**SUPPLEMENTARY MATERIAL TABLE AND FIGURE CAPTIONS**

**TABLES**

**Table S1.** Results for differences in the distributions (Two-Sample T-Test) and variance (Levene Test) of *Neotoma* mass and diet (δ13C and δ15N) between specimens from Zesch Cave (Collection ID 40685) versus Hall’s Cave (Collection ID 41229) within the time interval 22,400-15,800 cal yr BP.

**Table S2.** Measurements of first upper and lower molars of modern *Neotoma* from the Bell Museum of Natural History (MMNH) and the Museum of Southwestern Biology (MSB). Mean lengths of upper left (ULM1) and right (URM1), lower left (LLM1) and right (LRM1) first molars are given with standard error (SE).

**Table S3.** Results for changes in the distributions and variance of *Neotoma* mass and diet (δ13C and δ15N) for pre- (22,400-12,700 cal yr BP) and post-extinction (12,700-0 cal yr BP) time bins. \* Welsh Two-Sample T-Test used to account for unequal variances between groups.

**Table S4.** Tukey Honest Significant Differences (Diff.) on ANOVA of mass (p<0.05, df=14/451), 13C (p<0.001, df=14/291), and 15N (p<0.01, df=14/291) across all time interval. Significant p-values are bolded.

**Table S5.** Results of AIC and multiple linear models comparing mass and diet (δ13C and δ15N) to climate and community metrics (richness, turnover, similarity to modern). Models were run on maximum and median mass due to the potential for multiple species of *Neotoma.* Precipitation (mm) (Precip), maximum and minimum temperature (oC) (Max\_Temp and Min\_Temp) were extracted from the CCM3 (Lorenz et al. 2016a,b). Significant p-values are bolded.

**Table S6.** Results of linear models comparing mass and diet in *Neotoma*. Significant p-values are bolded.

**Table S7.** Results of sliding window linear models for maximum and median mass (g) of *Neotoma* against climate (precipitation and temperature) and community (richness, turnover and similarity to modern). Turnover here is the calculated Sorenson as similarity to the youngest time interval. Each window included 6 time intervals as given in cal yr BP in Table 1. Rows with significant p-values are bolded.

**FIGURES**

**Figure S1. Changes in *Neotoma* across the megafaunal extinction event.** Boxplots show mean and interquartile ranges for A) mass, B) δ13C and C) δ15N distributions of the *Neotoma*, before (pre-) and after (post-) the megafaunal extinction.

**Figure S2. Bayesian standard ellipse area for *Neotoma* through time.** Bayesian standard ellipse area (SEAB) fromδ13C and δ15N bone collagen values for *Neotoma* across 15 time intervals (as midpoint), 50%, 90% and 95% credible intervals (gray boxes) and mean values (black dots).

**SUPPLEMENTARY MATERIAL TABLE S1**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Levene-Test | | | Two Sample T-Test | | |
|  | F | df | p-value | t | df | p-value |
| Mass | 0.78 | 1/21 | 0.3881 | 1.38 | 21 | 0.182 |
| δ13C | 3.75 | 1/3 | 0.148 | 1.01 | 3 | 0.3882 |
| δ15N | 1.11 | 1/3 | 0.370 | 0.87 | 3 | 0.450 |

**SUPPLEMENTARY MATERIAL TABLE S2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Museum ID | Specimen ID | ULM1 ± SE | URM1 ± SE | LLM1 ± SE | LRM1 ± SE |
| MMNH | 10254 | 3.42 ± 0.02 | 3.41 ± 0.01 | 3.19 ± 0.00 | 3.16 ± 0.00 |
| MMNH | 11399 | 3.29 ± 0.01 | 3.17 ± 0.00 | 3.05 ± 0.01 | 3.11 ± 0.01 |
| MMNH | 11400 | 3.57 ± 0.01 | 3.55 ± 0.02 | 3.40 ± 0.02 | 3.32 ± 0.00 |
| MMNH | 11401 | 3.64 ± 0.03 | 3.68 ± 0.00 | 3.24 ± 0.01 | 3.26 ± 0.01 |
| MMNH | 11403 | 3.47 ± 0.01 | 3.6 ± 0.00 | 3.38 ± 0.01 | 3.30 ± 0.00 |
| MMNH | 11404 | 3.34 ± 0.03 | 3.36 ± 0.03 | 3.09 ± 0.01 | 3.12 ± 0.00 |
| MMNH | 12621 | 3.41 ± 0.03 | 3.39 ± 0.02 | 3.19 ± 0.04 | 3.18 ± 0.01 |
| MMNH | 12622 | 3.21 ± 0.01 | 3.26 ± 0.01 | 3.37 ± 0.04 | 3.41 ± 0.02 |
| MMNH | 12623 | 3.28 ± 0.02 | 3.26 ± 0.01 | 3.19 ± 0.00 | 3.28 ± 0.02 |
| MMNH | 12627 | 3.28 ± 0.02 | 3.25 ± 0.01 | 3.07 ± 0.01 | 3.07 ± 0.00 |
| MMNH | 12628 | 3.45 ± 0.01 | 3.39 ± 0.01 | 3.48 ± 0.00 | 3.42 ± 0.01 |
| MMNH | 12629 | 3.69 ± 0.01 | 3.52 ± 0.03 | 3.81 ± 0.01 | 3.63 ± 0.03 |
| MSB | 109867 | 3.12 ± 0.02 | 3.13 ± 0.01 | 2.86 ± 0.01 | 2.77 ± 0.02 |
| MSB | 109868 | 3.25 ± 0.00 | 3.17 ± 0.00 | 2.82 ± 0.02 | 2.82 ± 0.00 |
| MSB | 109963 | 2.88 ± 0.00 | 2.88 ± 0.00 | 2.62 ± 0.01 | 2.66 ± 0.01 |
| MSB | 109964 | 3.02 ± 0.00 | 2.94 ± 0.01 | 2.75 ± 0.02 | 2.74 ± 0.01 |
| MSB | 109998 | 3.28 ± 0.01 | 3.19 ± 0.00 | 3.07 ± 0.01 | 3.11 ± 0.01 |
| MSB | 109999 | 2.86 ± 0.00 | 2.89 ± 0.01 | 2.88 ± 0.01 | 2.85 ± 0.00 |
| MSB | 121289 | 3.04 ± 0.00 | 3.01 ± 0.01 | 2.92 ± 0.01 | 2.87 ± 0.00 |
| MSB | 121308 | 3.23 ± 0.00 | 3.17 ± 0.03 | 3.15 ± 0.01 | 3.15 ± 0.01 |
| MSB | 121332 | 3.05 ± 0.01 | 3.03 ± 0.00 | 2.92 ± 0.01 | 2.92 ± 0.00 |
| MSB | 121401 | 3.21 ± 0.01 | 3.11 ± 0.02 | 3.05 ± 0.01 | 3.08 ± 0.02 |

**SUPPLEMENTARY MATERIAL TABLE S3**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | F-Test | | | Bartlett Test | | | Two Sample T-Test | | | Wilcoxon Rank Sum Test | |
|  | F | df | p-value | K-squared | df | p-value | t | df | p-value | W | p-value |
| Mass | 1.40 | 78/350 | 0.044 | 3.88 | 1 | 0.049 | 1.77 | 104.46 | 0.07895\* | 15693.0 | 0.067 |
| δ13C | 0.42 | 33/271 | 0.004 | 8.73 | 1 | 0.003 | -3.10 | 54.92 | 0.003087\* | 3506.0 | 0.022 |
| δ15N | 1.44 | 33/271 | 0.128 | 2.10 | 1 | 0.147 | -4.28 | 304.00 | 2.554E-05 | 2530.5 | 1.674E-05 |

**SUPPLEMENTARY MATERIAL TABLE S4**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Mass (g) | | 13C (‰) | | 15N (‰) | |
| Upper Mid-age (cal BP) | Lower Mid-age (cal BP) | Diff. | p-value | Diff. | p-value | Diff. | p-value |
| 2300 | 750 | 15.8 | 1.000 | -1.6 | 0.912 | -0.2 | 1.000 |
| 4250 | 750 | 39.0 | 0.441 | 0.0 | 1.000 | -0.1 | 1.000 |
| 5750 | 750 | 34.5 | 0.778 | 0.0 | 1.000 | -0.4 | 1.000 |
| 6250 | 750 | 27.2 | 0.980 | 0.1 | 1.000 | 0.0 | 1.000 |
| 6550 | 750 | 21.6 | 0.999 | -0.8 | 1.000 | -0.7 | 0.998 |
| 7200 | 750 | 18.8 | 0.998 | 0.9 | 0.998 | 0.0 | 1.000 |
| 8050 | 750 | 39.6 | 0.685 | -0.4 | 1.000 | -0.1 | 1.000 |
| 8700 | 750 | 38.6 | 0.649 | 0.3 | 1.000 | 0.6 | 0.998 |
| 9200 | 750 | 50.9 | 0.452 | -0.5 | 1.000 | 0.6 | 1.000 |
| 9700 | 750 | 49.4 | 0.248 | 0.0 | 1.000 | 0.3 | 1.000 |
| 10500 | 750 | 46.3 | 0.256 | -1.6 | 0.792 | 0.0 | 1.000 |
| 11850 | 750 | 35.1 | 0.650 | -1.4 | 0.945 | 0.1 | 1.000 |
| 14250 | 750 | 39.9 | 0.418 | -1.2 | 0.983 | -0.9 | 0.899 |
| 19100 | 750 | 56.5 | 0.079 | -1.7 | 0.982 | -1.7 | 0.554 |
| 4250 | 2300 | 23.2 | 0.515 | 1.6 | 0.499 | 0.1 | 1.000 |
| 5750 | 2300 | 18.6 | 0.961 | 1.6 | 0.699 | -0.2 | 1.000 |
| 6250 | 2300 | 11.3 | 1.000 | 1.7 | 0.855 | 0.2 | 1.000 |
| 6550 | 2300 | 5.7 | 1.000 | 0.8 | 1.000 | -0.5 | 1.000 |
| 7200 | 2300 | 3.0 | 1.000 | 2.5 | **0.022** | 0.2 | 1.000 |
| 8050 | 2300 | 23.8 | 0.913 | 1.2 | 0.953 | 0.1 | 1.000 |
| 8700 | 2300 | 22.7 | 0.877 | 1.9 | 0.390 | 0.8 | 0.891 |
| 9200 | 2300 | 35.1 | 0.709 | 1.1 | 0.996 | 0.8 | 0.988 |
| 9700 | 2300 | 33.5 | 0.339 | 1.6 | 0.699 | 0.5 | 0.997 |
| 10500 | 2300 | 30.5 | 0.297 | 0.0 | 1.000 | 0.2 | 1.000 |
| 11850 | 2300 | 19.2 | 0.838 | 0.2 | 1.000 | 0.3 | 1.000 |
| 14250 | 2300 | 24.0 | 0.491 | 0.4 | 1.000 | -0.7 | 0.951 |
| 19100 | 2300 | 40.7 | 0.068 | -0.1 | 1.000 | -1.5 | 0.650 |
| 5750 | 4250 | -4.6 | 1.000 | 0.0 | 1.000 | -0.3 | 0.999 |
| 6250 | 4250 | -11.9 | 1.000 | 0.2 | 1.000 | 0.1 | 1.000 |
| 6550 | 4250 | -17.5 | 0.997 | -0.8 | 0.999 | -0.6 | 0.992 |
| 7200 | 4250 | -20.2 | 0.779 | 0.9 | 0.825 | 0.1 | 1.000 |
| 8050 | 4250 | 0.6 | 1.000 | -0.4 | 1.000 | 0.0 | 1.000 |
| 8700 | 4250 | -0.5 | 1.000 | 0.3 | 1.000 | 0.7 | 0.726 |
| 9200 | 4250 | 11.9 | 1.000 | -0.4 | 1.000 | 0.7 | 0.986 |
| 9700 | 4250 | 10.3 | 1.000 | 0.0 | 1.000 | 0.4 | 0.994 |
| 10500 | 4250 | 7.3 | 1.000 | -1.6 | 0.072 | 0.1 | 1.000 |
| 11850 | 4250 | -4.0 | 1.000 | -1.4 | 0.473 | 0.2 | 1.000 |
| 14250 | 4250 | 0.8 | 1.000 | -1.1 | 0.617 | -0.8 | 0.377 |
| 19100 | 4250 | 17.5 | 0.965 | -1.7 | 0.938 | -1.6 | 0.355 |
| 6250 | 5750 | -7.3 | 1.000 | 0.1 | 1.000 | 0.4 | 1.000 |
| 6550 | 5750 | -12.9 | 1.000 | -0.8 | 0.999 | -0.2 | 1.000 |
| 7200 | 5750 | -15.6 | 0.993 | 0.9 | 0.975 | 0.4 | 0.998 |
| 8050 | 5750 | 5.2 | 1.000 | -0.4 | 1.000 | 0.4 | 1.000 |
| 8700 | 5750 | 4.1 | 1.000 | 0.3 | 1.000 | 1.0 | 0.351 |
| 9200 | 5750 | 16.5 | 1.000 | -0.5 | 1.000 | 1.0 | 0.822 |
| 9700 | 5750 | 14.9 | 0.999 | 0.0 | 1.000 | 0.8 | 0.832 |
| 10500 | 5750 | 11.9 | 1.000 | -1.6 | 0.332 | 0.5 | 0.994 |
| 11850 | 5750 | 0.6 | 1.000 | -1.4 | 0.733 | 0.6 | 0.986 |
| 14250 | 5750 | 5.4 | 1.000 | -1.2 | 0.862 | -0.4 | 0.998 |
| 19100 | 5750 | 22.1 | 0.933 | -1.7 | 0.956 | -1.2 | 0.839 |
| 6550 | 6250 | -5.6 | 1.000 | -1.0 | 1.000 | -0.6 | 0.999 |
| 7200 | 6250 | -8.3 | 1.000 | 0.8 | 1.000 | 0.0 | 1.000 |
| 8050 | 6250 | 12.5 | 1.000 | -0.5 | 1.000 | 0.0 | 1.000 |
| 8700 | 6250 | 11.4 | 1.000 | 0.2 | 1.000 | 0.6 | 0.995 |
| 9200 | 6250 | 23.8 | 0.994 | -0.6 | 1.000 | 0.6 | 1.000 |
| 9700 | 6250 | 22.2 | 0.981 | -0.1 | 1.000 | 0.4 | 1.000 |
| 10500 | 6250 | 19.1 | 0.990 | -1.7 | 0.692 | 0.1 | 1.000 |
| 11850 | 6250 | 7.9 | 1.000 | -1.5 | 0.898 | 0.2 | 1.000 |
| 14250 | 6250 | 12.7 | 1.000 | -1.3 | 0.961 | -0.8 | 0.931 |
| 19100 | 6250 | 29.4 | 0.816 | -1.8 | 0.968 | -1.6 | 0.601 |
| 7200 | 6550 | -2.7 | 1.000 | 1.7 | 0.561 | 0.6 | 0.983 |
| 8050 | 6550 | 18.1 | 0.999 | 0.4 | 1.000 | 0.6 | 0.995 |
| 8700 | 6550 | 17.0 | 0.999 | 1.1 | 0.986 | 1.3 | 0.330 |
| 9200 | 6550 | 29.4 | 0.976 | 0.4 | 1.000 | 1.2 | 0.716 |
| 9700 | 6550 | 27.8 | 0.939 | 0.8 | 0.999 | 1.0 | 0.742 |
| 10500 | 6550 | 24.7 | 0.959 | -0.8 | 0.999 | 0.7 | 0.970 |
| 11850 | 6550 | 13.5 | 1.000 | -0.6 | 1.000 | 0.8 | 0.948 |
| 14250 | 6550 | 18.3 | 0.996 | -0.3 | 1.000 | -0.2 | 1.000 |
| 19100 | 6550 | 34.9 | 0.706 | -0.9 | 1.000 | -1.0 | 0.980 |
| 8050 | 7200 | 20.8 | 0.974 | -1.3 | 0.626 | 0.0 | 1.000 |
| 8700 | 7200 | 19.7 | 0.963 | -0.6 | 0.999 | 0.6 | 0.919 |
| 9200 | 7200 | 32.1 | 0.834 | -1.4 | 0.924 | 0.6 | 0.997 |
| 9700 | 7200 | 30.5 | 0.536 | -0.9 | 0.975 | 0.4 | 1.000 |
| 10500 | 7200 | 27.5 | 0.518 | -2.5 | **0.000** | 0.0 | 1.000 |
| 11850 | 7200 | 16.2 | 0.962 | -2.3 | **0.011** | 0.1 | 1.000 |
| 14250 | 7200 | 21.0 | 0.753 | -2.1 | **0.014** | -0.9 | 0.369 |
| 19100 | 7200 | 37.7 | 0.154 | -2.6 | 0.400 | -1.6 | 0.315 |
| 8700 | 8050 | -1.1 | 1.000 | 0.7 | 0.999 | 0.7 | 0.926 |
| 9200 | 8050 | 11.3 | 1.000 | -0.1 | 1.000 | 0.6 | 0.996 |
| 9700 | 8050 | 9.7 | 1.000 | 0.4 | 1.000 | 0.4 | 0.999 |
| 10500 | 8050 | 6.7 | 1.000 | -1.2 | 0.779 | 0.1 | 1.000 |
| 11850 | 8050 | -4.6 | 1.000 | -1.0 | 0.974 | 0.2 | 1.000 |
| 14250 | 8050 | 0.2 | 1.000 | -0.7 | 0.996 | -0.8 | 0.637 |
| 19100 | 8050 | 16.9 | 0.998 | -1.3 | 0.996 | -1.6 | 0.415 |
| 9200 | 8700 | 12.4 | 1.000 | -0.8 | 1.000 | 0.0 | 1.000 |
| 9700 | 8700 | 10.8 | 1.000 | -0.3 | 1.000 | -0.3 | 1.000 |
| 10500 | 8700 | 7.7 | 1.000 | -1.9 | 0.089 | -0.6 | 0.945 |
| 11850 | 8700 | -3.5 | 1.000 | -1.7 | 0.386 | -0.5 | 0.996 |
| 14250 | 8700 | 1.3 | 1.000 | -1.4 | 0.521 | -1.5 | **0.005** |
| 19100 | 8700 | 18.0 | 0.992 | -2.0 | 0.858 | -2.3 | **0.030** |
| 9700 | 9200 | -1.6 | 1.000 | 0.5 | 1.000 | -0.2 | 1.000 |
| 10500 | 9200 | -4.6 | 1.000 | -1.1 | 0.986 | -0.5 | 0.999 |
| 11850 | 9200 | -15.9 | 1.000 | -0.9 | 0.999 | -0.4 | 1.000 |
| 14250 | 9200 | -11.1 | 1.000 | -0.7 | 1.000 | -1.4 | 0.186 |
| 19100 | 9200 | 5.6 | 1.000 | -1.2 | 0.999 | -2.2 | 0.114 |
| 10500 | 9700 | -3.1 | 1.000 | -1.6 | 0.332 | -0.3 | 1.000 |
| 11850 | 9700 | -14.3 | 0.997 | -1.4 | 0.733 | -0.2 | 1.000 |
| 14250 | 9700 | -9.5 | 1.000 | -1.2 | 0.862 | -1.2 | 0.080 |
| 19100 | 9700 | 7.2 | 1.000 | -1.7 | 0.956 | -2.0 | 0.109 |
| 11850 | 10500 | -11.2 | 0.999 | 0.2 | 1.000 | 0.1 | 1.000 |
| 14250 | 10500 | -6.4 | 1.000 | 0.4 | 1.000 | -0.9 | 0.274 |
| 19100 | 10500 | 10.2 | 1.000 | -0.1 | 1.000 | -1.7 | 0.272 |
| 14250 | 11850 | 4.8 | 1.000 | 0.2 | 1.000 | -1.0 | 0.306 |
| 19100 | 11850 | 21.5 | 0.864 | -0.3 | 1.000 | -1.8 | 0.244 |
| 19100 | 14250 | 16.7 | 0.980 | -0.5 | 1.000 | -0.8 | 0.994 |

**SUPPLEMENTARY MATERIAL TABLE S5**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Climate Models | | | | | | | | |
|  | **Best model** |  | **Slope(s)** | **AIC** | **F-statistic** | **df** | **p-value** | **Adjusted r2** |
| Maximum Mass | Precip | *pos.* | *0.65* | 101.87 | 15.88 | 1/13 | **0.002** | **0.52** |
| Median Mass | Max\_Temp | *neg.* | *4.39* | 82.07 | 4.384 | 1/13 | 0.056 | 0.19 |
| Maximum δ13C | Min\_Temp | *pos.* | *1.24* | 22.68 | 8.976 | 1/13 | **0.010** | **0.36** |
| Mean δ13C | Precip | *neg.* | *0.01* | 10.34 | 7.679 | 1/13 | **0.016** | **0.32** |
| Minimum δ13C | Max\_Temp | *neg.* | *0.23* | -6.32 | 4.372 | 1/13 | 0.057 | 0.19 |
| Maximum δ15N | Max\_Temp + Min\_Temp + Precip | *neg., pos., pos.* | *0.02, 1.56, 3.19* | -7.86 | 9.222 | 3/11 | **0.002** | **0.64** |
| Mean δ15N | Max\_Temp + Min\_Temp | *neg., pos.* | *0.6, 1.19* | -32.44 | 17.97 | 2/12 | **2.462E-04** | **0.71** |
| Minimum δ15N | Min\_Temp | *pos.* | *0.22* | -28.14 | 8.64 | 1/13 | **0.012** | **0.35** |
|  |  |  |  |  |  |  |  |  |
| Community Models | | | | | | | | |
|  | **Best model** |  | **Slope(s)** | **AIC** | **F-statistic** | **df** | **p-value** | **Adjusted r2** |
| Maximum Mass | Richness + Turnover + Similarity | *neg., neg., neg.* | *2.35, 74.85, 382.31* | 87.59 | 23.89 | 3/11 | **4.041E-05** | **0.82** |
| Median Mass | Richness + Turnover + Similarity | *neg., neg., neg.* | *1.02, 66.73, 138.19* | 75.26 | 6.413 | 3/11 | **0.009** | **0.54** |
| Maximum δ13C | Richness | *neg.* | *0.1* | 26.34 | 4.22 | 1/13 | 0.061 | 0.19 |
| Mean δ13C | Richness + Turnover | *neg., pos.* | *0.03, 4.18* | 13.56 | 7.2 | 2/12 | **0.008** | **0.48** |
| Minimum δ13C | Richness + Similarity | *neg., neg.* | *0.06, 7.31* | 10.93 | 6.459 | 2/12 | **0.012** | **0.44** |
| Maximum δ15N | Turnover | *neg.* | *8.46* | 0.78 | 6.672 | 1/13 | **0.02** | **0.29** |
| Mean δ15N | Similarity | *pos.* | *1.89* | -18.64 | 5.111 | 1/13 | **0.042** | **0.23** |
| Minimum δ15N | Similarity | *pos.* | *1.55* | -25.84 | 5.563 | 1/13 | **0.035** | **0.25** |

**SUPPLEMENTARY MATERIAL TABLE S6**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Variables Compared | F-statistic | df | p-value | Adjusted r2 |
| Mass - δ13C | 0.21 | 1/129 | 0.649 | -0.01 |
| Mass - δ15N | 0.05 | 1/129 | 0.827 | -0.01 |
| δ13C - δ15N | 57.86 | 1/304 | **3.550E-13** | 0.16 |

**SUPPLEMENTARY MATERIAL TABLE S7**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Maximum Mass | | | | | | | | | | | | | | | | | | |
|  | Precipitation | | | Maximum Temperature | | | Minimum Temperature | | | Richness | | | Turnover | | | Similarity to Modern | | |
| Window (cal yr BP) | p-value | Adjusted r2 | Relation | p-value | Adjusted r2 | Relation | p-value | Adjusted r2 | Relation | p-value | Adjusted r2 | Relation | p-value | Adjusted r2 | Relation | p-value | Adjusted r2 | Relation |
| 6,700-0 | 0.820 | -0.23 | *pos.* | 0.402 | -0.03 | *neg.* | 0.251 | 0.14 | *neg.* | 0.112 | 0.39 | *pos.* | 0.925 | -0.25 | *neg.* | **0.003** | **0.89** | ***neg.*** |
| 7,700-1,500 | 0.229 | 0.17 | *pos.* | 0.867 | -0.24 | *pos.* | 0.842 | -0.24 | *neg.* | 0.155 | 0.29 | *pos.* | 0.971 | -0.25 | *pos.* | 0.052 | 0.57 | *neg.* |
| 8,400-3,100 | 0.196 | 0.22 | *pos.* | 0.347 | 0.03 | *pos.* | 0.254 | 0.13 | *neg.* | 0.717 | -0.20 | *neg.* | 0.123 | 0.36 | *neg.* | 0.114 | 0.38 | *neg.* |
| 9,000-5,400 | 0.520 | -0.11 | *pos.* | 0.484 | -0.09 | *pos.* | 0.729 | -0.21 | *neg.* | 0.395 | -0.02 | *neg.* | 0.273 | 0.11 | *neg.* | 0.825 | -0.23 | *neg.* |
| 9,400-6,100 | 0.981 | -0.25 | *pos.* | 0.858 | -0.24 | *pos.* | 0.548 | -0.13 | *neg.* | 0.565 | -0.14 | *neg.* | 0.458 | -0.07 | *neg.* | 0.565 | -0.14 | *neg.* |
| 10,000-6,400 | 0.400 | -0.02 | *pos.* | 0.938 | -0.25 | *pos.* | **0.026** | **0.69** | ***neg.*** | 0.210 | 0.20 | *pos.* | 0.848 | -0.24 | *neg.* | 0.281 | 0.10 | *neg.* |
| 11,000-6,700 | **0.020** | **0.72** | ***pos.*** | **0.048** | **0.58** | ***neg.*** | 0.074 | 0.49 | *neg.* | **0.014** | **0.77** | ***pos.*** | 0.256 | 0.13 | *neg.* | **0.024** | **0.70** | ***neg.*** |
| 12,700-7,700 | **0.028** | **0.67** | ***pos.*** | 0.122 | 0.36 | *neg.* | 0.100 | 0.41 | *neg.* | **0.026** | **0.69** | ***pos.*** | 0.309 | 0.07 | *neg.* | 0.074 | 0.49 | *neg.* |
| 15,800-8,400 | **0.018** | **0.73** | ***pos.*** | **0.044** | **0.60** | ***neg.*** | **0.033** | **0.65** | ***neg.*** | **0.016** | **0.75** | ***pos.*** | 0.310 | 0.06 | *neg.* | **0.043** | **0.60** | ***neg.*** |
| 22,400-9,000 | **0.008** | **0.82** | ***pos.*** | **0.001** | **0.93** | ***neg.*** | **0.001** | **0.95** | ***neg.*** | 0.092 | 0.44 | *pos.* | 0.291 | 0.09 | *pos.* | **0.011** | **0.80** | ***neg.*** |
|  |  |  |  |  |  |  |  |  |  | | | | | | | | | |
| Median Mass | | | | | | | | | | | | | | | | | | |
|  | Precipitation | | | Maximum Temperature | | | Minimum Temperature | | | Richness | | | Turnover | | | Similarity to Modern | | |
| Window (cal yr BP) | p-value | Adjusted r2 | Relation | p-value | Adjusted r2 | Relation | p-value | Adjusted r2 | Relation | p-value | Adjusted r2 | Relation | p-value | Adjusted r2 | Relation | p-value | Adjusted r2 | Relation |
| 6,700-0 | 0.675 | -0.19 | *pos.* | 0.495 | -0.10 | *neg.* | 0.061 | 0.53 | *neg.* | 0.325 | 0.05 | *neg.* | 0.343 | 0.03 | *neg.* | 0.052 | 0.57 | *neg.* |
| 7,700-1,500 | **0.001** | **0.93** | ***pos.*** | 0.939 | -0.25 | *pos.* | 0.465 | -0.08 | *neg.* | 0.417 | -0.04 | *neg.* | 0.327 | 0.05 | *neg.* | 0.329 | 0.04 | *neg.* |
| 8,400-3,100 | **0.041** | **0.61** | ***pos.*** | 0.963 | -0.25 | *neg.* | 0.359 | 0.01 | *neg.* | 0.708 | -0.20 | *neg.* | **0.005** | **0.86** | ***neg.*** | 0.103 | 0.41 | *neg.* |
| 9,000-5,400 | 0.275 | 0.11 | *pos.* | 0.205 | 0.20 | *neg.* | 0.606 | -0.16 | *pos.* | 0.461 | -0.07 | *pos.* | 0.499 | -0.10 | *neg.* | **0.033** | **0.65** | ***neg.*** |
| 9,400-6,100 | **0.021** | **0.72** | ***pos.*** | 0.118 | 0.37 | *neg.* | 0.811 | -0.23 | *pos.* | **0.014** | **0.77** | ***pos.*** | 0.070 | 0.50 | *neg.* | **0.014** | **0.77** | ***neg.*** |
| 10,000-6,400 | **0.017** | **0.74** | ***pos.*** | 0.055 | 0.55 | *neg.* | 0.304 | 0.07 | *neg.* | 0.069 | 0.50 | *pos.* | 0.345 | 0.03 | *neg.* | **0.010** | **0.80** | ***neg.*** |
| 11,000-6,700 | 0.106 | 0.40 | *pos.* | 0.240 | 0.15 | *neg.* | 0.369 | 0.00 | *neg.* | 0.079 | 0.47 | *pos.* | 0.327 | 0.05 | *neg.* | **0.013** | **0.78** | ***neg.*** |
| 12,700-7,700 | 0.863 | -0.24 | *neg.* | 0.508 | -0.10 | *pos.* | 0.515 | -0.11 | *pos.* | 0.918 | -0.25 | *neg.* | 0.872 | -0.24 | *neg.* | 0.917 | -0.25 | *pos.* |
| 15,800-8,400 | 0.240 | 0.15 | *neg.* | 0.185 | 0.24 | *pos.* | 0.240 | 0.15 | *pos.* | 0.310 | 0.07 | *neg.* | 0.983 | -0.25 | *pos.* | 0.223 | 0.18 | *pos.* |
| 22,400-9,000 | 0.576 | -0.14 | *neg.* | 0.905 | -0.24 | *pos.* | 0.949 | -0.25 | *neg.* | 0.316 | 0.06 | *neg.* | 0.422 | -0.04 | *pos.* | 0.631 | -0.17 | *pos.* |