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Dataset for

**Spatial variability in growth-climate relationships of Amur cork tree (*Phellodendron amurense*) and their connections with PDO in northeast China**

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**Introduction**

In this work, we used a dendrochronological approach to identify the spatial variability in growth-climate relationships of Amur cork (*Phellodendron amurense*), using a network of 12 spatially independent sites across its natural range in northeast China. All sampled sites had minimal human disturbance and are typical broadleaf-Korean pine forests, which is the zonal vegetation in the northern temperate subzone of northeast China. Amur cork tree increment cores from each of these tree-ring sites were collected in the early summer of 2012 and 2014. A detailed description of tree-ring index data collection procedures including laboratory processing can be found in the Methods section *2.2 Tree-ring chronology development* of our paper.

Data\_S1

Tree-ring index of each site are following:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Year | Sampling site | | | | | | | | | | | |
| BSL | CBS | QLT | LTD | LGS | SH | FZ | FHS | HX | LS | MDJ | TZG |
| 1790 |  | 1.346 |  |  |  |  |  |  |  |  |  |  |
| 1791 |  | 1.527 |  |  |  |  |  |  |  |  |  |  |
| 1792 |  | 1.397 |  |  |  |  |  |  |  |  |  |  |
| 1793 |  | 1.577 |  |  |  |  |  |  |  |  |  |  |
| 1794 |  | 0.959 |  |  |  |  |  |  |  |  |  |  |
| 1795 |  | 1.083 |  |  |  |  |  |  |  |  |  |  |
| 1796 |  | 1.469 |  |  |  |  |  |  |  |  |  |  |
| 1797 |  | 1.191 |  |  |  |  |  |  |  |  |  |  |
| 1798 |  | 0.946 |  |  |  |  |  |  |  |  |  |  |
| 1799 |  | 0.715 |  |  |  |  |  |  |  |  |  |  |
| 1800 |  | 0.585 |  |  |  |  |  |  |  |  |  |  |
| 1801 |  | 0.684 |  |  |  |  |  |  |  |  |  |  |
| 1802 |  | 0.886 |  |  |  |  |  |  |  |  |  |  |
| 1803 |  | 0.849 |  |  |  |  |  |  |  |  |  |  |
| 1804 |  | 1.408 |  |  |  |  |  |  |  |  |  |  |
| 1805 |  | 0.641 |  |  |  |  |  |  |  |  |  |  |
| 1806 |  | 0.757 |  |  |  |  |  |  |  |  |  |  |
| 1807 |  | 0.681 |  |  |  |  |  |  |  |  |  |  |
| 1808 |  | 1.086 |  |  |  |  |  |  |  |  |  |  |
| 1809 |  | 0.887 |  |  |  |  |  |  |  |  |  |  |
| 1810 |  | 1.029 |  |  |  |  |  |  |  |  |  |  |
| 1811 |  | 0.858 |  |  |  |  |  |  |  |  |  |  |
| 1812 |  | 0.865 |  |  |  |  |  |  |  |  |  |  |
| 1813 |  | 0.562 |  |  |  |  |  |  |  |  |  |  |
| 1814 |  | 0.643 |  |  |  |  |  |  |  |  |  |  |
| 1815 |  | 0.659 |  |  |  |  |  |  |  |  |  |  |
| 1816 |  | 0.615 |  |  |  |  |  |  |  |  |  |  |
| 1817 |  | 0.564 |  |  |  |  |  |  |  |  |  |  |
| 1818 |  | 0.594 |  |  |  |  |  |  |  |  |  |  |
| 1819 |  | 0.555 |  |  |  |  |  |  |  |  |  |  |
| 1820 |  | 0.846 |  |  |  |  |  |  |  |  |  |  |
| 1821 |  | 0.86 |  |  |  |  |  |  |  |  |  |  |
| 1822 |  | 1.053 |  |  |  |  |  |  |  |  |  |  |
| 1823 |  | 0.984 |  |  |  |  |  |  |  |  |  |  |
| 1824 |  | 1.64 |  |  |  |  |  |  |  |  |  |  |
| 1825 |  | 0.795 |  |  |  |  |  |  |  |  |  |  |
| 1826 |  | 1.17 |  |  |  |  |  |  |  |  |  |  |
| 1827 |  | 0.856 |  |  |  |  |  |  |  |  |  |  |
| 1828 |  | 1.184 |  |  |  |  |  |  |  |  |  |  |
| 1829 |  | 1.009 |  |  |  |  |  |  |  |  |  |  |
| 1830 |  | 1.274 |  |  |  |  |  |  |  |  |  |  |
| 1831 |  | 1.151 |  |  |  |  |  |  |  |  |  |  |
| 1832 |  | 1.242 |  |  |  |  |  |  |  |  |  |  |
| 1833 |  | 1.014 |  |  |  |  |  |  |  |  |  |  |
| 1834 |  | 1.507 |  |  |  |  |  |  |  |  |  |  |
| 1835 |  | 1.1 |  |  |  |  |  |  |  |  |  |  |
| 1836 |  | 0.961 |  |  |  |  |  |  |  |  |  |  |
| 1837 |  | 0.84 |  |  |  |  |  |  |  |  |  |  |
| 1838 |  | 0.786 |  |  |  |  |  |  |  |  |  |  |
| 1839 |  | 0.799 |  |  |  |  |  |  |  |  |  |  |
| 1840 |  | 0.92 |  |  |  |  |  |  |  |  |  |  |
| 1841 |  | 0.977 |  |  |  |  |  |  |  |  |  |  |
| 1842 |  | 0.797 |  |  |  |  |  |  |  |  |  |  |
| 1843 |  | 1.104 |  |  |  |  |  |  |  |  |  |  |
| 1844 |  | 1.245 |  |  |  |  |  |  |  |  |  |  |
| 1845 |  | 0.643 |  |  |  |  |  |  |  |  |  |  |
| 1846 |  | 1.006 |  |  |  |  |  |  |  |  |  |  |
| 1847 |  | 0.904 |  |  |  |  |  |  |  |  |  |  |
| 1848 |  | 0.854 |  |  |  |  |  |  |  |  |  |  |
| 1849 |  | 0.648 |  |  |  |  |  |  |  |  |  |  |
| 1850 |  | 0.673 |  |  |  |  |  |  |  |  |  |  |
| 1851 |  | 0.677 |  |  |  |  |  |  |  |  |  |  |
| 1852 |  | 0.558 |  |  |  |  |  |  |  |  |  |  |
| 1853 |  | 0.528 |  |  |  |  |  |  |  |  |  |  |
| 1854 |  | 0.534 |  |  |  |  |  |  |  |  |  |  |
| 1855 |  | 0.622 |  |  |  |  |  |  |  |  |  |  |
| 1856 |  | 0.694 |  |  |  |  |  |  |  |  |  |  |
| 1857 |  | 0.659 |  |  |  |  |  |  |  |  |  |  |
| 1858 |  | 0.892 |  |  |  |  |  |  |  |  |  |  |
| 1859 |  | 0.97 |  |  |  |  |  |  |  |  |  |  |
| 1860 |  | 0.852 |  |  |  |  |  |  |  |  |  |  |
| 1861 |  | 0.986 |  |  |  |  |  |  |  |  |  |  |
| 1862 |  | 0.862 |  |  |  |  |  |  |  |  |  |  |
| 1863 |  | 1.099 |  |  |  |  |  |  |  |  |  |  |
| 1864 |  | 0.934 |  |  |  |  |  |  |  |  |  |  |
| 1865 |  | 0.563 |  |  |  |  |  |  |  |  |  |  |
| 1866 |  | 0.929 |  |  |  |  |  |  |  |  |  |  |
| 1867 |  | 0.717 |  |  |  |  |  |  |  |  |  |  |
| 1868 |  | 0.777 |  |  |  |  |  |  |  |  |  |  |
| 1869 |  | 0.704 |  |  |  |  |  |  |  |  |  |  |
| 1870 |  | 0.858 |  |  |  |  |  |  |  |  |  |  |
| 1871 |  | 1.13 |  |  |  |  |  |  |  |  |  |  |
| 1872 |  | 0.678 |  |  |  |  |  |  |  |  |  |  |
| 1873 |  | 0.762 |  |  |  |  |  |  |  |  |  |  |
| 1874 |  | 1.02 |  |  |  |  |  |  |  |  |  |  |
| 1875 |  | 1.022 |  |  |  |  |  |  |  |  |  |  |
| 1876 |  | 0.7 |  |  |  |  |  |  |  |  |  |  |
| 1877 |  | 0.613 |  |  |  |  |  |  |  |  |  |  |
| 1878 |  | 0.918 |  |  |  |  |  |  |  |  |  |  |
| 1879 |  | 1.07 |  |  |  |  |  |  |  |  |  |  |
| 1880 |  | 0.891 |  |  |  |  |  |  |  |  |  |  |
| 1881 |  | 1.119 |  |  |  |  |  |  |  |  |  |  |
| 1882 |  | 0.893 |  |  |  |  |  |  |  |  |  |  |
| 1883 |  | 0.85 |  |  |  |  |  |  |  |  |  |  |
| 1884 |  | 0.981 |  |  |  |  |  |  |  |  |  |  |
| 1885 |  | 0.932 |  |  |  |  |  |  |  |  |  |  |
| 1886 |  | 0.694 |  |  |  |  |  | 1.718 |  |  |  |  |
| 1887 |  | 0.826 |  |  |  |  | 1.078 | 1.549 |  |  |  |  |
| 1888 |  | 1.037 |  |  |  |  | 0.798 | 1.927 |  |  |  |  |
| 1889 |  | 1.311 |  |  |  |  | 0.738 | 1.424 |  |  |  |  |
| 1890 |  | 1.325 |  |  |  |  | 0.648 | 1.153 |  |  |  |  |
| 1891 |  | 1.217 |  |  |  |  | 0.685 | 0.837 |  |  |  |  |
| 1892 |  | 1.116 |  |  |  |  | 0.94 | 0.927 |  |  |  |  |
| 1893 |  | 0.9 |  |  |  |  | 1.063 | 0.811 |  |  |  |  |
| 1894 |  | 0.975 |  |  |  |  | 1.453 | 1.363 |  |  |  |  |
| 1895 |  | 0.99 |  |  |  |  | 1.25 | 0.796 |  |  |  |  |
| 1896 |  | 1.309 |  |  |  |  | 0.917 | 1.312 |  |  |  |  |
| 1897 |  | 1.291 |  |  |  |  | 1.453 | 1.657 |  |  |  |  |
| 1898 |  | 1.028 |  |  |  |  | 0.689 | 0.835 |  |  |  |  |
| 1899 |  | 0.849 |  |  |  |  | 1.013 | 0.981 |  |  |  |  |
| 1900 |  | 0.981 |  |  |  |  | 0.764 | 0.81 |  |  |  |  |
| 1901 |  | 0.944 |  |  |  |  | 0.724 | 1.283 |  |  |  |  |
| 1902 |  | 1.189 |  |  |  |  | 0.863 | 0.773 |  |  |  |  |
| 1903 |  | 1.385 |  |  |  |  | 0.954 | 0.911 |  |  |  |  |
| 1904 |  | 0.952 |  |  |  |  | 0.683 | 0.677 |  |  |  |  |
| 1905 |  | 0.961 |  |  |  |  | 0.906 | 0.682 |  |  |  |  |
| 1906 |  | 1.127 |  |  |  |  | 0.619 | 0.583 |  |  |  |  |
| 1907 | 0.97 | 0.672 |  |  |  |  | 0.469 | 0.47 |  |  |  |  |
| 1908 | 1.251 | 0.679 |  |  |  |  | 0.765 | 0.4 |  |  |  |  |
| 1909 | 1.048 | 1.066 |  |  |  |  | 1.046 | 0.379 |  |  |  |  |
| 1910 | 2.171 | 1.1 |  |  |  |  | 0.888 | 0.388 |  |  |  |  |
| 1911 | 1.091 | 1.186 |  |  |  |  | 1.085 | 0.471 |  |  |  |  |
| 1912 | 1.054 | 1.403 |  |  |  |  | 1.024 | 0.548 |  |  |  |  |
| 1913 | 0.934 | 1.133 |  |  |  | 0.853 | 0.654 | 0.618 |  |  |  |  |
| 1914 | 0.881 | 0.914 |  |  |  | 1.177 | 0.688 | 0.535 |  |  |  |  |
| 1915 | 0.822 | 1.21 |  |  |  | 0.332 | 0.979 | 0.602 |  |  |  |  |
| 1916 | 1.307 | 1.058 | 1.336 |  | 2.948 | 0.317 | 1.527 | 0.623 |  |  |  |  |
| 1917 | 1.266 | 0.937 | 0.995 |  | 0.881 | 0.35 | 1.417 | 0.778 |  |  | 1.263 |  |
| 1918 | 1.438 | 1.091 | 0.81 |  | 1.006 | 0.373 | 2.057 | 0.972 |  |  | 1.374 |  |
| 1919 | 1.427 | 0.898 | 0.704 |  | 0.718 | 0.308 | 1.07 | 0.742 |  |  | 0.963 |  |
| 1920 | 0.68 | 0.966 | 0.932 | 0.834 | 0.729 | 0.349 | 0.751 | 0.613 |  |  | 1.499 | 0.463 |
| 1921 | 0.679 | 1.112 | 0.706 | 0.572 | 0.509 | 0.224 | 0.652 | 0.56 |  |  | 0.824 | 0.426 |
| 1922 | 0.609 | 0.98 | 0.887 | 0.732 | 0.424 | 0.226 | 1.036 | 0.535 |  |  | 0.717 | 0.44 |
| 1923 | 0.5 | 0.75 | 0.689 | 0.776 | 0.424 | 0.313 | 0.924 | 0.487 |  |  | 0.635 | 0.325 |
| 1924 | 0.571 | 0.796 | 0.923 | 1.524 | 0.59 | 0.439 | 0.929 | 0.436 |  |  | 0.762 | 0.58 |
| 1925 | 0.937 | 0.712 | 0.787 | 1.172 | 0.665 | 0.284 | 0.566 | 0.386 |  |  | 0.398 | 0.282 |
| 1926 | 0.676 | 0.769 | 1.055 | 1.172 | 0.37 | 0.248 | 0.68 | 0.381 |  |  | 1.054 | 0.315 |
| 1927 | 0.787 | 1.037 | 1.396 | 1.066 | 0.439 | 0.227 | 1.108 | 0.392 |  |  | 0.892 | 0.443 |
| 1928 | 0.705 | 1.007 | 1.144 | 0.859 | 0.527 | 0.307 | 1.408 | 0.426 |  |  | 0.774 | 0.446 |
| 1929 | 0.717 | 0.882 | 0.936 | 0.51 | 0.538 | 0.372 | 1.268 | 0.479 | 0.53 |  | 0.825 | 0.69 |
| 1930 | 0.645 | 1.099 | 0.937 | 0.897 | 0.449 | 0.307 | 1.589 | 0.514 | 0.682 |  | 0.578 | 0.675 |
| 1931 | 0.586 | 0.903 | 0.848 | 0.592 | 0.534 | 0.304 | 0.845 | 0.475 | 0.721 |  | 0.694 | 1.053 |
| 1932 | 0.418 | 1.056 | 1.073 | 0.639 | 0.528 | 0.369 | 0.809 | 0.425 | 0.921 |  | 0.729 | 0.778 |
| 1933 | 0.468 | 1.004 | 0.777 | 1.051 | 0.566 | 0.35 | 0.574 | 0.402 | 0.944 |  | 0.642 | 1.07 |
| 1934 | 0.54 | 1.231 | 0.608 | 1.048 | 0.728 | 0.534 | 0.953 | 0.424 | 1.062 |  | 0.776 | 0.817 |
| 1935 | 0.655 | 1.145 | 0.815 | 1.156 | 0.818 | 0.581 | 0.691 | 0.428 | 0.799 |  | 0.799 | 0.683 |
| 1936 | 0.589 | 0.773 | 0.834 | 1.177 | 0.903 | 0.442 | 0.975 | 0.357 | 0.954 |  | 0.727 | 0.674 |
| 1937 | 0.593 | 0.676 | 1.072 | 1.203 | 0.907 | 0.436 | 1.057 | 0.4 | 0.803 |  | 0.557 | 0.55 |
| 1938 | 0.698 | 0.843 | 1.144 | 1.104 | 1.167 | 0.6 | 1.491 | 0.58 | 1.081 |  | 0.624 | 0.56 |
| 1939 | 0.571 | 1.041 | 0.91 | 0.858 | 0.989 | 0.687 | 1.516 | 0.564 | 1.067 |  | 0.851 | 0.738 |
| 1940 | 0.578 | 0.98 | 0.934 | 0.936 | 1.022 | 0.556 | 1.245 | 0.609 | 0.943 |  | 0.811 | 0.641 |
| 1941 | 0.799 | 1.193 | 0.865 | 0.778 | 1.056 | 0.763 | 1.367 | 0.519 | 1.097 |  | 1.151 | 0.749 |
| 1942 | 0.721 | 0.926 | 1.055 | 0.825 | 0.736 | 0.894 | 0.971 | 0.456 | 1.158 |  | 1.346 | 0.922 |
| 1943 | 0.928 | 0.77 | 0.818 | 0.702 | 0.806 | 0.862 | 1.024 | 0.388 | 1.328 |  | 0.97 | 0.891 |
| 1944 | 0.852 | 0.903 | 1.201 | 0.88 | 0.815 | 0.794 | 0.818 | 0.34 | 1.051 |  | 0.995 | 0.672 |
| 1945 | 0.99 | 1.232 | 1.104 | 1.083 | 0.952 | 1.156 | 1.115 | 0.465 | 1.071 |  | 1.033 | 0.624 |
| 1946 | 0.972 | 1.211 | 1.229 | 0.988 | 0.981 | 1.207 | 1.339 | 0.416 | 1.138 |  | 1.116 | 0.803 |
| 1947 | 0.955 | 1.183 | 1.036 | 1.001 | 0.895 | 1.073 | 1.375 | 0.488 | 0.981 |  | 0.969 | 0.946 |
| 1948 | 0.988 | 1.297 | 1.037 | 1.016 | 0.962 | 1.12 | 1.279 | 0.474 | 1.112 |  | 0.883 | 0.891 |
| 1949 | 0.915 | 0.814 | 0.752 | 1.013 | 1.18 | 0.879 | 0.641 | 0.546 | 0.715 |  | 0.628 | 0.862 |
| 1950 | 1.003 | 0.899 | 1.162 | 1.085 | 1.131 | 1.043 | 0.661 | 0.336 | 0.862 | 0.876 | 0.485 | 1.147 |
| 1951 | 0.939 | 0.795 | 0.945 | 0.995 | 0.923 | 0.962 | 0.715 | 0.617 | 1.083 | 1.124 | 0.548 | 1.147 |
| 1952 | 1.052 | 0.72 | 0.658 | 1.035 | 0.808 | 1.02 | 0.747 | 0.576 | 1.345 | 0.879 | 0.664 | 1.161 |
| 1953 | 0.885 | 0.954 | 0.931 | 0.97 | 0.808 | 0.901 | 0.749 | 0.451 | 1.551 | 0.837 | 0.899 | 1.194 |
| 1954 | 0.846 | 1.065 | 0.836 | 0.984 | 0.817 | 0.991 | 0.547 | 0.678 | 0.792 | 0.906 | 0.697 | 0.749 |
| 1955 | 0.945 | 1.224 | 1.185 | 0.948 | 1.101 | 1.168 | 0.891 | 0.93 | 1.098 | 0.807 | 1.08 | 1.08 |
| 1956 | 0.862 | 0.921 | 0.435 | 0.953 | 0.902 | 0.812 | 0.749 | 0.685 | 0.837 | 0.767 | 0.96 | 0.986 |
| 1957 | 0.775 | 1.052 | 0.637 | 0.708 | 0.855 | 0.784 | 0.806 | 0.735 | 0.774 | 0.713 | 1.028 | 1.125 |
| 1958 | 0.885 | 1.046 | 1.04 | 0.657 | 0.763 | 0.921 | 0.824 | 0.755 | 0.624 | 0.925 | 1.083 | 1.224 |
| 1959 | 1.04 | 0.982 | 0.97 | 0.787 | 0.647 | 0.837 | 0.843 | 0.729 | 0.789 | 0.969 | 1.052 | 0.979 |
| 1960 | 1.197 | 1.302 | 1.161 | 0.962 | 0.867 | 0.952 | 1.04 | 0.718 | 1.031 | 0.924 | 1.178 | 0.995 |
| 1961 | 1.503 | 1.401 | 1.55 | 1.284 | 1.093 | 1.277 | 1.064 | 0.736 | 1.421 | 0.9 | 1.26 | 1.401 |
| 1962 | 1.071 | 0.961 | 1.356 | 0.92 | 0.987 | 1.028 | 0.865 | 0.707 | 1.42 | 0.753 | 1.314 | 0.926 |
| 1963 | 1.093 | 1.043 | 1.051 | 0.985 | 0.914 | 1.093 | 0.941 | 0.757 | 1.6 | 0.871 | 1.105 | 1.142 |
| 1964 | 0.978 | 0.851 | 0.773 | 0.907 | 0.821 | 1.148 | 0.841 | 0.862 | 1.264 | 1.052 | 1.083 | 1.231 |
| 1965 | 0.808 | 0.675 | 0.604 | 0.656 | 0.646 | 0.981 | 0.752 | 0.748 | 1.047 | 0.912 | 0.819 | 1.179 |
| 1966 | 0.737 | 0.831 | 0.59 | 0.751 | 0.822 | 0.816 | 0.713 | 0.842 | 0.884 | 0.801 | 0.937 | 1.005 |
| 1967 | 0.869 | 0.71 | 0.653 | 0.792 | 0.834 | 0.715 | 0.762 | 0.804 | 0.746 | 0.858 | 0.929 | 0.904 |
| 1968 | 1.236 | 0.609 | 0.67 | 0.845 | 0.771 | 0.558 | 0.766 | 0.863 | 0.578 | 0.841 | 0.882 | 0.837 |
| 1969 | 1.202 | 0.826 | 0.683 | 0.838 | 0.79 | 0.763 | 0.703 | 0.81 | 0.685 | 0.855 | 0.777 | 0.864 |
| 1970 | 1.227 | 0.706 | 0.804 | 0.73 | 0.688 | 0.721 | 0.508 | 0.846 | 0.505 | 0.943 | 0.638 | 0.671 |
| 1971 | 0.905 | 0.729 | 0.826 | 0.69 | 0.483 | 0.51 | 0.511 | 0.684 | 0.438 | 0.928 | 0.757 | 0.481 |
| 1972 | 0.983 | 0.93 | 1.093 | 0.675 | 0.541 | 0.802 | 0.774 | 0.893 | 0.526 | 0.856 | 0.99 | 0.756 |
| 1973 | 1.082 | 0.893 | 1.113 | 0.921 | 0.832 | 1.168 | 0.968 | 0.84 | 0.527 | 0.835 | 0.729 | 0.738 |
| 1974 | 1.075 | 0.751 | 0.819 | 0.811 | 0.97 | 0.808 | 0.967 | 0.762 | 0.667 | 1.063 | 0.705 | 0.726 |
| 1975 | 1.049 | 1.104 | 1.082 | 0.923 | 1.174 | 1.118 | 0.923 | 0.795 | 0.982 | 1.101 | 0.849 | 1.67 |
| 1976 | 1.071 | 0.817 | 0.817 | 0.818 | 1.09 | 0.89 | 0.71 | 0.665 | 0.631 | 1.486 | 0.642 | 1.028 |
| 1977 | 0.855 | 0.99 | 0.81 | 0.971 | 1.162 | 1.12 | 0.795 | 0.84 | 0.626 | 1.016 | 0.592 | 1.006 |
| 1978 | 0.926 | 0.863 | 1.035 | 0.917 | 1.018 | 0.879 | 0.812 | 0.719 | 0.482 | 0.928 | 0.589 | 0.925 |
| 1979 | 0.77 | 0.805 | 1.037 | 0.835 | 1.042 | 0.975 | 1.067 | 0.799 | 0.495 | 0.789 | 0.624 | 0.962 |
| 1980 | 0.835 | 0.795 | 1.107 | 0.903 | 0.816 | 0.885 | 1.174 | 0.86 | 0.395 | 0.932 | 0.746 | 0.706 |
| 1981 | 0.932 | 0.782 | 1.01 | 0.97 | 1.011 | 0.976 | 1.232 | 0.931 | 0.387 | 0.726 | 0.79 | 0.88 |
| 1982 | 0.944 | 0.922 | 1.039 | 1.098 | 1.03 | 1.118 | 0.811 | 0.736 | 0.359 | 0.893 | 0.912 | 0.626 |
| 1983 | 0.909 | 0.875 | 0.923 | 0.974 | 1.094 | 0.975 | 1.31 | 0.974 | 0.416 | 0.465 | 0.867 | 0.655 |
| 1984 | 1.093 | 0.947 | 1.003 | 1.111 | 1.108 | 1.006 | 0.865 | 1.049 | 0.567 | 0.804 | 0.815 | 0.655 |
| 1985 | 1.118 | 0.865 | 1.121 | 0.993 | 1.137 | 0.895 | 1.07 | 1.155 | 0.721 | 0.715 | 0.772 | 1.039 |
| 1986 | 1.287 | 1.203 | 1.228 | 0.993 | 1.192 | 1.034 | 0.986 | 1.299 | 0.915 | 0.636 | 1.243 | 1.198 |
| 1987 | 1.39 | 1.216 | 1.477 | 1.087 | 1.136 | 1.233 | 1.116 | 1.524 | 1.254 | 1.111 | 1.346 | 1.455 |
| 1988 | 1.11 | 1.015 | 1.131 | 0.924 | 0.98 | 0.899 | 1.439 | 1.451 | 1.401 | 1.264 | 1.475 | 1.505 |
| 1989 | 1.105 | 1.127 | 1.139 | 0.911 | 1.031 | 1.023 | 1.078 | 1.336 | 1.372 | 1.366 | 1.089 | 1.554 |
| 1990 | 1.108 | 1.242 | 0.817 | 1.041 | 1.279 | 1.235 | 1.375 | 1.477 | 1.507 | 1.328 | 1.546 | 1.137 |
| 1991 | 1.224 | 1.281 | 1.045 | 1.157 | 1.27 | 1.197 | 1.426 | 1.187 | 1.756 | 0.935 | 1.355 | 1.217 |
| 1992 | 1.085 | 1.058 | 0.867 | 0.898 | 1.18 | 0.956 | 1.03 | 0.924 | 1.407 | 1.123 | 0.96 | 1.271 |
| 1993 | 1.135 | 0.842 | 0.838 | 0.984 | 1.154 | 0.951 | 1.236 | 0.888 | 1.402 | 1.188 | 1.056 | 1.32 |
| 1994 | 1.159 | 1.064 | 1.38 | 1.046 | 1.21 | 1.125 | 1.369 | 1.126 | 1.353 | 1.161 | 1.132 | 1.27 |
| 1995 | 1.076 | 0.927 | 1.045 | 1.249 | 1.205 | 1.014 | 1.301 | 0.896 | 1.432 | 1.317 | 1.109 | 1.462 |
| 1996 | 1.19 | 1.225 | 1.03 | 1.189 | 1.441 | 1.46 | 1.089 | 1.13 | 1.431 | 1.531 | 1.098 | 1.161 |
| 1997 | 0.885 | 0.828 | 0.745 | 1.147 | 0.923 | 1.346 | 1.035 | 0.756 | 1.333 | 1.135 | 0.918 | 1.111 |
| 1998 | 1.055 | 1.002 | 0.811 | 1.029 | 1.168 | 1.266 | 1.289 | 0.938 | 1.238 | 1.279 | 0.968 | 1.171 |
| 1999 | 0.988 | 1.001 | 0.936 | 0.957 | 0.939 | 1.133 | 1.008 | 1.092 | 1.103 | 1.096 | 0.804 | 1.074 |
| 2000 | 0.622 | 0.964 | 0.981 | 0.822 | 0.761 | 0.996 | 0.713 | 0.752 | 0.788 | 1.149 | 0.653 | 0.824 |
| 2001 | 0.716 | 1.201 | 1.037 | 1.094 | 0.864 | 1.157 | 0.757 | 1.224 | 0.877 | 0.86 | 0.981 | 1.235 |
| 2002 | 0.808 | 1.073 | 1.224 | 1.055 | 0.947 | 1.237 | 1.035 | 1.121 | 0.889 | 0.786 | 1.097 | 1.033 |
| 2003 | 0.926 | 1.279 | 1.088 | 1.39 | 1.246 | 1.239 | 1.133 | 1.238 | 0.738 | 1.043 | 1.246 | 1.02 |
| 2004 | 0.849 | 1.176 | 1.235 | 1.158 | 1.02 | 1.128 | 1.132 | 1.255 | 0.908 | 0.905 | 1.253 | 0.943 |
| 2005 | 1.007 | 1.278 | 0.889 | 1.241 | 1.1 | 1.322 | 1.153 | 0.861 | 0.933 | 0.864 | 1.123 | 0.876 |
| 2006 | 1.172 | 1.037 | 1.006 | 1.29 | 1.193 | 1.232 | 1.107 | 1.263 | 1.353 | 1.031 | 1.497 | 0.775 |
| 2007 | 0.877 | 0.997 | 0.833 | 1.164 | 1.066 | 1.206 | 0.779 | 1.219 | 1.376 | 0.977 | 1.302 | 0.733 |
| 2008 | 0.824 | 0.874 | 1.124 | 1.118 | 1.104 | 0.948 | 0.724 | 1.136 | 1.218 | 0.816 | 1.473 | 0.855 |
| 2009 | 1.095 | 1.136 | 0.904 | 1.263 | 1.153 | 1.001 | 0.805 | 1.144 | 1.085 | 0.921 | 1.604 | 0.672 |
| 2010 | 0.945 | 0.934 | 1.041 | 1.025 | 1.045 | 0.99 | 0.853 | 1.161 | 1.121 | 0.964 | 1.068 | 0.635 |
| 2011 | 1.067 | 1.212 | 0.975 | 1.027 | 1.223 | 1.106 | 0.996 | 1.232 | 1.25 | 1.012 | 1.4 | 0.948 |
| 2012 | 0.869 | 1.13 | 0.933 | 0.927 | 1.035 | 0.813 | 0.931 | 1.092 | 1.201 |  |  | 0.81 |
| 2013 | 1.092 | 1.314 | 1.414 | 1.129 | 1.327 | 1.242 | 1.089 | 1.299 | 1.376 |  |  | 1.091 |