## **Description of Additional Supplementary Files**

File Name: Supplementary Data 1 Description: MD01-2444 data from palaeoceanographic, sediment and pollen analyses.

File Name: Supplementary Data 2 Description: Corchia Cave isotopic data

File Name: Supplementary Data 3 Description: Corchia Cave U-Th age data

File Name: Supplementary Data 4 Description: Age models for MD01-2444, ODP984 and MD03-2664