



(a)

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Element	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Highest T / 10 years (°C)	0.34		0.27	0.19			0.14	0.14				
Highest Rf / 10 years (mm)	1.48		1.70									

(b)

Figure S1. Climograph (a), as well as the significant, at least $\alpha \leq 0.05$, trend (b) of the average air temperature (T) and total precipitation (Rf) for the Puławy station 1930–2015.

Table S1. Similarity assessment matrix of raw and residual site chronologies of Scots pine (PSO) by means of indicators—GLK (%) and *t*-value (given in brackets) 1930–2015.

	Chronology									
	Raw (mm)					Residual				
	PSO85a	PSO109a	PSO116c	PSO142d	PSO176f	PSO85a	PSO109a	PSO116c	PSO142d	PSO176f
PSO85a	-	64 ¹	65 ¹	64 ¹	63 ¹	-	68 ¹	70 ¹	65 ¹	61 ²
PSO109a	(8.3) ¹	-	68 ¹	65 ¹	66 ¹	(8.3) ¹	-	62 ²	61 ²	61 ²
PSO116c	(12.2) ¹	(10.3) ¹	-	77 ¹	74 ¹	(6.6) ¹	(6.7) ¹	-	86 ¹	84 ¹
PSO142d	(9.2) ¹	(10.8) ¹	(8.4) ¹	-	68 ¹	(5.4) ¹	(6.1) ¹	(8.5) ¹	-	77 ¹
PSO176f	(3.9) ¹	(6.4) ¹	(8.8) ¹	(6.2) ¹	-	(3.1) ¹	(4.5) ¹	(7.1) ¹	(5.5) ¹	-

Notes: ¹ significant at $\alpha \leq 0.01$, ² significant at $\alpha \leq 0.05$, 176f reference plot.