

Supplement of *Clim. Past*, 12, 1879–1888, 2016
<http://www.clim-past.net/12/1879/2016/>
doi:10.5194/cp-12-1879-2016-supplement
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Supplement of

A 414-year tree-ring-based April–July minimum temperature reconstruction and its implications for the extreme climate events, northeast China

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Name of date set: The Laobai Mountain of Korean pine tree-ring temperature reconstruction (128°03'E, 44°06'N)

Original reference (tree-ring data):

Year	Tree-ring index																		
1600	0.66	1643	0.906	1686	0.842	1729	0.763	1772	1.204	1815	0.83	1858	1.166	1901	0.909	1944	0.893	1987	0.885
1601	0.612	1644	0.941	1687	0.917	1730	0.824	1773	1.321	1816	0.996	1859	1.14	1902	0.749	1945	0.96	1988	0.82
1602	0.695	1645	1.042	1688	0.812	1731	0.895	1774	1.245	1817	1.07	1860	1.227	1903	0.791	1946	0.781	1989	0.925
1603	0.862	1646	0.817	1689	0.653	1732	1.123	1775	1.495	1818	1.162	1861	1.039	1904	0.773	1947	0.784	1990	1.101
1604	0.861	1647	0.823	1690	0.693	1733	0.843	1776	1.131	1819	1.19	1862	1.307	1905	0.865	1948	0.748	1991	1.039
1605	0.854	1648	0.725	1691	0.741	1734	0.963	1777	1.248	1820	1.07	1863	1.281	1906	0.928	1949	0.755	1992	0.938
1606	1.195	1649	0.774	1692	0.771	1735	0.97	1778	1.099	1821	1.093	1864	1.505	1907	0.904	1950	0.984	1993	1.093
1607	0.92	1650	0.834	1693	0.946	1736	0.904	1779	1.409	1822	1.133	1865	1.079	1908	0.915	1951	0.954	1994	1.278
1608	0.957	1651	0.798	1694	0.924	1737	0.771	1780	1.307	1823	0.977	1866	0.992	1909	1.104	1952	0.952	1995	1.107
1609	0.466	1652	0.847	1695	0.911	1738	0.766	1781	1.06	1824	0.992	1867	1.207	1910	0.91	1953	0.835	1996	1.286
1610	0.801	1653	0.795	1696	1.051	1739	0.793	1782	1.225	1825	1.123	1868	1.272	1911	0.89	1954	0.907	1997	1.074
1611	0.775	1654	0.808	1697	1.07	1740	0.988	1783	1.062	1826	1.094	1869	0.971	1912	0.818	1955	0.811	1998	1.29
1612	0.759	1655	0.947	1698	0.908	1741	0.929	1784	1.138	1827	1.158	1870	1.115	1913	0.642	1956	0.669	1999	1.523
1613	0.865	1656	0.774	1699	0.853	1742	0.962	1785	1.074	1828	1.12	1871	0.921	1914	0.873	1957	0.626	2000	1.079
1614	0.86	1657	0.622	1700	0.885	1743	1.053	1786	0.92	1829	0.952	1872	0.906	1915	0.795	1958	0.569	2001	1.33
1615	0.861	1658	0.637	1701	0.889	1744	0.977	1787	1.066	1830	0.923	1873	1.083	1916	0.59	1959	0.545	2002	1.599
1616	1.055	1659	0.575	1702	0.911	1745	1.011	1788	1.148	1831	0.866	1874	1.152	1917	0.792	1960	0.617	2003	0.99
1617	0.8	1660	0.715	1703	1.059	1746	1.064	1789	0.881	1832	0.974	1875	0.973	1918	0.555	1961	0.692	2004	1.206
1618	0.968	1661	0.775	1704	1.1	1747	0.758	1790	0.917	1833	1.021	1876	1.077	1919	0.514	1962	0.933	2005	1.151
1619	0.828	1662	0.664	1705	0.884	1748	0.654	1791	0.882	1834	1.007	1877	0.965	1920	0.738	1963	0.875	2006	1.137

1620	0.866	1663	0.975	1706	0.933	1749	0.875	1792	1.232	1835	0.948	1878	1.025	1921	0.742	1964	0.725	2007	1.042
1621	0.788	1664	0.899	1707	1.06	1750	0.783	1793	1.32	1836	0.945	1879	0.864	1922	0.826	1965	0.616	2008	1.213
1622	0.902	1665	0.757	1708	1.005	1751	0.808	1794	1.158	1837	1.02	1880	0.884	1923	0.977	1966	0.751	2009	1.451
1623	0.902	1666	0.869	1709	0.865	1752	0.86	1795	1.045	1838	0.847	1881	0.985	1924	0.835	1967	0.704	2010	1.456
1624	1.011	1667	1.078	1710	0.933	1753	0.809	1796	1.153	1839	0.999	1882	0.915	1925	0.854	1968	0.764	2011	1.101
1625	1.098	1668	0.748	1711	1.131	1754	0.75	1797	0.868	1840	1.178	1883	0.826	1926	0.969	1969	0.765	2012	1.461
1626	0.883	1669	0.683	1712	1.143	1755	1	1798	0.984	1841	1.151	1884	0.799	1927	0.988	1970	0.865	2013	1.383
1627	1.02	1670	0.647	1713	0.914	1756	0.89	1799	0.955	1842	1.258	1885	0.721	1928	0.935	1971	0.954	2014	1.187
1628	1.106	1671	0.676	1714	0.861	1757	0.979	1800	1.08	1843	1.181	1886	1.01	1929	0.84	1972	1.056	2015	1.4
1629	0.994	1672	0.615	1715	0.968	1758	1.201	1801	1.144	1844	1.047	1887	0.934	1930	0.854	1973	1.04		
1630	1.07	1673	0.782	1716	0.992	1759	0.825	1802	1.04	1845	1.218	1888	1.008	1931	0.837	1974	1.057		
1631	0.849	1674	0.932	1717	0.929	1760	0.856	1803	1.363	1846	1.148	1889	1.176	1932	0.813	1975	0.891		
1632	0.937	1675	0.859	1718	1.098	1761	0.722	1804	1.042	1847	0.916	1890	0.88	1933	0.766	1976	0.923		
1633	0.805	1676	0.826	1719	1.038	1762	0.828	1805	1.043	1848	1.216	1891	0.971	1934	0.757	1977	0.837		
1634	0.917	1677	0.82	1720	1.097	1763	1.135	1806	1.043	1849	1.111	1892	0.911	1935	0.761	1978	0.988		
1635	0.925	1678	0.88	1721	0.835	1764	1.234	1807	1.045	1850	0.845	1893	0.916	1936	0.655	1979	0.975		
1636	0.926	1679	0.752	1722	0.824	1765	1.045	1808	1.214	1851	0.923	1894	0.929	1937	0.676	1980	0.979		
1637	0.97	1680	0.865	1723	0.96	1766	1.07	1809	1.002	1852	0.902	1895	1.195	1938	1.044	1981	0.832		
1638	0.828	1681	0.903	1724	0.97	1767	1.055	1810	0.977	1853	1.069	1896	0.987	1939	0.979	1982	0.889		
1639	1.001	1682	0.929	1725	0.989	1768	0.995	1811	0.878	1854	0.987	1897	0.93	1940	0.821	1983	1.151		
1640	0.802	1683	0.964	1726	0.981	1769	0.966	1812	0.829	1855	1.111	1898	0.856	1941	0.864	1984	0.863		
1641	0.908	1684	0.89	1727	0.846	1770	1.261	1813	0.887	1856	0.939	1899	0.821	1942	0.8	1985	0.89		
1642	0.747	1685	0.766	1728	0.702	1771	1.07	1814	0.895	1857	1.062	1900	0.795	1943	0.815	1986	0.973		