**Table 1.** Characteristics of sampled plot. Lat = latitude; Long = longitude. Dbh and height of all trees, Basal Area (BA), Density and SRD (size ratio proportional to distance) are computed for all trees within a 10-m radius of focal trees (see Materials and methods). Temp.: annual average of mean monthly minimum and maximum temperatures. Values shown here correspond to site averages. Standard deviations are shown in parentheses. Different letters indicate statistically significant differences between sites (Kruskal-Wallis test followed by Dunn’s test, p<0.05). Stands were monospecific, hence all results correspond to oak data.

**Table 2.** Characteristics of the mean tree-ring chronologies. Length values in parentheses indicate the number of years replicated with more than five series. RW = mean annual ring width (standard deviation in parenthesis). MS = mean sensitivity. AR(1) = mean autocorrelation of raw series. Rbt = mean correlation between series. EPS = mean expressed population signal. EPS and Rbt were calculated for the mean residual chronologies of growth indices.

**Table 1**

|  |  |  |  |  |  |  | ***Cored trees*** | | | | ***Stand competition*** | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Site** | **Lat (°)** | **Long (°)** | **Elevation (m)** | **Slope (°)** | **Prec. (mm)** | **Temp. (° C)** | **# trees (# cores)** | **Dbh (cm)** | **Height (m)** | **Age (years)** | **Dbh all (cm)** | **Height all (m)** | **BA (m**2 **ha**-1**)** | **Density (trees ha**-1**)** | **SRD** | |
| CA-High | 36.97 | -3.42 | 1846 - 1884 | 12.11 (3.28) | 731 | 3.4-13.8 | 15 (30) | 69.8 (20.5) a | 15.4 (1.8) a | 161.0 (32.2) a | 34.1 (24.3) a | 10.8 (4.4) a | 39.13 (24.31) a | 348.0 (147.1) a | 0.91 (0.63) a | |
| CA-Low | 36.96 | -3.42 | 1691 - 1751 | 12.86 (2.98) | 658 | 4.7-15.6 | 15 (30) | 45.9 (8.6) a | 12.6 (1.6) b | 148.5 (16.5) a | 21.7 (14.4) b | 9.0 (2.8) b | 18.02 (7.11) ab | 409.6 (226.0) a | 0.89 (0.44) a | |
| SJ | 37.13 | -3.37 | 1322 - 1474 | 27.33 (5.59) | 555 | 4.9-16.35 | 20 (48) | 31.9 (3.7) b | 11.8 (2.3) b | 72.6 (11.1) b | 20.6 (8.1) b | 9.7 (3.6) ab | 11.64 (5.47) b | 339.0 (130.3) a | 1.11 (0.52) a | |

**Table 2**

| **Site** | **First year** | **Last year** | **Length (years)** | **# trees** | **# cores** | **RW (mm)** | **MS** | **AR(1)** | **Rbt** | **EPS** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CA-Low | 1836 | 2016 | 181 (164) | 15 | 30 | 1.253 (0.781) | 0.208 | 0.799 | 0.520 | 0.897 |
| CA-High | 1819 | 2016 | 198 (188) | 15 | 30 | 1.500 (0.879) | 0.203 | 0.827 | 0.522 | 0.907 |
| SJ | 1921 | 2016 | 96 (90) | 20 | 48 | 1.725 (1.207) | 0.319 | 0.692 | 0.637 | 0.959 |