**Supplementary Table 3: Results of Bayesian model presented in Figure 8**

The modelled probability distributions were produced in OxCal (Bronk Ramsey 2009a, 2009b) against IntCal13 (Reimer et al. 2013). The convergence values should be above 95% (Bronk Ramsey 1995).

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | Unmodelled (BP) | |  |  | Modelled (BP) | |  |  |  |
|  | 68.2 |  | 95.4 |  | 68.2 |  | 95.4 |  | Conver-gence |
|  | from | to | from | to | from | to | from | to |  |
| Boundary End | |  |  |  | 43577 | 43085 | 43848 | 42712 | 95.4 |
| R\_Date COL2714.1.1 | 43756 | 42757 | 44403 | 42435 | 43613 | 43199 | 43875 | 42986 | 99.1 |
| R\_Combine COL2715 | 43686 | 42981 | 44145 | 42745 | 43605 | 43205 | 43852 | 43015 | 99.2 |
| R\_Combine COL2716 | 44036 | 43277 | 44439 | 43002 | 43612 | 43225 | 43854 | 43054 | 99.4 |
| Boundary Level G/Levels C and D | | |  |  | 43700 | 43300 | 43947 | 43146 | 99.5 |
| R\_Date COL4019.1.1 | 41957 | 41485 | 42179 | 41224 | 43812 | 43360 | 44136 | 43195 | 99.4 |
| R\_Date COL4021.1.1 | 44191 | 43397 | 44590 | 43089 | 43815 | 43371 | 44116 | 43221 | 99.4 |
| R\_Date COL4018.1.1 | 43921 | 43156 | 44353 | 42893 | 43805 | 43367 | 44092 | 43218 | 99.4 |
| C\_Date C-L3895 | 46049 | 40652 | 48739 | 37962 | 43813 | 43360 | 44143 | 43197 | 99.4 |
| Boundary Level K/Level G | | |  |  | 43942 | 43400 | 44398 | 43225 | 98.9 |
| R\_Date COL4020.1.1 | 38029 | 37144 | 38320 | 36813 | 44099 | 43411 | 44839 | 43228 | 98.3 |
| Boundary Level M/Level K | | |  |  | 44270 | 43406 | 45375 | 43229 | 97.8 |
| C\_Date C-L3896 | 48048 | 41454 | 51336 | 38166 | 44478 | 43416 | 45898 | 43235 | 97.1 |
| Boundary Level O/Level M | | |  |  | 44686 | 43418 | 46441 | 43238 | 96.3 |
| C\_Date C-L3897 | 48149 | 42353 | 51037 | 39464 | 44908 | 43386 | 47029 | 43241 | 94.7 |
| Boundary Start Level O | |  |  |  | 45212 | 43385 | 47680 | 43250 | 76.9 |

References

Bronk Ramsey, C., 1995. Radiocarbon calibration and analysis of stratigraphy: The OxCal program. *Radiocarbon 37*(2), 425−430.

Bronk Ramsey, C., 2009a. Bayesian analysis of radiocarbon dates. *Radiocarbon* 51(1), 337−360.

Bronk Ramsey, C.B., 2009b. Dealing with outliers and offsets in radiocarbon dating. *Radiocarbon* 51(3), 1023−1045.

Reimer, P. J., Bard, E., Bayliss, A., Beck, J. W., Blackwell, P. G., Bronk Ramsey, C., Grootes, P. M., Guilderson, T. P., Haflidason, H., Hajdas, I., Hatte, C., Heaton, T. J., Hoffmann, D. L., Hogg, A. G., Hughen, K. A., Kaiser, K. F., Kromer, B., Manning, S. W., Niu, M., Reimer, R. W., Richards, D. A., Scott, E. M., Southon, J. R., Staff, R. A., Turney, C. S. M., van der Plicht, J. 2013. IntCal13 and Marine13 Radiocarbon Age Calibration Curves 0-50,000 Years cal BP. *Radiocarbon* 55(4) 1869−1887.