Table S1. IODP Site U1446 age-depth tie points from Clemens et al. (2021). *New control point added for this study.

Site U1446 CCSFD (m)	Control points LR04 Age (ka)
73,43	382,27
76,141*	401*
81,3	428,24
82,07	436,77
67.93	490,93

Table S2. Regression coefficients (R) of linear regression between simulated tree fraction and climate variables for the transient experiments with time-varying insolation and CO_2 concentration. The calculation was performed on the 1000-year running mean of the original simulated data.

	R
Annual mean temperature	0,349
Annual mean precipitation	0,996