**Supplementary material 2 - 14C dating and age-depth model results**

Table 1. Results of 14C dating of charcoal samples from Cozzo del Lampo – Profile A.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Lab. code** | **Depth (cm)** | **δ13C (‰)** | **14C age (BP)** | **Calibrated age**  68.2% probability | 95.4% probability |
| Ua-82485 | 13 | −24.2 | 120.8 ± 0.4 |  |  |
| Ua-82486 | 110 | (1) | 6 475 ± 41 | BC 5476 - BC 5467 (9.4%)  BC 5441 - BC 5381 (58.1%) | BC 5518 - BC 5499 (2.9%)  BC 5481 - BC 5357 (90.6%)  BC 5346 - BC 5331 (1.8%) |
| Ua-82487 | 142 | −24.9 | 5 619 ± 35 | BC 4490 - BC 4471 (14.8%)  BC 4459 - BC 4441 (16.2%)  BC 4421 - BC 4391 (22.7%)  BC 4389 - BC 4368 (14.5%) | BC 4535 - BC 4517 (4.7%)  BC 4504 - BC 4358 (90.7%) |

(1) Not enough material for analysis.

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Figure 16. A Bayesian age-depth model for Cozzo del Lampo – Profile A, produced in R using the package Bacon (Blaauw et al. 2022). In the model, the 14C dates (BP) are shown in blue. The red line shows the mean age/depth values, and the grey and outer stippled lines suggest the margin of error and the minimum and maximum age ranges (95% confidence) at the particular depth, respectively.