



*Supplement of*

**Drought reconstruction since 1796 CE based on tree-ring widths  
in the upper Heilongjiang (Amur) River basin in Northeast  
Asia and its linkage to Pacific Ocean climate variability**

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Name of date set: Drought reconstruction since 1796 CE in the Upper Heilongjiang (Amur) River Basin

Original reference (tree-ring data):

year            Tree-ring index

1796	1.405
1797	0.816
1798	1.267
1799	1.173
1800	0.829
1801	0.97
1802	1.087
1803	1.202
1804	1.257
1805	1.456
1806	0.844
1807	0.892
1808	0.904
1809	0.714
1810	1.031
1811	1.205
1812	0.65
1813	0.712
1814	0.88
1815	1.128
1816	0.973
1817	0.622
1818	0.67
1819	0.687
1820	1.379
1821	1.369
1822	0.77
1823	1.43
1824	0.937
1825	1.062
1826	0.463
1827	1.163
1828	0.937
1829	1.246
1830	1.307
1831	0.791
1832	0.822
1833	0.835
1834	0.877
1835	1.005
1836	0.995
1837	0.499
1838	0.964
1839	0.78
1840	0.461
1841	0.88
1842	0.415
1843	0.634
1844	0.979
1845	1.065

1846	0.767
1847	1.038
1848	1.033
1849	0.911
1850	0.84
1851	0.731
1852	1.051
1853	0.895
1854	0.763
1855	0.642
1856	0.771
1857	0.507
1858	0.588
1859	0.924
1860	0.65
1861	0.681
1862	0.986
1863	0.762
1864	0.519
1865	0.697
1866	0.37
1867	0.607
1868	0.831
1869	1.065
1870	1.124
1871	0.958
1872	0.937
1873	0.672
1874	0.701
1875	1.106
1876	0.626
1877	0.721
1878	0.842
1879	0.854
1880	0.942
1881	1.358
1882	1.413
1883	1.097
1884	1.316
1885	1.581
1886	1.165
1887	1.483
1888	1.47
1889	1.424
1890	1.278
1891	0.978
1892	0.94
1893	1.121
1894	1.333
1895	1.158
1896	1.133
1897	1.128
1898	1.32
1899	1.177

1900	1.097
1901	0.774
1902	0.871
1903	0.702
1904	0.819
1905	0.625
1906	0.971
1907	0.637
1908	0.977
1909	1.082
1910	1.228
1911	1.232
1912	0.862
1913	0.662
1914	1.225
1915	1.444
1916	1.148
1917	0.647
1918	1.188
1919	0.884
1920	0.895
1921	1.041
1922	1.241
1923	1.119
1924	0.955
1925	1.279
1926	0.722
1927	0.849
1928	1.042
1929	1.315
1930	1.228
1931	0.989
1932	1.425
1933	1.248
1934	1.285
1935	0.731
1936	0.758
1937	0.883
1938	0.91
1939	1.099
1940	1.067
1941	0.794
1942	0.634
1943	0.98
1944	0.568
1945	0.815
1946	1.006
1947	0.959
1948	1.055
1949	1.232
1950	0.79
1951	0.309
1952	1.088
1953	1.202

1954	1.17
1955	1.396
1956	1.481
1957	1.773
1958	1.577
1959	1.351
1960	1.334
1961	0.718
1962	1.239
1963	0.863
1964	1.082
1965	0.699
1966	0.971
1967	0.823
1968	0.907
1969	0.891
1970	1.099
1971	0.982
1972	0.824
1973	1.357
1974	0.981
1975	1.247
1976	1.063
1977	1.188
1978	1.113
1979	0.831
1980	1.222
1981	1.213
1982	1.098
1983	1.074
1984	1.279
1985	1.252
1986	0.879
1987	0.572
1988	0.937
1989	1.302
1990	1.256
1991	1.128
1992	0.714
1993	0.928
1994	0.72
1995	0.775
1996	0.522
1997	0.639
1998	0.933
1999	0.958
2000	0.759
2001	0.618
2002	0.883
2003	0.779
2004	0.86
2005	0.878
2006	0.847
2007	0.532

2008	0.79
2009	0.648
2010	0.75
2011	0.576
2012	0.936
2013	1.189
2014	1.496
2015	1.547
2016	0.933
2017	0.696
2018	1.244
2019	0.703
2020	0.917