

## Supplementary Material

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**Table A.** Ten closest weather stations to the Indian study site (HKP) were obtained using the KNMI Climate Explorer (GHCN-M [all] option was chosen) and their average monthly temperature was used to calculate correlations with the HKP tree ring chronologies

Stations Used for Temperature Data	Data Availability
Mukteshwar: 29.47° N, 79.65° E, 2311 m	117 years with data in 1897–2016
Shimla: 31.10° N, 77.17° E, 2202 m	112 years with data in 1876–1990
New Delhi: 28.58° N, 77.20° E, 216 m	86 years with data in 1931–2016
Shiquanhe (China): 32.50° N, 80.08° E, 4279 m	40 years with data in 1961–2016
Ludhiana: 30.90° N, 75.90° E, 247 m	110 years with data in 1875–1984
Agra: 27.17° N, 78.03° E, 169 m	117 years with data in 1876–1999
Agra: 27.15° N, 77.97° E, 169 m	33 years with data in 1949–1987
Amritsar: 31.63° N, 74.87° E, 234 m	69 years with data in 1948–2016
Leh: 34.15° N, 77.57° E,	86 years with data in 1882–1968
Lahore Airport (Pakistan): 31.52° N, 74.40° E, 217 m	25 years with data in 1954–1978

**Table B.** Correlations between HKP tree ring chronologies and the average monthly temperature data from the ten closest stations mentioned in Table A. Bold entries are significant at  $p < 0.05$ .

Month	Correlation (r)		Correlation (r)		Correlation (r)		Correlation (r)	
	with EWstd		with LWstd		with TRWstd		with TRWres	
	1892– 2011	1908– 1956	1892– 2011	1908– 1956	1892– 2011	1908– 1956	1892– 2011	1908– 1956
Sep	-0.09	-0.06	-0.15	-0.04	-0.15	-0.08	-0.15	-0.10
Oct	-0.14	-0.05	<b>-0.21</b>	-0.02	<b>-0.20</b>	-0.07	<b>-0.21</b>	-0.14
Nov	<b>-0.19</b>	-0.15	<b>-0.21</b>	-0.14	<b>-0.24</b>	-0.19	<b>-0.22</b>	-0.17
Dec	-0.13	-0.09	-0.10	-0.02	-0.14	-0.12	-0.10	-0.10
Jan	0.01	0.08	-0.12	-0.06	-0.05	0.03	-0.06	-0.02
Feb	-0.03	0.11	-0.02	0.01	0.00	0.08	-0.04	0.00
Mar	-0.12	-0.13	-0.10	-0.07	-0.14	-0.15	-0.17	-0.18
Apr	-0.16	-0.17	-0.11	0.02	-0.18	-0.13	<b>-0.21</b>	-0.19
May	-0.18	-0.10	-0.08	0.09	-0.17	-0.03	<b>-0.20</b>	-0.12
Jun	-0.02	-0.04	-0.05	0.08	-0.05	-0.01	-0.06	-0.05
Jul	-0.07	-0.05	0.03	0.25	-0.03	0.07	-0.07	-0.01
Aug	-0.12	-0.02	-0.08	0.16	-0.12	0.07	-0.14	0.03
Sep	-0.03	0.04	-0.10	0.16	-0.08	0.10	-0.11	0.04
Oct	-0.18	0.03	-0.04	<b>0.32</b>	-0.14	0.19	-0.14	0.18