



Supplement of

The Early–Middle Pleistocene Transition in the Gulf of Cadiz (NE Atlantic) – an interplay between subtropical gyre and extremely cold surface waters

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Table S1 Province assemblage means for the different Marine Isotopic Stages (MIS) at IODP Site U1387

MIS	% Tropical+Subtropical Species	% Transitional Species	% Polar+Subpolar Species
18	12.78	57.74	29.48
19	20.97	45.75	32.84
20	24.92	46.84	28.25
21	26.93	38.06	34.92
22	19.72	30.33	49.90
23	23.56	31.28	45.09
24	16.25	43.04	40.67
25	27.04	41.13	31.83
26	19.73	41.80	38.47
27	21.42	47.15	31.44
28	16.92	35.03	48.05

Fig. S1: SEM images of *N. pachyderma* from IODP Site U1387

1-2: U1387B-21X-1 52-54 cm, scale bar 100µm, 790.25 ka; 3-5: U1387B-22X-3 52.5-54.5 cm; scale bar 100µm; 863.92 ka; 6: U1387B-22X-3 78-80 cm, scale bar 200µm, 866.01 ka; 7-10: U1287B-22X-3 102-104 cm, scale bar 100µm, 867.92 ka; 11-12: U1387B-22X-3 120-122 cm, scale bar 200µm, 869.36 ka; 13: U1387A-23X-2 88-90 cm, scale bar 200µm, 890.80 ka; 14: U1387B-24X-CC 21-23 cm, scale bar 100µm, 958.41 ka; 15-18: U1387B-24X-CC 26-28 cm; 15, 16 scale bar 200µm, 17, 18 scale bar 100 µm, 958.54 ka; 19-20: U1387B-25X-6 125-127 cm, scale bar 200µm, 1001.26 ka

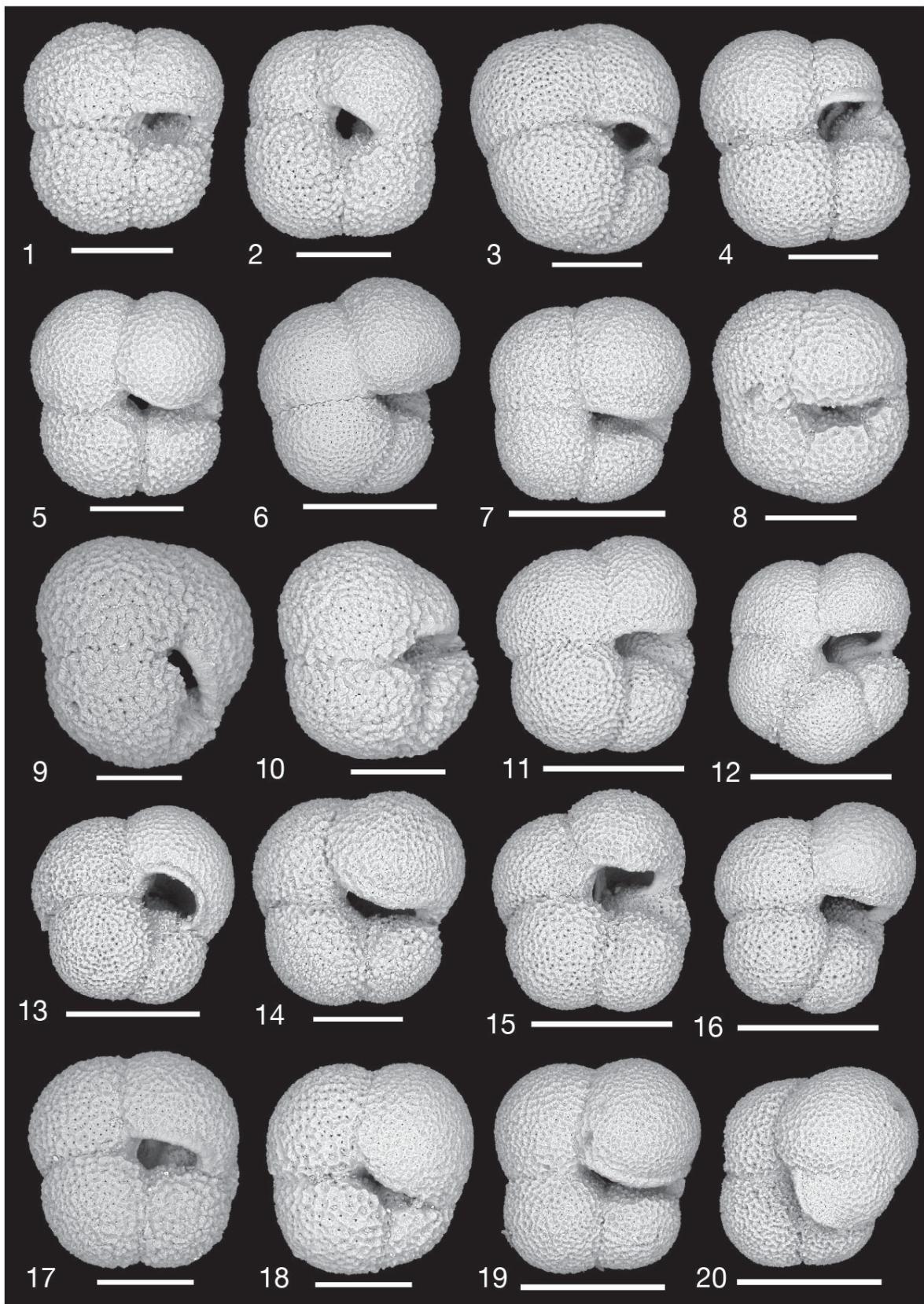


Fig. S2: Probstack related age model and sedimentation rates

A: $\delta^{18}\text{O}$ (‰) *G. bulloides* from IODP Site U1387 for the Probstack related age model (red) and the LR04 age model (black). Marine Isotopic Stages and Substages are indicated numbers and letters. B: $\delta^{18}\text{O}$ (‰) *G. bulloides* from IODP Site U1385 on its Probstack related age model (Hodell et al., 2023b). Arrows between A and B indicate the tuning points between the two records, which remain at the same stratigraphic positions as for the tuning to the U1385 LR04 related age model. C: Sedimentation rates (cm/kyr) for IODP Site U1387 related to Probstack (red) and LR04 (black).

