

Description of Additional Supplementary Files:

Supplementary Data 1: Coarse fraction and $\delta^{18}\text{O}_b$ data generated in this study.

Supplementary Data 2: Depth-to-age tie points used in the astronomical tuning.

Supplementary Data 3: Quality criteria used to analyse the $\delta^{18}\text{O}_b$ records of Sites 926, 1090, 1218, 1264, and U1406 (presented here). Records are considered complete when there are no gaps, here defined as insufficient sampling resolution ($>10 \text{ kyr sample}^{-1}$) over prolonged intervals ($>200 \text{ kyr}$).

Supplementary Data 4: Coulometric carbonate content data generated in this study