

Multi-proxy reconstructions of precipitation field in China over the past 500 years

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This file includes a Supplementary Table and two Supplementary Figures. Table s1 lists the information of 491 tree-ring chronologies and an instrumental precipitation record. Fig. s1 provides the intrinsic mode functions (IMFs) of the mean MJJAS precipitation anomalies for eastern China, western China, and whole China. Fig. s2 shows correlation maps of reconstructed MJJAS mean precipitation anomalies for China with three reconstructed ENSO indices and three reconstructed PDO indices.

Table s1. List of the 491 tree-ring records and an instrumental precipitation record.

No.	Author/Source	Site	Code*	Lon.	Lat.	Start year	End year
1	ITRDB	bt001.rwl	9000	90.39	27.35	1294	2003
2	ITRDB	bt003.rwl	9000	90.46	27.42	1520	2003
3	ITRDB	bt004.rwl	9000	90.41	27.42	1481	2003
4	ITRDB	bt008.rwl	9000	90.39	27.35	1280	2003
5	ITRDB	bt009.rwl	9000	90.58	27.25	1457	2002
6	ITRDB	bt010.rwl	9000	89.23	27.15	1484	2005
7	ITRDB	bt011.rwl	9000	90.09	27.27	1456	2005
8	ITRDB	bt012.rwl	9000	90.42	27.27	1625	2003
9	ITRDB	bt013.rwl	9000	89.23	27.15	1741	2005
10	ITRDB	bt015.rwl	9000	91.11	27.29	1777	2003
11	ITRDB	bt016.rwl	9000	89.45	27.59	1644	2006
12	ITRDB	bt017.rwl	9000	89.19	27.23	1620	2005
13	ITRDB	bt018.rwl	9000	89.45	27.57	1453	2006
14	ITRDB	bt019.rwl	9000	89.45	27.55	1660	2006
15	ITRDB	bt020.rwl	9000	90.09	27.27	1720	2006
16	ITRDB	bt021.rwl	9000	90.58	27.25	1280	2013
17	ITRDB	chin004.rwl	9000	110.05	34.29	1540	1989
18	ITRDB	chin005.rwl	9000	98.30	37.00	840	1993
19	ITRDB	chin006.rwl	9000	98.00	36.00	159	1993
20	ITRDB	chin007.rwl	9000	88.09	43.56	1867	2004
21	ITRDB	chin008.rwl	9000	82.08	42.53	1690	2004
22	ITRDB	chin009.rwl	9000	82.09	43.04	1605	2004
23	ITRDB	chin010.rwl	9000	81.43	42.48	1686	2004
24	ITRDB	chin011.rwl	9000	82.52	43.09	1634	2004
25	ITRDB	chin012.rwl	9000	82.41	43.05	1721	2004
26	ITRDB	chin013.rwl	9000	86.43	43.43	1785	2004
27	ITRDB	chin014.rwl	9000	88.07	43.53	1694	2004
28	ITRDB	chin016.rwl	9000	101.55	31.47	1575	2007
29	ITRDB	chin017.rwl	9000	99.45	28.54	1452	2007

30	ITRDB	chin018.rwl	9000	100.05	29.17	1540	2006
31	ITRDB	chin019.rwl	9000	99.56	29.09	1509	2006
32	ITRDB	chin020.rwl	9000	100.16	30.14	1306	2007
33	ITRDB	chin021.rwl	9000	99.56	28.59	1380	2007
34	ITRDB	chin022.rwl	9000	100.17	30.52	1663	2007
35	ITRDB	chin023.rwl	9000	100.52	30.00	1715	2007
36	ITRDB	chin024.rwl	9000	99.02	28.22	1628	2007
37	ITRDB	chin025.rwl	9000	99.16	27.22	1483	2007
38	ITRDB	chin026.rwl	9000	99.48	27.37	1516	2007
39	ITRDB	chin027.rwl	9000	99.18	27.20	1348	2007
40	ITRDB	chin028.rwl	9000	99.18	27.20	1348	2007
41	ITRDB	chin031.rwl	9000	93.20	43.49	1790	2002
42	ITRDB	chin032.rwl	9000	93.18	43.49	1807	2002
43	ITRDB	chin033.rwl	9000	87.55	43.46	1653	2002
44	ITRDB	chin034.rwl	9000	88.01	43.48	1653	2002
45	ITRDB	chin035.rwl	9000	90.13	43.36	1715	2002
46	ITRDB	chin036.rwl	9000	90.06	43.36	1829	2002
47	ITRDB	chin038.rwl	9000	99.17	27.35	1542	2005
48	ITRDB	chin039.rwl	9000	99.01	28.02	1489	2005
49	ITRDB	chin041.rwl	9000	98.24	27.53	1530	2005
50	ITRDB	chin042.rwl	9000	98.52	31.57	1519	1996
51	ITRDB	chin043.rwl	9000	91.58	29.18	1217	1998
52	ITRDB	chin044.rwl	9000	93.57	29.04	1047	1993
53	ITRDB	chin045.rwl	9000	94.40	29.37	1568	1993
54	ITRDB	chin046.rwl	9000	97.02	31.07	449	2004
55	ITRDB	chin047.rwl	9000	97.02	31.07	1406	1994
56	ITRDB	chin048.rwl	9000	91.31	30.18	1080	1998
57	ITRDB	chin049.rwl	9000	96.29	31.14	1547	1994
58	ITRDB	chin050.rwl	9000	97.14	37.28	843	2001
59	ITRDB	chin051.rwl	9000	97.13	37.28	828	2001
60	ITRDB	chin052.rwl	9000	97.32	37.27	404	2002
61	ITRDB	chin053.rwl	9000	98.03	37.26	451	2002

62	ITRDB	chin054.rwl	9000	97.47	37.27	711	2003
63	ITRDB	chin055.rwl	9000	97.03	37.31	1237	2002
64	ITRDB	chin056.rwl	9000	110.05	34.28	1458	2005
65	ITRDB	chin057.rwl	9000	110.05	34.28	1512	2005
66	ITRDB	chin058.rwl	9000	110.05	34.28	1359	2005
67	ITRDB	chin059.rwl	9000	96.08	33.48	1480	2002
68	ITRDB	chin060.rwl	9000	98.24	37.19	943	2003
69	ITRDB	chin061.rwl	9000	98.38	37.02	857	2003
70	ITRDB	chin062.rwl	9000	98.40	37.02	845	2001
71	ITRDB	chin063.rwl	9000	98.13	36.45	681	2001
72	ITRDB	chin064.rwl	9000	98.25	36.41	900	2001
73	ITRDB	chin065.rwl	9000	95.43	32.40	1290	2006
74	ITRDB	chin066.rwl	9000	96.17	33.43	1374	2002
75	ITRDB	chin067.rwl	9000	97.45	37.15	-2637	2011
76	ITRDB	chin068.rwl	9000	98.21	36.14	933	2011
77	ITRDB	chin070.rwl	9000	99.20	38.34	56	2009
78	ITRDB	chin071.rwl	9000	99.52	38.12	432	2008
79	ITRDB	chin072.rwl	9000	112.14	33.44	1774	2007
80	ITRDB	chin074.rwl	9000	97.00	31.00	128	2010
81	ITRDB	indi008.rwl	9000	75.42	34.02	1609	1982
82	ITRDB	indi009.rwl	9000	75.42	34.02	1775	1982
83	ITRDB	indi010.rwl	9000	77.48	30.45	1711	1988
84	ITRDB	indi011.rwl	9000	77.26	30.50	1801	1988
85	ITRDB	indi013.rwl	9000	77.10	32.16	1676	1988
86	ITRDB	indi014.rwl	9000	77.14	31.12	1685	1989
87	ITRDB	indi015.rwl	9000	77.14	31.12	1590	1989
88	ITRDB	indi016.rwl	9000	77.14	31.12	1724	1989
89	ITRDB	indi017.rwl	9000	77.16	31.11	1673	1989
90	ITRDB	indi018.rwl	9000	77.16	31.11	1745	1989
91	ITRDB	indi019.rwl	9000	78.25	30.45	1720	1990
92	ITRDB	indi020.rwl	9000	78.45	30.37	1796	1990
93	ITRDB	indi021.rwl	9000	79.10	29.46	1657	1990

94	ITRDB	indi024.rwl	9000	78.10	31.22	1538	2004
95	ITRDB	japa008.rwl	9000	142.33	43.46	1532	1997
96	ITRDB	japa011.rwl	9000	143.50	44.01	1693	2003
97	ITRDB	japa012.rwl	9000	142.07	44.57	1500	1991
98	ITRDB	japa013.rwl	9000	142.11	44.21	1575	1999
99	ITRDB	japa014.rwl	9000	143.12	43.30	1487	1997
100	ITRDB	japa016.rwl	9000	138.13	35.44	1540	2001
101	ITRDB	japa017.rwl	9000	130.32	30.22	982	2002
102	ITRDB	japa018.rwl	9000	130.27	30.20	969	2005
103	ITRDB	japa019.rwl	9000	133.07	33.44	1600	2001
104	ITRDB	japa020.rwl	9000	130.30	30.20	1	1999
105	ITRDB	kaz001.rwl	9000	77.21	43.21	1570	2001
106	ITRDB	kore001.rwl	9000	128.28	38.08	1657	1998
107	ITRDB	kyrg001.rwl	9000	72.35	40.10	1839	1995
108	ITRDB	kyrg003.rwl	9000	72.35	40.10	1591	1995
109	ITRDB	kyrg004.rwl	9000	72.35	40.10	1378	1995
110	ITRDB	kyrg005.rwl	9000	72.35	40.10	1316	1995
111	ITRDB	kyrg007.rwl	9000	72.35	40.10	1157	1995
112	ITRDB	kyrg008.rwl	9000	72.35	40.12	1420	1987
113	ITRDB	kyrg010.rwl	9000	72.37	40.10	1427	1987
114	ITRDB	kyrg012.rwl	9000	79.03	42.12	1450	2005
115	ITRDB	kyrg013.rwl	9000	79.28	42.09	1301	2006
116	ITRDB	kyrg014.rwl	9000	78.58	42.25	1551	2005
117	ITRDB	kyrg015.rwl	9000	79.27	42.09	1528	2005
118	ITRDB	ls001.rwl	9000	102.48	18.10	1743	2005
119	ITRDB	mong001.rwl	9000	100.12	50.46	1617	1994
120	ITRDB	mong002.rwl	9000	107.00	47.46	1506	1994
121	ITRDB	mong003.rwl	9000	98.56	48.18	558	1999
122	ITRDB	mong005.rwl	9000	110.33	48.34	1651	1996
123	ITRDB	mong006.rwl	9000	107.30	47.47	1582	2001
124	ITRDB	mong009.rwl	9000	91.34	49.55	1326	1998
125	ITRDB	mong010.rwl	9000	100.02	47.16	1363	1999

126	ITRDB	mong011.rwl	9000	100.17	48.09	1513	2001
127	ITRDB	mong013.rwl	9000	97.07	48.46	1638	1998
128	ITRDB	mong016.rwl	9000	88.22	48.36	1469	2004
129	ITRDB	mong017.rwl	9000	91.00	49.58	1350	2005
130	ITRDB	mong018.rwl	9000	90.59	49.58	1519	2005
131	ITRDB	mong019.rwl	9000	90.58	47.06	1375	2004
132	ITRDB	mong020.rwl	9000	88.52	48.16	1537	2005
133	ITRDB	mong021.rwl	9000	107.28	48.21	996	2002
134	ITRDB	mong022.rwl	9000	111.40	48.50	1692	1996
135	ITRDB	mong023.rwl	9000	94.35	49.30	1613	1998
136	ITRDB	mong024.rwl	9000	88.30	48.30	1215	2004
137	ITRDB	mong025.rwl	9000	88.48	48.42	1565	2004
138	ITRDB	mong026.rwl	9000	100.07	46.49	1411	2002
139	ITRDB	mong027.rwl	9000	101.19	46.19	1599	2001
140	ITRDB	mong028.rwl	9000	111.41	48.50	1576	2001
141	ITRDB	mong029.rwl	9000	91.26	49.52	1249	1998
142	ITRDB	mong031.rwl	9000	97.24	48.15	1516	1998
143	ITRDB	mong032.rwl	9000	100.57	46.31	1261	2003
144	ITRDB	mong033.rwl	9000	94.53	49.22	1265	1997
145	ITRDB	mong034.rwl	9000	107.34	49.25	1730	2008
146	ITRDB	mong035.rwl	9000	106.12	49.56	1653	2008
147	ITRDB	mong036.rwl	9000	106.11	50.05	1770	2008
148	ITRDB	mong037.rwl	9000	106.22	50.09	1731	2008
149	ITRDB	mong038.rwl	9000	107.18	49.24	1626	2008
150	ITRDB	mong039.rwl	9000	99.52	48.10	-106	2011
151	ITRDB	nepa003.rwl	9000	82.03	29.17	1420	1997
152	ITRDB	nepa004.rwl	9000	87.11	27.26	1702	1996
153	ITRDB	nepa005.rwl	9000	83.24	28.27	1803	1993
154	ITRDB	nepa006.rwl	9000	84.11	28.18	1824	1994
155	ITRDB	nepa008.rwl	9000	84.06	28.29	1796	1994
156	ITRDB	nepa009.rwl	9000	86.17	27.26	1625	1998
157	ITRDB	nepa010.rwl	9000	86.16	27.25	1417	1998

158	ITRDB	nepa011.rwl	9000	87.10	27.27	1681	1996
159	ITRDB	nepa012.rwl	9000	87.10	27.27	1681	1996
160	ITRDB	nepa013.rwl	9000	86.25	27.10	1689	1998
161	ITRDB	nepa014.rwl	9000	86.10	27.25	1546	1998
162	ITRDB	nepa015.rwl	9000	83.25	28.14	1395	1997
163	ITRDB	nepa016.rwl	9000	83.25	28.14	1727	1997
164	ITRDB	nepa017.rwl	9000	86.12	27.26	1754	1998
165	ITRDB	nepa018.rwl	9000	86.12	27.26	1445	1998
166	ITRDB	nepa019.rwl	9000	82.04	29.17	1530	1997
167	ITRDB	nepa020.rwl	9000	82.03	29.18	1695	1979
168	ITRDB	nepa021.rwl	9000	87.57	27.38	1525	1999
169	ITRDB	nepa022.rwl	9000	86.03	27.27	1725	1978
170	ITRDB	nepa023.rwl	9000	82.01	29.18	1602	1997
171	ITRDB	nepa024.rwl	9000	82.01	29.18	1671	1997
172	ITRDB	nepa025.rwl	9000	82.01	29.19	1566	1997
173	ITRDB	nepa026.rwl	9000	87.08	27.23	1712	1993
174	ITRDB	nepa027.rwl	9000	87.54	27.29	1561	1999
175	ITRDB	nepa030.rwl	9000	87.10	27.28	856	1996
176	ITRDB	nepa031.rwl	9000	84.09	28.21	1590	1979
177	ITRDB	nepa032.rwl	9000	87.07	27.24	1546	1996
178	ITRDB	nepa034.rwl	9000	87.06	27.25	1672	1996
179	ITRDB	nepa036.rwl	9000	87.07	27.26	1509	1996
180	ITRDB	nepa037.rwl	9000	82.03	29.21	1655	1979
181	ITRDB	nepa038.rwl	9000	85.04	28.02	1726	1996
182	ITRDB	nepa039.rwl	9000	85.05	28.02	1605	1996
183	ITRDB	nepa040.rwl	9000	81.30	29.03	1650	1979
184	ITRDB	nepa042.rwl	9000	87.53	27.30	1500	1999
185	ITRDB	paki004.rwl	9000	74.56	35.54	1240	1999
186	ITRDB	paki005.rwl	9000	74.02	36.20	1587	1993
187	ITRDB	paki006.rwl	9000	74.02	36.20	1032	1993
188	ITRDB	paki008.rwl	9000	75.00	36.00	568	1990
189	ITRDB	paki010.rwl	9000	75.05	36.35	968	1990

190	ITRDB	paki011.rwl	9000	75.05	36.35	554	1990
191	ITRDB	paki013.rwl	9000	74.59	35.44	1540	1999
192	ITRDB	paki014.rwl	9000	75.30	35.10	1412	1993
193	ITRDB	paki017.rwl	9000	74.48	35.20	1505	2005
194	ITRDB	paki018.rwl	9000	74.48	35.20	1317	2005
195	ITRDB	paki019.rwl	9000	74.02	35.10	1646	2007
196	ITRDB	paki020.rwl	9000	71.38	35.41	1411	2006
197	ITRDB	paki021.rwl	9000	71.38	35.41	1403	2006
198	ITRDB	paki022.rwl	9000	71.44	35.54	1537	2006
199	ITRDB	paki024.rwl	9000	74.35	35.02	1394	2005
200	ITRDB	paki025.rwl	9000	74.47	35.27	1290	2007
201	ITRDB	paki026.rwl	9000	74.30	35.32	1738	2007
202	ITRDB	paki027.rwl	9000	71.56	35.21	1511	2006
203	ITRDB	paki028.rwl	9000	74.07	35.24	1559	2007
204	ITRDB	paki029.rwl	9000	74.20	35.50	1523	2008
205	ITRDB	paki030.rwl	9000	74.11	35.53	1574	2008
206	ITRDB	paki031.rwl	9000	74.05	35.30	1296	2007
207	ITRDB	paki033.rwl	9000	74.45	35.30	1362	2007
208	ITRDB	paki035.rwl	9000	74.11	36.09	1497	2009
209	ITRDB	paki036.rwl	9000	74.11	36.09	1387	2005
210	ITRDB	paki038.rwl	9000	73.32	35.39	1661	2008
211	ITRDB	paki039.rwl	9000	70.47	35.00	1569	2007
212	ITRDB	paki040.rwl	9000	71.48	35.21	1472	2005
213	ITRDB	russ215.rwl	9000	90.50	54.12	1767	1996
214	ITRDB	russ219.rwl	9000	145.59	43.15	1585	2000
215	ITRDB	russ222.rwl	9000	84.37	50.25	1598	2011
216	ITRDB	russ227.rwl	9000	88.06	49.37	1561	2000
217	ITRDB	russ231.rwl	9000	87.17	49.10	1542	2000
218	ITRDB	russ240.rwl	9000	98.58	52.29	1603	2013
219	ITRDB	russ241.rwl	9000	98.41	52.24	1523	2013
220	ITRDB	russ246.rwl	9000	87.30	47.30	-359	2011
221	ITRDB	russ247.rwl	9000	87.14	49.14	1394	2012

222	ITRDB	russ248.rwl	9000	87.01	49.12	1483	2010
223	ITRDB	russ249.rwl	9000	95.19	51.35	1283	2012
224	ITRDB	russ250.rwl	9000	87.30	49.31	1483	2011
225	ITRDB	russ251.rwl	9000	86.34	49.22	1273	2011
226	ITRDB	russ253.rwl	9000	96.23	50.12	1412	2012
227	ITRDB	russ254.rwl	9000	89.35	50.14	1447	2012
228	ITRDB	russ255.rwl	9000	88.10	50.04	1153	2012
229	ITRDB	russ256.rwl	9000	94.11	50.29	1413	2012
230	ITRDB	russ257.rwl	9000	88.08	49.23	1470	2011
231	ITRDB	russ258.rwl	9000	98.08	50.13	1345	2007
232	ITRDB	th001.rwl	9000	98.56	19.17	1558	2005
233	ITRDB	th004.rwl	9000	99.26	14.59	1693	2006
234	ITRDB	tw001.rwl	9000	121.23	24.32	930	2007
235	ITRDB	viet002.rwl	9000	104.06	21.40	1705	2003
236	ITRDB	chin001a.crn	9000	100.00	37.00	1163	1986
237	ITRDB	chin003.crn	9000	100.20	38.10	1414	1986
238	ITRDB	indi001.crn	9000	75.55	34.15	1777	1981
239	ITRDB	indi002.crn	9000	74.18	35.05	1604	1980
240	ITRDB	indi003.crn	9000	74.20	35.05	1608	1980
241	ITRDB	indi004.crn	9000	75.45	34.30	1643	1981
242	ITRDB	indi007.crn	9000	75.28	34.39	1682	1981
243	ITRDB	japa001.crn	9000	135.43	35.20	1767	1983
244	ITRDB	japa007.crn	9000	135.44	35.19	1750	1984
245	ITRDB	mong007w_crns.crn	9000	91.33	49.42	1570	1995
246	ITRDB	nepa001.crn	9000	83.45	28.25	1740	1978
247	ITRDB	russ243.crn	9000	143.35	51.02	1536	2004
248	Asia2K	AT-AKTALS	9000	87.37	50.25	1607	1995
249	Asia2K	AT-CEMTRW	9000	85.38	51.00	1631	1994
250	Asia2K	AT-CHUKLS	9000	87.40	50.15	1772	1999
251	Asia2K	AT-KURALS	9000	87.50	50.10	1703	1999
252	Asia2K	AT-TUJULS	9000	88.08	50.45	1741	2000
253	Asia2K	AT-UGBOLS	9000	87.41	50.30	1705	1995

254	Asia2K	AT-UKHTRW	9000	85.22	50.09	1605	1994
255	Asia2K	AT-UULTRW	9000	87.39	50.29	1636	1994
256	Asia2K	BT-BHUTSP	9000	90.00	27.27	1354	2005
257	Asia2K	BT-BHUTTD	9000	90.43	27.40	1475	2003
258	Asia2K	BU-MAINGT	9000	96.20	23.20	1630	2009
259	Asia2K	CH-14MY_P	9000	98.46	28.27	1801	2005
260	Asia2K	CH-4YL_AR	9000	100.14	27.10	1784	2005
261	Asia2K	CH-5BT_PR	9000	100.00	27.49	1651	2007
262	Asia2K	CH-6HP1_P	9000	98.55	28.15	1724	2005
263	Asia2K	CH-7HP2_P	9000	99.00	28.14	1765	2005
264	Asia2K	CH-8YB_PR	9000	98.46	28.24	1740	2003
265	Asia2K	CH-9YL_PR	9000	100.13	27.08	1658	2006
266	Asia2K	CH-BARELC	9000	107.48	33.45	1646	1992
267	Asia2K	CH-DEZQIN	9000	100.49	34.45	1345	2004
268	Asia2K	CH-DLH2	9000	97.13	37.28	940	2001
269	Asia2K	CH-DLH3	9000	97.32	37.27	812	2002
270	Asia2K	CH-DLH4	9000	98.03	37.26	588	2002
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272	Asia2K	CH-DUSHJP	9000	98.05	36.39	849	1993
273	Asia2K	CH-EAGLAB	9000	108.40	33.25	1801	1992
274	Asia2K	CH-GHEGAN	9000	101.32	37.56	1765	2000
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276	Asia2K	CH-HEBQIN	9000	100.47	34.44	1577	2004
277	Asia2K	CH-HUASPI	9000	110.05	34.29	1583	1990
278	Asia2K	CH-HXBURU	9000	87.11	43.11	1719	1993
279	Asia2K	CH-HYGJUP	9000	99.41	38.42	791	2006
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286	Asia2K	CH-MQRXJP	9000	99.41	34.45	960	2002
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291	Asia2K	CH-TDBXJP	9000	100.49	34.47	1500	2002
292	Asia2K	CH-TIANMU	9000	119.26	30.20	1669	2007
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339	Asia2K	VM-LPDVPD	9000	108.44	12.13	1772	2007
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342	(Li et al. 2000)	Li91002	9000	88.22	40.09	1789	1983
343	(Li et al. 2000)	Li91004	9000	88.21	48.18	1736	1983
344	(Li et al. 2000)	Li91005	9000	88.18	40.22	1801	1983
345	(Li et al. 2000)	Li91007	9000	85.57	40.28	1729	1983
346	(Li et al. 2000)	Li92001	9000	84.32	41.04	1801	1983
347	(Li et al. 2000)	Li92002	9000	84.27	39.58	1793	1983
348	(Li et al. 2000)	Li92003	9000	84.23	41.08	1801	1983
349	(Li et al. 2000)	Li92004	9000	85.08	41.02	1801	1983

350	(Li et al. 2000)	Li92005	9000	84.59	41.03	1766	1983
351	(Li et al. 2000)	Li92006	9000	84.49	41.09	1801	1983
352	(Li et al. 2000)	Li92007	9000	84.49	41.06	1777	1983
353	(Li et al. 2000)	Li92008	9000	85.28	41.02	1791	1983
354	(Li et al. 2000)	Li92009	9000	85.29	40.58	1791	1983
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357	(Li et al. 2000)	Li93003	9000	84.53	41.11	1733	1983
358	(Li et al. 2000)	Li93004	9000	84.26	41.16	1704	1983
359	(Li et al. 2000)	Li93005	9000	84.34	41.15	1750	1983
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362	(Li et al. 2000)	Li93008	9000	84.44	41.13	1733	1983
363	(Li et al. 2000)	Li94002	9000	83.34	41.03	1801	1983
364	(Li et al. 2000)	Li94003	9000	83.32	41.02	1801	1983
365	(Li et al. 2000)	Li94005	9000	83.12	40.52	1744	1983
366	(Li et al. 2000)	Li94006	9000	83.23	40.46	1790	1983
367	(Li et al. 2000)	Li94007	9000	83.25	40.44	1784	1983
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369	(Li et al. 2000)	Li94009	9000	82.46	41.02	1766	1983
370	(Li et al. 2000)	Liah171	9000	86.55	48.29	1675	1981
371	(Li et al. 2000)	Liah172	9000	87.09	48.30	1717	1981
372	(Li et al. 2000)	Liah173	9000	87.45	48.22	1685	1981
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374	(Li et al. 2000)	Liah174u	9000	90.07	47.02	1621	1981
375	(Li et al. 2000)	Liah175l	9000	90.07	47.03	1766	1981
376	(Li et al. 2000)	Liah175u	9000	90.07	47.03	1760	1981
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380	(Li et al. 2000)	Lichfk	9000	88.07	43.52	1753	1977
381	(Li et al. 2000)	Lichhtb	9000	86.28	43.40	1697	1977

382	(Li et al. 2000)	Lichml	9000	90.20	43.40	1773	1977
383	(Li et al. 2000)	Lichmq	9000	86.59	43.30	1401	1977
384	(Li et al. 2000)	Lih10u	9000	93.08	43.32	1624	1978
385	(Li et al. 2000)	Lih1u	9000	93.18	43.20	1678	1979
386	(Li et al. 2000)	Lih2l	9000	93.18	43.20	1673	1979
387	(Li et al. 2000)	Lih3u	9000	94.33	42.55	1771	1979
388	(Li et al. 2000)	Lih4l	9000	95.02	43.01	1744	1979
389	(Li et al. 2000)	Lih5u	9000	95.02	43.01	1754	1979
390	(Li et al. 2000)	Lih6l	9000	93.21	43.49	1801	1979
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403	(Li et al. 2000)	Liy1001	9000	81.08	42.43	1699	1982
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406	(Li et al. 2000)	Liy1004	9000	81.58	42.50	1750	1982
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414	(Li et al. 2000)	Liy1012	9000	84.08	43.11	1603	1982
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418	(Li et al. 2000)	Liy1017	9000	81.11	44.27	1801	1982
419	(Li et al. 2000)	Liy1018	9000	81.12	44.27	1746	1991
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421	(Li et al. 2000)	Liy1020	9000	83.42	43.39	1693	1982
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424	CTRD	liublkA	9000	93.18	43.51	1595	1989
425	CTRD	liublkB	9000	93.23	43.50	1587	1989
426	CTRD	liublkC	9000	93.20	43.50	1700	1989
427	CTRD	liubngo	9000	101.31	37.21	1731	1993
428	CTRD	liufukA	9000	88.07	43.52	1720	1989
429	CTRD	liufukB	9000	87.59	43.54	1640	1989
430	CTRD	liujmsr	9000	89.11	44.00	1590	1989
431	CTRD	liumiqn	9000	87.41	43.55	1690	1989
432	CTRD	liumule	9000	90.17	43.50	1801	1989
433	CTRD	liuqita	9000	89.35	44.01	1563	1989
434	CTRD	liuqygo	9000	100.23	38.08	1418	1993
435	CTRD	liuyishan	9000	118.37	36.12	1801	1992
436	(Liu and Shao, 2000)	Zhenan	9000	109.09	33.26	1673	1992
437	(Yang et al., 2013)	Chonger	9000	103.03	34.08	1714	2010
438	(Yang et al., 2013)	Daban	9000	103.32	33.48	1605	2010
439	(Yang et al., 2013)	DongWa	9000	103.21	34.22	1765	2010
440	(Yang et al., 2013)	Gaozhai	9000	103.29	33.53	1679	2010
441	(Yang et al., 2013)	Guiqing Mountain	9000	104.41	34.42	1801	2004
442	(Yang et al., 2013)	Longfeng Mountain	9000	104.23	34.41	1788	2004
443	(Yang et al., 2013)	Zhangxian	9000	104.29	34.46	1696	2005
444	(Yang et al., 2013)	Wuzi	9000	103.16	34.09	1717	2010
445	(Yang et al., 2013)	Yarika	9000	103.29	34.07	1624	2010

446	(Yang et al., 2013)	Yazha	9000	103.25	34.07	1715	2010
447	(He et al., 2013)	Linzhou	9000	91.50	30.30	1063	2009
448	(Yang et al., 2012)	Qilian-STD-NEG	9000	100.15	38.11	450	2008
449	(Yang et al., 2012)	Qilian-STD-HUF	9000	100.15	38.11	632	2008
450	(Yang et al., 2012)	Qilian-RCS	9000	100.15	38.11	575	2008
451	(Zhang et al., 2003)	Dulan	9000	97.80	35.90	1	2000
452	(Esper et al., 2002)	Karakorum	9000	75.00	36.00	618	1993
453	(Shao and Fan, 1999)	Chuanxi	9000	101.00	30.00	1650	1994
454	(Bräuning and Griebinger, 2006)	Qamdo	9000	97.00	31.00	1000	1996
455	(Yang et al., 2010a)	Linzhi	9000	94.16	29.22	1377	1996
456	(Fan et al., 2008)	Central Hengduan Mountains	9000	93.13	28.22	1750	1996
457	(Esper et al., 2002)	Tianshan	9000	72.35	40.10	686	1999
458	(D'Arrigo et al., 2001)	mongolia composite	9000	100.00	48.00	264	1996
459	(Fan et al., 2010)	Gaoligong Mountains	9000	98.40	27.80	1585	1996
460	(Yang et al., 2010c)	Anemaqin Shan	9000	100.00	34.79	1450	2006
461	(Yang et al., 2010c)	Delingha	9000	96.00	37.45	1450	2006
462	(Yang et al., 2010c)	Zhamashike	9000	99.95	38.15	1450	2006
463	(Yang et al., 2010c)	Sidalong	9000	99.90	38.40	1450	2006
464	(Yang et al., 2010c)	Haiyagou	9000	99.69	38.69	1450	2006
465	(Yang et al., 2010c)	Qifeng	9000	98.07	39.55	1450	2001
466	(Cook et al., 2003)	Kathmandu	9000	85.19	27.42	1546	1991
467	(Liu et al., 2009)	Dulan	9000	98.18	36.18	1000	2000
468	(Yang, 2012)	Qamdo (RCS)	9000	96.57	31.10	1000	2010
469	(Liang et al., 2009)	Linzhi	9000	94.40	29.50	1624	1998
470	(Li et al., 2011)	Zhongdian	9000	99.46	28.22	1475	2003
471	(Fan et al., 2009)	Deqen	9000	99.00	28.00	1750	2006
472	(Liang et al., 2008)	Nangchen	9000	96.29	32.12	1624	2002
473	(Yang et al., 2010b)	Ngamring	9000	87.11	29.15	1659	1998
474	(Gou et al., 2007)	Maqen	9000	99.45	34.45	1173	2001
475	(Kang et al., 2012)	Jingyuan	9000	104.24	36.80	1698	2010
476	(Zhu et al., 2008)	Wulan	9000	98.40	37.03	1000	2004

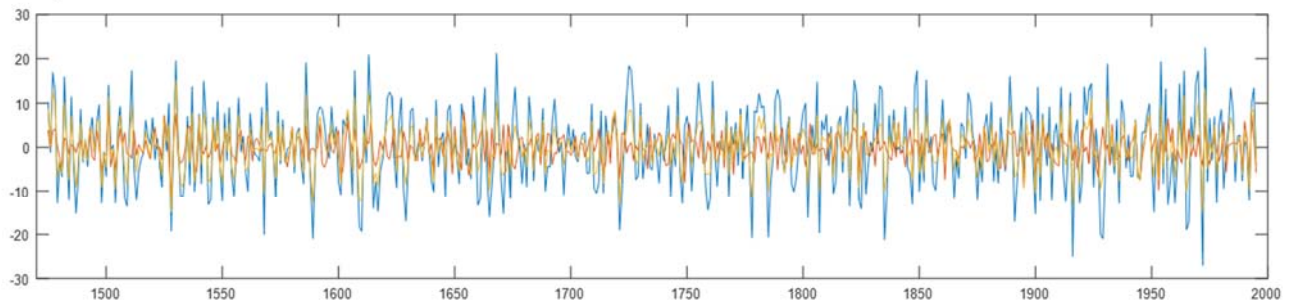
477	Contributed by li and gou	YECHENG#1-XINJIANG	9000	76.59	37.36	1780	2001
478	Contributed by li and gou	YECHENG#2-XINJIANG	9000	77.00	37.36	1680	2001
479	CTRDC	Delingha-Qinghai	9000	97.95	37.45	1010	2001
480	Contributed by li GCB	HEBEI#1-QINGHAI	9000	100.49	34.45	1370	2004
481	Contributed by li GCB	HEBEI#2-QINGHAI	9000	100.48	34.44	1400	2004
482	Contributed by Fang	ZHANGXIAN-GANSU	9000	104.28	34.38	1630	2006
483	(Fang et al., 2010)	XINGLONGSHAN-GANSU	9000	104.09	35.51	1801	2003
484	(Fang et al., 2012b)	Kongtong	9000	106.85	35.90	1630	2009
485	(Fang et al., 2012a)	Xiaolong	9000	106.22	34.75	1630	2009
486	Contributed by Fang	zhuoni	9000	104.02	34.43	1630	2010
487	(Zhu et al., 2009)	Dunhua	9000	127.53	42.27	1750	2001
488	(Zhu et al., 2011b)	Qamdo	9000	97.10	31.90	1440	2006
489	(Zhu et al., 2011a)	Bomi	9000	94.46	29.52	1385	2002
490	(Xu et al., 2013a)	Phu Leuy mountain	9500	103.55	20.17	1605	2002
491	(Xu et al., 2013b)	Changting	9500	106.44	25.98	1870	2010
492	(Ha and Ha., 2006)	Seoul	2000	126.55	37.31	1771	2000

The following list provides the data type codes. A ‘9000’ indicates the tree-ring width chronology; ‘9500’ is the tree-ring isotope chronology; ‘2000’ is a long instrumental precipitation record.

The full name of ‘ITRDB’ is the International Tree Ring Data Bank (<https://www.ncdc.noaa.gov/data-access/paleoclimatology-data/datasets/tree-ring>); CTRDC is the Chinese Tree Ring Data Center

5 (<http://ctrdb.ibcas.ac.cn/index.asp>) and CTRD is the Chinese Tree Ring Dataset of China Meteorological Administration.

a) interannual



b) interdecadal

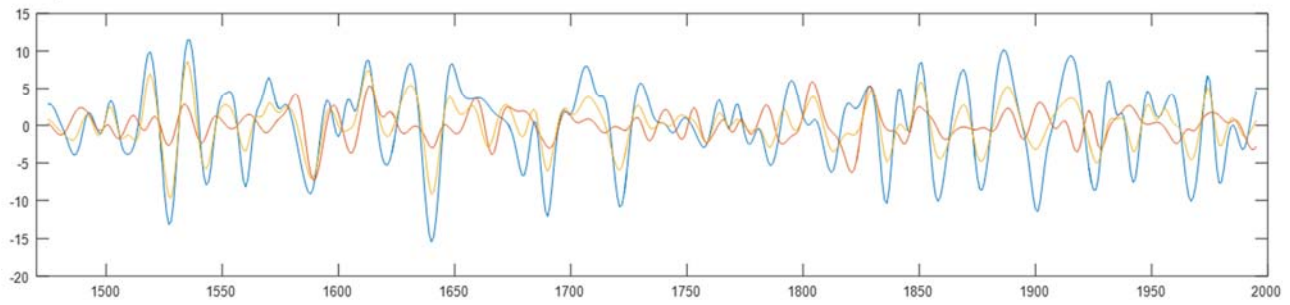


Figure s1: The intrinsic mode functions (IMFs) of the mean MJJAS precipitation anomalies for eastern China (blue line), western China (red line), and whole China (yellow line) over the past 521 years (AD 1475-1995) using the Ensemble Empirical mode decomposition (EEMD) method, including the interannual (a) and interdecadal (b) components.

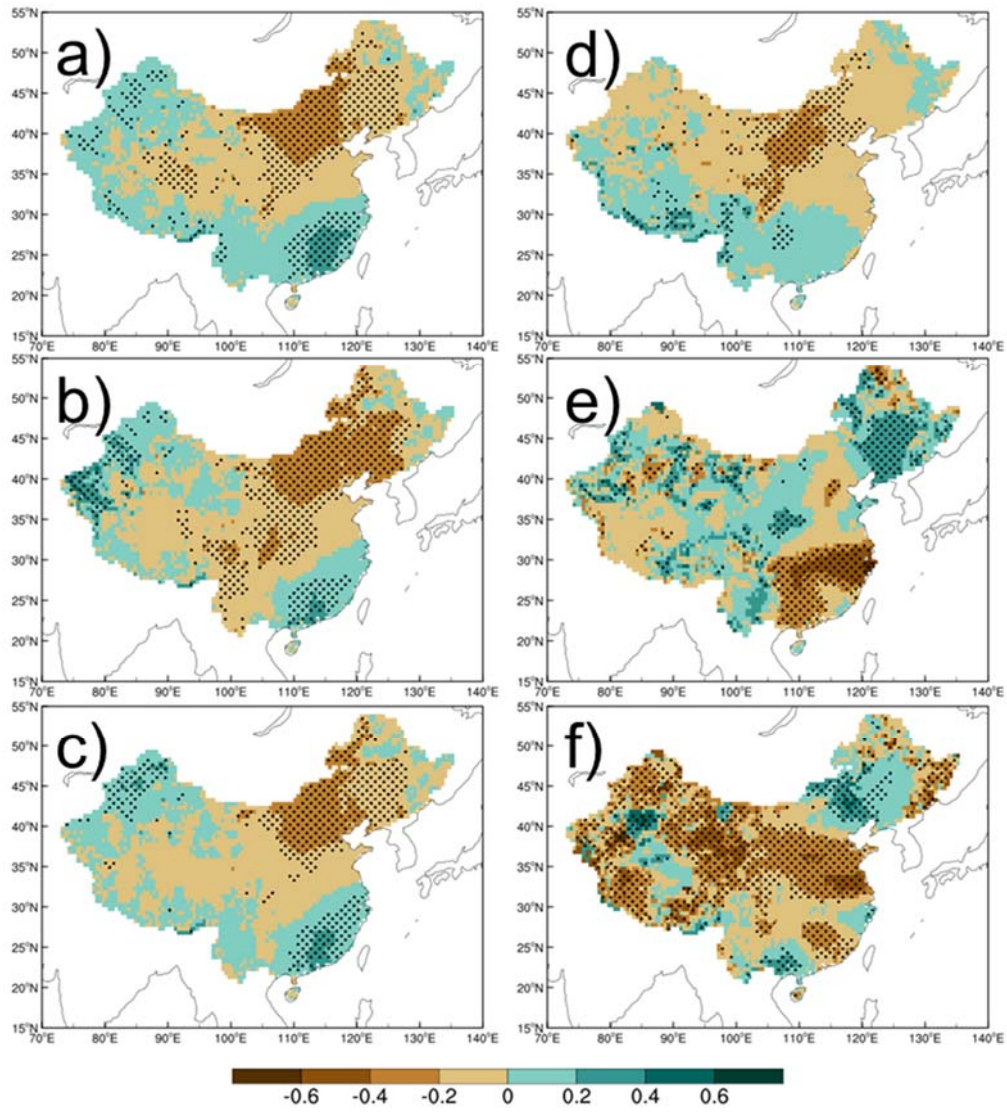


Figure s2: Correlation maps of reconstructed MJJAS mean precipitation anomalies for China with three reconstructed ENSO indices (a. McGregor et al., 2010; b. Li et al., 2013b; c. Cook et al., 2008) and three reconstructed PDO indices (d. D'Arrigo et al., 2001; e. D'Arrigo and Wilson, 2006; f. Shen et al., 2006), based on the raw data for ENSO and a 9-year running mean data for PDO.

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