355° 13' 37"	28.01
TP79	46° 24' 09.75" 70° 05' 57.30"	TP80	246° 15' 42"	66° 15' 41"	47.71
TP80	46° 24' 09.13" 70° 05' 59.34"	TP81	215° 45' 37"	35° 45' 36"	40.21
TP81	46° 24' 08.07" 70° 06' 00.44"	TP82	133° 52' 36"	313° 52' 39"	93.60
TP82	46° 24' 05.97" 70° 05' 57.28"	TP83	151° 19' 40"	331° 19' 41"	74.61

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP83	46° 24' 03.85" 70° 05' 55.61"	TP84	206° 49' 31"	26° 49' 31"	32.21
TP84	46° 24' 02.92" 70° 05' 56.29"	TP85	296° 05' 34"	116° 05' 29"	144.00
TP85	46° 24' 04.97" 70° 06' 02.34"	TP86	239° 11' 30"	59° 11' 30"	25.61
TP86	46° 24' 04.55" 70° 06' 03.37"	TP87	175° 03' 28"	355° 03' 28"	253.71
TP87	46° 23' 56.36" 70° 06' 02.35"	TP88 RMC18 RMS16	188° 25' 32" 303° 13' 28" 104° 39' 26"	8° 25' 31" 123° 13' 25" 284° 39' 32"	51.72 108.57 182.18
RMC18	46° 23' 58.286" 70° 06' 06.600"	RMS16 TP87	111° 34' 12" 123° 13' 25"	291° 34' 21" 303° 13' 28"	287.18 108.57
RMS16	46° 23' 54.866" 70° 05' 54.099"	TP87	284° 39' 32"	104° 39' 26"	182.18
TP88	46° 23' 54.70" 70° 06' 02.70"	TP89	203° 19' 37"	23° 19' 34"	175.92
TP89	46° 23' 49.47" 70° 06' 05.96"	TP90	211° 47' 37"	31° 47' 33"	190.22
TP90	46° 23' 44.23" 70° 06' 10.66"	TP91	226° 32' 35"	46° 32' 32"	125.02
TP91	46° 23' 41.45" 70° 06' 14.90"	TP92	191° 15' 36"	11° 15' 35"	97.02
TP92	46° 23' 38.37" 70° 06' 15.79"	TP93	210° 30' 33"	30° 30' 33"	35.02
TP93	46° 23' 37.39" 70° 06' 16.62"	TP94	227° 44' 41"	47° 44' 39"	43.82
TP94	46° 23' 36.44" 70° 06' 18.14"	TP95	269° 23' 43"	89° 23' 41"	70.61
TP95	46° 23' 36.41" 70° 06' 21.45"	TP96	244° 09' 44"	64° 09' 42"	51.22

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP96	46° 23' 35.69" 70° 06' 23.60"	TP97	233° 33' 48"	53° 33' 46"	62.52
TP97	46° 23' 34.49" 70° 06' 25.96"	TP98	218° 45' 46"	38° 45' 45"	38.92
TP98	46° 23' 33.50" 70° 06' 27.10"	TP99	145° 39' 55"	325° 39' 56"	91.00
TP99	46° 23' 31.07" 70° 06' 24.70"	TP100	169° 05' 57"	349° 05' 58"	68.11
TP100	46° 23' 28.90" 70° 06' 24.09"	TP101	174° 33' 58"	354° 33' 59"	62.41
TP101	46° 23' 26.89" 70° 06' 23.82"	TP102	210° 44' 01"	30° 44' 00"	35.42
TP102	46° 23' 25.91" 70° 06' 24.66"	TP103	280° 44' 59"	100° 44' 58"	33.31
TP103	46° 23' 26.11" 70° 06' 26.19"	TP104	320° 49' 57"	140° 49' 55"	85.00
TP104	46° 23' 28.24" 70° 06' 28.71"	TP105	291° 26' 56"	111° 26' 54"	59.81
TP105	46° 23' 28.95" 70° 06' 31.31"	TP106	256° 11' 04"	76° 11' 03"	29.52
TP106	46° 23' 28.72" 70° 06' 32.65"	TP107	220° 28' 06"	40° 28' 05"	48.12
TP107	46° 23' 27.54" 70° 06' 34.12"	TP108	201° 08' 11"	21° 08' 10"	85.02
TP108	46° 23' 24.97" 70° 06' 35.55"	TP109	119° 59' 11"	299° 59' 15"	125.40
TP109	46° 23' 22.94" 70° 06' 30.47"	TP110	141° 44' 19"	321° 44' 20"	30.39
		RMC20	329° 16' 14"	149° 16' 09"	322.29
		RMS18	123° 56' 16"	303° 56' 18"	73.24
RMC20	46° 23' 31.910" 70° 06' 38.176"	RMS18	144° 39' 27"	324° 39' 35"	389.74
		TP109	149° 16' 09"	329° 16' 14"	322.29

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec		State: Maine			
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
RMS18	46° 23' 21.614" 70° 06' 27.624"	TP109	303° 56' 18"	123° 56' 16"	73.24
TP110	46° 23' 22.17" 70° 06' 29.59"	TP111	147° 18' 23"	327° 18' 24"	65.19
TP111	46° 23' 20.39" 70° 06' 27.94"	TP112	180° 39' 25"	0° 39' 25"	22.20
TP112	46° 23' 19.67" 70° 06' 27.95"	TP113	170° 08' 29"	350° 08' 29"	35.99
TP113	46° 23' 18.52" 70° 06' 27.66"	TP114	159° 32' 35"	339° 32' 36"	49.19
TP114	46° 23' 17.03" 70° 06' 26.86"	TP115	211° 08' 36"	31° 08' 35"	44.70
TP115	46° 23' 15.79" 70° 06' 27.94"	TP116	254° 09' 36"	74° 09' 35"	28.91
TP116	46° 23' 15.53" 70° 06' 29.24"	TP117	310° 51' 36"	130° 51' 35"	50.81
TP117	46° 23' 16.61" 70° 06' 31.04"	TP118	340° 24' 33"	160° 24' 33"	21.71
TP118	46° 23' 17.27" 70° 06' 31.38"	TP119	43° 57' 34"	223° 57' 36"	65.80
TP119	46° 23' 18.81" 70° 06' 29.24"	TP120	355° 39' 43"	175° 39' 43"	20.41
TP120	46° 23' 19.47" 70° 06' 29.31"	TP121	277° 26' 43"	97° 26' 41"	58.31
TP121	46° 23' 19.71" 70° 06' 32.02"	TP122	280° 54' 44"	100° 54' 41"	78.81
TP122	46° 23' 20.19" 70° 06' 35.64"	TP123	260° 32' 37"	80° 32' 36"	22.01
TP123	46° 23' 20.08" 70° 06' 36.66"	TP124	186° 27' 45"	6° 27' 44"	28.80
TP124	46° 23' 19.15" 70° 06' 36.81"	TP125	148° 45' 43"	328° 45' 45"	80.69

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP125	46° 23' 16.92" 70° 06' 34.85"	TP126	188° 33' 42"	8° 33' 42"	41.70
TP126	46° 23' 15.58" 70° 06' 35.14"	TP127	232° 27' 45"	52° 27' 44"	43.90
TP127	46° 23' 14.71" 70° 06' 36.77"	TP128	281° 13' 41"	101° 13' 40"	24.91
TP128	46° 23' 14.87" 70° 06' 37.92"	TP129	309° 26' 39"	129° 26' 38"	58.61
TP129	46° 23' 16.08" 70° 06' 40.03"	TP130	337° 15' 34"	157° 15' 33"	70.41
TP130	46° 23' 18.18" 70° 06' 41.31"	TP131	243° 38' 33"	63° 38' 31"	72.31
TP131	46° 23' 17.14" 70° 06' 44.34"	TP132	227° 09' 25"	47° 09' 24"	26.70
TP132	46° 23' 16.55" 70° 06' 45.26"	TP133	194° 00' 26"	14° 00' 26"	30.20
TP133	46° 23' 15.60" 70° 06' 45.60"	TP134	116° 34' 21"	296° 34' 23"	66.19
TP134	46° 23' 14.64" 70° 06' 42.83"	TP135	142° 58' 20"	322° 58' 23"	137.59
TP135	46° 23' 11.09" 70° 06' 38.95"	TP136	172° 54' 28"	352° 54' 28"	34.10
TP136	46° 23' 09.99" 70° 06' 38.75"	TP137	236° 12' 16"	56° 12' 15"	31.30
TP137	46° 23' 09.43" 70° 06' 39.97"	TP138	266° 42' 10"	86° 42' 06"	122.61
TP138	46° 23' 09.20" 70° 06' 45.70"	TP139	244° 17' 02"	64° 17' 00"	66.61
TP139	46° 23' 08.26" 70° 06' 48.51"	TP140	215° 11' 56"	35° 11' 55"	49.90
TP140	46° 23' 06.94" 70° 06' 49.85"	TP141	256° 31' 45"	76° 31' 44"	28.71

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP141	46° 23' 06.73" 70° 06' 51.16"	TP142	297° 42' 34"	117° 42' 32"	35.61
TP142	46° 23' 07.26" 70° 06' 52.64"	TP143	324° 22' 16"	144° 22' 16"	23.91
TP143	46° 23' 07.89" 70° 06' 53.29"	TP144	16° 16' 05"	196° 16' 05"	65.70
TP144	46° 23' 09.93" 70° 06' 52.43"	TP145 RMC22 RMC21	336° 04' 04" 333° 21' 02" 128° 35' 23"	156° 04' 03" 153° 20' 56" 308° 35' 23"	61.00 401.23 14.30
RMC21	46° 23' 09.645" 70° 06' 51.903"	RMC22 TP144	332° 31' 20" 308° 35' 23"	152° 31' 14" 128° 35' 23"	414.26 14.30
RMC22	46° 23' 21.548" 70° 07' 00.849"	TP144	153° 20' 56"	333° 21' 02"	401.23
TP145	46° 23' 11.74" 70° 06' 53.58"	TP146	357° 29' 01"	177° 29' 00"	158.19
TP146	46° 23' 16.86" 70° 06' 53.91"	TP147	320° 13' 07"	140° 13' 06"	21.70
TP147	46° 23' 17.40" 70° 06' 54.56"	TP148	279° 29' 09"	99° 29' 06"	82.71
TP148	46° 23' 17.84" 70° 06' 58.38"	TP149	256° 31' 13"	76° 31' 12"	34.22
TP149	46° 23' 17.58" 70° 06' 59.93"	TP150	219° 47' 13"	39° 47' 12"	50.42
TP150	46° 23' 16.33" 70° 07' 01.44"	TP151	175° 17' 19"	355° 17' 20"	52.21
TP151	46° 23' 14.64" 70° 07' 01.24"	TP152	118° 24' 19"	298° 24' 21"	87.59
TP152	46° 23' 13.29" 70° 06' 57.64"	TP153	167° 10' 26"	347° 10' 26"	46.61
TP153	46° 23' 11.82" 70° 06' 57.15"	TP154	198° 01' 22"	18° 01' 21"	81.91

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP154	46° 23' 09.30" 70° 06' 58.34"	TP155	225° 13' 22"	45° 13' 19"	115.22
TP155	46° 23' 06.67" 70° 07' 02.17"	TP156	234° 24' 18"	54° 24' 04"	498.94
TP156	46° 22' 57.26" 70° 07' 21.15"	TP157	241° 45' 02"	61° 44' 57"	140.22
TP157	46° 22' 55.11" 70° 07' 26.93"	TP158	249° 10' 58"	69° 10' 54"	136.62
TP158	46° 22' 53.54" 70° 07' 32.91"	TP159	226° 09' 55"	46° 09' 54"	44.32
TP159	46° 22' 52.55" 70° 07' 34.41"	TP160	212° 42' 48"	32° 42' 46"	114.22
TP160	46° 22' 49.44" 70° 07' 37.29"	TP161	207° 04' 56"	27° 04' 53"	182.43
		RMC24	310° 08' 33"	130° 08' 22"	398.80
		RMS20	109° 44' 50"	289° 44' 52"	52.64
RMC24	46° 22' 57.762" 70° 07' 51.560"	RMS20	127° 47' 43"	307° 47' 55"	448.52
		TP160	130° 08' 22"	310° 08' 33"	398.80
RMS20	46° 22' 48.859" 70° 07' 34.975"	TP160	289° 44' 52"	109° 44' 50"	52.64
TP161	46° 22' 44.18" 70° 07' 41.18"	TP162	174° 21' 08"	354° 21' 09"	291.20
TP162	46° 22' 34.79" 70° 07' 39.84"	TP163	175° 47' 14"	355° 47' 15"	482.00
TP163	46° 22' 19.22" 70° 07' 38.18"	TP164	152° 00' 11"	332° 00' 12"	72.61
		RMC26	289° 42' 10"	109° 42' 04"	189.37
		RMS22	40° 28' 04"	220° 28' 08"	180.69
RMC26	46° 22' 21.290" 70° 07' 46.524"	RMS22	76° 00' 41"	256° 00' 51"	304.59
		TP163	109° 42' 04"	289° 42' 10"	189.37
RMS22	46° 22' 23.674" 70° 07' 32.695"	TP163	220° 28' 08"	40° 28' 04"	180.69
TP164	46° 22' 17.15" 70° 07' 36.59"	TP165	164° 54' 07"	344° 54' 08"	33.51

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP165	46° 22' 16.10" 70° 07' 36.18"	TP166	210° 06' 08"	30° 06' 07"	42.32
TP166	46° 22' 14.91" 70° 07' 37.17"	TP167	267° 23' 05"	87° 23' 01"	110.41
TP167	46° 22' 14.75" 70° 07' 42.33"	TP168	248° 27' 59"	68° 27' 58"	31.41
TP168	46° 22' 14.38" 70° 07' 43.70"	TP169	219° 49' 06"	39° 49' 05"	42.22
TP169	46° 22' 13.33" 70° 07' 44.96"	TP170	179° 53' 00"	359° 53' 00"	86.61
TP170	46° 22' 10.52" 70° 07' 44.96"	TP171	231° 31' 59"	51° 31' 58"	31.22
TP171	46° 22' 09.89" 70° 07' 46.10"	TP172	281° 01' 59"	101° 01' 53"	178.61
TP172	46° 22' 11.00" 70° 07' 54.30"	TP173	238° 33' 54"	58° 33' 49"	178.72
TP173	46° 22' 07.98" 70° 08' 01.44"	TP174	273° 55' 49"	93° 55' 47"	59.81
TP174	46° 22' 08.11" 70° 08' 04.23"	TP175	307° 51' 55"	127° 51' 52"	81.20
RMS25	46° 22' 03.012" 70° 08' 08.617"	RMS26	211° 45' 30"	31° 45' 21"	511.92
		TP174	30° 46' 49"	210° 46' 52"	183.32
TP175	46° 22' 09.73" 70° 08' 07.23"	TP176	349° 01' 51"	169° 01' 51"	52.20
TP176	46° 22' 11.39" 70° 08' 07.69"	TP177	307° 31' 54"	127° 31' 53"	30.10
TP177	46° 22' 11.98" 70° 08' 08.81"	TP178	254° 53' 57"	74° 53' 55"	52.30
TP178	46° 22' 11.54" 70° 08' 11.17"	TP179	229° 52' 54"	49° 52' 51"	112.50
TP179	46° 22' 09.19" 70° 08' 15.20"	TP180	209° 56' 54"	29° 56' 53"	96.40

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP180	46° 22' 06.49" 70° 08' 17.45"	TP181	183° 00' 49"	3° 00' 49"	44.90
TP181	46° 22' 05.03" 70° 08' 17.56"	TP182	169° 59' 58"	349° 59' 58"	45.40
TP182	46° 22' 03.59" 70° 08' 17.19"	TP183	181° 12' 02"	1° 12' 02"	46.70
TP183	46° 22' 02.07" 70° 08' 17.23"	TP184	199° 03' 01"	19° 03' 00"	111.60
TP184	46° 21' 58.66" 70° 08' 18.94"	TP185	218° 30' 03"	38° 30' 01"	102.50
TP185	46° 21' 56.06" 70° 08' 21.92"	TP186	246° 54' 03"	66° 53' 59"	124.89
TP186	46° 21' 54.47" 70° 08' 27.30"	TP187	224° 12' 02"	44° 12' 01"	50.71
		RMC28	298° 37' 02"	118° 36' 56"	190.39
		RMS26	142° 52' 59"	322° 53' 03"	215.23
RMC28	46° 21' 57.427" 70° 08' 35.117"	RMS26	131° 30' 10"	311° 30' 20"	396.60
		TP186	118° 36' 56"	298° 37' 02"	190.39
RMS26	46° 21' 48.915" 70° 08' 21.222"	TP186	322° 53' 03"	142° 52' 59"	215.23
TP187	46° 21' 53.30" 70° 08' 28.95"	TP188	185° 11' 01"	5° 11' 00"	34.71
TP188	46° 21' 52.18" 70° 08' 29.10"	TP189	137° 36' 02"	317° 36' 05"	121.40
TP189	46° 21' 49.27" 70° 08' 25.27"	TP190	194° 15' 02"	14° 15' 02"	79.61
TP190	46° 21' 46.77" 70° 08' 26.19"	TP191	215° 40' 02"	35° 40' 01"	64.21
TP191	46° 21' 45.08" 70° 08' 27.94"	TP192	237° 26' 00"	57° 25' 58"	72.11
TP192	46° 21' 43.83" 70° 08' 30.78"	TP193	271° 03' 57"	91° 03' 53"	116.81

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP193	46° 21' 43.90" 70° 08' 36.24"	TP194	275° 38' 52"	95° 38' 49"	88.41
TP194	46° 21' 44.18" 70° 08' 40.36"	TP195	236° 02' 51"	56° 02' 50"	33.11
TP195	46° 21' 43.58" 70° 08' 41.64"	TP196	209° 42' 54"	29° 42' 51"	162.42
TP196	46° 21' 39.01" 70° 08' 45.41"	TP197	223° 47' 53"	43° 47' 50"	119.51
TP197	46° 21' 36.22" 70° 08' 49.28"	TP198	197° 18' 53"	17° 18' 52"	73.11
TP198	46° 21' 33.96" 70° 08' 50.30"	TP199	231° 11' 50"	51° 11' 48"	77.71
TP199	46° 21' 32.38" 70° 08' 53.13"	TP200	258° 57' 51"	78° 57' 49"	59.81
TP200	46° 21' 32.01" 70° 08' 55.88"	TP201	282° 43' 52"	102° 43' 45"	210.81
TP201	46° 21' 33.51" 70° 09' 05.49"	TP202 RMC30N RMS29	300° 42' 48" 332° 04' 44" 149° 33' 46"	120° 42' 45" 152° 04' 40" 329° 33' 49"	119.00 289.92 201.61
RMC30N	46° 21' 41.811" 70° 09' 11.845"	RMS29 TP201	151° 02' 44" 152° 04' 40"	331° 02' 52" 332° 04' 44"	491.42 289.92
SO RMC30	46° 21' 41.736" 70° 09' 11.748"	RMS29 TP201	151° 07' 41" 152° 13' 43"	331° 07' 49" 332° 13' 48"	488.39 286.90
RMS29	46° 21' 27.885" 70° 09' 00.717"	TP201	329° 33' 49"	149° 33' 46"	201.61
TP202	46° 21' 35.48" 70° 09' 10.28"	TP203	284° 41' 45"	104° 41' 42"	111.30
TP203	46° 21' 36.40" 70° 09' 15.32"	TP204	318° 54' 44"	138° 54' 40"	175.30
TP204	46° 21' 40.68" 70° 09' 20.71"	TP205	287° 44' 38"	107° 44' 36"	55.00

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP205	46° 21' 41.22" 70° 09' 23.16"	TP206	222° 49' 40"	42° 49' 39"	81.30
TP206	46° 21' 39.29" 70° 09' 25.74"	TP207	247° 49' 37"	67° 49' 36"	49.60
TP207	46° 21' 38.68" 70° 09' 27.89"	TP208	230° 14' 40"	50° 14' 39"	32.30
TP208	46° 21' 38.01" 70° 09' 29.05"	TP209	165° 00' 38"	345° 00' 38"	79.30
TP209	46° 21' 35.53" 70° 09' 28.09"	TP210	193° 35' 43"	13° 35' 42"	43.40
TP210	46° 21' 34.17" 70° 09' 28.57"	TP211	241° 27' 38"	61° 27' 37"	58.50
TP211	46° 21' 33.26" 70° 09' 30.97"	TP212	282° 13' 39"	102° 13' 36"	77.30
TP212	46° 21' 33.79" 70° 09' 34.51"	TP213	298° 31' 38"	118° 31' 37"	41.40
TP213	46° 21' 34.43" 70° 09' 36.21"	TP214	327° 33' 36"	147° 33' 35"	39.60
TP214	46° 21' 35.51" 70° 09' 37.20"	TP215	32° 15' 36"	212° 15' 38"	81.91
TP215	46° 21' 37.76" 70° 09' 35.16"	TP216	350° 28' 33"	170° 28' 32"	33.00
TP216	46° 21' 38.81" 70° 09' 35.41"	TP217	310° 50' 37"	130° 50' 36"	32.10
TP217	46° 21' 39.49" 70° 09' 36.55"	TP218	285° 36' 35"	105° 36' 33"	64.40
TP218	46° 21' 40.05" 70° 09' 39.45"	TP219	262° 34' 42"	82° 34' 40"	55.52
		RMC31	353° 49' 33"	173° 49' 33"	106.17
		RMS31	165° 55' 26"	345° 55' 29"	404.71
RMC31	46° 21' 43.471" 70° 09' 39.983"	RMS31	167° 33' 49"	347° 33' 52"	510.07
		TP218	173° 49' 33"	353° 49' 33"	106.17

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
RMS31	46° 21' 27.339" 70° 09' 34.845"	TP218	345° 55' 29"	165° 55' 26"	404.71
TP219	46° 21' 39.82" 70° 09' 42.02"	TP220	230° 27' 54"	50° 27' 52"	78.20
TP220	46° 21' 38.21" 70° 09' 44.85"	TP221	182° 28' 03"	2° 28' 02"	100.18
TP221	46° 21' 34.97" 70° 09' 45.05"	TP222	214° 50' 12"	34° 50' 11"	74.39
TP222	46° 21' 32.99" 70° 09' 47.04"	TP223	264° 47' 14"	84° 47' 11"	89.12
TP223	46° 21' 32.73" 70° 09' 51.19"	TP224	228° 23' 18"	48° 23' 15"	105.80
TP224	46° 21' 30.45" 70° 09' 54.89"	TP225	168° 46' 14"	348° 46' 14"	34.57
TP225	46° 21' 29.35" 70° 09' 54.57"	TP226	219° 57' 21"	39° 57' 18"	102.99
TP226	46° 21' 26.80" 70° 09' 57.67"	TP227	257° 54' 17"	77° 54' 16"	43.01
TP227	46° 21' 26.50" 70° 09' 59.63"	TP228	316° 41' 11"	136° 41' 06"	193.54
TP228	46° 21' 31.07" 70° 10' 05.84"	TP229	293° 52' 04"	113° 51' 58"	213.83
TP229	46° 21' 33.87" 70° 10' 14.99"	TP230 RMC32 RMS32	267° 47' 54" 88° 35' 59" 148° 03' 51"	87° 47' 52" 268° 36' 02" 328° 03' 59"	70.81 86.24 397.74
RMC32	46° 21' 33.936" 70° 10' 10.958"	RMS32 TP229	159° 55' 02" 268° 36' 02"	339° 55' 06" 88° 35' 59"	361.64 86.24
RMS32	46° 21' 22.936" 70° 10' 05.150"	TP229	328° 03' 59"	148° 03' 51"	397.74
TP230	46° 21' 33.78" 70° 10' 18.30"	TP231	255° 58' 48"	75° 58' 45"	90.01

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP231	46° 21' 33.07" 70° 10' 22.39"	TP232	239° 11' 47"	59° 11' 44"	112.22
TP232	46° 21' 31.21" 70° 10' 26.89"	TP233	235° 28' 44"	55° 28' 41"	112.22
TP233	46° 21' 29.15" 70° 10' 31.22"	TP234	200° 31' 43"	20° 31' 41"	178.42
TP234	46° 21' 23.74" 70° 10' 34.15"	TP235	216° 41' 43"	36° 41' 40"	142.12
TP235	46° 21' 20.05" 70° 10' 38.12"	TP236	247° 05' 42"	67° 05' 34"	271.12
		RMC33	318° 53' 43"	138° 53' 40"	149.13
		RMS34	113° 42' 40"	293° 42' 48"	271.74
RMC33	46° 21' 23.689" 70° 10' 42.704"	RMS34	122° 34' 44"	302° 34' 55"	411.61
		TP235	138° 53' 40"	318° 53' 43"	149.13
RMS34	46° 21' 16.511" 70° 10' 26.480"	TP235	293° 42' 48"	113° 42' 40"	271.74
TP236	46° 21' 16.63" 70° 10' 49.80"	TP237	222° 21' 50"	42° 21' 48"	69.17
TP237	46° 21' 14.98" 70° 10' 51.98"	TP238	188° 25' 10"	8° 25' 09"	184.63
TP238	46° 21' 09.06" 70° 10' 53.24"	TP239	205° 43' 19"	25° 43' 18"	41.50
		RMC34	311° 18' 32"	131° 18' 30"	85.73
		RMS35	146° 39' 30"	326° 39' 34"	176.83
RMC34	46° 21' 10.895" 70° 10' 56.255"	RMS35	141° 39' 36"	321° 39' 41"	260.49
		TP238	131° 18' 30"	311° 18' 32"	85.73
RMS35	46° 21' 04.278" 70° 10' 56.255"	TP238	326° 39' 34"	146° 39' 30"	176.83
TP239	46° 21' 07.85" 70° 10' 54.09"	TP240	236° 57' 19"	56° 57' 17"	73.10
TP240	46° 21' 06.56" 70° 10' 56.95"	TP241	252° 29' 12"	72° 29' 10"	68.00
TP241	46° 21' 05.90" 70° 10' 59.99"	TP242	295° 35' 08"	115° 35' 05"	84.40

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP242	46° 21' 07.08" 70° 11' 03.55"	TP243	225° 35' 03"	45° 35' 00"	135.30
TP243	46° 21' 04.01" 70° 11' 08.07"	TP244	236° 18' 58"	56° 18' 52"	219.80
TP244	46° 21' 00.06" 70° 11' 16.62"	TP245	260° 16' 50"	80° 16' 48"	49.50
TP245	46° 20' 59.79" 70° 11' 18.90"	TP246	306° 03' 47"	126° 03' 44"	101.50
TP246	46° 21' 01.73" 70° 11' 22.74"	TP247	256° 08' 44"	76° 08' 40"	122.00
TP247	46° 21' 00.78" 70° 11' 28.28"	TP248	214° 51' 38"	34° 51' 36"	132.30
TP248	46° 20' 57.27" 70° 11' 31.82"	TP249	186° 17' 38"	6° 17' 38"	22.80
TP249	46° 20' 56.53" 70° 11' 31.93"	TP250	101° 45' 27"	281° 45' 29"	39.90
TP250	46° 20' 56.27" 70° 11' 30.11"	TP251	160° 28' 32"	340° 28' 33"	100.90
TP251	46° 20' 53.19" 70° 11' 28.53"	TP252	180° 23' 32"	0° 23' 32"	22.49
		RMC36	278° 05' 34"	98° 05' 30"	111.03
		RMS37	125° 25' 30"	305° 25' 34"	161.49
RMC36	46° 20' 53.694" 70° 11' 33.670"	RMS37	114° 20' 08"	294° 20' 16"	265.07
		TP251	98° 05' 30"	278° 05' 34"	111.03
RMS37	46° 20' 50.156" 70° 11' 22.374"	TP251	305° 25' 34"	125° 25' 30"	161.49
TP252	46° 20' 52.46" 70° 11' 28.54"	TP253	204° 19' 41"	24° 19' 41"	41.19
TP253	46° 20' 51.24" 70° 11' 29.33"	TP254	251° 16' 43"	71° 16' 40"	89.59
TP254	46° 20' 50.31" 70° 11' 33.30"	TP255	222° 05' 39"	42° 05' 38"	62.49

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP255	46° 20' 48.81" 70° 11' 35.26"	TP256	192° 26' 39"	12° 26' 38"	107.19
TP256	46° 20' 45.42" 70° 11' 36.34"	TP257	214° 11' 39"	34° 11' 34"	225.88
TP257	46° 20' 39.37" 70° 11' 42.27"	TP258	206° 11' 34"	26° 11' 32"	121.88
TP258	46° 20' 35.83" 70° 11' 44.79"	TP259	159° 48' 33"	339° 48' 35"	133.49
TP259	46° 20' 31.77" 70° 11' 42.63"	TP260	200° 00' 34"	20° 00' 33"	104.88
TP260	46° 20' 28.58" 70° 11' 44.31"	TP261	184° 53' 34"	4° 53' 34"	48.99
TP261	46° 20' 27.00" 70° 11' 44.51"	TP262	216° 09' 41"	36° 09' 40"	34.79
TP262	46° 20' 26.09" 70° 11' 45.47"	TP263 RMC38A-99 RMS39	239° 52' 56" 319° 09' 53" 75° 38' 35"	59° 52' 53" 139° 09' 51" 255° 38' 41"	101.33 95.24 170.88
RMC38A-99	46° 20' 28.423" 70° 11' 48.380"	RMS39 TP262	97° 25' 25" 139° 09' 51"	277° 25' 33" 319° 09' 53"	229.75 95.24
RMC38	46° 20' 29.035" 70° 11' 50.274"	RMS39 TP262	100° 15' 44" 131° 30' 32"	280° 15' 53" 311° 30' 35"	272.68 137.24
RMS39	46° 20' 27.461" 70° 11' 37.727"	TP262	255° 38' 41"	75° 38' 35"	170.88
TP263	46° 20' 24.44" 70° 11' 49.57"	TP264	213° 38' 11"	33° 38' 08"	163.40
TP264	46° 20' 20.04" 70° 11' 53.80"	TP265	227° 37' 18"	47° 37' 14"	146.62
TP265	46° 20' 16.84" 70° 11' 58.86"	TP266	204° 56' 26"	24° 56' 25"	42.89
TP266	46° 20' 15.58" 70° 11' 59.71"	TP267	224° 44' 26"	44° 44' 24"	107.91

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP267	46° 20' 13.09" 70° 12' 03.26"	TP268	203° 29' 22"	23° 29' 20"	208.18
TP268	46° 20' 06.91"	TP269	234° 48' 17"	54° 48' 11"	209.51
	70° 12' 07.14"	RMC40	308° 28' 10"	128° 28' 06"	143.68
		RMS41	131° 46' 09"	311° 46' 12"	116.31
RMC40	46° 20' 09.805"	RMS41	129° 56' 40"	309° 56' 47"	259.88
	70° 12' 12.400"	TP268	128° 28' 06"	308° 28' 10"	143.68
RMS41	46° 20' 04.402"	TP268	311° 46' 12"	131° 46' 09"	116.31
	70° 12' 03.084"				
TP269	46° 20' 03.00"	TP270	217° 23' 13"	37° 23' 11"	116.50
	70° 12' 15.15"				
TP270	46° 20' 00.00"	TP271	188° 08' 10"	8° 08' 09"	79.29
	70° 12' 18.45"				
TP271	46° 19' 57.46"	TP272	225° 50' 08"	45° 50' 05"	130.21
	70° 12' 18.98"				
TP272	46° 19' 54.52"	TP273	244° 43' 58"	64° 43' 55"	82.12
	70° 12' 23.34"				
TP273	46° 19' 53.39"	TP274	209° 35' 49"	29° 35' 46"	204.20
	70° 12' 26.82"				
TP274	46° 19' 47.64"	TP275	197° 37' 47"	17° 37' 46"	47.21
	70° 12' 31.53"	RMC42N	255° 33' 18"	75° 33' 16"	67.76
		RMS43	130° 37' 35"	310° 37' 41"	231.19
RMC42N	46° 19' 47.089"	RMS43	118° 59' 52"	299° 00' 00"	275.64
	70° 12' 34.599"	TP274	75° 33' 16"	255° 33' 18"	67.76
SO RMC42	46° 19' 47.218"	RMS43	119° 51' 25"	299° 51' 33"	276.41
	70° 12' 34.535"	TP274	78° 37' 37"	258° 37' 40"	65.54
RMS43	46° 19' 42.761"	TP274	310° 37' 41"	130° 37' 35"	231.19
	70° 12' 23.328"				
TP275	46° 19' 46.18"	TP276	147° 26' 53"	327° 26' 57"	189.79
	70° 12' 32.20"				
TP276	46° 19' 41.00"	TP277	165° 33' 59"	345° 34' 02"	301.20
	70° 12' 27.43"				

SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP277	46° 19' 31.55" 70° 12' 23.92"	TP278	156° 32' 57"	336° 32' 57"	46.40
TP278	46° 19' 30.17" 70° 12' 23.05"	TP279	141° 07' 51"	321° 07' 52"	43.59
TP279	46° 19' 29.07" 70° 12' 21.77"	TP280	175° 30' 42"	355° 30' 42"	94.40
TP280	46° 19' 26.03" 70° 12' 21.43"	TP281	206° 16' 39"	26° 16' 36"	213.32
TP281	46° 19' 19.83" 70° 12' 25.84"	TP282	170° 42' 24"	350° 42' 25"	60.90
TP282	46° 19' 17.88" 70° 12' 25.38"	TP283	143° 29' 18"	323° 29' 19"	45.71
		RMC44	271° 54' 09"	91° 54' 02"	194.78
		RMS45	84° 03' 24"	264° 03' 28"	97.72
RMC44	46° 19' 18.094" 70° 12' 34.483"	RMS45	89° 16' 52"	269° 17' 02"	291.89
		TP282	91° 54' 02"	271° 54' 09"	194.78
RMS45	46° 19' 18.212" 70° 12' 20.840"	TP282	264° 03' 28"	84° 03' 24"	97.72
TP283	46° 19' 16.70" 70° 12' 24.11"	TP284	184° 50' 21"	4° 50' 21"	109.01
TP284	46° 19' 13.18" 70° 12' 24.54"	TP285	210° 58' 20"	30° 58' 19"	61.20
TP285	46° 19' 11.48" 70° 12' 26.01"	TP286	188° 32' 25"	8° 32' 24"	34.01
TP286	46° 19' 10.39" 70° 12' 26.25"	TP287	155° 27' 27"	335° 27' 29"	113.91
TP287	46° 19' 07.03" 70° 12' 24.04"	TP288	147° 11' 31"	327° 11' 33"	151.01
TP288	46° 19' 02.92" 70° 12' 20.21"	TP289	127° 21' 34"	307° 21' 38"	126.71
TP289	46° 19' 00.43" 70° 12' 15.51"	TP290	191° 42' 39"	11° 42' 39"	67.31

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec		State: Maine			
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP290	46° 18' 58.30" 70° 12' 16.15"	TP291	156° 16' 42"	336° 16' 44"	98.71
TP291	46° 18' 55.37" 70° 12' 14.29"	TP292	134° 46' 45"	314° 46' 47"	86.31
TP292	46° 18' 53.40" 70° 12' 11.43"	TP293	164° 19' 51"	344° 19' 51"	54.61
TP293	46° 18' 51.70" 70° 12' 10.74"	TP294	182° 53' 57"	2° 53' 57"	55.90
TP294	46° 18' 49.89" 70° 12' 10.87"	TP295	196° 27' 58"	16° 27' 57"	99.60
TP295	46° 18' 46.80" 70° 12' 12.19"	TP296	202° 45' 01"	22° 45' 01"	56.90
TP296	46° 18' 45.10" 70° 12' 13.22"	TP297	210° 32' 02"	30° 32' 00"	96.60
TP297	46° 18' 42.40" 70° 12' 15.51"	TP298	202° 35' 10"	22° 35' 08"	135.79
		RMC48	269° 41' 03"	89° 41' 01"	56.08
		RMS49	96° 10' 03"	276° 10' 10"	200.20
RMC48	46° 18' 42.394" 70° 12' 18.132"	RMS49	94° 44' 59"	274° 45' 07"	256.00
		TP297	89° 41' 01"	269° 41' 03"	56.08
RMS49	46° 18' 41.707" 70° 12' 06.208"	TP297	276° 10' 10"	96° 10' 03"	200.20
TP298	46° 18' 38.34" 70° 12' 17.95"	TP299	224° 06' 18"	44° 06' 15"	123.29
TP299	46° 18' 35.48" 70° 12' 21.96"	TP300	180° 49' 22"	0° 49' 22"	267.38
TP300	46° 18' 26.82" 70° 12' 22.14"	TP301	193° 15' 21"	13° 15' 20"	132.70
		RMC50	227° 55' 31"	47° 55' 26"	170.02
		RMS50	38° 45' 26"	218° 45' 32"	281.02
RMC50	46° 18' 23.128" 70° 12' 28.035"	RMS50	42° 12' 35"	222° 12' 45"	449.68
		TP300	47° 55' 26"	227° 55' 31"	170.02
RMS50	46° 18' 33.915" 70° 12' 13.916"	TP300	218° 45' 32"	38° 45' 26"	281.02

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec		State: Maine			
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP301	46° 18' 22.63" 70° 12' 23.56"	TP302	173° 00' 17"	353° 00' 17"	90.41
TP302	46° 18' 19.73" 70° 12' 23.05"	TP303	154° 15' 10"	334° 15' 11"	72.41
TP303	46° 18' 17.62" 70° 12' 21.58"	TP304	170° 57' 06"	350° 57' 07"	128.11
TP304	46° 18' 13.52" 70° 12' 20.63"	TP305	153° 32' 04"	333° 32' 05"	67.51
TP305	46° 18' 11.56" 70° 12' 19.23"	TP306	178° 02' 03"	358° 02' 03"	43.21
TP306	46° 18' 10.16" 70° 12' 19.16"	TP307	201° 38' 58"	21° 38' 57"	57.10
TP307	46° 18' 08.44" 70° 12' 20.14"	TP308	221° 39' 57"	41° 39' 54"	121.00
TP308	46° 18' 05.52" 70° 12' 23.90"	TP309	191° 40' 51"	11° 40' 51"	38.20
TP309	46° 18' 04.30" 70° 12' 24.26"	TP310	154° 23' 52"	334° 23' 52"	39.71
TP310	46° 18' 03.14" 70° 12' 23.46"	TP311	118° 19' 59"	298° 20' 00"	55.62
TP311	46° 18' 02.29" 70° 12' 21.17"	TP312	140° 58' 07"	320° 58' 08"	29.51
TP312	46° 18' 01.55" 70° 12' 20.31"	TP313	174° 00' 07"	354° 00' 07"	27.61
TP313	46° 18' 00.66" 70° 12' 20.17"	TP314	202° 47' 11"	22° 47' 11"	55.00
TP314	46° 17' 59.02" 70° 12' 21.17"	TP315 RMC52 RMS53	229° 49' 11" 294° 35' 17" 147° 12' 14"	49° 49' 09" 114° 35' 11" 327° 12' 15"	91.61 202.77 67.61
RMC52	46° 18' 01.748" 70° 12' 29.781"	RMS53 TP314	122° 34' 25" 114° 35' 11"	302° 34' 32" 294° 35' 17"	262.26 202.77

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
RMS53	46° 17' 57.175" 70° 12' 19.454"	TP314	327° 12' 15"	147° 12' 14"	67.61
TP315	46° 17' 57.10" 70° 12' 24.44"	TP316	256° 25' 05"	76° 24' 59"	182.40
TP316	46° 17' 55.71" 70° 12' 32.72"	TP317	234° 54' 57"	54° 54' 54"	119.41
TP317	46° 17' 53.49" 70° 12' 37.29"	TP318	267° 54' 52"	87° 54' 50"	65.30
TP318	46° 17' 53.41" 70° 12' 40.34"	TP319	313° 03' 52"	133° 03' 50"	70.29
TP319	46° 17' 54.97" 70° 12' 42.73"	TP320	259° 45' 54"	79° 45' 52"	39.20
TP320	46° 17' 54.74" 70° 12' 44.54"	TP321	205° 17' 56"	25° 17' 55"	62.11
TP321	46° 17' 52.92" 70° 12' 45.78"	TP322	239° 28' 58"	59° 28' 56"	61.09
RMC53	46° 17' 55.188" 70° 12' 50.300"	RMC52	65° 14' 03"	245° 14' 18"	483.59
TP322	46° 17' 51.92" 70° 12' 48.24"	TP323	125° 49' 54"	305° 49' 58"	119.38
TP323	46° 17' 49.88" 70° 12' 50.73"	TP324	220° 13' 55"	40° 13' 53"	82.49
TP324	46° 17' 48.41" 70° 12' 51.34"	TP325	196° 01' 55"	16° 01' 54"	47.29
TP325	46° 17' 47.85" 70° 12' 49.28"	TP326	111° 26' 53"	291° 26' 54"	47.20
TP326	46° 17' 47.02" 70° 12' 48.68"	TP327	153° 09' 55"	333° 09' 55"	28.69
TP327	46° 17' 45.38" 70° 12' 52.23"	TP328	236° 19' 00"	56° 18' 57"	91.39
TP328	46° 17' 43.41" 70° 12' 51.81"	TP329	171° 28' 56"	351° 28' 57"	61.59
			276° 22' 53"	96° 22' 52"	32.30

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP329	46° 17' 43.52" 70° 12' 53.30"	TP330	259° 31' 56"	79° 31' 55"	31.19
TP330	46° 17' 43.34" 70° 12' 54.74"	TP331	170° 09' 56"	350° 09' 56"	40.69
TP331	46° 17' 42.04" 70° 12' 54.41"	TP332	201° 13' 49"	21° 13' 49"	28.89
TP332	46° 17' 41.17" 70° 12' 54.90"	TP333	282° 58' 54"	102° 58' 52"	42.50
TP333	46° 17' 41.48" 70° 12' 56.84"	TP334	331° 59' 47"	151° 59' 46"	71.81
TP334	46° 17' 43.53" 70° 12' 58.41"	TP335	272° 17' 46"	92° 17' 44"	51.90
TP335	46° 17' 43.60" 70° 13' 00.84"	TP336	236° 40' 44"	56° 40' 42"	42.39
TP336	46° 17' 42.84" 70° 13' 02.49"	TP337	142° 56' 36"	322° 56' 37"	76.49
TP337	46° 17' 40.87" 70° 13' 00.34"	TP338	157° 24' 31"	337° 24' 31"	29.49
TP338	46° 17' 39.99" 70° 12' 59.81"	TP339	228° 29' 32"	48° 29' 31"	35.79
TP339	46° 17' 39.22" 70° 13' 01.06"	TP340	267° 31' 26"	87° 31' 24"	68.70
TP340	46° 17' 39.12" 70° 13' 04.27"	TP341	247° 12' 21"	67° 12' 16"	130.59
TP341	46° 17' 37.48" 70° 13' 09.89"	TP342	238° 19' 13"	58° 19' 09"	118.39
TP342	46° 17' 35.47" 70° 13' 14.60"	TP343 RMC56-00 RMS56	269° 42' 11" 292° 53' 48" 113° 10' 53"	89° 42' 06" 112° 53' 41" 293° 11' 01"	159.31 196.58 265.80
RMC56-00	46° 17' 37.946" 70° 13' 23.059"	RMS56 TP342	113° 03' 31" 112° 53' 41"	293° 03' 45" 292° 53' 48"	462.37 196.58

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
SO RMC56	46° 17' 38.006" 70° 13' 23.007"	RMS56 TP342	113° 19' 27" 113° 31' 11"	293° 19' 41" 293° 31' 17"	462.08 196.29
RMC57	46° 17' 46.471" 70° 13' 43.992"	RMC56	120° 11' 44"	300° 11' 59"	519.66
RMS56	46° 17' 32.080" 70° 13' 03.183"	TP342	293° 11' 01"	113° 10' 53"	265.80
TP343	46° 17' 35.44" 70° 13' 22.04"	TP344	227° 42' 17"	47° 42' 15"	61.50
TP344	46° 17' 34.10" 70° 13' 24.17"	TP345	254° 29' 22"	74° 29' 20"	68.20
TP345	46° 17' 33.51" 70° 13' 27.24"	TP346	277° 04' 28"	97° 04' 24"	111.31
TP346	46° 17' 33.96" 70° 13' 32.40"	TP347	253° 13' 31"	73° 13' 28"	104.30
TP347	46° 17' 32.98" 70° 13' 37.06"	TP348	225° 13' 29"	45° 13' 27"	51.40
TP348	46° 17' 31.81" 70° 13' 38.77"	TP349	246° 23' 47"	66° 23' 46"	25.80
TP349	46° 17' 31.47" 70° 13' 39.87"	TP350	287° 05' 53"	107° 05' 52"	26.31
TP350	46° 17' 31.72" 70° 13' 41.05"	TP351	315° 03' 01"	135° 03' 00"	39.62
TP351	46° 17' 32.63" 70° 13' 42.36"	TP352	253° 12' 15"	73° 12' 14"	20.50
TP352	46° 17' 32.44" 70° 13' 43.27"	TP353	220° 51' 29"	40° 51' 28"	26.10
TP353	46° 17' 31.80" 70° 13' 44.07"	TP354	171° 04' 37"	351° 04' 37"	44.49
TP354	46° 17' 30.38" 70° 13' 43.75"	TP355	203° 33' 45"	23° 33' 45"	23.39
TP355	46° 17' 29.68" 70° 13' 44.18"	TP356	253° 25' 49"	73° 25' 47"	82.60

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP356	46° 17' 28.92" 70° 13' 47.88"	TP357	264° 35' 49"	84° 35' 46"	70.11
TP357	46° 17' 28.71" 70° 13' 51.14"	TP358	242° 08' 45"	62° 08' 43"	66.20
TP358	46° 17' 27.70" 70° 13' 53.88"	TP359	180° 45' 43"	0° 45' 43"	205.88
TP359	46° 17' 21.04" 70° 13' 54.01"	TP360	197° 00' 40"	17° 00' 39"	44.29
TP360	46° 17' 19.67" 70° 13' 54.61"	TP361	169° 36' 34"	349° 36' 35"	74.69
TP361	46° 17' 17.29" 70° 13' 53.98"	TP362	192° 56' 34"	12° 56' 34"	64.09
TP362	46° 17' 15.26" 70° 13' 54.65"	TP363	182° 42' 27"	2° 42' 27"	86.89
TP363	46° 17' 12.45" 70° 13' 54.84"	TP364	200° 33' 25"	20° 33' 23"	138.59
TP364	46° 17' 08.25" 70° 13' 57.12"	TP365	179° 55' 20"	359° 55' 20"	102.00
		RMC58	291° 24' 21"	111° 24' 16"	128.36
		RMS58	131° 59' 19"	311° 59' 20"	64.57
RMC58	46° 17' 09.767" 70° 14' 02.701"	RMS58	118° 15' 37"	298° 15' 42"	190.17
		TP364	111° 24' 16"	291° 24' 21"	128.36
RMS58	46° 17' 06.851" 70° 13' 54.876"	TP364	311° 59' 20"	131° 59' 19"	64.57
TP365	46° 17' 04.95" 70° 13' 57.11"	TP366	216° 12' 14"	36° 12' 12"	64.50
TP366	46° 17' 03.26" 70° 13' 58.89"	TP367	229° 23' 12"	49° 23' 09"	133.30
TP367	46° 17' 00.45" 70° 14' 03.62"	TP368	200° 45' 05"	20° 45' 03"	94.20
TP368	46° 16' 57.60" 70° 14' 05.18"	TP369	209° 57' 02"	29° 57' 00"	76.30

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP369	46° 16' 55.46" 70° 14' 06.96"	TP370	193° 22' 57"	13° 22' 56"	68.60
TP370	46° 16' 53.30" 70° 14' 07.70"	TP371	234° 30' 53"	54° 30' 50"	127.80
TP371	46° 16' 50.89" 70° 14' 12.56"	TP372	268° 16' 48"	88° 16' 45"	68.20
TP372	46° 16' 50.83" 70° 14' 15.74"	TP373	227° 29' 44"	47° 29' 41"	98.50
TP373	46° 16' 48.67" 70° 14' 19.14"	TP374	219° 23' 39"	39° 23' 36"	149.20
TP374	46° 16' 44.94" 70° 14' 23.56"	TP375	178° 26' 35"	358° 26' 35"	155.50
TP375	46° 16' 39.90" 70° 14' 23.36"	TP376	209° 39' 32"	29° 39' 31"	56.80
TP376	46° 16' 38.30" 70° 14' 24.67"	TP377	177° 16' 28"	357° 16' 28"	36.60
TP377	46° 16' 37.12" 70° 14' 24.59"	TP378	139° 14' 27"	319° 14' 29"	79.00
TP378	46° 16' 35.18" 70° 14' 22.18"	TP379	176° 34' 25"	356° 34' 25"	76.10
TP379	46° 16' 32.72" 70° 14' 21.97"	TP380 RMC59N RMS59-00	209° 55' 25" 295° 30' 35" 128° 01' 54"	29° 55' 24" 115° 30' 24" 308° 01' 56"	42.00 364.22 92.93
RMC59N	46° 16' 37.801" 70° 14' 37.324"	RMS59-00 TP379	118° 02' 33" 115° 30' 24"	298° 02' 46" 295° 30' 35"	455.38 364.22
RMS59-00	46° 16' 30.867" 70° 14' 18.552"	TP379	308° 01' 56"	128° 01' 54"	92.93
SO RMC59	46° 16' 37.794" 70° 14' 37.191"	SO RMS59 TP379	118° 09' 13" 115° 40' 07"	298° 09' 27" 295° 40' 18"	455.54 361.55
SO RMS59	46° 16' 30.832" 70° 14' 18.432"	TP379	307° 35' 36"	127° 35' 34"	95.62

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP380	46° 16' 31.54" 70° 14' 22.95"	TP381	232° 19' 24"	52° 19' 21"	95.80
TP381	46° 16' 29.65" 70° 14' 26.49"	TP382	191° 20' 25"	11° 20' 25"	84.80
TP382	46° 16' 26.95" 70° 14' 27.27"	TP383	160° 39' 22"	340° 39' 23"	85.90
TP383	46° 16' 24.33" 70° 14' 25.94"	TP384	190° 38' 29"	10° 38' 28"	53.60
TP384	46° 16' 22.62" 70° 14' 26.40"	TP385	231° 28' 24"	51° 28' 22"	48.10
TP385	46° 16' 21.65" 70° 14' 28.16"	TP386	282° 17' 29"	102° 17' 28"	37.40
TP386	46° 16' 21.91" 70° 14' 29.87"	TP387	329° 56' 29"	149° 56' 28"	81.40
TP387	46° 16' 24.19" 70° 14' 31.77"	TP388	284° 37' 26"	104° 37' 25"	27.20
TP388	46° 16' 24.41" 70° 14' 33.00"	TP389	237° 15' 34"	57° 15' 32"	78.10
TP389	46° 16' 23.05" 70° 14' 36.07"	TP390	192° 20' 33"	12° 20' 32"	46.60
TP390	46° 16' 21.57" 70° 14' 36.53"	TP391	151° 16' 34"	331° 16' 35"	71.60
TP391	46° 16' 19.54" 70° 14' 34.93"	TP392	181° 18' 45"	1° 18' 45"	31.40
TP392	46° 16' 18.52" 70° 14' 34.96"	TP393	224° 03' 42"	44° 03' 37"	218.80
TP393	46° 16' 13.43" 70° 14' 42.07"	TP394	223° 57' 39"	43° 57' 37"	88.00
TP394	46° 16' 11.38" 70° 14' 44.92"	TP395	207° 23' 40"	27° 23' 38"	134.02
		RMC60	306° 33' 39"	126° 33' 33"	242.55
		RMS60N	102° 57' 57"	282° 58' 02"	131.44

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
RMC60	46° 16' 16.056" 70° 14' 54.017"	RMS60N TP394	118° 18' 45" 126° 33' 33"	298° 18' 56" 306° 33' 39"	366.79 242.55
RMS60N	46° 16' 10.422" 70° 14' 38.937"	TP394	282° 58' 02"	102° 57' 57"	131.44
SO RMS60	46° 16' 10.413" 70° 14' 38.913"	TP394	283° 01' 41"	103° 01' 37"	132.01
TP395	46° 16' 07.52" 70° 14' 47.80"	TP396	224° 20' 41"	44° 20' 37"	153.02
TP396	46° 16' 03.98" 70° 14' 52.79"	TP397	213° 38' 41"	33° 38' 39"	92.31
TP397	46° 16' 01.49" 70° 14' 55.18"	TP398	176° 39' 42"	356° 39' 42"	72.81
TP398	46° 15' 59.14" 70° 14' 54.98"	TP399	157° 10' 47"	337° 10' 48"	57.61
TP399	46° 15' 57.42" 70° 14' 53.94"	TP400	188° 36' 50"	8° 36' 50"	86.81
TP400	46° 15' 54.64" 70° 14' 54.55"	TP401	227° 45' 52"	47° 45' 49"	107.72
TP401	46° 15' 52.29" 70° 14' 58.27"	TP402	206° 57' 50"	26° 57' 50"	24.71
TP402	46° 15' 51.58" 70° 14' 58.79"	TP403	128° 23' 58"	308° 23' 59"	45.20
TP403	46° 15' 50.67" 70° 14' 57.14"	TP404	190° 49' 59"	10° 49' 58"	22.31
TP404	46° 15' 49.96" 70° 14' 57.34"	TP405	263° 28' 07"	83° 28' 05"	35.01
TP405	46° 15' 49.83" 70° 14' 58.96"	TP406	232° 14' 11"	52° 14' 10"	35.72
TP406	46° 15' 49.12" 70° 15' 00.28"	TP407	201° 36' 13"	21° 36' 12"	67.91
TP407	46° 15' 47.08" 70° 15' 01.45"	TP408	191° 40' 12"	11° 40' 12"	36.21

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP408	46° 15' 45.93" 70° 15' 01.79"	TP409	154° 01' 11"	334° 01' 11"	30.11
TP409	46° 15' 45.05" 70° 15' 01.17"	TP410	79° 23' 19"	259° 23' 20"	45.09
TP410	46° 15' 45.32" 70° 14' 59.10"	TP411	153° 58' 18"	333° 58' 18"	23.01
TP411	46° 15' 44.65" 70° 14' 58.63"	TP412	231° 58' 19"	51° 58' 17"	62.62
TP412	46° 15' 43.40" 70° 15' 00.94"	TP413	216° 56' 20"	36° 56' 20"	18.61
TP413	46° 15' 42.92" 70° 15' 01.46"	TP414	140° 34' 16"	320° 34' 17"	35.40
TP414	46° 15' 42.03" 70° 15' 00.41"	TP415	176° 22' 15"	356° 22' 15"	27.51
TP415	46° 15' 41.15" 70° 15' 00.33"	TP416	231° 40' 14"	51° 40' 13"	51.61
TP416	46° 15' 40.11" 70° 15' 02.22"	TP417	178° 13' 11"	358° 13' 11"	43.21
TP417	46° 15' 38.71" 70° 15' 02.15"	TP418	226° 58' 10"	46° 58' 10"	24.22
TP418	46° 15' 38.18" 70° 15' 02.98"	TP419	283° 24' 02"	103° 24' 00"	39.21
TP419	46° 15' 38.47" 70° 15' 04.76"	TP420	228° 22' 06"	48° 22' 03"	121.69
		RMC61	294° 08' 01"	114° 07' 50"	347.07
		RMS61	176° 33' 46"	356° 33' 46"	68.19
RMC61	46° 15' 43.065" 70° 15' 19.551"	RMS61	123° 12' 04"	303° 12' 15"	383.42
		TP419	114° 07' 50"	294° 08' 01"	347.07
RMS61	46° 15' 36.265" 70° 15' 04.571"	TP419	356° 33' 46"	176° 33' 46"	68.19
TP420	46° 15' 35.85" 70° 15' 09.01"	TP421	193° 04' 10"	13° 04' 09"	70.58

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP421	46° 15' 33.62" 70° 15' 09.75"	TP422	206° 00' 14"	26° 00' 13"	63.59
TP422	46° 15' 31.77" 70° 15' 11.06"	TP423	167° 34' 12"	347° 34' 12"	77.58
TP423	46° 15' 29.32" 70° 15' 10.28"	TP424	199° 12' 18"	19° 12' 16"	157.48
TP424	46° 15' 24.50" 70° 15' 12.69"	TP425	172° 05' 18"	352° 05' 18"	76.08
TP425	46° 15' 22.06" 70° 15' 12.21"	TP426	155° 28' 15"	335° 28' 16"	67.98
TP426	46° 15' 20.06" 70° 15' 10.89"	TP427 RMC62-00 RMS62	181° 32' 13" 273° 06' 32" 128° 25' 13"	1° 32' 13" 93° 06' 22" 308° 25' 15"	45.21 280.86 54.58
RMC62-00	46° 15' 20.553" 70° 15' 23.982"	RMS62 TP426	98° 38' 38" 93° 06' 22"	278° 38' 49" 273° 06' 32"	326.93 280.86
SO RMC62	46° 15' 20.621" 70° 15' 24.232"	RMS62 TP426	98° 51' 55" 93° 06' 22"	278° 52' 06" 273° 06' 32"	332.54 280.86
RMS62	46° 15' 18.961" 70° 15' 08.892"	TP426	308° 25' 15"	128° 25' 13"	54.58
TP427	46° 15' 18.60" 70° 15' 10.94"	TP428	205° 59' 10"	25° 59' 09"	49.10
TP428	46° 15' 17.17" 70° 15' 11.95"	TP429	251° 34' 03"	71° 34' 00"	83.98
TP429	46° 15' 16.31" 70° 15' 15.67"	TP430	215° 26' 59"	35° 26' 58"	43.09
TP430	46° 15' 15.17" 70° 15' 16.84"	TP431	169° 28' 55"	349° 28' 55"	46.61
TP431	46° 15' 13.69" 70° 15' 16.44"	TP432	140° 26' 58"	320° 27' 01"	130.43
TP432	46° 15' 10.43" 70° 15' 12.56"	TP433	111° 56' 02"	291° 56' 06"	120.73

SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP433	46° 15' 08.97"	TP434	149° 14' 10"	329° 14' 11"	80.40
	70° 15' 07.33"	RMC63-00	275° 34' 27"	95° 34' 13"	402.90
		RMS63	115° 15' 06"	295° 15' 08"	72.43
RMC63-00	46° 15' 10.235"	RMS63	98° 32' 02"	278° 32' 18"	471.74
	70° 15' 26.054"	TP433	95° 34' 13"	275° 34' 27"	402.90
SO RMC63	46° 15' 09.877"	RMS63	97° 04' 02"	277° 04' 18"	479.11
	70° 15' 26.472"	TP433	93° 54' 53"	273° 55' 06"	410.92
RMS63	46° 15' 07.967"	TP433	295° 15' 08"	115° 15' 06"	72.43
	70° 15' 04.274"				
TP434	46° 15' 06.73"	TP435	190° 25' 16"	10° 25' 15"	96.62
	70° 15' 05.41"				
TP435	46° 15' 03.65"	TP436	174° 01' 16"	354° 01' 16"	41.51
	70° 15' 06.23"				
TP436	46° 15' 02.32"	TP437	153° 55' 18"	333° 55' 20"	131.10
	70° 15' 06.03"				
TP437	46° 14' 58.50"	TP438	176° 58' 18"	356° 58' 18"	53.02
	70° 15' 03.34"				
TP438	46° 14' 56.79"	TP439	213° 47' 08"	33° 47' 07"	57.13
	70° 15' 03.21"				
TP439	46° 14' 55.25"	TP440	235° 11' 01"	55° 10' 58"	108.34
	70° 15' 04.69"				
TP440	46° 14' 53.25"	TP441	228° 25' 55"	48° 25' 52"	112.84
	70° 15' 08.84"				
TP441	46° 14' 50.82"	TP442	218° 06' 48"	38° 06' 46"	117.51
	70° 15' 12.78"	RMC64	287° 12' 50"	107° 12' 38"	379.12
		RMS64	107° 10' 44"	287° 10' 53"	290.59
RMC64	46° 14' 54.455"	RMS64	107° 11' 43"	287° 12' 05"	669.71
	70° 15' 29.687"	TP441	107° 12' 38"	287° 12' 50"	379.12
RMS64	46° 14' 48.042"	TP441	287° 10' 53"	107° 10' 44"	290.59
	70° 14' 59.822"				
RMC65	46° 14' 46.450"	RMC64	17° 14' 28"	197° 14' 31"	258.79
	70° 15' 33.268"				

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP442	46° 14' 47.83" 70° 15' 16.17"	TP443	239° 19' 43"	59° 19' 41"	58.01
TP443	46° 14' 46.87" 70° 15' 18.50"	TP444	217° 44' 48"	37° 44' 47"	32.01
TP444	46° 14' 46.05" 70° 15' 19.41"	TP445	183° 02' 51"	3° 02' 51"	23.61
TP445	46° 14' 45.29" 70° 15' 19.47"	TP446	78° 21' 49"	258° 21' 50"	51.60
TP446	46° 14' 45.62" 70° 15' 17.11"	TP447	102° 39' 55"	282° 39' 57"	39.50
TP447	46° 14' 45.34" 70° 15' 15.31"	TP448	148° 40' 49"	328° 40' 49"	29.61
TP448	46° 14' 44.52" 70° 15' 14.59"	TP449	205° 15' 57"	25° 15' 56"	32.31
TP449	46° 14' 43.58" 70° 15' 15.24"	TP450	248° 17' 50"	68° 17' 48"	63.51
TP450	46° 14' 42.82" 70° 15' 17.99"	TP451	236° 51' 44"	56° 51' 43"	52.51
TP451	46° 14' 41.89" 70° 15' 20.04"	TP452	207° 24' 47"	27° 24' 45"	83.51
TP452	46° 14' 39.48" 70° 15' 21.84"	TP453	179° 04' 47"	359° 04' 47"	114.01
TP453	46° 14' 35.79" 70° 15' 21.75"	TP454	213° 14' 47"	33° 14' 46"	102.01
TP454	46° 14' 33.03" 70° 15' 24.36"	TP455	202° 03' 47"	22° 03' 46"	83.31
TP455	46° 14' 30.53" 70° 15' 25.82"	TP456	162° 28' 48"	342° 28' 49"	77.41
TP456	46° 14' 28.14" 70° 15' 24.74"	TP457	181° 10' 47"	1° 10' 47"	51.51
TP457	46° 14' 26.47" 70° 15' 24.79"	TP458	201° 45' 53"	21° 45' 53"	49.81

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP458	46° 14' 24.97" 70° 15' 25.65"	TP459	232° 42' 53"	52° 42' 50"	101.51
TP459	46° 14' 22.98" 70° 15' 29.42"	TP460	221° 37' 53"	41° 37' 50"	119.01
TP460	46° 14' 20.10" 70° 15' 33.11"	TP461	198° 25' 53"	18° 25' 53"	45.21
TP461	46° 14' 18.71" 70° 15' 33.78"	TP462	117° 33' 58"	297° 34' 01"	87.41
TP462	46° 14' 17.40" 70° 15' 30.16"	TP463	130° 39' 01"	310° 39' 02"	40.71
TP463	46° 14' 16.54" 70° 15' 28.72"	TP464 RMC66 RMS65	185° 44' 07" 270° 11' 10" 167° 08' 04"	5° 44' 06" 90° 10' 57" 347° 08' 05"	266.57 383.77 121.04
RMC66	46° 14' 16.581" 70° 15' 46.630"	RMS65 TP463	106° 11' 12" 90° 10' 57"	286° 11' 26" 270° 11' 10"	427.68 383.77
RMS65	46° 14' 12.719" 70° 15' 27.460"	TP463	347° 08' 05"	167° 08' 04"	121.04
TP464	46° 14' 07.95" 70° 15' 29.96"	TP465	212° 52' 08"	32° 52' 05"	142.08
TP465	46° 14' 04.09" 70° 15' 33.56"	TP466	196° 27' 04"	16° 27' 03"	100.48
TP466	46° 14' 00.97" 70° 15' 34.89"	TP467	181° 52' 04"	1° 52' 03"	134.67
TP467	46° 13' 56.61" 70° 15' 35.09"	TP468	193° 55' 08"	13° 55' 08"	52.38
TP468	46° 13' 54.96" 70° 15' 35.68"	TP469	224° 58' 06"	44° 58' 04"	75.18
TP469	46° 13' 53.24" 70° 15' 38.16"	TP470	211° 24' 08"	31° 24' 07"	47.08
TP470	46° 13' 51.94" 70° 15' 39.30"	TP471	97° 21' 10"	277° 21' 11"	41.91

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP471	46° 13' 51.76" 70° 15' 37.37"	TP472	114° 25' 06"	294° 25' 07"	26.00
TP472	46° 13' 51.41" 70° 15' 36.26"	TP473	195° 48' 19"	15° 48' 18"	83.08
TP473	46° 13' 48.82" 70° 15' 37.32"	TP474	219° 53' 19"	39° 53' 17"	71.08
TP474	46° 13' 47.06" 70° 15' 39.44"	TP475	234° 44' 20"	54° 44' 16"	114.38
TP475	46° 13' 44.92" 70° 15' 43.80"	TP476	263° 00' 18"	83° 00' 14"	107.09
TP476	46° 13' 44.50" 70° 15' 48.76"	TP477	220° 00' 07"	40° 00' 06"	37.38
TP477	46° 13' 43.57" 70° 15' 49.88"	TP478	198° 07' 06"	18° 07' 06"	71.08
TP478	46° 13' 41.38" 70° 15' 50.92"	TP479	148° 30' 00"	328° 30' 01"	44.68
TP479	46° 13' 40.15" 70° 15' 49.83"	TP480	177° 32' 00"	357° 32' 00"	20.88
TP480	46° 13' 39.47" 70° 15' 49.78"	TP481	224° 36' 55"	44° 36' 53"	51.98
TP481	46° 13' 38.27" 70° 15' 51.49"	TP482	219° 05' 50"	39° 05' 47"	149.08
TP482	46° 13' 34.53" 70° 15' 55.87"	TP483	189° 15' 42"	9° 15' 42"	61.68
TP483	46° 13' 32.56" 70° 15' 56.34"	TP484 RMC67 RMS66	244° 57' 44" 306° 03' 43" 121° 00' 41"	64° 57' 40" 126° 03' 30" 301° 00' 46"	128.50 466.96 199.99
RMC67	46° 13' 41.458" 70° 16' 13.953"	RMS66 TP483	124° 32' 40" 126° 03' 30"	304° 32' 59" 306° 03' 43"	666.40 466.96
RMS66	46° 13' 29.219" 70° 15' 48.339"	TP483	301° 00' 46"	121° 00' 41"	199.99

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP484	46° 13' 30.79" 70° 16' 01.77"	TP485	211° 17' 47"	31° 17' 46"	26.60
TP485	46° 13' 30.06" 70° 16' 02.41"	TP486	138° 20' 48"	318° 20' 52"	176.50
TP486	46° 13' 25.79" 70° 15' 56.94"	TP487	170° 36' 58"	350° 36' 58"	24.50
TP487	46° 13' 25.00" 70° 15' 56.75"	TP488	199° 16' 02"	19° 16' 01"	101.30
TP488	46° 13' 21.91" 70° 15' 58.31"	TP489	212° 40' 03"	32° 40' 00"	150.60
TP489	46° 13' 17.80" 70° 16' 02.11"	TP490	219° 02' 00"	39° 01' 58"	65.70
TP490	46° 13' 16.15" 70° 16' 04.04"	TP491	198° 14' 01"	18° 14' 00"	39.60
TP491	46° 13' 14.93" 70° 16' 04.62"	TP492	165° 22' 04"	345° 22' 05"	94.40
TP492	46° 13' 11.97" 70° 16' 03.50"	TP493	169° 20' 06"	349° 20' 06"	66.00
TP493	46° 13' 09.87" 70° 16' 02.93"	TP494	213° 47' 09"	33° 47' 09"	33.10
TP494	46° 13' 08.98" 70° 16' 03.79"	TP495	297° 27' 09"	117° 27' 07"	69.20
TP495	46° 13' 10.01" 70° 16' 06.66"	TP496	322° 22' 11"	142° 22' 10"	41.00
TP496	46° 13' 11.07" 70° 16' 07.83"	TP497	240° 26' 10"	60° 26' 09"	17.80
TP497	46° 13' 10.78" 70° 16' 08.55"	TP498	177° 07' 19"	357° 07' 19"	37.20
TP498	46° 13' 09.58" 70° 16' 08.46"	TP499	198° 49' 18"	18° 49' 17"	85.40
TP499	46° 13' 06.96" 70° 16' 09.75"	TP500	159° 28' 21"	339° 28' 21"	16.60

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP500	46° 13' 06.46" 70° 16' 09.47"	TP501	33° 44' 23"	213° 44' 24"	32.00
TP501	46° 13' 07.32" 70° 16' 08.65"	TP502	77° 09' 25"	257° 09' 26"	38.80
TP502	46° 13' 07.60" 70° 16' 06.88"	TP503	141° 40' 33"	321° 40' 34"	26.60
TP503	46° 13' 06.92" 70° 16' 06.11"	TP504	201° 27' 33"	21° 27' 32"	73.00
TP504	46° 13' 04.72" 70° 16' 07.36"	TP505	235° 21' 36"	55° 21' 35"	43.60
TP505	46° 13' 03.92" 70° 16' 09.03"	TP506	322° 44' 34"	142° 44' 34"	36.80
TP506	46° 13' 04.87" 70° 16' 10.07"	TP507	214° 07' 33"	34° 07' 33"	40.80
TP507	46° 13' 03.78" 70° 16' 11.14"	TP508	180° 21' 36"	0° 21' 36"	51.90
TP508	46° 13' 02.09" 70° 16' 11.15"	TP509	243° 20' 35"	63° 20' 33"	80.50
TP509	46° 13' 00.92" 70° 16' 14.51"	TP510	311° 38' 31"	131° 38' 30"	43.20
TP510	46° 13' 01.85" 70° 16' 16.02"	TP511	232° 02' 34"	52° 02' 33"	27.10
TP511	46° 13' 01.31" 70° 16' 17.01"	TP512	170° 50' 34"	350° 50' 34"	37.20
TP512	46° 13' 00.13" 70° 16' 16.74"	TP513	209° 53' 32"	29° 53' 31"	28.40
TP513	46° 12' 59.33" 70° 16' 17.40"	TP514	290° 20' 31"	110° 20' 29"	43.00
TP514	46° 12' 59.81" 70° 16' 19.28"	TP515	339° 16' 31"	159° 16' 31"	51.80
TP515	46° 13' 01.38" 70° 16' 20.13"	TP516	282° 01' 34"	102° 01' 33"	23.70

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP516	46° 13' 01.54" 70° 16' 21.22"	TP517	223° 28' 29"	43° 28' 28"	40.70
TP517	46° 13' 00.58" 70° 16' 22.52"	TP518	269° 43' 25"	89° 43' 23"	56.00
TP518	46° 13' 00.58" 70° 16' 25.13"	TP519	181° 40' 23"	1° 40' 23"	27.40
TP519	46° 12' 59.69" 70° 16' 25.17"	TP520	110° 38' 22"	290° 38' 24"	40.20
TP520	46° 12' 59.23" 70° 16' 23.42"	TP521	149° 23' 30"	329° 23' 31"	23.80
TP521	46° 12' 58.57" 70° 16' 22.85"	TP522	197° 26' 23"	17° 26' 23"	42.20
TP522	46° 12' 57.26" 70° 16' 23.44"	TP523	232° 16' 22"	52° 16' 19"	84.70
TP523	46° 12' 55.58" 70° 16' 26.57"	TP524	202° 19' 18"	22° 19' 17"	76.00
TP524	46° 12' 53.31" 70° 16' 27.91"	TP525	171° 57' 14"	351° 57' 14"	32.20
TP525	46° 12' 52.27" 70° 16' 27.70"	TP526	104° 11' 12"	284° 11' 13"	30.10
TP526	46° 12' 52.04" 70° 16' 26.34"	TP527	136° 33' 14"	316° 33' 15"	71.80
TP527	46° 12' 50.35" 70° 16' 24.04"	TP528	97° 56' 13"	277° 56' 15"	66.50
TP528	46° 12' 50.05" 70° 16' 20.97"	TP529	121° 52' 17"	301° 52' 18"	42.90
TP529	46° 12' 49.32" 70° 16' 19.27"	TP530	150° 58' 16"	330° 58' 17"	73.50
TP530	46° 12' 47.24" 70° 16' 17.60"	TP531	236° 03' 15"	56° 03' 14"	34.20
TP531	46° 12' 46.62" 70° 16' 18.93"	TP532	185° 26' 14"	5° 26' 14"	42.60

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP532	46° 12' 45.24" 70° 16' 19.11"	TP533	157° 02' 15"	337° 02' 16"	66.40
TP533	46° 12' 43.26" 70° 16' 17.91"	TP534	124° 31' 15"	304° 31' 16"	39.40
TP534	46° 12' 42.54" 70° 16' 16.39"	TP535	143° 32' 15"	323° 32' 16"	40.20
TP535	46° 12' 41.49" 70° 16' 15.28"	TP536	194° 42' 12"	14° 42' 11"	48.80
TP536	46° 12' 39.96" 70° 16' 15.85"	TP537	180° 31' 16"	0° 31' 16"	30.80
TP537	46° 12' 38.97" 70° 16' 15.87"	TP538	258° 43' 08"	78° 43' 07"	25.90
TP538	46° 12' 38.80" 70° 16' 17.05"	TP539	341° 07' 09"	161° 07' 08"	35.60
TP539	46° 12' 39.89" 70° 16' 17.59"	TP540	275° 52' 08"	95° 52' 07"	17.30
TP540	46° 12' 39.95" 70° 16' 18.39"	TP541	238° 33' 01"	58° 33' 00"	40.60
TP541	46° 12' 39.27" 70° 16' 20.01"	TP542	186° 49' 57"	6° 49' 57"	27.80
TP542	46° 12' 38.37" 70° 16' 20.16"	TP543	132° 03' 57"	312° 03' 58"	58.80
TP543	46° 12' 37.10" 70° 16' 18.13"	TP544	161° 29' 47"	341° 29' 47"	21.00
TP544	46° 12' 36.45" 70° 16' 17.82"	TP545	214° 58' 54"	34° 58' 53"	25.00
TP545	46° 12' 35.79" 70° 16' 18.48"	TP546	266° 53' 50"	86° 53' 49"	46.50
TP546	46° 12' 35.71" 70° 16' 20.65"	TP547	243° 05' 44"	63° 05' 43"	35.40

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP547	46° 12' 35.19"	TP548	224° 13' 44"	44° 13' 42"	61.21
	70° 16' 22.12"	RMC68	302° 04' 19"	122° 03' 54"	855.23
		RMS67	117° 39' 44"	297° 39' 48"	135.11
RMC68	46° 12' 49.893"	RMS67	121° 27' 50"	301° 28' 18"	990.00
	70° 16' 55.934"	TP547	122° 03' 54"	302° 04' 19"	855.23
RMS67	46° 12' 33.156"	TP547	297° 39' 48"	117° 39' 44"	135.11
	70° 16' 16.541"				
RMC69	46° 12' 42.183"	RMC68	12° 28' 12"	192° 28' 14"	243.83
	70° 16' 58.390"				
TP548	46° 12' 33.77"	TP549	200° 29' 53"	20° 29' 52"	47.70
	70° 16' 24.12"				
TP549	46° 12' 32.32"	TP550	232° 12' 58"	52° 12' 53"	177.41
	70° 16' 24.89"				
TP550	46° 12' 28.80"	TP551	227° 06' 55"	47° 06' 54"	47.81
	70° 16' 31.44"				
TP551	46° 12' 27.75"	TP552	242° 20' 05"	62° 20' 04"	47.51
	70° 16' 33.07"				
TP552	46° 12' 27.03"	TP553	175° 01' 13"	355° 01' 13"	16.00
	70° 16' 35.03"				
TP553	46° 12' 26.52"	TP554	205° 04' 40"	25° 04' 38"	97.51
	70° 16' 34.97"				
TP554	46° 12' 23.65"	TP555	173° 51' 39"	353° 51' 40"	53.00
	70° 16' 36.89"				
TP555	46° 12' 21.95"	TP556	189° 54' 44"	9° 54' 43"	108.30
	70° 16' 36.63"				
TP556	46° 12' 18.49"	TP557	203° 43' 45"	23° 43' 44"	92.80
	70° 16' 37.50"				
TP557	46° 12' 15.74"	TP558	191° 46' 45"	11° 46' 45"	23.20
	70° 16' 39.24"				
TP558	46° 12' 15.01"	TP559	144° 24' 41"	324° 24' 42"	33.59
	70° 16' 39.46"				

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP559	46° 12' 14.12" 70° 16' 38.55"	TP560	205° 46' 51"	25° 46' 50"	27.91
TP560	46° 12' 13.31" 70° 16' 39.12"	TP561	236° 28' 48"	56° 28' 47"	26.01
TP561	46° 12' 12.84" 70° 16' 40.13"	TP562	268° 35' 49"	88° 35' 48"	50.21
TP562	46° 12' 12.80" 70° 16' 42.47"	TP563	212° 22' 49"	32° 22' 47"	99.61
TP563	46° 12' 10.08" 70° 16' 44.96"	TP564	176° 22' 43"	356° 22' 43"	32.30
TP564	46° 12' 09.03" 70° 16' 44.86"	TP565	202° 47' 43"	22° 47' 42"	89.90
TP565	46° 12' 06.35" 70° 16' 46.49"	TP566	221° 27' 36"	41° 27' 35"	38.91
TP566	46° 12' 05.41" 70° 16' 47.69"	TP567	252° 39' 36"	72° 39' 32"	100.31
TP567	46° 12' 04.44" 70° 16' 52.16"	TP568	237° 50' 25"	57° 50' 24"	25.41
TP568	46° 12' 04.00" 70° 16' 53.16"	TP569	173° 42' 20"	353° 42' 20"	47.60
TP569	46° 12' 02.47" 70° 16' 52.92"	TP570	151° 42' 13"	331° 42' 13"	32.20
TP570	46° 12' 01.55" 70° 16' 52.20"	TP571	167° 03' 11"	347° 03' 11"	36.60
TP571	46° 12' 00.39" 70° 16' 51.82"	TP572 RMC70 RMS68	221° 31' 04" 296° 59' 05" 136° 58' 03"	41° 31' 02" 116° 58' 53" 316° 58' 05"	67.90 429.87 84.85
RMC70	46° 12' 06.710" 70° 17' 09.688"	RMS69 RMS68 TP571	192° 27' 53" 120° 14' 16" 116° 58' 53"	12° 27' 43" 300° 14' 31" 296° 59' 05"	1324.57 510.43 429.87
RMS68	46° 11' 58.385" 70° 16' 49.120"	TP571	316° 58' 05"	136° 58' 03"	84.85

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec		State: Maine			
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP572	46° 11' 58.75" 70° 16' 53.92"	TP573	240° 43' 59"	60° 43' 56"	86.50
TP573	46° 11' 57.38" 70° 16' 57.44"	TP574	256° 04' 57"	76° 04' 54"	77.90
TP574	46° 11' 56.77" 70° 17' 00.97"	TP575	229° 53' 52"	49° 53' 51"	30.10
TP575	46° 11' 56.14" 70° 17' 02.04"	TP576	201° 47' 46"	21° 47' 44"	149.31
TP576	46° 11' 51.65" 70° 17' 04.63"	TP577	258° 54' 44"	78° 54' 42"	62.60
TP577	46° 11' 51.26" 70° 17' 07.49"	TP578	204° 08' 41"	24° 08' 40"	121.61
TP578	46° 11' 47.67" 70° 17' 09.81"	TP579	176° 18' 37"	356° 18' 37"	49.21
TP579	46° 11' 46.08" 70° 17' 09.66"	TP580	205° 55' 43"	25° 55' 43"	28.10
TP580	46° 11' 45.26" 70° 17' 10.24"	TP581	160° 15' 42"	340° 15' 42"	46.91
TP581	46° 11' 43.83" 70° 17' 09.50"	TP582	190° 30' 37"	10° 30' 37"	13.81
TP582	46° 11' 43.39" 70° 17' 09.62"	TP583	256° 17' 39"	76° 17' 38"	31.50
TP583	46° 11' 43.15" 70° 17' 11.04"	TP584	222° 32' 36"	42° 32' 36"	25.30
TP584	46° 11' 42.54" 70° 17' 11.84"	TP585	259° 06' 39"	79° 06' 38"	26.00
TP585	46° 11' 42.39" 70° 17' 13.03"	TP586	287° 09' 38"	107° 09' 35"	87.10
TP586	46° 11' 43.22" 70° 17' 16.91"	TP587	240° 37' 46"	60° 37' 45"	12.20
TP587	46° 11' 43.02" 70° 17' 17.41"	TP588	203° 39' 47"	23° 39' 46"	29.21

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP588	46° 11' 42.16" 70° 17' 17.95"	TP589	173° 02' 52"	353° 02' 52"	78.01
TP589	46° 11' 39.65" 70° 17' 17.51"	TP590	155° 23' 53"	335° 23' 54"	53.01
TP590	46° 11' 38.09" 70° 17' 16.49"	TP591	233° 09' 55"	53° 09' 54"	58.70
TP591	46° 11' 36.95" 70° 17' 18.68"	TP592	304° 06' 55"	124° 06' 54"	30.40
TP592	46° 11' 37.50" 70° 17' 19.85"	TP593	240° 03' 58"	60° 03' 57"	28.30
TP593	46° 11' 37.04" 70° 17' 20.99"	TP594	195° 22' 02"	15° 22' 02"	49.71
TP594	46° 11' 35.49" 70° 17' 21.61"	TP595	130° 25' 05"	310° 25' 06"	39.70
TP595	46° 11' 34.66" 70° 17' 20.20"	TP596	186° 30' 13"	6° 30' 13"	21.01
TP596	46° 11' 33.98" 70° 17' 20.31"	TP597	277° 48' 15"	97° 48' 13"	47.60
TP597	46° 11' 34.19" 70° 17' 22.51"	TP598	237° 36' 17"	57° 36' 12"	175.00
TP598	46° 11' 31.15" 70° 17' 29.40"	TP599	224° 58' 16"	44° 58' 15"	57.20
TP599	46° 11' 29.84" 70° 17' 31.29"	TP600	251° 09' 15"	71° 09' 14"	54.40
TP600	46° 11' 29.27" 70° 17' 33.69"	TP601 RM313 RM312-43	152° 21' 19" 204° 02' 29" 103° 36' 48"	332° 21' 20" 24° 02' 29" 283° 36' 49"	38.80 16.62 22.25
RM312-43	46° 11' 29.105" 70° 17' 32.678"	RM313 TP600	250° 42' 34" 283° 36' 49"	70° 42' 33" 103° 36' 48"	30.08 22.25
SO RM312	46° 11' 29.069" 70° 17' 33.136"	RM313 TP600	244° 33' 26" 298° 13' 26"	64° 33' 25" 118° 13' 25"	20.57 13.40

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
RM313	46° 11' 28.783" 70° 17' 34.002"	TP600	24° 02' 29"	204° 02' 29"	16.62
RMS69	46° 11' 24.822" 70° 17' 23.020"	RM313	297° 26' 47"	117° 26' 39"	265.35
TP601	46° 11' 28.16" 70° 17' 32.85"	TP602	178° 15' 16"	358° 15' 16"	37.80
TP602	46° 11' 26.94" 70° 17' 32.79"	TP603	156° 00' 22"	336° 00' 22"	27.50
TP603	46° 11' 26.12" 70° 17' 32.27"	TP604	188° 36' 18"	8° 36' 18"	40.50
TP604	46° 11' 24.83" 70° 17' 32.55"	TP605	109° 39' 19"	289° 39' 21"	42.50
TP605	46° 11' 24.36" 70° 17' 30.69"	TP606	61° 16' 24"	241° 16' 25"	44.50
TP606	46° 11' 25.06" 70° 17' 28.87"	TP607	123° 59' 23"	303° 59' 23"	17.40
TP607	46° 11' 24.74" 70° 17' 28.20"	TP608	196° 26' 25"	16° 26' 25"	58.00
TP608	46° 11' 22.94" 70° 17' 28.96"	TP609	142° 26' 23"	322° 26' 25"	92.70
TP609	46° 11' 20.56" 70° 17' 26.33"	TP610	113° 10' 29"	293° 10' 31"	46.40
TP610	46° 11' 19.97" 70° 17' 24.34"	TP611	193° 14' 32"	13° 14' 32"	42.60
TP611	46° 11' 18.63" 70° 17' 24.79"	TP612	169° 34' 26"	349° 34' 26"	68.30
TP612	46° 11' 16.45" 70° 17' 24.21"	TP613	244° 33' 31"	64° 33' 30"	52.50
TP613	46° 11' 15.72" 70° 17' 26.43"	TP614	175° 05' 27"	355° 05' 28"	78.30
TP614	46° 11' 13.19" 70° 17' 26.11"	TP615	190° 14' 28"	10° 14' 27"	106.20

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP615	46° 11' 09.81" 70° 17' 26.99"	TP616	154° 59' 25"	334° 59' 26"	50.40
TP616	46° 11' 08.33" 70° 17' 26.00"	TP617	184° 10' 30"	4° 10' 30"	57.00
TP617	46° 11' 06.49" 70° 17' 26.19"	TP618	81° 51' 29"	261° 51' 32"	91.90
TP618	46° 11' 06.91" 70° 17' 21.95"	TP619	95° 16' 29"	275° 16' 32"	89.20
TP619	46° 11' 06.64" 70° 17' 17.81"	TP620	123° 27' 35"	303° 27' 38"	97.20
TP620	46° 11' 04.91" 70° 17' 14.03"	TP621	81° 44' 35"	261° 44' 37"	62.00
TP621	46° 11' 05.20" 70° 17' 11.17"	TP622	113° 24' 42"	293° 24' 43"	41.80
TP622	46° 11' 04.66" 70° 17' 09.38"	TP623	139° 15' 34"	319° 15' 34"	26.70
TP623	46° 11' 04.00" 70° 17' 08.57"	TP624	197° 35' 38"	17° 35' 37"	63.70
TP624	46° 11' 02.04" 70° 17' 09.46"	TP625	176° 13' 39"	356° 13' 39"	144.70
TP625	46° 10' 57.36" 70° 17' 09.02"	TP626	123° 22' 36"	303° 22' 38"	78.20
TP626	46° 10' 55.97" 70° 17' 05.98"	TP627	162° 52' 44"	342° 52' 45"	45.70
TP627	46° 10' 54.55" 70° 17' 05.35"	TP628	107° 17' 39"	287° 17' 40"	35.70
TP628	46° 10' 54.21" 70° 17' 03.76"	TP629	125° 55' 38"	305° 55' 39"	53.80
TP629	46° 10' 53.19" 70° 17' 01.73"	TP630	180° 01' 44"	0° 01' 44"	42.90
TP630	46° 10' 51.80" 70° 17' 01.73"	TP631	246° 22' 37"	66° 22' 36"	36.70

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP631	46° 10' 51.32" 70° 17' 03.30"	TP632	151° 54' 38"	331° 54' 39"	75.00
TP632	46° 10' 49.18" 70° 17' 01.65"	TP633	102° 01' 37"	282° 01' 38"	32.50
TP633	46° 10' 48.96" 70° 17' 00.17"	TP634	92° 44' 41"	272° 44' 42"	33.20
TP634	46° 10' 48.91" 70° 16' 58.62"	TP635	162° 11' 46"	342° 11' 46"	26.30
TP635	46° 10' 48.10" 70° 16' 58.25"	TP636	139° 06' 38"	319° 06' 39"	32.80
TP636	46° 10' 47.29" 70° 16' 57.25"	TP637	167° 08' 39"	347° 08' 40"	36.60
TP637	46° 10' 46.14" 70° 16' 56.87"	TP638	178° 22' 39"	358° 22' 39"	87.40
TP638	46° 10' 43.31" 70° 16' 56.75"	TP639	139° 55' 38"	319° 55' 39"	72.70
TP639	46° 10' 41.51" 70° 16' 54.57"	TP640	103° 33' 37"	283° 33' 38"	37.10
TP640	46° 10' 41.22" 70° 16' 52.89"	TP641	170° 40' 38"	350° 40' 38"	51.20
TP641	46° 10' 39.59" 70° 16' 52.50"	TP642	134° 34' 36"	314° 34' 36"	24.10
TP642	46° 10' 39.04" 70° 16' 51.70"	TP643	76° 38' 40"	256° 38' 42"	44.40
TP643	46° 10' 39.37" 70° 16' 49.69"	TP644	123° 37' 31"	303° 37' 32"	15.30
TP644	46° 10' 39.10" 70° 16' 49.09"	TP645	165° 08' 36"	345° 08' 36"	54.20
TP645	46° 10' 37.40" 70° 16' 48.44"	TP646	175° 19' 34"	355° 19' 34"	46.00
TP646	46° 10' 35.92" 70° 16' 48.27"	TP647	124° 49' 34"	304° 49' 35"	41.80

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP647	46° 10' 35.14" 70° 16' 46.67"	TP648	162° 59' 34"	342° 59' 34"	42.00
TP648	46° 10' 33.84"	TP649	134° 58' 26"	314° 58' 27"	33.20
	70° 16' 46.10"	RMC72	228° 22' 34"	48° 22' 26"	292.03
		RMS70	47° 23' 32"	227° 23' 36"	133.83
RMC72	46° 10' 27.559"	RMS70	48° 03' 53"	228° 04' 04"	425.85
	70° 16' 56.274"	TP648	48° 22' 26"	228° 22' 34"	292.03
RMS70	46° 10' 36.776"	TP648	227° 23' 36"	47° 23' 32"	133.83
	70° 16' 41.504"				
RMC71	46° 10' 55.395"	RMC72	137° 58' 23"	317° 58' 49"	1156.97
	70° 17' 32.384"				
TP649	46° 10' 33.08"	TP650	112° 34' 15"	292° 34' 16"	18.81
	70° 16' 45.00"				
TP650	46° 10' 32.85"	TP651	142° 23' 05"	322° 23' 09"	170.51
	70° 16' 44.19"				
TP651	46° 10' 28.47"	TP652	100° 08' 07"	280° 08' 09"	51.81
	70° 16' 39.34"				
TP652	46° 10' 28.18"	TP653	63° 49' 09"	243° 49' 11"	36.81
	70° 16' 36.96"				
TP653	46° 10' 28.70"	TP654	121° 32' 03"	301° 32' 04"	58.71
	70° 16' 35.42"				
TP654	46° 10' 27.71"	TP655	91° 07' 04"	271° 07' 05"	36.11
	70° 16' 33.09"				
TP655	46° 10' 27.69"	TP656	129° 30' 02"	309° 30' 03"	29.91
	70° 16' 31.41"				
TP656	46° 10' 27.07"	TP657	165° 20' 57"	345° 20' 58"	36.90
	70° 16' 30.33"				
TP657	46° 10' 25.91"	TP658	226° 18' 55"	46° 18' 54"	58.99
	70° 16' 29.89"				
TP658	46° 10' 24.59"	TP659	185° 38' 59"	5° 38' 59"	18.00
	70° 16' 31.88"				

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP659	46° 10' 24.01" 70° 16' 31.97"	TP660	129° 49' 48"	309° 49' 50"	55.61
TP660	46° 10' 22.86" 70° 16' 29.98"	TP661	120° 32' 53"	300° 32' 55"	79.81
TP661	46° 10' 21.55" 70° 16' 26.77"	TP662	143° 40' 56"	323° 40' 57"	48.01
TP662	46° 10' 20.29" 70° 16' 25.45"	TP663	102° 40' 57"	282° 40' 59"	47.71
TP663	46° 10' 19.96" 70° 16' 23.28"	TP664	117° 11' 01"	297° 11' 02"	43.41
TP664	46° 10' 19.31" 70° 16' 21.48"	TP665	74° 10' 00"	254° 10' 02"	70.71
TP665	46° 10' 19.94" 70° 16' 18.30"	TP666	112° 14' 07"	292° 14' 08"	51.21
TP666	46° 10' 19.31" 70° 16' 16.09"	TP667	152° 54' 08"	332° 54' 09"	78.00
		RMC73	258° 44' 59"	78° 44' 41"	546.72
		RMS71	81° 45' 07"	261° 45' 13"	187.18
RMC73	46° 10' 15.855" 70° 16' 41.091"	RMS71	79° 30' 37"	259° 31' 01"	733.71
		TP666	78° 44' 41"	258° 44' 59"	546.72
RMS71	46° 10' 20.180" 70° 16' 07.458"	TP666	261° 45' 13"	81° 45' 07"	187.18
TP667	46° 10' 17.06" 70° 16' 14.44"	TP668	131° 09' 12"	311° 09' 14"	52.90
TP668	46° 10' 15.93" 70° 16' 12.58"	TP669	180° 44' 20"	0° 44' 20"	18.01
TP669	46° 10' 15.35" 70° 16' 12.59"	TP670	258° 40' 24"	78° 40' 23"	30.50
TP670	46° 10' 15.16" 70° 16' 13.99"	TP671	211° 14' 18"	31° 14' 18"	20.51
TP671	46° 10' 14.59" 70° 16' 14.48"	TP672	117° 04' 27"	297° 04' 31"	116.20

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP672	46° 10' 12.88" 70° 16' 09.66"	TP673	67° 45' 28"	247° 45' 30"	38.60
TP673	46° 10' 13.35" 70° 16' 07.99"	TP674	113° 59' 36"	293° 59' 38"	72.20
TP674	46° 10' 12.40" 70° 16' 04.92"	TP675	144° 49' 35"	324° 49' 37"	117.80
TP675	46° 10' 09.28" 70° 16' 01.75"	TP676	67° 56' 33"	247° 56' 34"	30.00
TP676	46° 10' 09.64" 70° 16' 00.46"	TP677	95° 18' 37"	275° 18' 37"	17.40
TP677	46° 10' 09.59" 70° 15' 59.65"	TP678	162° 24' 32"	342° 24' 33"	88.01
TP678	46° 10' 06.87" 70° 15' 58.41"	TP679	144° 39' 33"	324° 39' 34"	59.20
TP679	46° 10' 05.31" 70° 15' 56.81"	TP680	121° 54' 32"	301° 54' 35"	81.70
TP680	46° 10' 03.91" 70° 15' 53.58"	TP681	151° 29' 27"	331° 29' 28"	28.30
TP681	46° 10' 03.11" 70° 15' 52.95"	TP682	191° 43' 28"	11° 43' 27"	63.01
TP682	46° 10' 01.11" 70° 15' 53.55"	TP683	154° 15' 24"	334° 15' 24"	33.71
TP683	46° 10' 00.13" 70° 15' 52.87"	TP684	161° 21' 23"	341° 21' 23"	53.61
TP684	46° 09' 58.48" 70° 15' 52.07"	TP685	176° 52' 20"	356° 52' 20"	43.81
TP685	46° 09' 57.06" 70° 15' 51.96"	TP686	192° 58' 16"	12° 58' 15"	50.21
TP686	46° 09' 55.48" 70° 15' 52.48"	TP687	174° 06' 13"	354° 06' 13"	84.71
		RMC74	213° 48' 14"	33° 48' 12"	69.22
		RMS72	60° 51' 15"	240° 51' 21"	196.63

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec		State: Maine			
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
RMC74	46° 09' 53.616"	RMS72	53° 54' 17"	233° 54' 24"	260.19
	70° 15' 54.276"	TP686	33° 48' 12"	213° 48' 14"	69.22
RMS72	46° 09' 58.580"	TP686	240° 51' 21"	60° 51' 15"	196.63
	70° 15' 44.476"				
TP687	46° 09' 52.75"	TP688	123° 49' 16"	303° 49' 17"	26.21
	70° 15' 52.08"				
TP688	46° 09' 52.28"	TP689	95° 33' 07"	275° 33' 08"	33.91
	70° 15' 51.06"				
TP689	46° 09' 52.17"	TP690	117° 34' 08"	297° 34' 09"	51.41
	70° 15' 49.49"				
TP690	46° 09' 51.40"	TP691	78° 25' 09"	258° 25' 12"	86.21
	70° 15' 47.36"				
TP691	46° 09' 51.96"	TP692	117° 16' 09"	297° 16' 10"	29.71
	70° 15' 43.43"				
TP692	46° 09' 51.52"	TP693	172° 52' 07"	352° 52' 07"	43.00
	70° 15' 42.20"				
TP693	46° 09' 50.14"	TP694	137° 48' 03"	317° 48' 04"	51.31
	70° 15' 41.95"				
TP694	46° 09' 48.91"	TP695	91° 18' 04"	271° 18' 06"	58.91
	70° 15' 40.34"				
TP695	46° 09' 48.86"	TP696	130° 08' 02"	310° 08' 03"	38.01
	70° 15' 37.60"				
TP696	46° 09' 48.07"	TP697	115° 55' 05"	295° 55' 06"	36.41
	70° 15' 36.24"				
TP697	46° 09' 47.56"	TP698	144° 58' 55"	324° 58' 56"	34.31
	70° 15' 34.72"				
TP698	46° 09' 46.65"	TP699	158° 14' 55"	338° 14' 56"	82.01
	70° 15' 33.80"				
TP699	46° 09' 44.18"	TP700	139° 48' 55"	319° 48' 57"	76.01
	70° 15' 32.38"				
TP700	46° 09' 42.30"	TP701	201° 55' 05"	21° 55' 04"	13.60
	70° 15' 30.10"				

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP701	46° 09' 41.89" 70° 15' 30.33"	TP702	264° 59' 43"	84° 59' 41"	42.39
TP702	46° 09' 41.77" 70° 15' 32.30"	TP703	191° 25' 38"	11° 25' 38"	35.40
TP703	46° 09' 40.65" 70° 15' 32.63"	TP704	144° 01' 41"	324° 01' 43"	81.41
TP704	46° 09' 38.51" 70° 15' 30.40"	TP705	116° 54' 42"	296° 54' 44"	58.71
TP705	46° 09' 37.65" 70° 15' 27.96"	TP706	157° 21' 43"	337° 21' 44"	88.21
TP706	46° 09' 35.01" 70° 15' 26.38"	TP707	116° 19' 41"	296° 19' 41"	25.41
TP707	46° 09' 34.65" 70° 15' 25.31"	TP708	112° 21' 49"	292° 21' 49"	17.01
TP708	46° 09' 34.44" 70° 15' 24.58"	TP709	147° 11' 43"	327° 11' 43"	28.11
TP709	46° 09' 33.67" 70° 15' 23.87"	TP710	124° 39' 56"	304° 39' 56"	12.81
TP710	46° 09' 33.44" 70° 15' 23.38"	TP711	56° 58' 45"	236° 58' 46"	36.30
TP711	46° 09' 34.08" 70° 15' 21.96"	TP712	80° 40' 49"	260° 40' 49"	17.41
TP712	46° 09' 34.17" 70° 15' 21.16"	TP713	122° 13' 47"	302° 13' 47"	19.21
TP713	46° 09' 33.84" 70° 15' 20.40"	TP714	201° 53' 45"	21° 53' 44"	36.50
TP714	46° 09' 32.74" 70° 15' 21.04"	TP715	177° 44' 44"	357° 44' 44"	26.90
TP715	46° 09' 31.87" 70° 15' 20.99"	TP716	143° 33' 43"	323° 33' 44"	50.91
TP716	46° 09' 30.54" 70° 15' 19.58"	TP717	113° 01' 43"	293° 01' 44"	41.51

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP717	46° 09' 30.02" 70° 15' 17.80"	TP718	84° 30' 49"	264° 30' 51"	42.21
TP718	46° 09' 30.15" 70° 15' 15.84"	TP719	39° 14' 46"	219° 14' 46"	22.80
TP719	46° 09' 30.72" 70° 15' 15.17"	TP720	93° 41' 47"	273° 41' 48"	33.41
TP720	46° 09' 30.65" 70° 15' 13.62"	TP721	113° 51' 48"	293° 51' 51"	98.61
TP721	46° 09' 29.36" 70° 15' 09.41"	TP722	141° 11' 56"	321° 11' 57"	24.71
TP722	46° 09' 28.74" 70° 15' 08.69"	TP723	161° 29' 49"	341° 29' 50"	62.10
		RMC75	234° 50' 53"	54° 50' 51"	69.62
		RMS73	69° 00' 47"	249° 00' 52"	179.00
RMC75	46° 09' 27.438" 70° 15' 11.345"	RMS73	65° 03' 31"	245° 03' 38"	247.09
		TP722	54° 50' 51"	234° 50' 53"	69.62
RMS73	46° 09' 30.813" 70° 15' 00.903"	TP722	249° 00' 52"	69° 00' 47"	179.00
TP723	46° 09' 26.83" 70° 15' 07.77"	TP724	179° 22' 51"	359° 22' 51"	44.40
TP724	46° 09' 25.39" 70° 15' 07.75"	TP725	106° 45' 53"	286° 45' 56"	82.50
TP725	46° 09' 24.62" 70° 15' 04.07"	TP726	136° 19' 59"	316° 20' 01"	93.90
TP726	46° 09' 22.42" 70° 15' 01.05"	TP727	222° 45' 10"	42° 45' 09"	19.70
TP727	46° 09' 21.95" 70° 15' 01.67"	TP728	150° 55' 15"	330° 55' 16"	37.50
TP728	46° 09' 20.89" 70° 15' 00.82"	TP729	102° 04' 12"	282° 04' 13"	39.00
TP729	46° 09' 20.63" 70° 14' 59.04"	TP730	147° 44' 16"	327° 44' 17"	28.89

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP730	46° 09' 19.84" 70° 14' 58.33"	TP731	215° 04' 20"	35° 04' 17"	122.80
TP731	46° 09' 16.58" 70° 15' 01.61"	TP732	168° 21' 23"	348° 21' 23"	35.20
TP732	46° 09' 15.46" 70° 15' 01.28"	TP733	110° 20' 21"	290° 20' 24"	82.20
TP733	46° 09' 14.54" 70° 14' 57.69"	TP734	131° 21' 23"	311° 21' 24"	23.19
TP734	46° 09' 14.04" 70° 14' 56.88"	TP735	115° 06' 26"	295° 06' 29"	95.20
TP735	46° 09' 12.73" 70° 14' 52.86"	TP736	145° 06' 30"	325° 06' 31"	56.00
TP736	46° 09' 11.25" 70° 14' 51.37"	TP737	210° 38' 37"	30° 38' 36"	34.90
TP737	46° 09' 10.27" 70° 14' 52.20"	TP738	195° 45' 32"	15° 45' 32"	40.00
TP738	46° 09' 09.03" 70° 14' 52.71"	TP739	264° 25' 31"	84° 25' 30"	29.70
TP739	46° 09' 08.93" 70° 14' 54.08"	TP740	182° 53' 35"	2° 53' 35"	59.80
TP740	46° 09' 07.00" 70° 14' 54.22"	TP741	141° 05' 39"	321° 05' 39"	19.80
TP741	46° 09' 06.50" 70° 14' 53.64"	TP742	107° 07' 33"	287° 07' 34"	38.70
TP742	46° 09' 06.13" 70° 14' 51.92"	TP743	59° 26' 28"	239° 26' 29"	35.80
TP743	46° 09' 06.72" 70° 14' 50.48"	TP744	81° 37' 38"	261° 37' 39"	17.20
TP744	46° 09' 06.80" 70° 14' 49.69"	TP745	107° 06' 40"	287° 06' 41"	24.90
TP745	46° 09' 06.57" 70° 14' 48.58"	TP746	133° 51' 40"	313° 51' 41"	42.80

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP746	46° 09' 05.61" 70° 14' 47.15"	TP747	169° 53' 42"	349° 53' 43"	54.40
TP747	46° 09' 03.87" 70° 14' 46.70"	TP748	133° 55' 42"	313° 55' 42"	21.79
TP748	46° 09' 03.38" 70° 14' 45.97"	TP749	103° 52' 42"	283° 52' 43"	24.70
TP749	46° 09' 03.19" 70° 14' 44.85"	TP750	79° 08' 43"	259° 08' 44"	48.70
TP750	46° 09' 03.49" 70° 14' 42.62"	TP751	53° 20' 52"	233° 20' 53"	52.30
TP751	46° 09' 04.50" 70° 14' 40.67"	TP752	23° 31' 49"	203° 31' 50"	33.60
TP752	46° 09' 05.49" 70° 14' 40.04"	TP753	83° 36' 52"	263° 36' 53"	28.40
TP753	46° 09' 05.60" 70° 14' 38.73"	TP754	116° 25' 57"	296° 25' 58"	23.10
TP754	46° 09' 05.26" 70° 14' 37.76"	TP755	149° 31' 04"	329° 31' 04"	27.60
TP755	46° 09' 04.49" 70° 14' 37.11"	TP756	194° 27' 03"	14° 27' 02"	63.60
TP756	46° 09' 02.50" 70° 14' 37.85"	TP757	122° 04' 05"	302° 04' 07"	47.39
TP757	46° 09' 01.68" 70° 14' 35.98"	TP758	165° 22' 06"	345° 22' 07"	42.80
TP758	46° 09' 00.34" 70° 14' 35.48"	TP759	146° 43' 08"	326° 43' 08"	20.00
TP759	46° 08' 59.80" 70° 14' 34.96"	TP760	117° 53' 17"	297° 53' 18"	46.20
TP760	46° 08' 59.10" 70° 14' 33.06"	TP761	89° 31' 13"	269° 31' 15"	46.10
TP761	46° 08' 59.11" 70° 14' 30.91"	TP762	43° 32' 17"	223° 32' 17"	41.00

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP762	46° 09' 00.08" 70° 14' 29.60"	TP763	10° 53' 21"	190° 53' 21"	52.80
TP763	46° 09' 01.76" 70° 14' 29.13"	TP764	347° 41' 19"	167° 41' 19"	32.40
TP764	46° 09' 02.78" 70° 14' 29.46"	TP765	46° 49' 28"	226° 49' 29"	31.60
TP765	46° 09' 03.48" 70° 14' 28.38"	TP766	89° 49' 34"	269° 49' 35"	48.00
TP766	46° 09' 03.49" 70° 14' 26.14"	TP767	139° 29' 32"	319° 29' 33"	39.49
TP767	46° 09' 02.51" 70° 14' 24.95"	TP768	197° 25' 42"	17° 25' 42"	20.70
TP768	46° 09' 01.87" 70° 14' 25.24"	TP769	171° 20' 46"	351° 20' 46"	58.60
TP769	46° 08' 60.00" 70° 14' 24.83"	TP770	144° 11' 43"	324° 11' 43"	26.62
		RMC76	227° 42' 51"	47° 42' 46"	199.24
		RMS74	39° 58' 46"	219° 58' 48"	124.04
RMC76	46° 08' 55.657" 70° 14' 31.696"	RMS74	44° 44' 47"	224° 44' 55"	322.58
		TP769	47° 42' 46"	227° 42' 51"	199.24
RMS74	46° 09' 03.077" 70° 14' 21.113"	TP769	219° 58' 48"	39° 58' 46"	124.04
TP770	46° 08' 59.30" 70° 14' 24.10"	TP771	196° 31' 20"	16° 31' 20"	21.80
TP771	46° 08' 58.62" 70° 14' 24.39"	TP772	235° 02' 03"	55° 02' 03"	28.39
TP772	46° 08' 58.10" 70° 14' 25.47"	TP773	191° 13' 47"	11° 13' 46"	36.31
TP773	46° 08' 56.94" 70° 14' 25.80"	TP774	160° 16' 32"	340° 16' 32"	18.91
TP774	46° 08' 56.37" 70° 14' 25.51"	TP775	123° 11' 04"	303° 11' 05"	15.12

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP775	46° 08' 56.10" 70° 14' 24.92"	TP776	77° 54' 46"	257° 54' 47"	25.31
TP776	46° 08' 56.27" 70° 14' 23.76"	TP777	98° 53' 32"	278° 53' 33"	23.52
TP777	46° 08' 56.15" 70° 14' 22.68"	TP778	123° 01' 14"	303° 01' 15"	35.12
TP778	46° 08' 55.53" 70° 14' 21.31"	TP779	147° 33' 15"	327° 33' 18"	151.02
TP779	46° 08' 51.40" 70° 14' 17.53"	TP780	156° 45' 15"	336° 45' 17"	111.01
TP780	46° 08' 48.10" 70° 14' 15.49"	TP781	131° 06' 22"	311° 06' 22"	30.02
TP781	46° 08' 47.46" 70° 14' 14.44"	TP782	95° 11' 11"	275° 11' 12"	32.82
TP782	46° 08' 47.37" 70° 14' 12.92"	TP783	110° 54' 14"	290° 54' 15"	29.22
TP783	46° 08' 47.03" 70° 14' 11.64"	TP784	176° 37' 06"	356° 37' 06"	41.31
TP784	46° 08' 45.69" 70° 14' 11.53"	TP785	203° 36' 08"	23° 36' 07"	58.00
TP785	46° 08' 43.97" 70° 14' 12.61"	TP786	129° 21' 05"	309° 21' 07"	55.32
TP786	46° 08' 42.84" 70° 14' 10.62"	TP787 RMS75	187° 09' 16" 66° 06' 10"	7° 09' 16" 246° 06' 19"	21.10 302.02
RMS75	46° 08' 46.798" 70° 13' 57.752"	RMS74 TP786	315° 04' 41" 246° 06' 19"	135° 04' 24" 66° 06' 10"	709.92 302.02
TP787	46° 08' 42.16" 70° 14' 10.74"	TP788	250° 52' 10"	70° 52' 08"	78.70
TP788	46° 08' 41.32" 70° 14' 14.21"	TP789	223° 37' 11"	43° 37' 10"	56.80
TP789	46° 08' 39.99" 70° 14' 16.03"	TP790	231° 39' 06"	51° 39' 05"	41.70

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec		State: Maine			
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP790	46° 08' 39.15" 70° 14' 17.56"	TP791	218° 58' 07"	38° 58' 06"	77.40
TP791	46° 08' 37.20" 70° 14' 19.82"	TP792	269° 16' 53"	89° 16' 53"	5.90
TP792	46° 08' 37.20" 70° 14' 20.10"	TP793	220° 13' 46"	40° 13' 46"	23.20
TP793	46° 08' 36.63" 70° 14' 20.80"	TP794	226° 15' 50"	46° 15' 49"	50.20
TP794	46° 08' 35.50" 70° 14' 22.49"	TP795	165° 36' 48"	345° 36' 49"	120.70
TP795	46° 08' 31.72" 70° 14' 21.09"	TP796	269° 14' 07"	89° 14' 06"	8.90
TP796	46° 08' 31.71" 70° 14' 21.50"	TP797	226° 38' 03"	46° 38' 02"	55.50
TP797	46° 08' 30.48" 70° 14' 23.38"	TP798	154° 59' 05"	334° 59' 06"	90.40
TP798	46° 08' 27.82" 70° 14' 21.60"	TP799	201° 50' 10"	21° 50' 10"	19.60
TP799	46° 08' 27.24" 70° 14' 21.94"	TP800	239° 34' 08"	59° 34' 07"	55.10
TP800	46° 08' 26.33" 70° 14' 24.16"	TP801	188° 02' 13"	8° 02' 13"	23.70
TP801	46° 08' 25.57" 70° 14' 24.31"	TP802	104° 58' 11"	284° 58' 13"	48.20
TP802	46° 08' 25.17" 70° 14' 22.14"	TP803	143° 35' 11"	323° 35' 11"	19.80
TP803	46° 08' 24.65" 70° 14' 21.59"	TP804	174° 44' 19"	354° 44' 19"	28.80
TP804	46° 08' 23.72" 70° 14' 21.47"	TP805	204° 54' 19"	24° 54' 19"	53.80
TP805	46° 08' 22.14" 70° 14' 22.53"	TP806	293° 03' 20"	113° 03' 19"	24.30

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP806	46° 08' 22.45" 70° 14' 23.57"	TP807	265° 42' 20"	85° 42' 20"	21.40
TP807	46° 08' 22.40" 70° 14' 24.56"	TP808	191° 25' 20"	11° 25' 19"	39.50
TP808	46° 08' 21.14" 70° 14' 24.93"	TP809	199° 04' 23"	19° 04' 23"	19.30
TP809	46° 08' 20.55" 70° 14' 25.22"	TP810	128° 53' 34"	308° 53' 34"	24.20
TP810	46° 08' 20.06" 70° 14' 24.34"	TP811	143° 28' 29"	323° 28' 30"	29.70
TP811	46° 08' 19.29" 70° 14' 23.52"	TP812	155° 14' 29"	335° 14' 30"	48.40
TP812	46° 08' 17.86" 70° 14' 22.58"	TP813	212° 21' 35"	32° 21' 35"	27.60
TP813	46° 08' 17.11" 70° 14' 23.26"	TP814	159° 07' 34"	339° 07' 34"	26.40
TP814	46° 08' 16.31" 70° 14' 22.83"	TP815	219° 51' 40"	39° 51' 39"	16.30
TP815	46° 08' 15.91" 70° 14' 23.31"	TP816	314° 11' 35"	134° 11' 35"	19.00
TP816	46° 08' 16.33" 70° 14' 23.95"	TP817	285° 55' 42"	105° 55' 42"	26.90
TP817	46° 08' 16.57" 70° 14' 25.15"	TP818	185° 45' 38"	5° 45' 38"	28.60
TP818	46° 08' 15.65" 70° 14' 25.29"	TP819	200° 13' 40"	20° 13' 40"	16.30
TP819	46° 08' 15.16" 70° 14' 25.55"	TP820 RMC77 RMS76	187° 26' 43" 289° 23' 42" 112° 53' 45"	7° 26' 43" 109° 23' 39" 292° 53' 51"	36.50 102.86 195.37
RMC77	46° 08' 16.263" 70° 14' 30.069"	RMS76 TP819	111° 41' 16" 109° 23' 39"	291° 41' 25" 289° 23' 42"	298.10 102.86

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
RMS76	46° 08' 12.694" 70° 14' 17.164"	TP819	292° 53' 51"	112° 53' 45"	195.37
TP820	46° 08' 13.98" 70° 14' 25.77"	TP821	133° 46' 39"	313° 46' 40"	29.40
TP821	46° 08' 13.33" 70° 14' 24.78"	TP822	174° 20' 34"	354° 20' 34"	18.90
TP822	46° 08' 12.72" 70° 14' 24.69"	TP823	209° 56' 28"	29° 56' 28"	14.80
TP823	46° 08' 12.30" 70° 14' 25.04"	TP824	285° 16' 25"	105° 16' 24"	27.40
TP824	46° 08' 12.53" 70° 14' 26.27"	TP825	166° 07' 15"	346° 07' 15"	27.30
TP825	46° 08' 11.68" 70° 14' 25.96"	TP826	265° 58' 15"	85° 58' 15"	23.40
TP826	46° 08' 11.62" 70° 14' 27.05"	TP827	239° 01' 02"	59° 01' 02"	13.70
TP827	46° 08' 11.39" 70° 14' 27.60"	TP828	174° 38' 58"	354° 38' 59"	25.30
TP828	46° 08' 10.58" 70° 14' 27.49"	TP829	254° 58' 54"	74° 58' 53"	21.80
TP829	46° 08' 10.40" 70° 14' 28.47"	TP830	209° 26' 44"	29° 26' 44"	15.20
TP830	46° 08' 09.97" 70° 14' 28.82"	TP831	192° 28' 49"	12° 28' 49"	23.50
TP831	46° 08' 09.22" 70° 14' 29.05"	TP832	200° 51' 42"	20° 51' 41"	44.80
TP832	46° 08' 07.87" 70° 14' 29.80"	TP833	218° 04' 34"	38° 04' 33"	13.40
TP833	46° 08' 07.53" 70° 14' 30.18"	TP834	273° 18' 18"	93° 18' 18"	14.00
TP834	46° 08' 07.55" 70° 14' 30.83"	TP835	213° 19' 17"	33° 19' 17"	19.40

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP835	46° 08' 07.03" 70° 14' 31.33"	TP836	155° 51' 21"	335° 51' 22"	25.50
TP836	46° 08' 06.27" 70° 14' 30.84"	TP837	170° 33' 12"	350° 33' 12"	21.80
TP837	46° 08' 05.58" 70° 14' 30.68"	TP838	87° 27' 20"	267° 27' 21"	21.20
TP838	46° 08' 05.61" 70° 14' 29.69"	TP839	156° 21' 58"	336° 21' 59"	16.40
TP839	46° 08' 05.12" 70° 14' 29.38"	TP840	202° 06' 05"	22° 06' 04"	51.70
TP840	46° 08' 03.57" 70° 14' 30.29"	TP841	213° 37' 04"	33° 37' 03"	103.80
TP841	46° 08' 00.77" 70° 14' 32.97"	TP842	192° 14' 02"	12° 14' 02"	46.30
TP842	46° 07' 59.30" 70° 14' 33.43"	TP843	218° 06' 02"	38° 06' 01"	17.00
TP843	46° 07' 58.87" 70° 14' 33.91"	TP844	188° 14' 57"	8° 14' 57"	44.50
TP844	46° 07' 57.44" 70° 14' 34.21"	TP845	203° 49' 02"	23° 49' 02"	31.70
TP845	46° 07' 56.50" 70° 14' 34.81"	TP846	114° 51' 56"	294° 51' 57"	25.10
TP846	46° 07' 56.16" 70° 14' 33.75"	TP847	131° 52' 02"	311° 52' 02"	22.20
TP847	46° 07' 55.68" 70° 14' 32.98"	TP848	168° 43' 50"	348° 43' 50"	47.50
TP848	46° 07' 54.17" 70° 14' 32.54"	TP849	209° 32' 54"	29° 32' 53"	75.30
TP849	46° 07' 52.05" 70° 14' 34.27"	TP850	258° 53' 53"	78° 53' 52"	31.00
TP850	46° 07' 51.86" 70° 14' 35.69"	TP851	250° 40' 52"	70° 40' 52"	27.10

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec		State: Maine			
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP851	46° 07' 51.57" 70° 14' 36.88"	TP852	274° 52' 50"	94° 52' 49"	25.10
TP852	46° 07' 51.64" 70° 14' 38.05"	TP853	182° 23' 42"	2° 23' 42"	22.40
TP853	46° 07' 50.91" 70° 14' 38.09"	TP854	132° 49' 45"	312° 49' 46"	34.80
TP854	46° 07' 50.15" 70° 14' 36.90"	TP855	171° 25' 47"	351° 25' 47"	25.90
TP855	46° 07' 49.32" 70° 14' 36.72"	TP856	208° 19' 50"	28° 19' 49"	67.40
TP856	46° 07' 47.40" 70° 14' 38.21"	TP857	173° 35' 50"	353° 35' 50"	17.70
TP857	46° 07' 46.83" 70° 14' 38.12"	TP858	120° 55' 42"	300° 55' 42"	14.90
TP858	46° 07' 46.58" 70° 14' 37.52"	TP859	141° 52' 50"	321° 52' 50"	18.10
TP859	46° 07' 46.12" 70° 14' 37.00"	TP860	198° 02' 45"	18° 02' 45"	30.70
TP860	46° 07' 45.17" 70° 14' 37.45"	TP861	141° 56' 36"	321° 56' 37"	21.90
TP861	46° 07' 44.61" 70° 14' 36.82"	TP862	180° 18' 45"	0° 18' 45"	33.60
TP862	46° 07' 43.52" 70° 14' 36.83"	TP863	215° 28' 54"	35° 28' 53"	15.60
TP863	46° 07' 43.11" 70° 14' 37.25"	TP864	262° 54' 45"	82° 54' 44"	18.30
TP864	46° 07' 43.04" 70° 14' 38.09"	TP865	313° 11' 45"	133° 11' 45"	21.00
TP865	46° 07' 43.51" 70° 14' 38.81"	TP866	232° 24' 47"	52° 24' 47"	15.10
TP866	46° 07' 43.21" 70° 14' 39.37"	TP867	260° 42' 40"	80° 42' 39"	24.40

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP867	46° 07' 43.08" 70° 14' 40.49"	TP868	230° 41' 40"	50° 41' 40"	11.40
TP868	46° 07' 42.85" 70° 14' 40.90"	TP869	210° 46' 49"	30° 46' 49"	17.90
TP869	46° 07' 42.35" 70° 14' 41.32"	TP870	180° 26' 49"	0° 26' 49"	37.90
TP870	46° 07' 41.12" 70° 14' 41.34"	TP871	215° 56' 53"	35° 56' 53"	20.10
TP871	46° 07' 40.59" 70° 14' 41.89"	TP872	177° 28' 47"	357° 28' 47"	11.90
TP872	46° 07' 40.21" 70° 14' 41.86"	TP873	94° 25' 59"	274° 26' 00"	17.00
TP873	46° 07' 40.16" 70° 14' 41.07"	TP874	181° 10' 54"	1° 10' 54"	30.60
TP874	46° 07' 39.17" 70° 14' 41.10"	TP875	139° 10' 53"	319° 10' 54"	18.90
TP875	46° 07' 38.71" 70° 14' 40.53"	TP876	198° 26' 55"	18° 26' 55"	17.10
TP876	46° 07' 38.19" 70° 14' 40.78"	TP877	274° 45' 00"	94° 44' 59"	25.20
TP877	46° 07' 38.25" 70° 14' 41.95"	TP878	241° 45' 15"	61° 45' 14"	10.30
TP878	46° 07' 38.09" 70° 14' 42.37"	TP879	139° 12' 04"	319° 12' 05"	18.90
TP879	46° 07' 37.63" 70° 14' 41.80"	TP880	183° 50' 17"	3° 50' 17"	11.40
TP880	46° 07' 37.26" 70° 14' 41.83"	TP881	253° 36' 06"	73° 36' 05"	22.80
TP881	46° 07' 37.05" 70° 14' 42.85"	TP882	198° 15' 09"	18° 15' 09"	11.50
TP882	46° 07' 36.70" 70° 14' 43.02"	TP883	146° 38' 20"	326° 38' 20"	20.10

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP883	46° 07' 36.16" 70° 14' 42.50"	TP884	192° 39' 14"	12° 39' 14"	8.80
TP884	46° 07' 35.88" 70° 14' 42.59"	TP885	214° 16' 28"	34° 16' 27"	39.00
TP885	46° 07' 34.84" 70° 14' 43.62"	TP886	196° 45' 34"	16° 45' 33"	27.00
TP886	46° 07' 34.00" 70° 14' 43.98"	TP887	269° 21' 27"	89° 21' 26"	31.90
TP887	46° 07' 33.99" 70° 14' 45.47"	TP888	206° 54' 36"	26° 54' 35"	20.10
TP888	46° 07' 33.41" 70° 14' 45.89"	TP889	184° 59' 31"	4° 59' 31"	21.40
TP889	46° 07' 32.71" 70° 14' 45.98"	TP890	211° 58' 39"	31° 58' 39"	10.60
TP890	46° 07' 32.42" 70° 14' 46.24"	TP891	296° 52' 48"	116° 52' 47"	16.50
TP891	46° 07' 32.67" 70° 14' 46.92"	TP892	238° 00' 50"	58° 00' 49"	23.60
TP892	46° 07' 32.26" 70° 14' 47.86"	TP893	205° 48' 52"	25° 48' 52"	11.80
TP893	46° 07' 31.92" 70° 14' 48.10"	TP894	220° 21' 01"	40° 21' 00"	22.80
TP894	46° 07' 31.35" 70° 14' 48.78"	TP895	277° 59' 00"	97° 58' 59"	19.20
		RMC78	292° 44' 04"	112° 43' 59"	160.61
		RMS77	110° 24' 02"	290° 24' 07"	161.82
RMC78	46° 07' 33.364" 70° 14' 55.683"	RMS77	111° 33' 42"	291° 33' 53"	322.36
		TP894	112° 43' 59"	292° 44' 04"	160.61
RMS77	46° 07' 29.527" 70° 14' 41.719"	TP894	290° 24' 07"	110° 24' 02"	161.82
TP895	46° 07' 31.44" 70° 14' 49.67"	TP896	330° 24' 06"	150° 24' 05"	22.89

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP896	46° 07' 32.08" 70° 14' 50.20"	TP897	275° 17' 13"	95° 17' 13"	12.40
TP897	46° 07' 32.12" 70° 14' 50.77"	TP898	188° 40' 05"	8° 40' 05"	36.51
TP898	46° 07' 30.95" 70° 14' 51.03"	TP899	157° 25' 08"	337° 25' 09"	32.41
TP899	46° 07' 29.98" 70° 14' 50.45"	TP900	166° 18' 13"	346° 18' 13"	37.31
TP900	46° 07' 28.81" 70° 14' 50.04"	TP901	148° 20' 07"	328° 20' 07"	33.41
TP901	46° 07' 27.89" 70° 14' 49.22"	TP902	197° 08' 02"	17° 08' 02"	14.11
TP902	46° 07' 27.45" 70° 14' 49.41"	TP903	245° 59' 10"	65° 59' 09"	26.81
TP903	46° 07' 27.10" 70° 14' 50.55"	TP904	187° 10' 08"	7° 10' 08"	19.21
TP904	46° 07' 26.48" 70° 14' 50.66"	TP905	239° 22' 09"	59° 22' 09"	12.61
TP905	46° 07' 26.27" 70° 14' 51.17"	TP906	304° 45' 59"	124° 45' 58"	27.80
TP906	46° 07' 26.79" 70° 14' 52.23"	TP907	240° 51' 12"	60° 51' 12"	14.11
TP907	46° 07' 26.56" 70° 14' 52.81"	TP908	170° 04' 05"	350° 04' 05"	23.01
TP908	46° 07' 25.83" 70° 14' 52.62"	TP909	183° 20' 16"	3° 20' 16"	21.31
TP909	46° 07' 25.14" 70° 14' 52.68"	TP910	169° 37' 11"	349° 37' 11"	25.91
TP910	46° 07' 24.32" 70° 14' 52.46"	TP911	154° 49' 06"	334° 49' 07"	25.61
TP911	46° 07' 23.57" 70° 14' 51.96"	TP912	212° 01' 13"	32° 01' 13"	30.71

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP912	46° 07' 22.72" 70° 14' 52.71"	TP913	162° 26' 08"	342° 26' 09"	35.31
TP913	46° 07' 21.63" 70° 14' 52.22"	TP914	210° 00' 11"	30° 00' 10"	32.71
TP914	46° 07' 20.72" 70° 14' 52.98"	TP915	199° 45' 10"	19° 45' 10"	19.71
TP915	46° 07' 20.11" 70° 14' 53.29"	TP916	266° 40' 07"	86° 40' 06"	28.90
TP916	46° 07' 20.06" 70° 14' 54.63"	TP917	195° 44' 06"	15° 44' 06"	55.21
TP917	46° 07' 18.34" 70° 14' 55.33"	TP918	216° 08' 07"	36° 08' 06"	48.41
TP918	46° 07' 17.07" 70° 14' 56.66"	TP919	202° 08' 06"	22° 08' 05"	58.21
TP919	46° 07' 15.33" 70° 14' 57.68"	TP920	217° 03' 08"	37° 03' 07"	52.61
TP920	46° 07' 13.97" 70° 14' 59.16"	TP921	172° 26' 59"	352° 27' 00"	20.01
TP921	46° 07' 13.32" 70° 14' 59.04"	TP922	274° 14' 11"	94° 14' 11"	12.80
TP922	46° 07' 13.35" 70° 14' 59.63"	TP923	265° 01' 12"	85° 01' 11"	43.10
TP923	46° 07' 13.23" 70° 15' 01.63"	TP924	212° 47' 22"	32° 47' 22"	21.51
TP924	46° 07' 12.65" 70° 15' 02.17"	TP925	157° 02' 18"	337° 02' 19"	29.01
TP925	46° 07' 11.78" 70° 15' 01.65"	TP926	198° 02' 23"	18° 02' 22"	25.61
TP926	46° 07' 10.99" 70° 15' 02.02"	TP927	241° 55' 32"	61° 55' 32"	13.71
TP927	46° 07' 10.79" 70° 15' 02.58"	TP928	299° 29' 38"	119° 29' 38"	14.60

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP928	46° 07' 11.02"	TP929	221° 42' 41"	41° 42' 41"	24.00
	70° 15' 03.17"	RMC79	289° 18' 43"	109° 18' 39"	117.01
		RMS78	114° 15' 39"	294° 15' 45"	218.41
RMC79	46° 07' 12.272"	RMS78	112° 32' 01"	292° 32' 12"	335.14
	70° 15' 08.313"	TP928	109° 18' 39"	289° 18' 43"	117.01
RMS78	46° 07' 08.112"	TP928	294° 15' 45"	114° 15' 39"	218.41
	70° 14' 53.896"				
TP929	46° 07' 10.44"	TP930	285° 20' 32"	105° 20' 32"	16.50
	70° 15' 03.91"				
TP930	46° 07' 10.58"	TP931	234° 22' 38"	54° 22' 37"	18.20
	70° 15' 04.65"				
TP931	46° 07' 10.24"	TP932	172° 04' 31"	352° 04' 31"	13.60
	70° 15' 05.34"				
TP932	46° 07' 09.80"	TP933	136° 52' 34"	316° 52' 35"	22.40
	70° 15' 05.26"				
TP933	46° 07' 09.27"	TP934	160° 02' 26"	340° 02' 27"	16.60
	70° 15' 04.54"				
TP934	46° 07' 08.77"	TP935	153° 02' 32"	333° 02' 32"	28.90
	70° 15' 04.28"				
TP935	46° 07' 07.93"	TP936	174° 48' 26"	354° 48' 26"	43.80
	70° 15' 03.67"				
TP936	46° 07' 06.52"	TP937	200° 30' 24"	20° 30' 23"	34.20
	70° 15' 03.48"				
TP937	46° 07' 05.48"	TP938	165° 27' 32"	345° 27' 32"	25.00
	70° 15' 04.04"				
TP938	46° 07' 04.70"	TP939	215° 12' 29"	35° 12' 28"	22.20
	70° 15' 03.75"				
TP939	46° 07' 04.11"	TP940	264° 58' 23"	84° 58' 22"	12.60
	70° 15' 04.35"				
TP940	46° 07' 04.07"	TP941	311° 12' 19"	131° 12' 19"	20.00
	70° 15' 04.93"				

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP941	46° 07' 04.50" 70° 15' 05.63"	TP942	236° 32' 22"	56° 32' 21"	21.20
TP942	46° 07' 04.12" 70° 15' 06.46"	TP943	189° 24' 20"	9° 24' 20"	37.30
TP943	46° 07' 02.93" 70° 15' 06.74"	TP944	157° 52' 20"	337° 52' 21"	56.70
TP944	46° 07' 01.23" 70° 15' 05.74"	TP945	179° 14' 21"	359° 14' 21"	30.80
TP945	46° 07' 00.23" 70° 15' 05.73"	TP946	218° 30' 23"	38° 30' 22"	38.10
TP946	46° 06' 59.27" 70° 15' 06.83"	TP947	239° 19' 19"	59° 19' 18"	46.40
TP947	46° 06' 58.50" 70° 15' 08.69"	TP948	177° 40' 17"	357° 40' 17"	32.60
TP948	46° 06' 57.44" 70° 15' 08.63"	TP949	212° 05' 18"	32° 05' 18"	13.10
TP949	46° 06' 57.09" 70° 15' 08.95"	TP950	164° 47' 16"	344° 47' 17"	90.80
TP950	46° 06' 54.25" 70° 15' 07.84"	TP951	214° 40' 21"	34° 40' 20"	13.60
TP951	46° 06' 53.89" 70° 15' 08.20"	TP952	300° 01' 16"	120° 01' 14"	45.60
TP952	46° 06' 54.62" 70° 15' 10.04"	TP953	275° 49' 18"	95° 49' 18"	18.40
TP953	46° 06' 54.68" 70° 15' 10.89"	TP954	211° 14' 07"	31° 14' 07"	18.20
TP954	46° 06' 54.18" 70° 15' 11.33"	TP955	134° 34' 14"	314° 34' 15"	36.60
TP955	46° 06' 53.35" 70° 15' 10.12"	TP956	147° 42' 12"	327° 42' 12"	20.60
TP956	46° 06' 52.79" 70° 15' 09.61"	TP957	196° 55' 11"	16° 55' 11"	21.20

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP957	46° 06' 52.13" 70° 15' 09.89"	TP958	275° 07' 08"	95° 07' 07"	28.30
TP958	46° 06' 52.21" 70° 15' 11.21"	TP959	302° 46' 14"	122° 46' 13"	18.50
TP959	46° 06' 52.53" 70° 15' 11.93"	TP960	262° 00' 08"	82° 00' 08"	13.00
TP960	46° 06' 52.48" 70° 15' 12.53"	TP961	160° 31' 04"	340° 31' 04"	25.20
TP961	46° 06' 51.71" 70° 15' 12.14"	TP962	158° 30' 07"	338° 30' 07"	14.80
TP962	46° 06' 51.26" 70° 15' 11.89"	TP963	217° 26' 57"	37° 26' 57"	7.20
TP963	46° 06' 51.08" 70° 15' 12.09"	TP964	316° 27' 06"	136° 27' 06"	15.30
TP964	46° 06' 51.43" 70° 15' 12.58"	TP965	252° 11' 58"	72° 11' 58"	9.30
TP965	46° 06' 51.34" 70° 15' 12.99"	TP966	183° 37' 00"	3° 37' 00"	32.10
TP966	46° 06' 50.31" 70° 15' 13.09"	TP967	277° 15' 00"	97° 14' 59"	23.60
TP967	46° 06' 50.40" 70° 15' 14.18"	TP968	299° 22' 00"	119° 22' 00"	15.20
TP968	46° 06' 50.64" 70° 15' 14.79"	TP969	195° 57' 51"	15° 57' 50"	17.70
TP969	46° 06' 50.09" 70° 15' 15.02"	TP970	243° 37' 57"	63° 37' 56"	23.90
TP970	46° 06' 49.75" 70° 15' 16.02"	TP971	205° 31' 45"	25° 31' 45"	14.40
TP971	46° 06' 49.33" 70° 15' 16.31"	TP972	169° 00' 50"	349° 00' 51"	44.40
TP972	46° 06' 47.92" 70° 15' 15.91"	TP973	97° 18' 21"	277° 18' 21"	7.20

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP973	46° 06' 47.89" 70° 15' 15.58"	TP974	27° 13' 42"	207° 13' 42"	13.90
TP974	46° 06' 48.29" 70° 15' 15.28"	TP975	82° 58' 27"	262° 58' 27"	8.00
TP975	46° 06' 48.32" 70° 15' 14.91"	TP976	184° 59' 34"	4° 59' 34"	14.10
TP976	46° 06' 47.86" 70° 15' 14.97"	TP977	121° 07' 12"	301° 07' 12"	10.20
TP977	46° 06' 47.69" 70° 15' 14.56"	TP978	147° 53' 32"	327° 53' 33"	20.60
TP978	46° 06' 47.13" 70° 15' 14.05"	TP979	184° 56' 41"	4° 56' 41"	13.00
TP979	46° 06' 46.71" 70° 15' 14.11"	TP980	96° 20' 39"	276° 20' 40"	13.70
TP980	46° 06' 46.66" 70° 15' 13.47"	TP981	116° 11' 19"	296° 11' 20"	14.00
TP981	46° 06' 46.46" 70° 15' 12.89"	TP982	130° 58' 33"	310° 58' 33"	12.20
TP982	46° 06' 46.20" 70° 15' 12.46"	TP983	169° 37' 37"	349° 37' 37"	19.50
TP983	46° 06' 45.58" 70° 15' 12.30"	TP984	194° 43' 31"	14° 43' 31"	33.20
TP984	46° 06' 44.54" 70° 15' 12.69"	TP985	165° 53' 24"	345° 53' 24"	12.80
TP985	46° 06' 44.14" 70° 15' 12.54"	TP986	238° 33' 31"	58° 33' 30"	14.20
TP986	46° 06' 43.90" 70° 15' 13.11"	TP987	260° 18' 28"	80° 18' 27"	13.50
TP987	46° 06' 43.82" 70° 15' 13.73"	TP988	319° 55' 31"	139° 55' 31"	12.50
TP988	46° 06' 44.13" 70° 15' 14.10"	TP989	204° 10' 33"	24° 10' 32"	41.00

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP989	46° 06' 42.92" 70° 15' 14.88"	TP990	99° 49' 21"	279° 49' 21"	12.50
TP990	46° 06' 42.85" 70° 15' 14.31"	TP991	159° 31' 39"	339° 31' 39"	10.20
TP991	46° 06' 42.54" 70° 15' 14.14"	TP992	233° 43' 35"	53° 43' 34"	20.50
TP992	46° 06' 42.15" 70° 15' 14.91"	TP993	174° 19' 28"	354° 19' 28"	12.40
TP993	46° 06' 41.75" 70° 15' 14.86"	TP994	87° 54' 31"	267° 54' 31"	13.90
TP994	46° 06' 41.77" 70° 15' 14.21"	TP995	138° 31' 32"	318° 31' 32"	7.30
TP995	46° 06' 41.59" 70° 15' 13.98"	TP996	210° 03' 40"	30° 03' 40"	18.30
TP996	46° 06' 41.08" 70° 15' 14.41"	TP997	276° 02' 35"	96° 02' 34"	17.60
TP997	46° 06' 41.14" 70° 15' 15.23"	TP998	201° 20' 38"	21° 20' 38"	10.80
TP998	46° 06' 40.81" 70° 15' 15.41"	TP999	141° 41' 31"	321° 41' 32"	17.30
TP999	46° 06' 40.37" 70° 15' 14.91"	TP1000	180° 11' 49"	0° 11' 49"	13.80
TP1000	46° 06' 39.93" 70° 15' 14.91"	TP1001	233° 19' 40"	53° 19' 39"	17.10
TP1001	46° 06' 39.59" 70° 15' 15.55"	TP1002	273° 09' 36"	93° 09' 35"	21.30
TP1002	46° 06' 39.63" 70° 15' 16.54"	TP1003	285° 47' 35"	105° 47' 34"	24.90
TP1003	46° 06' 39.85" 70° 15' 17.66"	TP1004	225° 58' 04"	45° 58' 04"	8.90
TP1004	46° 06' 39.65" 70° 15' 17.95"	TP1005	164° 58' 35"	344° 58' 35"	10.40

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP1005	46° 06' 39.33" 70° 15' 17.83"	TP1006	198° 00' 38"	18° 00' 37"	17.90
TP1006	46° 06' 38.77" 70° 15' 18.09"	TP1007	301° 20' 36"	121° 20' 36"	11.10
TP1007	46° 06' 38.96" 70° 15' 18.53"	TP1008	239° 45' 35"	59° 45' 34"	10.20
TP1008	46° 06' 38.80" 70° 15' 18.94"	TP1009	179° 49' 33"	359° 49' 33"	42.60
TP1009	46° 06' 37.42" 70° 15' 18.93"	TP1010	87° 54' 30"	267° 54' 31"	14.10
TP1010	46° 06' 37.43" 70° 15' 18.28"	TP1011	79° 14' 38"	259° 14' 39"	16.10
TP1011	46° 06' 37.53" 70° 15' 17.54"	TP1012	125° 31' 31"	305° 31' 31"	14.50
TP1012	46° 06' 37.26" 70° 15' 16.99"	TP1013	157° 33' 28"	337° 33' 28"	24.20
TP1013	46° 06' 36.53" 70° 15' 16.56"	TP1014	241° 30' 32"	61° 30' 31"	14.70
TP1014	46° 06' 36.31" 70° 15' 17.16"	TP1015	210° 37' 37"	30° 37' 37"	21.90
		RMC80	288° 11' 37"	108° 11' 34"	93.70
		RMS79-43	113° 30' 49"	293° 30' 52"	105.07
RMC80	46° 06' 37.253" 70° 15' 21.306"	RMS79-43	111° 34' 48"	291° 34' 54"	197.05
		TP1014	108° 11' 34"	288° 11' 37"	93.70
RMS79-43	46° 06' 34.948" 70° 15' 12.675"	RMC81	201° 42' 48"	21° 42' 41"	589.99
		TP1027	202° 05' 33"	22° 05' 31"	191.21
		TP1014	293° 30' 52"	113° 30' 49"	105.07
SO RMS79	46° 06' 34.906" 70° 15' 12.774"	RMC81	201° 34' 05"	21° 33' 58"	587.99
		TP1027	201° 38' 42"	21° 38' 40"	189.21
		TP1014	293° 30' 52"	113° 30' 49"	105.07
		RMC80	291° 34' 54"	111° 34' 48"	197.05
TP1015	46° 06' 35.70" 70° 15' 17.68"	TP1016	194° 13' 20"	14° 13' 20"	13.91

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP1016	46° 06' 35.26" 70° 15' 17.84"	TP1017	170° 23' 30"	350° 23' 31"	34.01
TP1017	46° 06' 34.17" 70° 15' 17.58"	TP1018	222° 55' 27"	42° 55' 27"	19.20
TP1018	46° 06' 33.72" 70° 15' 18.18"	TP1019	200° 52' 22"	20° 52' 21"	25.51
TP1019	46° 06' 32.95" 70° 15' 18.61"	TP1020	220° 03' 27"	40° 03' 27"	18.50
TP1020	46° 06' 32.49" 70° 15' 19.16"	TP1021	160° 14' 34"	340° 14' 34"	24.61
TP1021	46° 06' 31.74" 70° 15' 18.77"	TP1022	124° 11' 24"	304° 11' 24"	22.81
TP1022	46° 06' 31.32" 70° 15' 17.90"	TP1023	193° 50' 27"	13° 50' 26"	19.61
TP1023	46° 06' 30.70" 70° 15' 18.11"	TP1024	158° 10' 32"	338° 10' 32"	8.61
TP1024	46° 06' 30.45" 70° 15' 17.97"	TP1025	93° 57' 38"	273° 57' 38"	13.71
TP1025	46° 06' 30.42" 70° 15' 17.33"	TP1026	152° 18' 42"	332° 18' 43"	25.41
TP1026	46° 06' 29.69" 70° 15' 16.78"	TP1027	132° 11' 51"	312° 11' 52"	21.91
TP1027	46° 06' 29.21" 70° 15' 16.02"	TP1028	150° 45' 02"	330° 45' 03"	12.21
		RMC81	201° 31' 51"	21° 31' 46"	398.79
		RMS79-43	22° 05' 31"	202° 05' 33"	191.21
RMC81	46° 06' 17.195" 70° 15' 22.838"	TP1027	21° 31' 46"	201° 31' 51"	398.79
TP1028	46° 06' 28.86" 70° 15' 15.75"	TP1029	169° 30' 27"	349° 30' 27"	18.02
TP1029	46° 06' 28.29" 70° 15' 15.59"	TP1030	140° 01' 35"	320° 01' 36"	16.91

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
TP1030	46° 06' 27.87" 70° 15' 15.09"	TP1031	126° 01' 48"	306° 01' 49"	54.31
TP1031	46° 06' 26.84" 70° 15' 13.04"	TP1032	59° 09' 53"	239° 09' 54"	46.69
TP1032	46° 06' 27.61" 70° 15' 11.18"	TP1033	109° 59' 52"	289° 59' 53"	25.40
TP1033	46° 06' 27.33" 70° 15' 10.06"	TP1034	152° 50' 57"	332° 50' 57"	16.81
TP1034	46° 06' 26.85" 70° 15' 09.71"	TP1035	202° 20' 55"	22° 20' 54"	29.82
TP1035	46° 06' 25.95" 70° 15' 10.23"	TP1036	160° 28' 51"	340° 28' 52"	32.51
TP1036	46° 06' 24.96" 70° 15' 09.73"	TP1037	191° 54' 21"	11° 54' 21"	8.62
TP1037	46° 06' 24.69" 70° 15' 09.81"	TP1038	148° 04' 31"	328° 04' 32"	14.91
TP1038	46° 06' 24.28" 70° 15' 09.44"	TP1039	138° 05' 20"	318° 05' 21"	32.81
TP1039	46° 06' 23.49" 70° 15' 08.42"	TP1040	188° 42' 22"	8° 42' 21"	41.82
TP1040	46° 06' 22.15" 70° 15' 08.72"	TP1041	170° 14' 17"	350° 14' 17"	97.42
TP1041	46° 06' 19.04" 70° 15' 07.95"	TP1042	201° 02' 16"	21° 02' 15"	138.62
TP1042	46° 06' 14.85" 70° 15' 10.27"	TP1043	175° 57' 11"	355° 57' 12"	283.63
TP1043	46° 06' 05.69" 70° 15' 09.34"	TP1044	193° 58' 10"	13° 58' 09"	167.22
TP1044	46° 06' 00.43" 70° 15' 11.21"	TP1045	245° 58' 05"	65° 58' 00"	155.11
TP1045	46° 05' 58.38" 70° 15' 17.81"	RM314	272° 29' 59"	92° 29' 53"	173.71

## SPECIAL REPORT 9 - SW BRANCH OF THE ST. JOHN RIVER NAD83 EPOCH 2010.0

Province: Québec			State: Maine		
Station	Latitude and Longitude	To Station	Azimuth (From north)	Back Azimuth (From north)	Distance (meters)
MON314	46° 05' 58.629" 70° 15' 25.890"	TP1045	92° 29' 53"	272° 29' 59"	173.71