



Supplement of

Application and evaluation of the dendroclimatic process-based model MAIDEN during the last century in Canada and Europe

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S1: Supplementary materials

Parameter	Meaning	Units
exp_site	Indicates if the species at the	no unit (1 or 2)
	site is a deciduous (1) or ev-	
	ergreen (2) tree	
base_elev_cst	Station elevation	meters
base_isoh_cst	Station isohyet	centimeters
site_lat_cst	Site latitude	degrees
site_elev_cst	Site elevation	meters
site_slp_cst	Site slope	degrees
site_asp_cst	Site aspect	degrees
site_isoh_cst	Site isohyet	centimeters
site_ehoriz_cst	Site East slope	degrees
site_whoriz_cst	Site West slope	degrees
thick1-2-3 or 4	Soil layer thickness	meters
finefrac1-2-3 or 4	% of fine roots in the soil	Coeff. between 0-1
	layer	
clay1-2-3 or 4	% of clay in the soil layer	%
sand1-2-3 or 4	% of sand in the soil layer	%

Table S1. Main constants linked to site conditions and control parameters in the MAIDEN model.

Table S2. GHCN (Table 2) stations used for daily climate data at the European sites (Fig. 2).

Site	Time period	Station name	Station lat/lon	Station elevation
FINL	1900-1944/1950-2000	Sodankyla	67.37N26.65E	179m
EALP	1950-2000	Zugspitze	47.42N10.99E	2964m
	1910-1949	Innsbruck	47.27N11.4E	577m
SWIT179	1910-2000	Saentis	47.25N9.35E	2502m

	Process		Parameter	Units
Photosynthesis	Temperature dependence of photosyn- thesis	Asymptote	V_{max}	μ mol C.m ⁻² of leaves . s ⁻¹
		Slope	V_b	$^{\circ}C^{-1}$
		Inflection point	V_{ip}	°C
	Water stress dependence of stomatal	Slope	soil _b	mm^{-1}
	conductance	Inflection point	soil:-	mm
	Acclimation to temperature of photo-	Needed days	au	days
	synthesis			-
Carbon allocation	Definition of canopy maximum amount	Slope of temperature depen-	CanopyT	$^{\circ}C^{-1}$
	of carbon	dence		
		Slope of precipitation depen-	CanopyP	mm^{-1}
		dence		
	Start of the growing season (budburst)	GDD sum threshold	GDD_1	°C
		Day before the later start	vegphase23	day of the year
		Acclimation to changing GDD sums	day23_flex	years
	Daily available carbon from buds reservoir	Storage C used by the tree	C_{bud}	$g C.m^{-2} \mbox{ of stand }. $$ day^{-1}$$
	Partition of carbon to different tree	Portion allocated to canopy and	h3	fraction (0-1)
	compartments during growing season	roots		
	Partition of carbon to different tree	Inflection point of the tempera-	st_{4temp}	°C
	compartments during summer period	ture dependence		
	Photoperiod for transition from summer	Photoperiod threshold	photoper	hours
	to fall season			
	Carbon losses from the canopy	Yearly canopy turnover rate	PercentFall	fraction (0-1)
		Approximate day of the year	OutMax	day of the year
		with maximum losses		
		Index proportional to the length	OutLength	NA
		of the period with losses		

Table S3. Calibrated parameters of the MAIDEN model (Gennaretti et al., 2017).

Table S4. MAIDEN calibrated parameters values (Table S3) over the 1950-2000 period for the twenty-one Eastern Canadian taiga sites, five aggregated Eastern Canadian taiga sites (NRCAN (5') climatic dataset, Fig. 1, Table 2) and three European sites (GHCN station data, Fig. 2, Table 2).

| soilip tau | 4 236.251 10.986 | 0 318.724 6.964 | | 3 260.840 6.672 | 3 260.840 6.672
8 300.386 13.380 | 3 260.840 6.672
8 300.386 13.380
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Vip soilb	20.301 -0.014

 | 10.839 -0.023 14.804 -0.018 13.767 -0.013 16.832 -0.016 19.069 -0.014 20.993 -0.023 20.903 -0.018 19.066 -0.018 19.067 -0.018 19.066 -0.018 19.025 -0.018 19.026 -0.018 19.026 -0.018 19.026 -0.021 19.026 -0.021 19.026 -0.021 19.026 -0.021 19.026 -0.021 | (0.839) -0.023
(4.804) -0.018
(4.804) -0.018
(6.832) -0.016
(6.832) -0.016
(6.832) -0.016
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(10.069) -0.023
(12.975) -0.0123
(17.533) -0.0073
(17.533) -0.0073
(17. | (0.839) -0.023
(4.804) -0.018
(5.832) -0.016
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(5.935) -0.012
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(5.932) -0.012
(5.093) -0.023
(5.010) -0.023
(17.533) -0.0073
(17.533) -0.0073
(17.533
 | (0.839) -0.023
(14.804) -0.018
(13.3767) -0.013
(16.832) -0.016
(16.832) -0.016
(16.832) -0.014
(10.066) -0.012
(10.056) -0.021
(12.972) -0.015
(12.972) -0.015
(17.533) -0.007
(17.533) -0.007
(15.059) -0.010
(15.059) -0.01 | (0.839) -0.023
(1.83767) -0.018
(1.83767) -0.013
(1.8372) -0.016
(1.6.832) -0.016
(1.9.0569) -0.014
(1.9.056) -0.012
(1.9.056) -0.012
(1.9.753) -0.0073
(1.7.533) -0.0073
(1.7.533) -0.0073
(1.7.533) -0.0073
(1.7.533) -0.0010
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(1.7 | 10.839 -0.023
1.4.804 -0.018
1.3.767 -0.016
1.9.069 -0.016
19.069 -0.014
19.056 -0.018
19.056 -0.021
19.056 -0.021
12.972 -0.015
19.056 -0.023
19.056 -0.023
17.533 -0.007
14.738 -0.023
14.738 -0.023
19.736 -0.012
19.736 -0.012
19.756 -0.0120
19.756 -0.0120
19.756 -0.0 | (0.839) -0.023
(1.4.804) -0.018
(1.3.767) -0.013
(1.3.767) -0.016
(1.8.822) -0.016
(1.9.068) -0.014
(1.9.056) -0.021
(1.9.056) -0.021
(1.5.33) -0.0015
(1.5.333) -0.0015
(1.5.333) -0.0012
(1.5.333) -0.0012
(1.5.332) -0.0012
(1.5. | 10.839 -0.023
1.3.767 -0.018
1.3.767 -0.013
1.3.767 -0.016
1.0.0832 -0.016
19.069 -0.014
19.056 -0.012
19.056 -0.021
12.972 -0.015
17.533 -0.007
17.733 -0.007
17.733 -0.002
15.059 -0.010
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15.059 -0.010
15.059 -0.010
15.553 -0.0233
11.151 -0.023
20.358 -0.012
20.358 -0.012
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128.89 13.571 128.89 13.571 128.89 13.571 84.07: 13.571 84.07: 13.571 84.07: 13.572 85.07: 13.546 31.66: 13.547 30.57: 13.914 67.56 13.325 72.76: 13.332 7791. 13.333 2791. 13.333 2791. 13.3353 2791. 13.3454 96.42: 13.3553 2791. 13.354 96.42: 13.355 41.67' 13.354 96.75: 13.355 41.67' 13.354 96.710 13.355</td><td> [3,348 [3,128 [1,1289 [1,1462 [2,300 [3,326 [1,3,57] [2,336 [1,3,57] [1,3,57] [1,3,57] [1,3,56] [1,3,946 [1,3,946 [1,3,946 [1,3,946 [1,3,946 [1,3,946 [1,3,53] [1,2,54] [1,3,55] [1,3,56] <li< td=""></li<></td></l<></td></li<> | [3,348 20,48; [3,128 61,03; [1,146] [1,2300 28;35] [1,256 123,68 [13,767 128,89 [13,767 128,89 [13,571 84,07] [13,779 26,57] [13,779 26,57] | 13.348 20.485
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Table S5. MAIDEN calibrated parameters values (Table S3) over the 1950-2000 period for the twenty-one Eastern Canadian taiga sites and five aggregated Eastern Canadian taiga sites (GMF (1°) climatic dataset, Fig. 1, Table 2).

1	nau	5.220	3.752	10.576	4.432	18.014	10.72	6.647	11.640	1.954	4.721	12.949	13.111	2.310	5.109	5.336	4.252	10.527	1.033	5.423	3.025	6.833	4.200	1.951	2.714	12.917	4.833
- Here	dillos	242.325	368.897	305.712	297.743	206.164	143.943	174.770	381.838	394.208	325.118	336.875	222.973	151.966	273.032	143.028	118.175	246.196	268.996	395.291	205.932	212.170	376.197	311.371	290.608	388.244	225.312
415.00	SOLID	-00.00	-0.019	-0.013	-0.011	-0.020	-0.023	-00.00	-0.018	-0.020	-0.024	-0.012	-0.022	-0.011	-0.011	-0.025	-0.005	-0.014	-0.019	-0.025	-0.024	-0.010	-0.009	-0.014	-0.009	-00.00	-0.013
TE-	dīv	11.010	13.440	11.749	10.952	12.854	20.228	13.153	18.917	11.551	22.824	11.807	13.151	17.042	10.661	20.427	12.874	29.684	17.125	23.261	11.145	14.189	12.343	11.637	11.530	11.303	10.300
5	a	-0.133	-0.121	-0.188	-0.176	-0.125	-0.169	-0.273	-0.280	-0.230	-0.103	-0.121	-0.235	-0.104	-0.140	-0.203	-0.118	-0.106	-0.147	-0.101	-0.221	-0.185	-0.117	-0.230	-0.124	-0.103	-0.103
	VIIIA	13.314	65.571	29.047	18.125	16.369	42.324	24.049	137.905	107.353	108.395	16.916	21.290	18.910	13.764	53.737	13.865	70.906	38.683	112.519	17.253	19.948	42.352	45.482	26.760	44.734	33.213
	biotoper	13.737	13.139	12.424	13.411	13.201	13.644	12.858	12.575	13.618	13.600	13.400	12.947	13.477	12.253	13.185	13.408	12.041	12.224	13.874	12.298	13.603	12.393	12.828	13.472	13.680	13.106
	stetucinp	99.616	26.895	15.850	1.178	11.819	30.447	22.584	27.563	78.100	61.826	2.016	13.350	11.616	10.550	34.838	20.228	8.190	14.596	72.129	12.111	4.714	12.603	16.444	3.757	8.931	9.865
5	3	0.983	0.780	0.335	0.535	0.407	060.0	0.373	0.105	0.431	0.905	0.589	0.292	0.360	0.502	0.073	0.577	0.480	0.503	0.869	0.701	0.571	0.469	0.382	0.568	0.338	0.260
T-P	CDUG	1.200	1.895	1.771	1.035	1.114	1.336	1.678	1.087	1.193	1.974	1.102	1.223	1.181	1.037	1.861	1.150	1.169	1.120	1.644	1.588	1.080	1.818	2.095	1.446	1.364	2.314
teres pro-	Outrengtu	10.825	9.027	10.788	8.269	9.020	11.002	11.952	9.475	5.886	11.061	9.334	10.146	8.873	9.601	11.805	4.515	10.591	7.810	8.099	11.565	717.7	6.307	10.528	6:059	8.817	10.232
WO	OULIMAX	189.983	168.635	167.168	179.399	169.686	184.851	164.790	185.114	153.534	174.207	157.001	171.613	155.831	151.777	177.032	163.603	178.394	175.840	176.400	172.579	167.538	154.684	182.211	167.530	175.502	182.743
December 1	Fercentral	0.134	0.131	0.113	0.109	0.146	0.091	0.134	0.144	0.142	0.129	0.095	0.093	0.110	0.128	0.098	0.104	0.114	0.133	0.140	0.133	0.119	0.105	0.094	0.120	0.120	0.098
Ę	Canopy 1	8.957	19.840	6.101	7.377	8.733	15.853	7.509	8.959	12.005	14.503	9.018	0.171	5.958	17.498	14.564	4.609	12.897	12.766	13.029	7.811	17.848	19.250	8.277	10.191	9.470	1.462
	canopyr	2.863	0.264	11.234	16.189	17.281	2.790	13.505	15.928	18.883	1.016	7.682	10.268	6.371	1.271	4.193	18.894	13.153	1.824	7.807	18.033	9.448	10.231	6.531	0.007	0.403	9.850
	uay_22_uay	1.636	5.627	6.628	7.569	5.596	7.052	2.741	3.273	1.943	8.400	2.065	2.949	6.757	3.743	4.224	7.905	8.953	1.391	3.203	8.934	9.452	2.620	3.861	4.740	3.967	2.067
<u> </u>	vegpilase 25	152.558	154.658	169.826	172.639	164.009	173.692	166.823	170.101	161.229	152.898	154.396	174.618	167.438	152.520	180.031	172.242	159.826	154.326	157.946	169.276	177.619	178.574	161.315	180.587	180.242	154.640
	Inn	75.663	19.614	49.391	58.119	26.325	77.772	30.784	70.119	85.430	24.320	81.055	14.275	32.838	91.379	95.642	116.601	58.951	34.123	61.982	24.015	68.680	20.805	47.029	39.429	29.498	66.488
	alle	QC_taiga	WCORPL	WNFLR1	WL42	WCORILE	WPOOL	WNIT	WCANE	WCEA	WDAIR	WHER	IHHW	IMHM	WHM2	WL32	WLECA	WNFLIV	WROZM	WROZX	WRT485	HHLW	WCOR	WNFL	WDA1R_WTHH	WROZ	МН
	Dataset	GMF	GMF	GMF	GMF	GMF	GMF	GMF	GMF	GMF	GMF	GMF	GMF	GMF	GMF	GMF	GMF	GMF	GMF	GMF	GMF	GMF	GMF	GMF	GMF	GMF	GMF

Table S6. MAIDEN calibrated parameters values (Table S3) over the 1950-2000 period for the twenty-one Eastern Canadian taiga sites and five aggregated Eastern Canadian taiga sites (20CRv2c corr. (2°) climatic dataset, Fig. 1, Table 2).

tau	11.427	17.015	2.384	19.205	6.040	4.687	9.147	13.742	5.418	6.344	14.469	1.324	3.418	7.595	1.660	12.315	9.904	18.963	15.718	3.936	3.259	10.996	3.658	3.795	15.062	1.022
soilip	142.220	214.488	287.940	357.574	365.462	182.063	390.727	236.149	382.036	344.532	314.001	257.149	233.181	167.282	145.674	313.818	171.664	153.426	197.314	366.987	143.590	397.049	211.665	382.916	397.978	328.383
soilb	-0.006	-0.010	-0.023	-0.022	-0.025	-0.017	-0.024	-0.019	-0.012	-0.023	-0.021	-0.022	-0.012	-0.023	-0.014	-0.015	-0.012	-0.017	-0.022	-0.005	-0.010	-0.019	-0.016	-0.019	-0.021	-0.006
Vip	12.668	21.452	15.216	11.358	10.832	29.083	16.502	16.932	23.997	21.727	10.067	24.270	29.038	16.353	16.806	13.036	20.251	11.943	12.107	27.347	16.102	16.294	17.774	13.938	14.736	22.057
۷b	-0.102	-0.109	-0.122	-0.113	-0.296	-0.130	-0.269	-0.289	-0.127	-0.103	-0.113	-0.100	-0.154	-0.111	-0.269	-0.212	-0.127	-0.103	-0.129	-0.127	-0.136	-0.115	-0.116	-0.127	-0.107	-0.105
Vmax	27.746	32.381	65.388	30.286	53.561	78.202	134.551	51.995	58.210	104.597	15.438	35.179	124.366	19.156	42.173	22.119	30.784	15.280	15.439	67.786	21.961	102.747	39.707	72.407	89.821	76.144
photoper	13.635	12.581	13.299	13.363	13.050	13.383	13.733	12.379	13.536	13.440	13.385	13.163	12.489	12.197	13.483	12.033	12.209	12.796	13.289	12.111	12.208	13.968	12.954	12.855	12.374	13.788
st4temp	90.354	87.342	58.798	4.132	85.955	25.553	35.933	90.511	75.341	1.507	61.706	16.712	98.363	34.803	58.663	49.618	57.226	70.833	68.989	3.755	7.378	14.179	63.865	25.445	61.332	18.052
h3	966.0	0.129	0.192	0.954	0.930	0.120	0.427	0.994	0.389	0.659	0.195	0.299	0.047	0.274	0.053	0.010	0.137	0.154	0.162	0.318	0.534	0.263	0.078	0.169	0.247	0.067
Cbud	1.342	1.700	1.877	1.024	1.850	1.244	2.039	2.186	1.348	1.481	1.785	1.528	1.661	1.318	1.766	1.013	1.515	1.358	1.305	1.024	1.182	2.017	2.304	1.586	1.837	2.771
OutLength	7.445	11.872	5.851	11.168	9.126	11.974	11.449	11.268	4.922	10.006	10.553	10.997	11.409	7.855	10.907	7.751	8.712	11.196	8.972	11.174	8.826	7.560	11.352	10.731	8.737	11.733
OutMax	171.699	167.320	162.590	167.099	195.443	198.678	151.973	164.636	169.741	161.868	177.202	184.458	174.207	165.444	184.089	199.300	171.170	169.451	169.016	181.631	170.923	157.886	155.527	168.798	151.863	184.843
PercentFall	0.147	0.111	0.092	0.093	0.129	0.097	0.136	0.099	0.116	0.140	0.091	0.113	0.097	0.105	0.092	0.109	0.129	0.101	0.100	0.121	0.139	0.114	0.127	0.110	0.091	0.104
CanopyT	16.280	15.686	8.093	17.155	4.433	17.606	9.017	8.310	15.923	7.740	16.531	5.373	119.911	12.045	15.111	8.273	9.648	13.699	11.490	13.364	9.060	1.242	12.450	15.136	17.295	8.057
CanopyP	0.222	11.186	2.768	13.527	0.700	14.904	12.806	10.507	0.210	5.556	17.934	14.260	15.537	0.043	5.265	11.212	1.668	2.971	6.717	3.189	0.289	16.008	5.208	7.291	19.948	2.114
day 23_flex	8.744	7.342	6.191	9.434	6.890	8.072	6.150	9.756	7.441	3.691	2.476	2.490	2.332	4.846	5.965	5.626	6.997	2.513	1.475	9.331	6.643	3.574	4.922	8.912	3.238	1.176
vegphase23	152.798	167.436	174.734	178.089	174.353	180.716	176.941	167.604	178.414	160.431	166.470	162.196	165.179	170.088	178.676	180.902	179.836	164.546	158.783	173.485	171.447	179.615	164.646	175.202	173.178	165.796
GDD1	113.370	67.994	78.261	29.260	12.599	112.458	19.219	78.482	81.167	104.308	63.043	89.238	89.658	110.167	116.547	90.354	40.318	63.805	11.256	102.122	48.844	56.468	20.771	59.728	19.524	119.083
Site	QC_taiga	WCORPL	WNFLR1	WL42	WCORILE	WPOOL	WNIT	WCANE	WCEA	WDAIR	WHER	NHH	WHM1	WHM2	WL32	WLECA	WNFLIV	WROZM	WROZX	WRT485	WTHH	WCOR	WNFL	WDA1R_WTHH	WROZ	HM
Dataset	20CRv2c corr.																									

Table S7. MAIDEN calibrated parameters values (Table S3) over the 1950-2000 period for the twenty-one Eastern Canadian taiga sites and five aggregated Eastern Canadian taiga sites (CRv2c (2°) climatic dataset, Fig. 1, Table 2).

tau	2.846	19.391	2.293	12.055	11.180	12.122	18.718	15.867	9.664	1.489	15.885	3.248	2.558	1.643	1.233	1.122	2.186	3.024	19.587	1.085	6.676	16.816	14.260	19.135		1.771
soilip	397.024	374.728	369.090	248.490	397.308	181.127	130.537	212.148	358.779	348.379	202.653	211.300	287.187	169.127	353.621	179.091	338.566	306.374	183.486	238.127	127.995	357.625	292.632	372.220	15.502	118.539
soilb	-0.008	-0.018	-0.006	-0.022	-0.017	-0.015	-0.010	-0.018	-0.020	-0.022	-0.017	-0.020	-0.008	-0.011	-0.022	-0.023	-0.021	-0.006	-0.013	-0.014	-0.006	-0.019	-0.006	-0.015	394.353	-0.005
Vip	13.200	20.246	118.911	11.375	14.843	12.698	10.872	15.154	10.342	17.687	13.173	21.284	16.652	18.507	14.399	18.973	11.029	10.790	26.302	28.423	25.134	13.926	15.964	15.932	-00.00	17.880
Vb	-0.157	-0.116	-0.135	-0.193	-0.152	-0.206	-0.275	-0.191	-0.270	-0.112	-0.101	-0.139	-0.181	-0.129	-0.295	-0.132	-0.263	-0.115	-0.106	-0.159	-0.106	-0.145	-0.103	-0.109	10.222	-0.106
Vmax	22.246	103.760	39.007	21.043	68.195	20.150	16.621	24.946	19.907	84.785	16.450	38.614	28.720	29.252	110.276	27.111	57.088	19.213	47.811	126.788	41.220	119.892	36.924	100.050	-0.122	57.902
photoper	13.485	13.618	13.892	12.869	12.627	12.915	13.769	13.234	12.675	12.506	12.896	13.287	13.369	12.473	13.711	12.352	12.496	12.166	13.551	12.543	13.618	13.024	13.358	12.911	12.543	13.202
st4temp	95.218	36.677	84.442	89.359	35.086	38.952	26.871	55.147	85.997	81.989	54.276	17.661	18.974	59.636	87.455	37.580	85.854	40.019	93.212	19.026	63.045	10.341	57.458	14.910	53.164	70.550
h3	0.947	0.026	0.099	0.471	0.057	0.119	0.321	1.000	0.250	0.243	0.310	0.309	0.164	0.389	0.182	0.302	0.293	0.291	0.147	0.134	0.700	0.433	0.064	0.301	0.214	0.032
Cbud	2.868	1.043	1.385	1.179	1.061	1.112	1.573	1.301	1.062	1.092	1.427	1.159	1.214	1.263	1.120	1.244	1.072	1.808	1.205	1.171	1.393	1.682	1.867	1.675	1.722	2.264
OutLength	7.128	5.206	11.314	10.705	11.464	11.563	11.654	5.377	7.396	9.474	11.782	10.913	11.798	11.175	11.614	10.267	7.783	10.533	11.551	11.226	11.858	10.764	11.517	11.917	11.717	11.841
OutMax	161.784	187.010	179.207	196.304	167.905	181.672	170.592	190.972	168.800	170.377	180.100	189.149	193.059	194.261	170.542	186.546	158.549	166.930	174.838	185.015	195.802	190.627	180.427	176.546	186.358	187.697
PercentFall	0.142	0.099	0.111	0.117	0.099	0.097	0.135	0.095	0.104	0.108	0.097	0.119	0.091	0.150	0.122	0.096	0.129	0.094	0.125	0.098	0.117	0.110	0.102	0.101	0.117	0.092
CanopyT	4.436	19.045	9.042	15.015	5.971	14.609	19.960	8.489	4.543	13.155	17.999	17.775	4.900	1.158	15.526	17.296	11.663	12.219	10.024	19.660	8.149	10.056	9.513	19.844	5.040	8.474
CanopyP	3.806	2.826	13.416	18.021	7.926	12.717	0.065	9.262	3.271	11.839	8.967	12.582	0.824	6.623	6.839	17.519	16.285	14.963	4.668	11.590	13.906	8.555	18.413	0.986	0.332	17.466
day 23_flex	9.429	7.142	1.718	3.598	6.015	5.215	5.523	6.518	2.874	5.003	8.234	2.370	8.305	8.727	2.706	3.438	1.076	1.265	2.377	1.519	7.085	3.771	2.122	2.599	7.145	6.833
vegphase23	162.168	158.330	167.038	161.752	154.897	163.868	174.983	165.327	178.818	175.164	154.795	170.285	172.640	170.119	176.894	174.227	173.450	168.105	167.104	171.036	154.621	169.235	173.171	156.106	152.814	168.575
GDDI	75.720	44.431	75.809	83.970	101.474	107.070	46.340	117.593	16.999	44.501	55.843	115.526	66.111	116.989	15.396	100.826	79.176	83.289	24.634	103.114	45.979	89.792	81.661	118.615	81.338	97.027
Site	QC_taiga	WCORPL	WNFLR1	WL42	WCORILE	WPOOL	WNIT	WCANE	WCEA	WDAIR	WHER	WHH1	WHM1	WHM2	WL32	WLECA	WNFLIV	WROZM	WROZX	WRT485	WTHH	WCOR	WNFL	WDA1R_WTHH	WROZ	HM
Dataset	20CRv2c	20CRv2c	20CRv2c	20CRv2c	20CRv2c	20CRv2c	20CRv2c	20CRv2c	20CRv2c	20CRv2c	20CRv2c	20CRv2c	20CRv2c	20CRv2c	20CRv2c	20CRv2c	20CRv2c	20CRv2c	20CRv2c	20CRv2c	20CRv2c	20CRv2c	20CRv2c	20CRv2c	20CRv2c	20CRv2c

Dataset	Sites	T1	T2	M1	M2
NRCAN	QC_taiga	2.430	15.727	0.053	0.429
NRCAN	WCORPL	4.612	12.497	0.035	0.275
NRCAN	WNFLR1	4.914	11.493	0.033	0.357
NRCAN	WL42	7.259	11.658	0.070	0.457
NRCAN	WCORILE	3.058	12.002	0.032	0.194
NRCAN	WPOOL	7.899	11.514	0.066	0.194
NRCAN	WNIT	7.876	12.118	0.016	0.230
NRCAN	WCANE	7.264	11.557	0.077	0.171
NRCAN	WCEA	5.745	12.363	0.074	0.443
NRCAN	WDA1R	1.316	14.399	0.053	0.183
NRCAN	WHER	2.795	19.393	0.058	0.258
NRCAN	WHH1	7.490	11.677	0.007	0.190
NRCAN	WHM1	7.660	12.939	0.017	0.220
NRCAN	WHM2	8.843	12.165	0.040	0.168
NRCAN	WL32	7.642	13.785	0.013	0.231
NRCAN	WLECA	8.389	12.148	0.032	0.169
NRCAN	WNFL1V	3.575	11.542	0.086	0.465
NRCAN	WROZM	1.726	11.656	0.027	0.153
NRCAN	WROZX	6.170	11.382	0.070	0.473
NRCAN	WRT485	2.014	17.012	0.001	0.158
NRCAN	WTHH	3.996	13.065	0.020	0.119
GHCN	EALP	8.242	22.117	0.058	0.277
GHCN	SWIT179	1.480	21.912	0.052	0.294
GHCN	FINL045	2.517	19.159	0.007	0.120

Table S8. VS-Lite calibrated parameters values (Sect. 2.3.2) over the 1950-2000 period for the twenty-one Eastern Canadian taiga sites(NRCAN (5') climatic dataset, Fig. 1a, Table 2) and three European sites (GHCN station data, Fig. 2, Table 2).

Table S9. VS-Lite calibrated parameters values (Sect. 2.3.2) over the 1950-2000 period for the twenty-one Eastern Canadian taiga sites (GMF (1°) climatic dataset, Fig. 1a, Table 2).

Sites	T1	T2	M1	M2
QC_taiga	7.934	20.259	0.036	0.210
WCORPL	2.574	12.366	0.027	0.233
WNFLR1	3.124	10.795	0.018	0.404
WL42	6.973	10.861	0.036	0.378
WCORILE	2.585	12.279	0.025	0.132
WPOOL	8.036	11.556	0.042	0.266
WNIT	8.193	13.365	0.028	0.219
WCANE	7.517	12.862	0.089	0.482
WCEA	6.072	11.476	0.080	0.469
WDA1R	1.613	22.429	0.003	0.318
WHER	4.808	12.558	0.040	0.439
WHH1	7.303	11.754	0.061	0.259
WHM1	2.750	13.427	0.009	0.223
WHM2	5.479	12.363	0.023	0.185
WL32	8.300	15.367	0.007	0.355
WLECA	7.638	11.770	0.017	0.464
WNFL1V	3.241	11.483	0.080	0.468
WROZM	1.867	15.193	0.060	0.386
WROZX	1.470	14.070	0.055	0.154
WRT485	1.141	17.046	0.075	0.386
WTHH	3.033	13.675	0.012	0.138
	Sites QC_taiga WCORPL WNFLR1 WL42 WCORILE WPOOL WNIT WCANE WCEA WDA1R WHER WHH1 WHM1 WHM1 WHM2 WL32 WLECA WNFL1V WROZM WROZM WROZX WRT485 WTHH	Sites T1 QC_taiga 7.934 WCORPL 2.574 WNFLR1 3.124 WL42 6.973 WCORILE 2.585 WPOOL 8.036 WNIT 8.193 WCANE 7.517 WCEA 6.072 WDA1R 1.613 WHER 4.808 WHH1 7.303 WHM1 2.750 WHA2 5.479 WL32 8.300 WLECA 7.638 WNFL1V 3.241 WROZM 1.867 WROZM 1.470 WROZX 1.411 WRT485 1.141	Sites T1 T2 QC_taiga 7.934 20.259 WCORPL 2.574 12.366 WNFLR1 3.124 10.795 WL42 6.973 10.861 WCORILE 2.585 12.279 WPOOL 8.036 11.556 WNIT 8.193 13.365 WCANE 7.517 12.862 WCANE 7.517 12.862 WCANE 6.072 11.476 WDA1R 1.613 22.429 WHER 4.808 12.558 WHA1 2.750 13.427 WHA2 5.479 12.363 WHM1 2.750 13.427 WHM2 5.479 12.363 WL32 8.300 15.367 WLECA 7.638 11.770 WNFL1V 3.241 11.483 WROZM 1.867 15.193 WROZM 1.867 15.193 WROZM 1.470 14.070	SitesT1T2M1QC_taiga7.93420.2590.036WCORPL2.57412.3660.027WNFLR13.12410.7950.018WL426.97310.8610.036WCORILE2.58512.2790.025WPOOL8.03611.5560.042WNIT8.19313.3650.028WCANE7.51712.8620.080WCEA6.07211.4760.080WDA1R1.61322.4290.003WHER4.80812.5580.042WHA12.75013.4270.001WHM12.75013.4270.003WHA25.47912.3630.023WL328.30015.3670.007WLECA7.63811.7700.017WNFL1V3.24111.4830.080WROZM1.86715.1930.060WROZX1.47014.0700.055WRT4851.14117.0460.075

Table S10. VS-Lite calibrated parameters values (Sect. 2.3.2) over the 1950-2000 period for the twenty-one Eastern Canadian taiga sites (20CRv2c corr. (2°) climatic dataset, Fig. 1a, Table 2).

Dataset	Sites	T1	T2	M1	M2
20CRv2c corr.	QC_taiga	7.000	14.214	0.094	0.436
20CRv2c corr.	WCORPL	1.996	11.968	0.043	0.276
20CRv2c corr.	WNFLR1	2.443	19.159	0.011	0.246
20CRv2c corr.	WL42	7.672	11.259	0.080	0.447
20CRv2c corr.	WCORILE	3.102	12.325	0.056	0.254
20CRv2c corr.	WPOOL	6.812	10.631	0.005	0.221
20CRv2c corr.	WNIT	8.347	12.275	0.055	0.201
20CRv2c corr.	WCANE	8.277	12.194	0.017	0.200
20CRv2c corr.	WCEA	2.681	12.493	0.043	0.410
20CRv2c corr.	WDA1R	3.382	18.603	0.013	0.295
20CRv2c corr.	WHER	4.768	12.783	0.027	0.196
20CRv2c corr.	WHH1	7.464	11.322	0.058	0.116
20CRv2c corr.	WHM1	8.472	15.277	0.082	0.258
20CRv2c corr.	WHM2	8.383	18.934	0.053	0.218
20CRv2c corr.	WL32	8.446	14.245	0.011	0.108
20CRv2c corr.	WLECA	7.556	13.389	0.023	0.446
20CRv2c corr.	WNFL1V	3.803	15.342	0.011	0.168
20CRv2c corr.	WROZM	8.262	14.324	0.001	0.256
20CRv2c corr.	WROZX	8.633	14.984	0.017	0.262
20CRv2c corr.	WRT485	8.381	15.478	0.016	0.189
20CRv2c corr.	WTHH	3.802	15.778	0.033	0.105

Table S11. VS-Lite calibrated parameters values (Sect. 2.3.2) over the 1950-2000 period for the twenty-one Eastern Canadian taiga sites (CRv2c (2°) climatic dataset, Fig. 1a, Table 2).

Dataset	Sites	T1	T2	M1	M2
20CRv2c	QC_taiga	8.378	13.382	0.036	0.319
20CRv2c	WCORPL	7.532	18.410	0.036	0.270
20CRv2c	WNFLR1	8.399	19.795	0.014	0.110
20CRv2c	WL42	6.012	10.591	0.031	0.314
20CRv2c	WCORILE	7.629	10.677	0.047	0.262
20CRv2c	WPOOL	7.219	10.537	0.076	0.281
20CRv2c	WNIT	7.990	12.538	0.035	0.267
20CRv2c	WCANE	7.118	10.445	0.015	0.279
20CRv2c	WCEA	5.313	15.658	0.019	0.238
20CRv2c	WDA1R	8.167	19.349	0.088	0.194
20CRv2c	WHER	3.440	17.681	0.062	0.366
20CRv2c	WHH1	6.951	19.205	0.051	0.366
20CRv2c	WHM1	7.395	22.139	0.031	0.266
20CRv2c	WHM2	7.551	18.823	0.024	0.212
20CRv2c	WL32	8.308	14.045	0.008	0.234
20CRv2c	WLECA	6.798	14.509	0.050	0.391
20CRv2c	WNFL1V	8.604	15.787	0.042	0.153
20CRv2c	WROZM	8.131	12.693	0.060	0.133
20CRv2c	WROZX	8.645	16.846	0.035	0.205
20CRv2c	WRT485	7.555	20.034	0.019	0.210
20CRv2c	WTHH	6.906	20.691	0.014	0.240

Carbon allocation parameters for QC_taiga



Figure S1. Posterior frequency distributions of carbon allocation parameters (Table S3) at QC_taiga site (NRCAN (5') climatic dataset) (Fig. 1a, Table 2) for the 1950-2000 calibration period.



Figure S2. Posterior frequency distributions of photosynthesis parameters (Table S3) at QC_taiga site (NRCAN (5') climatic dataset) (Fig. 1a, Table 2) for the 1950-2000 calibration period.

Carbon allocation parameters for WCORPL



Figure S3. As in Fig. S1 at WCORPL site.

Photosynthesis parameters for WCORPL



Figure S4. As in Fig. S2 at WCORPL site.

Carbon allocation parameters for WCANE



Figure S5. As in Fig. S1 at WCANE site.













Figure S6. As in Fig. S2 at WCANE site.

Carbon allocation parameters for WCEA



Figure S7. As in Fig. S1 at WCEA site.



Figure S8. As in Fig. S2 at WCEA site.

Carbon allocation parameters for WCORILE



Figure S9. As in Fig. S1 at WCORILE site.













Figure S10. As in Fig. S2 at WCORILE site.

Carbon allocation parameters for WDA1R



Figure S11. As in Fig. S1 at WDA1R site.













Figure S12. As in Fig. S2 at WDA1R site.

Carbon allocation parameters for WHER



Figure S13. As in Fig. S1 at WHER site.

Photosynthesis parameters for WHER







Figure S14. As in Fig. S2 at WHER site.

Carbon allocation parameters for WHH1



Figure S15. As in Fig. S1 at WHH1 site.



Figure S16. As in Fig. S2 at WHH1 site.

Carbon allocation parameters for WHM1



Figure S17. As in Fig. S1 at WHM1 site.





Figure S18. As in Fig. S2 at WHM1 site.

Carbon allocation parameters for WHM2



Figure S19. As in Fig. S1 at WHM2 site.



Figure S20. As in Fig. S2 at WHM2 site.

Carbon allocation parameters for WL32



Figure S21. As in Fig. S1 at WL32 site.













Figure S22. As in Fig. S2 at WL32 site.

Carbon allocation parameters for WL42



Figure S23. As in Fig. S1 at WL42 site.



Figure S24. As in Fig. S2 at WL42 site.

Carbon allocation parameters for WLECA



Figure S25. As in Fig. S1 at WLECA site.


Figure S26. As in Fig. S2 at WLECA site.

Carbon allocation parameters for WNFL1V



Figure S27. As in Fig. S1 at WNFL1V site.













Figure S28. As in Fig. S2 at WNFL1V site.

Carbon allocation parameters for WNFLR1



Figure S29. As in Fig. S1 at WNFLR1 site.













Figure S30. As in Fig. S2 at WNFLR1 site.

Carbon allocation parameters for WNIT



Figure S31. As in Fig. S1 at WNIT site.













Figure S32. As in Fig. S2 at WNIT site.

Carbon allocation parameters for WPOOL



Figure S33. As in Fig. S1 at WPOOL site.













Figure S34. As in Fig. S2 at WPOOL site.

Carbon allocation parameters for WROZM



Figure S35. As in Fig. S1 at WROZM site.













Figure S36. As in Fig. S2 at WROZM site.

Carbon allocation parameters for WROZX



Figure S37. As in Fig. S1 at WROZX site.



Figure S38. As in Fig. S2 at WROZX site.

Carbon allocation parameters for WRT485



Figure S39. As in Fig. S1 at WRT485 site.







Figure S40. As in Fig. S2 at WRT485 site.

Carbon allocation parameters for WTHH



Figure S41. As in Fig. S1 at WTHH site.

Photosynthesis parameters for WTHH



0 15 20 25 30 Vip [°C]



-0.005

400

Figure S42. As in Fig. S2 at WTHH site.

Carbon allocation parameters for WROZ



Figure S43. Posterior frequency distributions of carbon allocation parameters (Table S3) at WROZ site (NRCAN (5') climatic dataset) (Fig. 1b, Table 2) for the 1950-2000 calibration period.



Figure S44. Posterior frequency distributions of photosynthesis parameters (Table S3) at WROZ site (NRCAN (5') climatic dataset) (Fig. 1b, Table 2) for the 1950-2000 calibration period.

Carbon allocation parameters for WH



Figure S45. As in Fig. S43 at WH site.













Figure S46. As in Fig. S44 at WH site.

Carbon allocation parameters for WNFL



Figure S47. As in Fig. S43 at WNFL site.





Figure S48. As in Fig. S44 at WNFL site.

Carbon allocation parameters for WCOR



Figure S49. As in Fig. S43 at WCOR site.













Figure S50. As in Fig. S44 at WCOR site.

Carbon allocation parameters for WDA1R_WTHH



Figure S51. As in Fig. S43 at WDA1R_WTHH site.





-0.005

400

Figure S52. As in Fig. S44 at WDA1R_WTHH site.

Carbon allocation parameters for EALP



Figure S53. Posterior frequency distributions of carbon allocation parameters (Table S3) at EALP site (GHCN climate data) (Fig. 2, Table 2) for the 1950-2000 calibration period.



Figure S54. Posterior frequency distributions of photosynthesis parameters (Table S3) at EALP site (GHCN climate data) (Fig. 2, Table 2) for the 1950-2000 calibration period.

Carbon allocation parameters for SWIT179



Figure S55. As in Fig. S53 at SWIT179 site.













Figure S56. As in Fig. S54 at SWIT179 site.

Carbon allocation parameters for FINL045



Figure S57. As in Fig. S53 at FINL045 site.





-0.04 -0.02 soilb [mm-1]





Figure S58. As in Fig. S54 at FINL045 site.



Figure S59. Pearson correlation coefficients between tree growth observations and simulations at the Eastern Canadian taiga sites (Fig. 1) with MAIDEN using NRCAN (5') as climatic inputs (Table 2) for the 1950-2000 period with QC_taiga calibrated parameters from Gennaretti et al. (2017). Individual (left) and aggregated sites (right). The long-term decadal trends have been removed in observations and simulations. White inner circles stand for non-significant correlations (p-value > 0.05). Plain circles stand for significant correlations (p-value < 0.05).



Figure S60. Selected carbon allocation parameters value (Table S3) based on the calibration procedure detailed in Sect. 2.3.1 and 95% confidence interval of each parameter (computed based on all iterations of the third step of the calibration process, with a five iterations thinning and a burn-in period of 3000 iterations, see Sect. 2.3.1) for the five aggregated Eastern Canadian sites (Fig. 1b) and for all climatic datasets (Table 2) over the 1950-2000 time period. Dashed line corresponds to the parameter value at *QC_taiga* site from Gennaretti et al. (2017).



Figure S61. Selected photosynthesis parameters value (Table S3) based on the calibration procedure detailed in Sect. 2.3.1 and 95% confidence interval of each parameter (computed based on all iterations of the second step of the calibration process, with a five iterations thinning and a burn-in period of 1000 iterations, see Sect. 2.3.1) for the five aggregated Eastern Canadian sites (Fig. 1b) and for all climatic datasets (Table 2) over the 1950-2000 time period. Dashed line corresponds to the parameter value at QC_{taiga} site from Gennaretti et al. (2017).


Figure S62. WL42 (Fig. 1a). Ensemble spread of maximum temperature (Tmax sprd), minimum temperature (Tmin sprd) and precipitations (P sprd) for the NOAA-CIRES 20th Century Reanalysis V2c (Table 2) for the 1900-2000 time period.



Figure S63. Pearson correlation coefficients between tree growth observations and simulations at the Eastern Canadian taiga sites (Fig. 1a) with VS-Lite using the different climatic datasets described in Table 2 for the 1950-2000 (a) and 1900-2000 (b) calibration periods. White inner circles stand for non-significant correlations (p-value > 0.05).