

Processed Tree Ring Chronologies

year	MH(1)	MWO	MH(2)	MSB	MPP	MoCO	MoTP	MiCO
1754	1.175	1.344	1.064	1.288	1.295	0.951	0.918	1.38
1755	1.04	1.27	0.866	1.252	1.043	1.007	0.896	1.158
1756	1.222	1.207	1.166	1.26	1.201	0.904	0.941	1.196
1757	0.933	0.954	0.859	0.628	0.815	0.992	0.679	0.929
1758	0.96	1.063	0.855	0.465	1.316	0.936	0.7	1.155
1759	1.118	1.004	1.128	0.996	0.739	0.999	1.013	1.019
1760	1.14	1.044	1.097	1.268	0.937	0.931	1.16	1.197
1761	1.228	0.964	1.009	1.382	0.796	0.932	1.08	0.895
1762	1.003	0.904	0.795	1.131	0.839	0.86	0.742	1.043
1763	1.168	0.966	0.928	0.942	1.205	1.223	1.204	1.202
1764	0.964	0.811	0.904	0.885	0.88	1.103	1.088	0.978
1765	0.869	1.027	0.915	0.831	0.922	1.069	0.93	1.197
1766	0.898	1.188	0.96	0.764	0.823	1.237	0.892	1.393
1767	0.704	0.983	0.744	0.851	0.739	0.803	0.935	1.062
1768	0.913	1.171	0.649	0.895	0.866	0.819	0.912	1.04
1769	0.964	0.954	0.648	0.885	0.701	0.727	0.932	0.917
1770	0.831	0.905	0.781	0.442	0.536	0.825	0.781	0.77
1771	0.872	0.899	0.858	0.761	1.048	0.759	1	0.891
1772	0.893	0.71	0.878	0.909	0.847	0.73	1.034	0.78
1773	0.931	0.735	0.811	0.77	0.719	0.851	0.843	0.862
1774	1.065	0.89	0.982	0.93	0.902	1.01	1.242	1.089
1775	1.089	0.979	1.231	0.982	1.194	1.205	1.103	0.946
1776	1.147	0.902	1.234	1.2	1.051	0.908	1.145	1.008
1777	1.144	1.137	1.243	1.068	1.434	1.142	1.093	1.275
1778	1.072	1.093	1.106	1.17	1.111	1.134	1.371	1.047
1779	1.041	1.235	1.1	1.149	1.296	1.034	1.237	0.996
1780	0.814	1.221	0.925	1.09	0.527	1.035	1.446	1.164
1781	0.963	1.553	0.978	1.336	1.278	1.035	1.074	1.072
1782	1.081	1.25	1.112	1.046	1.057	0.851	0.981	0.982
1783	0.936	1.006	1.01	0.983	1.123	1.046	1.19	0.936
1784	0.875	0.867	0.872	0.495	0.742	0.78	0.962	0.879
1785	0.87	0.863	0.883	0.656	0.708	0.807	0.915	0.847
1786	1.049	0.992	1.163	0.616	0.988	0.897	1.089	0.871
1787	1.092	1.052	1.185	0.542	0.994	1.196	0.99	0.967
1788	1.093	1.159	1.277	1.022	1.245	1.186	1.182	1.013

1789	1.123	0.956	1.145	1.19	1.033	1.058	1.105	0.809
1790	1.099	1.087	1.046	0.868	1.128	1.069	1.205	0.892
1791	1.084	0.892	0.97	0.761	0.968	0.994	0.809	0.784
1792	0.851	0.875	0.747	0.682	0.905	1.039	0.805	0.711
1793	0.842	0.946	0.797	0.669	1.309	0.976	0.887	0.87
1794	0.827	1.109	0.7	0.722	0.738	1.084	0.862	0.857
1795	0.84	0.964	0.705	0.75	1.081	1.043	1.014	0.842
1796	0.813	0.895	0.709	0.69	0.659	1.018	1.011	1.005
1797	0.91	0.966	0.984	0.895	0.952	0.959	0.952	1.146
1798	0.743	0.985	0.785	1.048	0.375	0.855	0.974	1.086
1799	0.741	0.758	0.794	0.85	0.349	0.809	0.831	1.118
1800	0.807	0.922	0.804	0.524	0.999	0.762	1.021	0.857
1801	0.935	1.09	1.114	0.79	0.977	0.937	0.953	1.217
1802	0.993	1.198	1.151	0.988	1.082	1.001	1.071	1.296
1803	1.084	0.934	1.019	1.128	0.805	0.791	0.617	0.929
1804	0.917	1.011	0.832	1.032	0.833	0.843	0.824	0.986
1805	1.013	0.893	1.001	0.861	0.962	0.882	0.759	0.96
1806	0.884	0.775	0.744	0.887	0.653	0.864	0.663	0.857
1807	0.894	1.07	1.054	1.097	0.907	1.055	0.958	1.014
1808	1.081	1.069	1.236	1.311	1.038	1.03	1.044	0.995
1809	1.155	0.927	1.221	1.023	1.285	0.726	0.692	1.121
1810	0.995	0.999	1.16	0.864	0.771	0.937	1.101	1.023
1811	1.001	0.977	1.061	0.97	1.048	0.874	1.198	0.932
1812	1.106	1.162	1.147	1.215	1.014	1.06	1.192	1.084
1813	1.115	1.133	1.079	1.171	1.028	1.026	1.113	1.06
1814	1.117	1.17	1.175	1.081	1.201	1.083	1.104	0.922
1815	1.255	1.133	1.405	1.23	1.372	1.12	1.365	1.089
1816	1.077	0.87	1.015	0.87	0.757	1.023	1.326	0.805
1817	0.971	0.916	1.171	0.978	1.104	0.998	1.048	0.919
1818	1.021	0.896	1.024	1.134	0.713	0.815	0.886	0.969
1819	0.643	0.81	0.796	0.842	0.716	0.945	1.079	0.988
1820	0.794	0.801	0.788	0.56	0.994	0.877	0.946	0.755
1821	0.971	1.018	0.951	0.8	1.06	1.026	1.127	0.88
1822	0.979	0.949	1.249	1.065	1.178	0.988	1.205	0.757
1823	0.884	0.893	1.051	1.056	1.263	1.049	1.135	0.791
1824	1.041	1.09	1.134	0.873	1.336	1.161	1.188	0.951
1825	1.042	1.099	1.141	1.17	0.897	0.974	1.048	0.917
1826	0.701	0.867	0.677	0.915	0.516	1.023	0.889	0.953
1827	1.09	1.071	1.012	0.923	1.038	1.161	1.032	1
1828	1.204	1.295	1.286	1.527	1.179	1.351	1.138	0.974

1829	1.059	1.05	1.018	1.299	0.964	1.083	0.983	0.954
1830	1.203	1.132	1.192	1.2	0.947	1.307	0.984	1.239
1831	1.206	1.042	1.155	1.115	1.314	1.108	0.982	1.143
1832	1.158	1.013	1.079	0.899	1.232	1.156	1.248	1.113
1833	1.249	1.291	1.177	1.52	1.295	1.107	1.273	1.288
1834	1.37	1.07	1.41	1.515	1.301	1.159	1.289	1.304
1835	1.071	0.945	1.096	0.812	1.13	1.012	0.818	1.042
1836	0.953	0.919	0.948	0.975	1.174	0.861	0.918	1.038
1837	1.092	1.012	1.14	1.216	1.286	0.905	0.764	1.108
1838	1.133	0.878	1.253	1.021	0.998	0.782	0.805	0.988
1839	0.827	0.841	0.932	0.834	1.279	1.035	0.678	1.323
1840	0.869	0.741	1.061	0.643	1.019	0.724	0.549	0.881
1841	0.901	0.963	0.947	0.643	1.19	0.946	0.863	0.929
1842	1.075	1.009	1.135	1.195	1.272	1.093	0.82	1.078
1843	0.929	0.774	0.92	0.902	0.803	0.831	0.904	0.902
1844	0.957	0.957	0.994	0.907	1.103	1.093	1.056	1.041
1845	0.934	0.764	0.95	0.654	0.67	0.817	0.969	0.978
1846	1.004	1.113	1.005	0.818	1.427	0.997	0.953	1.08
1847	0.98	0.997	1.032	0.797	0.636	1.063	1.116	0.971
1848	1.001	1.017	1.091	0.789	1.255	1.059	1.065	0.865
1849	0.943	0.648	0.904	0.568	0.567	0.878	0.852	0.812
1850	0.962	0.908	0.915	0.776	0.842	1.17	0.996	1.023
1851	1.07	1.073	1.106	1.14	0.606	1.138	1.192	1.256
1852	0.928	0.856	1.081	0.845	0.642	0.912	0.946	0.726
1853	0.896	1.035	0.952	0.827	0.926	1.101	0.93	1.007
1854	0.957	0.957	0.857	0.809	0.468	1.002	1.059	0.931
1855	0.908	1.076	0.837	1.008	0.961	1.149	1.026	1.072
1856	0.849	0.921	0.899	1	0.684	0.879	1.04	0.781
1857	0.908	1.115	1.044	0.951	0.921	0.937	0.883	1.017
1858	1.006	0.897	1.157	0.957	0.81	0.707	0.882	0.833
1859	0.953	1.086	1.034	1.049	0.887	0.999	0.948	1.066
1860	1.015	0.976	1.048	1.108	1.174	0.905	0.759	1.097
1861	0.895	0.83	0.75	1.172	1.093	0.851	1.009	0.97
1862	0.881	1.083	0.969	1.243	0.959	1.088	1.134	1.111
1863	0.972	0.966	0.906	1.034	0.918	1.01	1.303	0.974
1864	0.992	0.903	0.838	0.926	0.696	0.866	1.02	0.828
1865	1.085	0.919	0.904	0.909	1.116	0.917	0.733	0.901
1866	1.024	0.988	0.954	0.931	0.916	1.077	1.087	1.055
1867	1.073	1.025	1.017	0.886	1.248	1.088	0.878	0.86
1868	1.162	1.079	1.099	0.981	0.98	0.998	0.88	0.889

1869	1.077	1.122	0.857	1.167	1.252	1.139	1.162	1.187
1870	1.029	0.923	0.808	0.978	1.126	0.873	1.066	0.869
1871	0.876	1.017	0.746	0.642	1.225	1.116	0.945	0.939
1872	0.771	0.931	0.796	0.818	0.859	0.93	1.147	0.98
1873	0.749	0.758	0.741	0.678	0.555	0.793	0.834	0.868
1874	1.049	1.165	1.059	1.111	1.038	1.091	0.849	1.206
1875	0.981	0.833	1.168	0.877	0.611	0.846	1.111	0.932
1876	1.05	1.053	1.07	0.956	0.873	1.04	0.911	0.995
1877	0.941	1.029	1.04	0.882	1.066	1.002	0.8	0.986
1878	1.079	1.184	1.078	1.118	1.221	1.271	0.993	1.074
1879	0.971	1.194	1.034	1.273	1.096	1.252	1.214	0.973
1880	0.937	1.08	0.906	1.023	1.182	1.101	0.998	1.099
1881	0.906	1.25	0.89	1.286	1.223	1.221	0.87	1.192
1882	1.122	1.081	1.058	1.027	1.288	1.099	1.082	1.045
1883	1.034	1.103	0.898	0.861	1.389	1.057	1.014	0.926
1884	1.051	0.864	1.066	0.697	0.993	1.091	0.888	0.924
1885	0.906	1.017	1.02	0.684	0.716	0.915	0.671	0.87
1886	0.886	0.882	1.049	1.096	0.904	0.9	0.746	0.891
1887	0.877	1.087	0.84	0.989	0.763	0.887	0.976	0.902
1888	0.848	0.906	0.829	0.845	0.924	0.833	0.838	0.975
1889	1.134	1.411	1.083	1.424	1.196	1.122	0.826	1.307
1890	1.359	1.076	1.248	1.198	1.116	1.07	1.138	1.045
1891	1.21	0.808	1.012	0.9	1.27	0.917	1.072	0.884
1892	1.403	1.15	1.155	1.097	1.283	1.112	1.229	0.989
1893	1.204	0.929	1.06	0.988	1.052	0.878	1.024	1.009
1894	0.988	0.869	0.991	0.734	1.049	0.962	0.731	1.035
1895	0.867	0.887	0.825	0.622	0.687	0.778	0.816	0.717
1896	0.826	0.906	0.74	0.949	0.603	0.929	0.86	0.904
1897	1.077	0.981	1.187	1.088	1.23	1.118	0.891	1.105
1898	1.159	0.917	1.223	0.997	1.34	1.018	1.204	1.039
1899	0.767	0.843	0.86	1.051	0.882	0.803	1.057	0.902
1900	0.786	0.972	0.785	1.187	1.144	0.869	0.89	0.827
1901	0.855	1.021	0.973	1.175	1.124	1.029	0.8	1.018
1902	1.282	1.27	1.257	1.297	1.419	1.149	1.062	1.122
1903	1.191	1.044	1.224	1.009	0.596	1.029	1.015	1.154
1904	1.194	1.188	1.156	1.023	1.156	1.126	1.013	1.137
1905	1.035	0.915	0.966	0.794	0.962	0.877	0.731	1.081
1906	1.154	1.213	1.061	1.146	0.995	1.048	1.086	1.249
1907	1.243	0.964	1.174	0.966	0.53	0.904	1.017	0.992
1908	1.1	1.018	1.121	0.945	1.102	0.978	1.051	0.863

1909	0.836	0.852	1.009	0.679	0.597	0.973	0.866	0.915
1910	1	0.862	1.076	0.78	1.022	0.983	1.052	0.895
1911	0.862	0.899	0.942	0.756	0.57	0.81	0.913	0.903
1912	0.777	0.844	0.823	0.754	1.042	0.948	0.907	0.869
1913	0.917	0.915	0.99	0.709	0.97	0.91	0.986	0.742
1914	0.844	0.935	0.903	1.09	0.879	0.949	1.089	0.799
1915	0.987	1.028	0.811	1.274	1.258	1.047	1.238	0.975
1916	1.216	1.159	1.068	1.605	1.211	1.152	1.281	1.022
1917	1.21	1.131	1.204	1.52	1.135	1.147	0.949	1.081
1918	0.888	0.835	0.908	1.229	1.003	1.06	0.76	0.961
1919	0.948	1.019	0.994	1.408	0.971	1.023	1.231	1.11
1920	0.977	1.271	0.884	1.461	1.143	1.055	0.936	1.134
1921	0.927	1.007	0.873	1.272	0.378	1.086	1.256	1.15
1922	1.139	1.204	1.153	1.416	0.502	1.044	1.176	1.127
1923	0.891	0.923	0.968	0.952	0.457	0.813	1.015	0.985
1924	0.975	0.998	0.869	0.847	0.755	0.877	0.843	0.892
1925	1.009	0.909	0.952	0.902	0.916	0.941	0.883	1.136
1926	0.828	0.959	0.844	0.967	0.787	0.912	0.95	0.842
1927	1.01	1.034	1.043	1.204	1.286	1.037	1.061	0.881
1928	1.108	1.091	1.123	1.327	1.21	1.079	1.048	1.076
1929	1.122	0.927	1.079	1.253	0.848	1.055	0.963	1.037
1930	1.107	1.13	0.987	1.109	1.139	1.111	0.886	0.93
1931	1.125	1.21	1.007	1.365	0.699	1.06	0.993	1.05
1932	1.068	1.279	1.012	1.229	0.866	1.146	1.341	1.11
1933	0.872	0.835	0.833	0.742	0.969	1.013	1.179	0.839
1934	0.846	1.141	0.85	0.757	1.16	1.236	0.996	0.935
1935	1.107	1.168	1.132	1.037	1.22	1.175	0.959	1.035
1936	0.905	0.877	0.926	0.782	1.161	1.031	0.792	0.708
1937	1.033	1.115	1.052	0.913	1.401	0.997	1.091	0.969
1938	1.23	1.12	1.104	1.427	1.423	0.984	1.352	1.004
1939	1.12	0.959	0.988	1.241	1.195	0.925	0.93	0.936
1940	0.925	0.962	0.842	0.965	0.879	1	0.835	0.937
1941	1.001	0.982	0.929	1.107	0.99	0.969	1.112	0.79
1942	0.949	0.915	0.959	0.872	1.255	0.969	1.044	0.833
1943	1.018	0.944	1.043	0.925	0.844	0.911	1.019	0.863
1944	0.71	0.905	0.811	0.782	1.043	0.91	0.972	0.973
1945	0.85	0.908	0.876	0.975	1.284	0.95	1.244	1.014
1946	1.249	1.112	1.183	1.091	1.08	0.993	1.186	1.052
1947	1.098	1.064	1.057	1.221	1.175	0.965	1.058	1.224
1948	0.97	0.838	1.025	1.084	0.903	0.795	1.006	1

1949	0.757	0.815	0.894	0.774	0.843	0.83	1.005	0.886
1950	0.964	0.975	0.932	0.79	0.75	0.955	0.968	1.073
1951	1.221	1.016	1.21	1.185	0.833	0.985	1.323	1.259
1952	1.063	1.008	1.011	1.178	0.642	0.95	1.315	1.116
1953	0.988	1.082	0.921	0.846	0.718	1.164	1.036	1.142
1954	0.934	0.96	0.838	0.71	0.692	1.021	1.015	1.013
1955	1.034	1.084	1.009	0.882	1.086	1.1	1.119	1.064
1956	0.917	1.077	0.9	0.903	1.178	0.897	0.821	0.899
1957	1.018	0.943	0.958	1.017	0.818	0.88	0.717	0.922
1958	0.826	0.995	0.98	1.04	1.329	1.05	0.858	1.143
1959	0.966	0.951	1.123	1.034	1.152	0.899	0.959	0.789
1960	0.901	1.079	0.933	0.617	1.306	0.935	1.13	1.096
1961	1.285	1.225	1.329	0.82	1.167	1.056	1.182	1.294
1962	0.872	0.819	0.856	0.604	0.719	0.71	0.672	0.882
1963	0.989	0.911	1.059	0.418	0.914	0.777	0.968	0.866
1964	0.755	0.838	0.783	0.727	0.622	0.837	0.635	0.91
1965	0.406	0.685	0.539	0.275	0.738	0.735	0.591	0.747
1966	0.85	0.719	0.791	0.553	0.584	0.881	0.751	0.868
1967	1.041	0.862	0.961	0.695	1.107	1.037	0.98	0.922
1968	1.098	0.918	1.087	0.827	1.06	0.976	1.212	0.909
1969	1.072	0.974	1.163	0.951	1.408	1.056	1.041	1.068
1970	1.131	0.923	1.011	1.03	1.021	0.911	1.085	0.946
1971	1.084	1.008	1.055	1.092	1.03	0.936	0.877	0.946
1972	0.976	1.243	0.915	1.368	1.009	1.122	1.177	1.279
1973	1.262	1.1	1.211	1.213	1.227	1.155	1.352	1.025
1974	1.249	1.219	1.177	1.029	1.266	1.256	1.204	1.178
1975	1.38	1.247	1.274	1.15	0.781	1.234	1.061	0.983
1976	1.181	1.175	1.12	1.172	1.188	1.125	1.032	1.176
1977	1.098	0.905	1.042	1.112	0.93	0.988	1.05	0.89
1978	0.99	1.039	0.87	1.015	1.215	1.003	1.083	0.974
1979	1.02	1.058	0.875	0.965	0.616	0.994	0.997	1.169
1980	1.014	1.009	0.948	0.766	0.836	0.965	0.837	1.182
1981	0.946	0.622	0.99	0.369	1.034	0.667	0.789	1.084
1982	0.889	0.787	0.919	0.901	1.325	1.022	0.924	1.033
1983	0.876	0.835	0.965	1.034	0.916	1.164	0.984	0.882
1984	0.724	0.981	0.85	0.704	1.23	1.079	0.796	0.902
1985	0.881	1.077	1.053	1.049	1.262	0.987	1.183	0.975
1986	1.075	1.006	1.057	1.235	1.142	1.139	1.236	1.036
1987	1.048	0.888	0.97	0.856	0.947	0.986	1.021	1.038
1988	0.805	1.025	0.88	0.866	0.898	1.185	0.917	0.948

1989	1.155	1.127	1.111	1.092	1.382	1.105	1.068	1.28
1990	1.219	1.118	1.352	1.462	1.232	1.04	1.091	1.103
1991	1.085	0.841	1.142	1.062	1.01	0.86	0.831	0.945
1992	0.942	1.245	1.092	1.421	1.276	1.123	1.046	1.073
1993	0.961	0.95	0.904	1.34	0.771	0.887	0.76	0.858
1994	1.02	1.119	1.05	1.106	1.308	1.079	1.035	1.05
1995	1.016	1.168	1.186	1.027	0.909	0.939	1.009	1.005
1996	1.048	1.062	1.113	1.125	1.023	0.868	0.956	1.097
1997	0.994	1.006	1.016	1.117	0.578	0.831	0.893	1.044
1998	0.811	1.143	0.931	1.256	1.178	1.131	1.179	1.33
1999	0.786	0.805	0.87	0.878	0.924	0.898	0.888	1.024