

Age depth modelling and EPD chronologies

In this workshop we will discuss dates we used for deriving age models for sites in the EPD and introduce the uncertainty classification of samples adapted for about 800 sites in the EPD. These models were generated with CLAM and we will use this collection of R-functions to calibrate radiocarbon dates and look at their probability distribution as well as for making age models. Bayesian age-depth modelling is increasingly used and we will discuss the advantages and disadvantages as well as exploring Bayesian age-depth modelling using Oxcal and Bacon.

Software to install

Please have a recent version of “R” installed on your computer: <https://www.r-project.org/>

R-Studio is a convenient interface for R and makes it easier to get started: <https://www.rstudio.com/>

Find Maarten Blaauw webpage (<http://chrono.qub.ac.uk/blaauw/>) and download Clam and Bacon. In both cases you need to unzip the downloaded files in move them to a desired folder.

If you have a powerful computer download also Oxcal. If your computer is old and or slow it may be more convenient to run Oxcal on-line. In this case you should set up an account:

<http://c14.arch.ox.ac.uk/embed.php?File=oxcal.html>