

5	1_2_3_4	70	0.49	60	4.36	145	15	TRUE
6	1_2_3_4_5	159	0.4	137	5.12	5565	18	TRUE
7	1_2_3_4_5_6	74	0.56	60	5.3	3218	60	TRUE
8	1_2_3_4_5_6_7	123	0.42	106	4.8	958	≥1000	TRUE
Yew_8	Oak	311	0.37	273	6.64	≥10 ⁶	≥1000	TRUE

Table S4. Raw radiocarbon (¹⁴C) dates reported in age Before Present (BP) and calendar dates derived via $\delta^{18}\text{O}$ dating reported in years Before Common Era (BCE; datum includes the year zero).

Lab code	$\delta^{13}\text{C}$ (‰)	Raw ¹⁴ C age BP	¹⁴ C age σ	Year BCE
ETH 111184.1.1	-23.5	4,012	17	2539
54891	-22.2	3,998	18	2533
ETH 111180.1.1	-21.3	4,001	17	2523
ETH 111179.1.1	-25.2	3,983	17	2466
ETH 111182.1.1	-21.7	3,917	17	2437
ETH 111172.1.1	-21.5	3,928	17	2394
ETH 111174.1.1	-22.8	3,898	17	2377
ETH 111183.1.1	-20.9	3,886	17	2373
ETH 111177.1.1	-21.4	3,907	17	2368
ETH 111173.1.1	-24.0	3,905	17	2367
ETH 111178.1.1	-21.8	3,909	17	2336

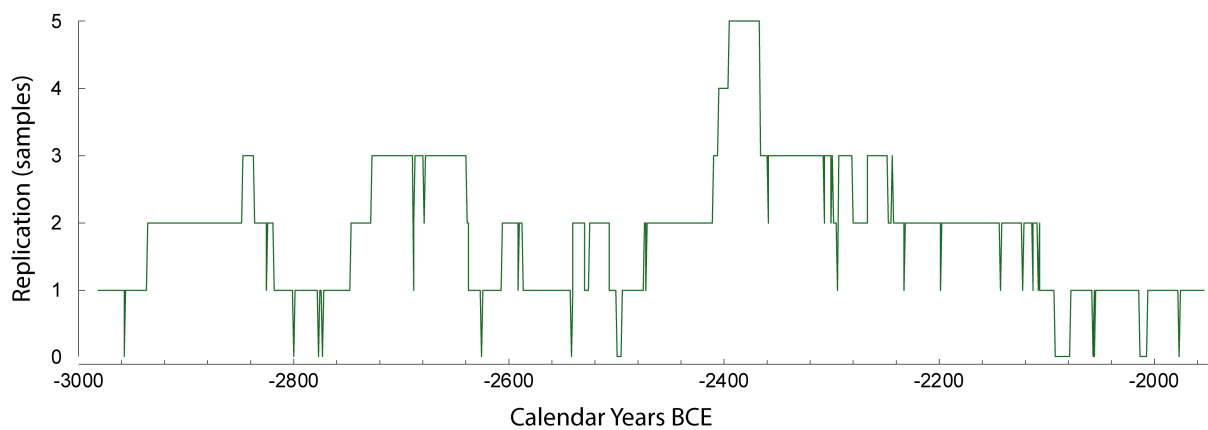


Figure S1. Sample replication of the reference oak stable oxygen isotope chronology used in this study and currently in development at Swansea University, UK.

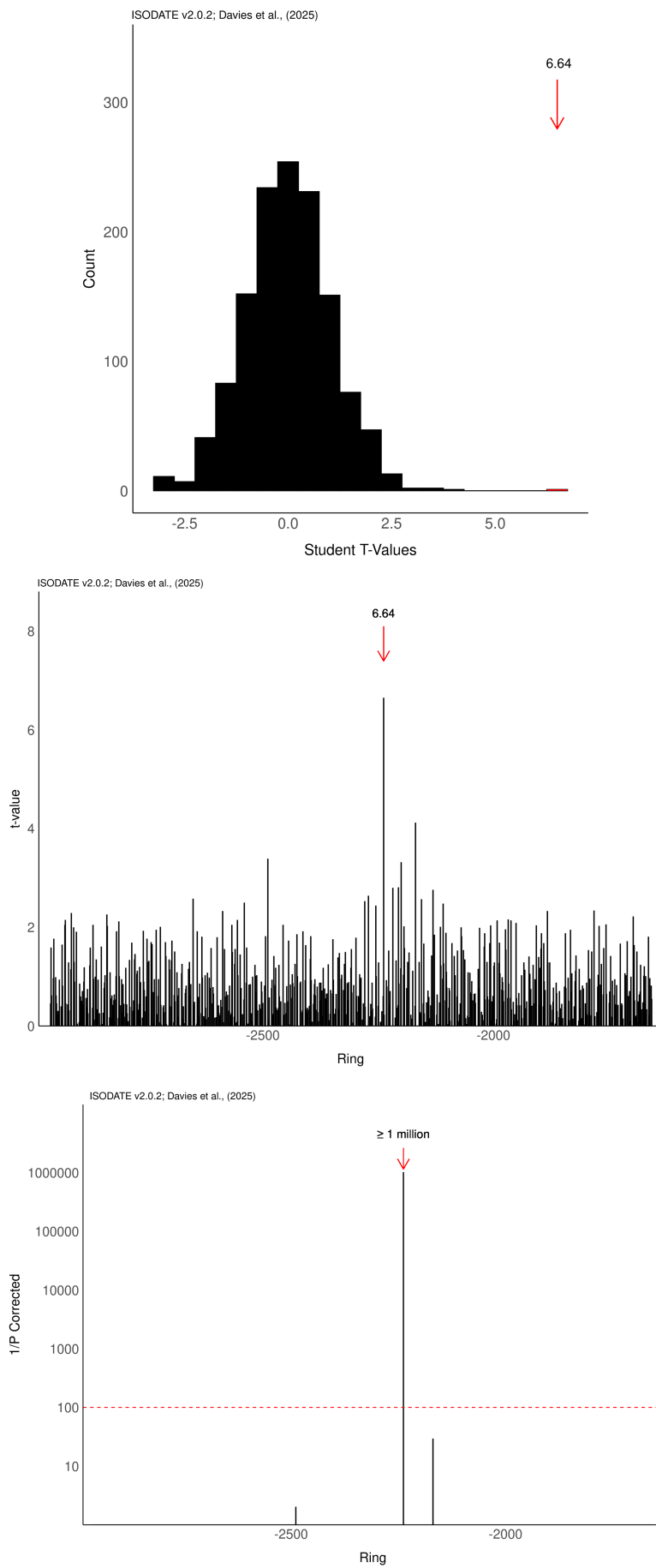


Figure S2. Statistical comparison of the mean of the eight cross-dated yew $\delta^{18}\text{O}$ series against the oak $\delta^{18}\text{O}$ reference chronology, produced using ISODATE (Davies et al., 2025).