Supplementary Table 1. Calibrated dates for the studied sites. Calibration was performed with OxCal v.4.3.2 (Bronk Ramsey 2017), SHCal13 atmospheric curve (Hogg et al. 2013), 95.4% probability. Dates published in Latorre et al. 2013 were recalibrated with this same curve. Only the marine gastropods dates were not recalibrated. These were originally calibrated with CALIB7.01, and with the marine curve MARINE13 (Reimer et al. 2013), assuming a reservoir effect of 400±70 years (de Pol-Holz et al. 2010), and a 100% of marine carbon contribution.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Site** | **Level** | **Lab code** | **14C years** | **1σ error** | **Age (Median, cal BP)** | **Lower cal range BP** | **Upper cal range BP** | **Material** | **Reference** |
| QM12c | 1 | UCIAMS 84346 | 12420 | 35 | 14410 | 14145 | 14730 | Charcoal | Latorre et al. 2013 |
| QM12c | 1 | UGAMS 7049c | 10800 | 30 | 12700 | 12665 | 12735 | Charcoal | Latorre et al. 2013 |
| QM12c | 1 | UCIAMS 89014 | 4580 | 20 | 5155 | 5050 | 5315 | Fibrous plant | Latorre et al. 2013 |
| QM12c | 2 | UCIAMS 89016 | 13920 | 40 | 16810 | 16570 | 17025 | Charcoal | Latorre et al. 2013 |
| QM12c | 2 | UCIAMS 89015 | 10080 | 25 | 11530 | 11350 | 11750 | Fibrous plant | Latorre et al. 2013 |
| QM12c | 2 | UCIAMS 89019 | 10505 | 25 | 12420 | 12115 | 12550 | Fibrous plant | Latorre et al. 2013 |
| QM12c | 2 | UCIAMS 89020 | 10120 | 25 | 11645 | 11400 | 11805 | Fibrous plant | Latorre et al. 2013 |
| QM12c | 2 | UCIAMS 89458 | 10655 | 25 | 12200 | 12160 | 12225 | Marine gastropod | Latorre et al. 2013 |
| QM12c | 3 | UGAMS 8241 | 10130 | 30 | 11660 | 11395 | 11920 | Wood | Latorre et al. 2013 |
| QM12c | 3 | UGAMS 8242 1 | 10220 | 30 | 11865 | 11710 | 12015 | Wood | Latorre et al. 2013 |
| QM12c | 3 | UGAMS 8243 | 10340 | 30 | 12040 | 11835 | 12375 | Wood | Latorre et al. 2013 |
| QM12c | 3 | UCIAMS 89017 | 10160 | 25 | 11740 | 11410 | 11980 | Fibrous plant | Latorre et al. 2013 |
| QM12c | 3 | UCIAMS 89022 | 10360 | 30 | 12100 | 11945 | 12390 | Animal dung | Latorre et al. 2013 |
| QM12c | 4/feature 13 | UCIAMS 89018 | 10930 | 30 | 12750 | 12700 | 12815 | Charcoal | Latorre et al. 2013 |
| QM12c | 4 | UCIAMS 89021 | 10165 | 25 | 11750 | 11980 | 11500 | Fibrous plant | Latorre et al. 2013 |
| QM12c | 5 | UCIAMS 84347 | 10365 | 25 | 12105 | 11955 | 12385 | Charcoal | Latorre et al. 2013 |
| QM12c | 5 | UGAMS 7050e | 10210 | 30 | 11850 | 11645 | 12010 | Charcoal | Latorre et al. 2013 |
| QM12c-NE | 1 | AA  112846 | 11892 | 60 | 13660 | 13485 | 13790 | Charcoal | This study |
| QM12c-NE | 2 | AA 112847 | 14449 | 75 | 17560 | 17310 | 17840 | Charcoal | This study |
| QM12c-NE | 3 | AA 112548 | 10370 | 30 | 12140 | 11965 | 12395 | Charcoal | This study |
| QM12c-NE | 3 | AA 112463 | 10212 | 50 | 11840 | 11610 | 12035 | Bone | This study |
| QM12c-NE | 4 | AA 112551 | 10110 | 30 | 11615 | 11395 | 11805 | Wooden stake | This study |
| QM12d | 2 | AA 112546 | 10200 | 30 | 11830 | 11640 | 12000 | Charcoal | This study |
| QM12d | 2 | AA 112547 | 10210 | 30 | 11850 | 11645 | 12010 | Charcoal | This study |
| QM35 | 4 | D-AMS 028064 | 9886 | 41 | 11245 | 11185 | 11345 | Bone | Herrera et al. 2019 |
| QM35 | 3 | D-AMS 028065 | 10044 | 39 | 11475 | 11270 | 11705 | Bone | Herrera et al. 2019 |
| QM35 | 5 | D-AMS 028066 | 10160 | 40 | 11735 | 11405 | 11980 | Bone | Herrera et al. 2019 |
| QM35 | 6 | D-AMS 028067 | 10002 | 45 | 11385 | 11245 | 11615 | Bone | Herrera et al. 2019 |
| QM35 | 2 | D-AMS 028068 | 9828 | 49 | 11210 | 11105 | 11290 | Bone | Herrera et al. 2019 |
| QM35 | 7 | D-AMS 028069 | 10089 | 37 | 11550 | 11340 | 11760 | Bone | Herrera et al. 2019 |
| QM35 | 8 | D-AMS 028070 | 10189 | 40 | 11800 | 11505 | 12010 | Bone | Herrera et al. 2019 |
| **Paleoecological samples** | |  |  |  |  |  |  |  |  |
| QM35 | paleo surface | D-AMS 028052 | 12529 | 42 | 14695 | 14300 | 15030 | Charred bark | Herrera et al. 2019 |
| QM35 | paleo surface | D-AMS 028053 | 12366 | 45 | 14290 | 14085 | 14655 | Wood | Herrera et al. 2019 |
| QM35 | paleo surface | D-AMS 028054 | 12449 | 38 | 14480 | 14170 | 14805 | Charred bark | Herrera et al. 2019 |
| QM35 | surface | D-AMS 028062 | 14052 | 51 | 17015 | 16735 | 17250 | Freshwater shell | Herrera et al. 2019 |
| QM35 | surface | D-AMS 028063 | 13974 | 46 | 16895 | 16625 | 17105 | Freshwater shell | Herrera et al. 2019 |

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