Supplementary Materials

1 Information on proxy records used in this study

A total of 423 historical climate proxy records were initially collected from publicly available peer-reviewed papers and monographs. Following a rigorous quality control process, 119 proxy records were finally selected for this study. Detailed information regarding these selected proxy records, including their latitude, longitude, start year, end year, type, and data source, is provided in Tab. S1.

Table S1: Information on proxy records used in this study

No.	Latitude(°N)	Longitude(°E)	Start Year	End Year	Type	Data source
1	50.08	87.77	1495	1998	Tree ring	Panyushkina et al. (2005)[1]
2	50.12	87.92	1554	2000	Tree ring	Magda et al. (2012)[2]
3	33.75	107.80	1600	1992	Tree ring	Cook et al. (2013)[3]
4	27.45	90.15	1456	2005	Tree ring	Cook et al. (2010)[4]
5	27.95	89.75	1453	2006	Tree ring	Cook et al. (2010)[4]
6	29.28	100.08	1540	2006	Tree ring	Cook et al. (2010)[4]
7	30.23	100.27	1306	2007	Tree ring	Cook et al. (2010)[4]
8	28.98	99.93	1380	2007	Tree ring	Cook et al. (2010)[4]
9	27.62	99.80	1516	2007	Tree ring	Cook et al. (2010)[4]
10	29.30	91.97	1217	1998	Tree ring	Cook et al. (2013)[3]
11	31.12	97.03	1406	1994	Tree ring	Cook et al. (2013)[3]
12	34.47	110.08	1359	2005	Tree ring	Cook et al. (2013)[3]
13	28.38	85.72	1450	1996	Glacier Ice	Thompson et al. (2000)[5]
14	28.38	85.72	1450	1996	Glacier Ice	Thompson et al. (2000)[5]
15	34.75	100.82	1287	2004	Tree ring	Cook et al. (2013)[4]
16	30.98	78.93	1567	1999	Tree ring	Cook et al. (2013)[4]
17	34.73	100.80	1346	2004	Tree ring	Cook et al. (2013)[4]
18	34.78	100.82	1520	2002	Tree ring	Cook et al. (2013)[4]
19	34.73	100.78	1475	2004	Tree ring	Cook et al. (2013)[4]
20	43.18	87.18	1543	1993	Tree ring	Cook et al. (2013)[4]
21	31.37	78.17	1538	2004	Tree ring	Cook et al. (2013)[4]
22	44.35	142.18	1575	1999	Tree ring	Yasue et al. (1999)[7]
23	43.22	145.47	1511	1998	Tree ring	Cook et al. (2013)[3]
24	43.955	145.725	1585	2000	Tree ring	Demezhko&Solomina (2009)[6]
25	43.955	145.725	1585	2000	Tree ring	Demezhko&Solomina (2009)[6]
26	40.17	72.58	1378	1995	Tree ring	Cook et al. (2013)[3]
27	40.20	72.58	1420	1995	Tree ring	Cook et al. (2013)[3]
28	42.15	79.47	1301	2005	Tree ring	Cook et al. (2013)[3]

29	49.92	91.57	1326	1998	Tree ring	Cook et al. (2013)[3]
30	47.10	90.97	1375	2004	Tree ring	Cook et al. (2010)[4]
31	48.70	88.80	1565	2004	Tree ring	Cook et al. (2010)[4]
32	46.32	101.32	1599	2001	Tree ring	Cook et al. (2010)[4]
33	48.83	111.68	1576	2001	Tree ring	Cook et al. (2010)[4]
34	48.25	97.40	1516	1998	Tree ring	Cook et al. (2010)[4]
35	46.52	100.95	1340	2002	Tree ring	Cook et al. (2010)[4]
36	49.37	94.88	1550	1997	Tree ring	Cook et al. (2010)[4]
37	43.77	142.55	1557	1997	Tree ring	Cook et al. (2013)[3]
38	43.77	142.55	1532	1997	Tree ring	Cook et al. (2013)[3]
39	27.70	86.45	1417	1998	Tree ring	Cook et al. (2013)[3]
40	27.73	86.33	1445	1998	Tree ring	Cook et al. (2013)[3]
41	27.5	88.02	1525	1999	Tree ring	Cook et al. (2013)[3]
42	27.73	87.20	1509	1996	Tree ring	Cook et al. (2013)[3]
43	36.03	74.58	1240	1993	Tree ring	Esper et al. (2007)[8]
44	35.33	74.80	1505	2005	Tree ring	Cook et al. (2013)[3]
45	35.90	71.73	1537	2006	Tree ring	Cook et al. (2013)[3]
46	35.90	71.73	1260	2006	Tree ring	Cook et al. (2013)[3]
47	36.15	74.18	1497	2009	Tree ring	Cook et al. (2013)[3]
48	36.15	74.18	1387	2005	Tree ring	Cook et al. (2013)[3]
49	35.35	71.80	1472	2005	Tree ring	Ahmed et al. (2011)[9]
50	27.37	99.37	1498	2007	Tree ring	Cook et al. (2013)[3]
51	43.88	145.6	1585	2000	Tree ring	Cook et al. (2010)[4]
52	48.30	98.93	46	1999	Tree ring	Cook et al. (2013)[3]
53	34.78	100.80	1340	2002	Tree ring	Cook et al. (2013)[3]
54	34.78	100.82	1400	2002	Tree ring	Cook et al. (2013)[3]
55	30.33	119.43	1590	2007	Tree ring	Cook et al. (2013)[3]
56	50.15	85.37	1581	1994	Tree ring	Briffa et al. (2002)[10]
57	50.15	85.37	1581	1994	Tree ring	Briffa et al. (2002)[10]
58	50.15	85.37	1581	1994	Tree ring	Briffa et al. (2002)[10]
59	50.15	85.37	1581	1994	Tree ring	Briffa et al. (2002)[10]
60	50.15	85.37	1581	1994	Tree ring	Briffa et al. (2002)[10]
61	50.48	87.65	1581	1994	Tree ring	Briffa et al. (2002)[10]
62	30.37	130.53	1080	2005	Tree ring	Cook et al. (2013)[3]
63	34.63	104.47	1568	2006	Tree ring	Cook et al. (2010)[4]
64	48.00	99.00	262	1999	Tree ring	D'Arrigo et al. (2001)[11]
65	51.03	143.59	1600	2004	Tree ring	Wiles et al. (2015)[12]
66	34.00	103.5	1500	1995	Tree ring	Yang et al. (2013)[13]
67	32.5	95.00	1000	2005	Tree ring	Wang et al. (2015)[14]
68	43.77	142.55	1557	1997	Tree ring	Davi et al. (2002)[15]
69	51.15	99.083	931	2005	Tree ring	Davi et al. (2015)[16]
70	38.70	99.69	670	2012	Tree ring	Zhang et al. (2014)[17]
71	37.00	111.50	1470	2002	Documents	Yi et al. (2012)[18]

72	42.00	80.00	1615	2005	Tree ring	Chen et al. (2019)[19]
73	47.10	88.20	1710	1983	Tree ring	Li (1989)[20]
74	41.00	83.30	1807	1983	Tree ring	Li (1989)[20]
75	41.00	83.30	1829	1983	Tree ring	Li (1989)[20]
76	40.40	83.30	1854	1983	Tree ring	Li (1989)[20]
77	47.20	89.30	1464	1981	Tree ring	Li (1989)[20]
78	43.40	90.20	1550	1977	Tree ring	Li (1989)[20]
79	43.20	93.20	1678	1979	Tree ring	Li (1989)[20]
80	43.20	93.20	1653	1979	Tree ring	Li (1989)[20]
81	43.50	93.20	1463	1979	Tree ring	Li (1989)[20]
82	43.20	87.10	1752	1993	Tree ring	Li (1989)[20]
83	43.20	87.10	1667	1993	Tree ring	Li (1989)[20]
84	43.10	87.10	1736	1993	Tree ring	Li (1989)[20]
85	42.50	81.10	1676	1982	Tree ring	Li (1989)[20]
86	43.40	83.40	1687	1982	Tree ring	Li (1989)[20]
87	35.33	135.73	1847	1983	Tree ring	Kojo (2002)[21]
88	43.77	142.55	1532	1997	Tree ring	Davi et al. (2006)[22]
89	38.13	128.47	1657	1998	Tree ring	Park et al. (2007)[23]
90	48.30	98.93	900	1999	Tree ring	Jacoby et al. (2011)[24]
91	49.92	91.57	1326	1998	Tree ring	Jacoby et al. (2003)[25]
92	47.27	100.03	1363	1999	Tree ring	Jacoby et al. (2003)[26]
93	24.5	121.4	1190	2007	Tree ring	Liu et al. (2017)[27]
94	29.64	94.71	1820	2008	Reconstruction	Li et al. (2018)[28]
95	34.45	106.15	1666	2008	Reconstruction	Chen & Yuan (2014)[29]
96	27.78	98.48	1678	2019	Reconstruction	Deng & Li (2022)[30]
97	31.15	99.81	1383	2005	Reconstruction	Li et al. (2022)[31]
98	34.65	75.47	1682	1981	Tree ring	Hughes (2002)[32]
99	51.03	143.59	1536	2004	Tree ring	Wiles et al. (2014)[33]
100	35.00	135.77	891	1995	Reconstruction	Aono et al. (2019)[34]
101	35.23	81.46	1840	2014	Glacier Ice	Thompson et al. (2021)[35]
102	43.96	145.73	1585	2000	Reconstruction	Demezhko & Solomina (2017)[36]
103	27.42	90.97	1376	2013	Reconstruction	Davi et al. (2003)[37]
104	29.63	79.85	1621	2008	Tree ring	Xu et al. (2018)[38]
105	32.75	76.62	1146	2006	Tree ring	Managave et al. (2020)[39]
106	32.22	77.22	1767	2008	Tree ring	Sano et al. (2018)[40]
107	28.18	85.18	1801	2000	Tree ring	Xu et al. (2018)[41]
108	29.85	81.93	1778	2000	Tree ring	Sano et al. (2017)[42]
109	52.23	104.18	1682	1998	Tree ring	Schleser et al. (2017)[43]
110	30.83	77.43	1801	1988	Tree ring	Borgaonkar et al. (2004)[44]
111	31.12	77.17	1775	1988	Tree ring	Borgaonkar et al. (2004)[45]
112	32.27	77.17	1676	1988	Tree ring	Borgaonkar et al. (2004)[46]
113	31.2	77.23	1685	1989	Tree ring	Borgaonkar et al. (2004)[47]
114	31.18	77.27	1673	1989	Tree ring	Borgaonkar et al. (2004)[48]

115	30.75	78.42	1720	1990	Tree ring	Borgaonkar et al. (2004)[49]
116	30.62	78.75	1796	1989	Tree ring	Borgaonkar et al. (2004)[50]
117	29.77	79.17	1657	1990	Tree ring	Borgaonkar et al. (2004)[51]
118	52.80	106.43	1877	2004	Tree ring	Oskolkov & Voronin (2014)[52]
119	28.42	83.75	1740	1978	Tree ring	Schweingruber (2002)[53]

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2 North test results for the EOF modes

The North test was applied to assess the sampling uncertainty of the EOF eigenvalues and to determine whether the first ten EOF modes are statistically distinguishable. Tab. S2 lists the eigenvalues, explained variance, cumulative variance, associated error ranges, and the North test results for the first ten modes. 165

Table S2: EOF decomposition and North Test results for reconstructed EA temperature during 1400-2000.

Modes	Eigenvalue	Explained Variance (%)	Cumulative Variance (%)	Error Range	Passes North Test?
1	614.47	26.3%	26.3%	35.45	Yes
2	260.93	11.2%	37.5%	15.05	Yes
3	178.46	7.5%	45.0%	10.12	Yes
4	159.07	6.8%	51.8%	9.18	No
5	115.82	5.0%	56.8%	6.68	No
6	92.06	3.9%	60.7%	5.31	No
7	85.96	3.7%	64.4%	4.96	No
8	64.59	2.8%	67.2%	3.73	No
9	59.11	2.5%	69.7%	3.41	No
10	44.37	1.9%	71.6%	2.56	No