**Supplemental Table 5. Mean Isotope Data by Climate Pattern.**

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| --- | --- | --- | --- |
|  | **Normal climate patterna** | **Major dry event patternb** | **Mann Whitney U, p value** |
| ***δ*13Ccol** | –10.6 (12) | –11.4 (11) | 47, 0.255 |
| **SD** | 1.6 | 1.8 |  |
| ***δ*15Ncol** | +8.8 (12) | +9.1 (11) | 44, 0.196 |
| **SD** | 0.9 | 0.5 |  |
| ***δ*13Csc** | –4.7 (15) | –5.3 (14) | 78, 0.239 |
| **SD** | 1.7 | 1.6 |  |
| ***Δ*13C sc–col** | 5.5 (12) | 6.0 (11) | 51, 0.356 |
| **SD** | 1.5 | 2.0 |  |
| **F1** | 2.0 (12) | 1.3 (11) | 50, 0.340 |
| **SD** | 1.4 | 1.6 |  |
| **F2** | –2.7 (12) | –2.5 (11) | 60, 0.735 |
| **SD** | 0.9 | 0.7 |  |
|  |  |  |  |
|  | **Major dry event A.D. 750–875** | **Major dry event A.D. 1000–1175** | **Mann Whitney U, p valuec** |
| ***δ*13Ccol** | –10.5 (7) | –12.9 (4) | ***3, 0.05*** |
| **SD** | 1.6 | 0.8 |  |
| ***δ*15Ncol** | +9.1 (7) | +9.2 (4) | 14, 1.0 |
| **SD** | 0.6 | 0.5 |  |
| ***δ*13Csc** | –4.7 (9) | –6.7 (4) | 6, 0.06 |
| **SD** | 1.6 | 0.4 |  |
| ***Δ*13C sc–col** | 6.0 (7) | 6.3 (4) | 13, 0.93 |
| **SD** | 2.4 | 1.1 |  |
| **F1** | 2.2 (7) | –0.21 (4) | ***2, 0.03*** |
| **SD** | 1.3 | 0.5 |  |
| **F2** | –2.7 (7) | –2.1 (4) | 6, 0.16 |
| **SD** | 0.7 | 0.4 |  |
| *Note:* In all columns, the number in parentheses indicates the size of the sample. | | | |
| a This includes all individuals whose 2–sigma radiocarbon dates fall outside MDEs identified by Akers et al. 2016 (see Figure 2). | | | |
|  |  |  |  |
| b This includes all individuals whose 2–sigma radiocarbon dates fall mostly within MDEs identified by Akers et al. 2016 (see Figure 2) and the one individual (SS6) dated to the Late Classic based on ceramic association. | | | |
|  |  |  |  |
|  |  |  |  |
| c Results shown in bold italics are statistically significant. | | |  |