

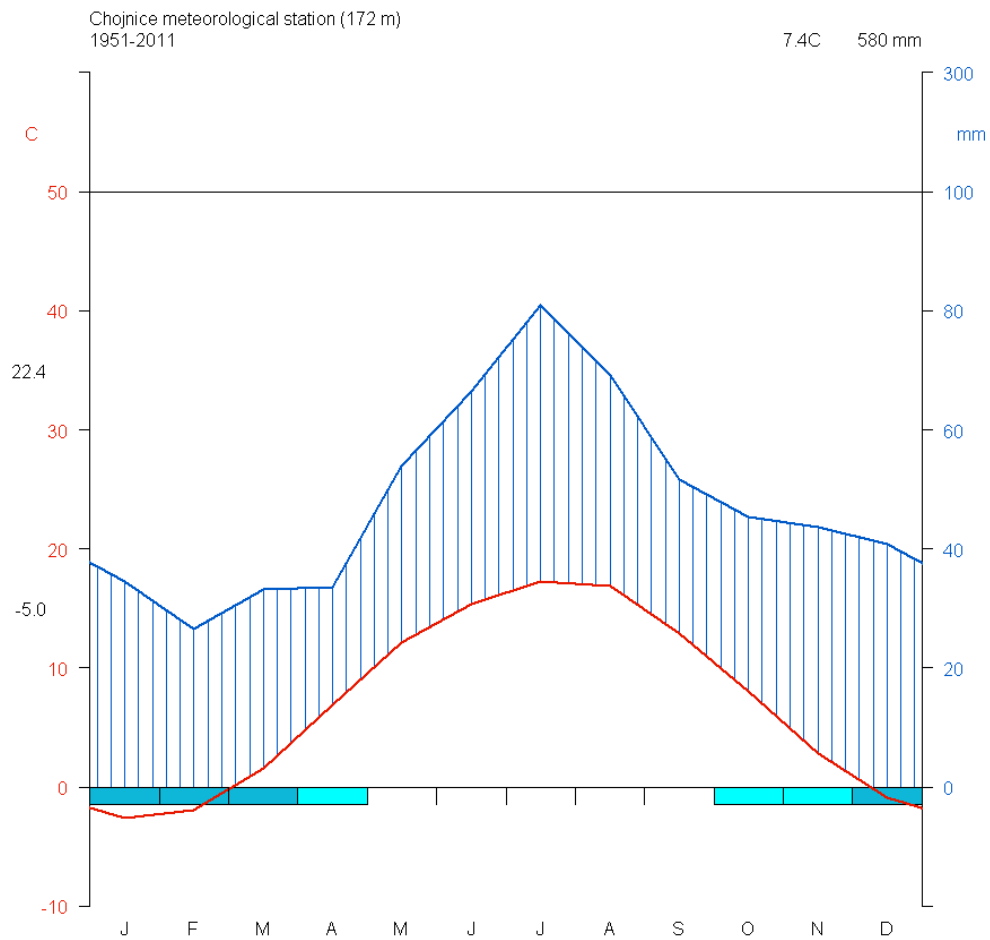
Supplementary Materials for

**REACTION OF SILVER FIR (*ABIES ALBA*) GROWING OUTSIDE  
ITS NATURAL RANGE TO EXTREME WEATHER EVENTS  
AND A LONG-TERM INCREASE IN MARCH TEMPERATURE**

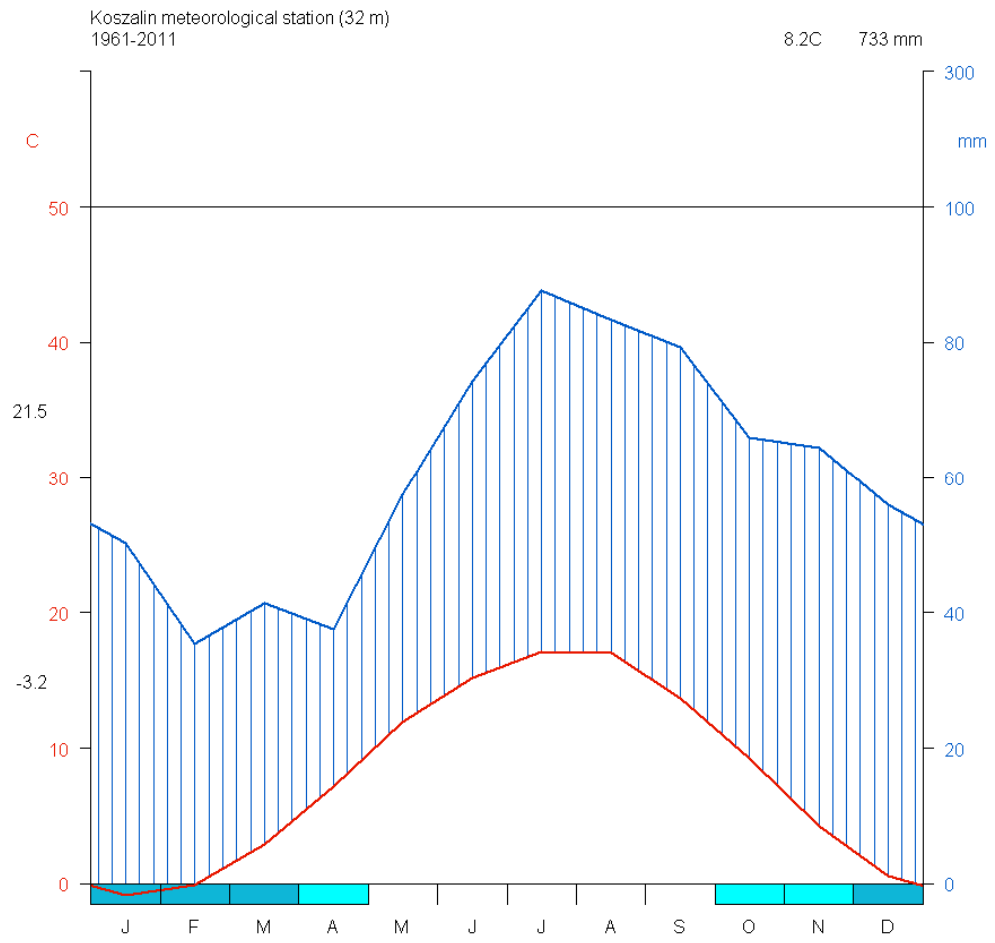
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Tree-Ring Research 69(2):49-61

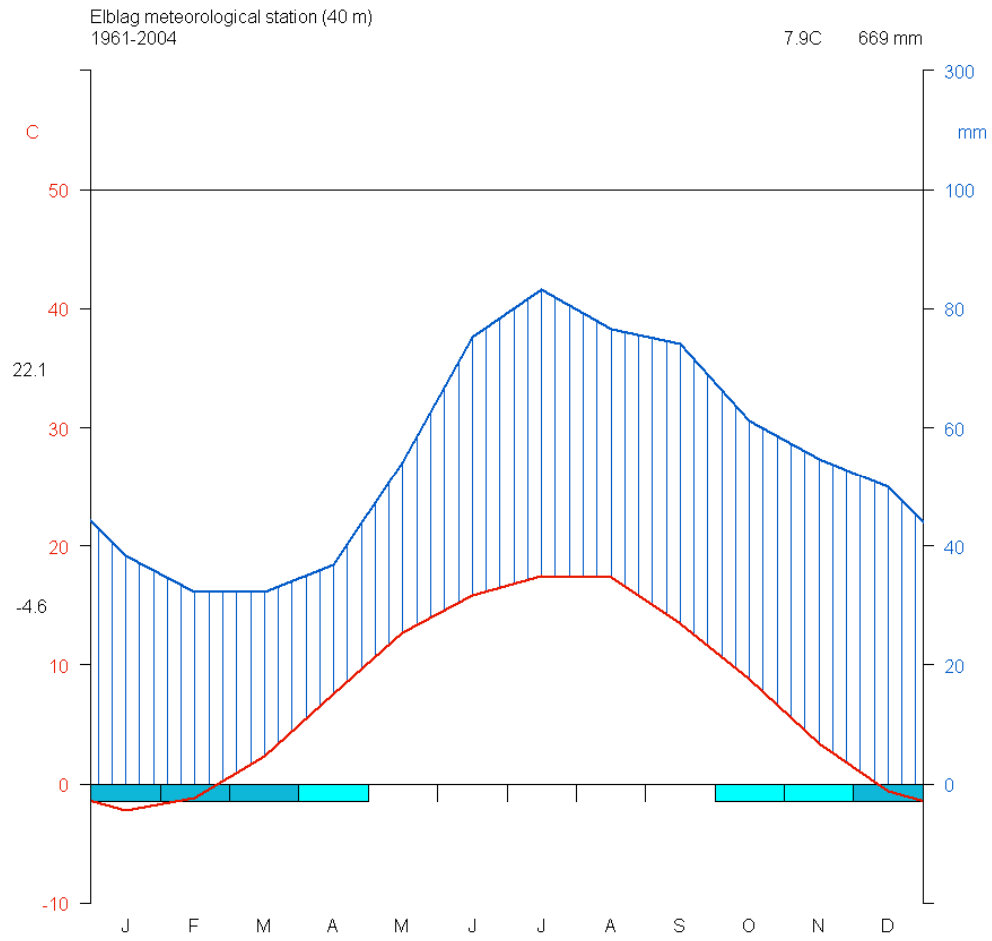
**Figure S1a**



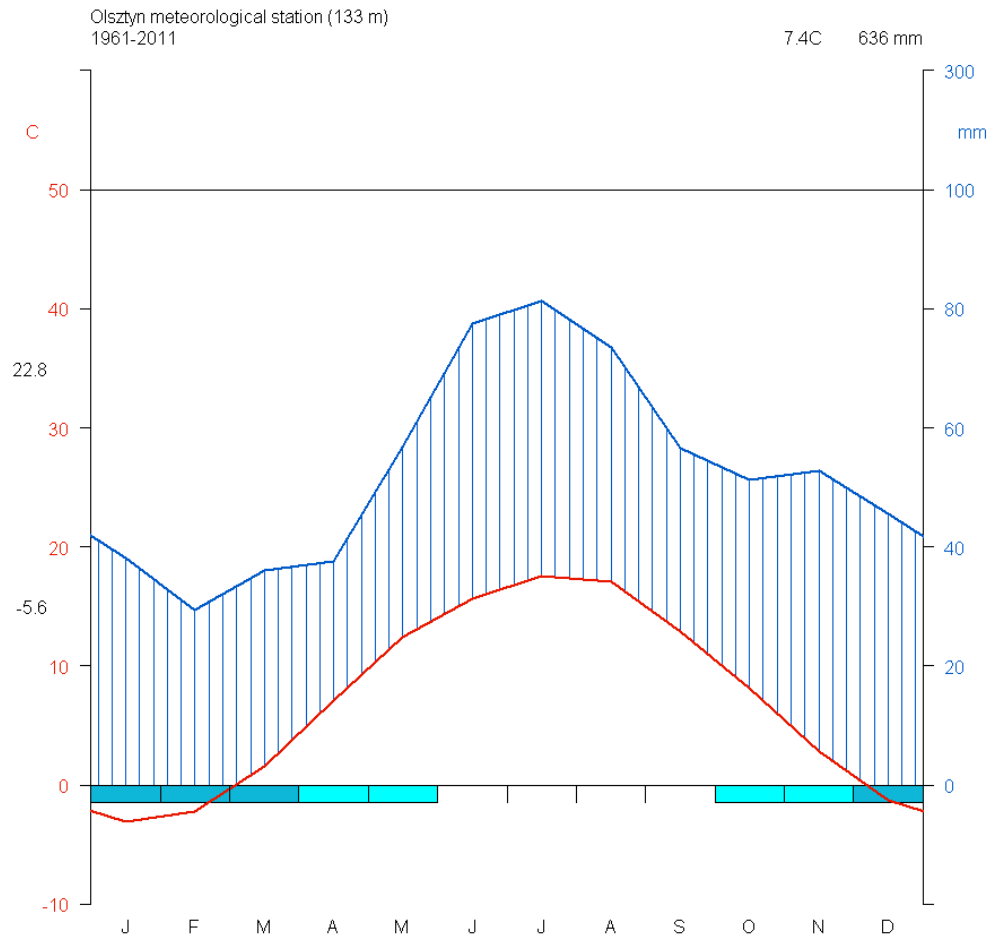
**Figure S1b**



**Figure S1c**



**Figure S1d**



**Table S1.** Descriptive statistics of TRW for each site

Site number	Forest inspectorate	Region	Time span	Years	Mean ring width [mm]	Mean sensitivity	1 <sup>st</sup> order auto-correlation	Rbar	EPS
1	Osusznica 1		1910-2008	99	2.12	0.271	0.715	0.507	0.897
2	Osusznica 2		1905-2008	104	2.19	0.302	0.714	0.372	0.803
3	Gościno	1	1900-2009	109	2.75	0.258	0.810	0.363	0.842
4	Karnieszewice		1892-2009	118	2.67	0.276	0.790	0.508	0.889
5	Bytów		1890-2006	117	2.94	0.266	0.827	0.455	0.86
6	Szczecinek		1901-2004	104	3.10	0.270	0.651	0.531	0.908
7	Szczytno		1900-2004	105	1.22	0.358	0.697	0.295	0.67
8	Zaporowo		1898-2009	112	2.72	0.348	0.771	0.559	0.908
9	Elbląg	2	1906-2009	104	2.68	0.321	0.694	0.571	0.907
10	Iława		1898-2009	112	2.10	0.347	0.753	0.424	0.849
11	Wichrowo		1901-2003	103	2.86	0.308	0.755	0.546	0.889
12	Wipsowo		1898-2009	112	2.67	0.302	0.730	0.457	0.864

**Table S2.** Descriptive statistics of EW and LW for each site.

Site number	Forest inspectorate	Region	Earlywood					Latewood				
			Mean EW width [mm]	Mean sensitivity	1 <sup>st</sup> order auto-correlation	Rbar	EPS	Mean LW width [mm]	Mean sensitivity	1 <sup>st</sup> order auto-correlation	Rbar	EPS
1	Osusznica 1		0.95	0.339	0.604	0.419	0.859	1.16	0.337	0.625	0.381	0.839
2	Osusznica 2		1.02	0.366	0.635	0.337	0.777	1.17	0.377	0.600	0.301	0.747
3	Gościno	1	1.20	0.275	0.705	0.334	0.824	1.55	0.369	0.700	0.323	0.817
4	Karnieszewice		1.16	0.300	0.715	0.376	0.824	1.51	0.386	0.624	0.461	0.869
5	Bytów		1.83	0.310	0.756	0.459	0.862	1.12	0.370	0.626	0.235	0.693
6	Szczecinek		1.57	0.315	0.555	0.446	0.876	1.54	0.405	0.527	0.464	0.884
7	Szczytno		0.64	0.402	0.648	0.25	0.619	0.58	0.466	0.476	0.219	0.577
8	Zaporowo		1.30	0.377	0.618	0.52	0.895	1.43	0.455	0.711	0.499	0.886
9	Elbląg	2	1.32	0.604	0.353	0.463	0.864	1.36	0.566	0.453	0.483	0.873
10	Hawa		1.04	0.689	0.355	0.364	0.814	1.06	0.648	0.465	0.37	0.818
11	Wichrowo		1.34	0.608	0.371	0.419	0.828	1.52	0.663	0.396	0.462	0.851
12	Wipsowo		1.19	0.618	0.333	0.399	0.833	1.49	0.673	0.397	0.361	0.81