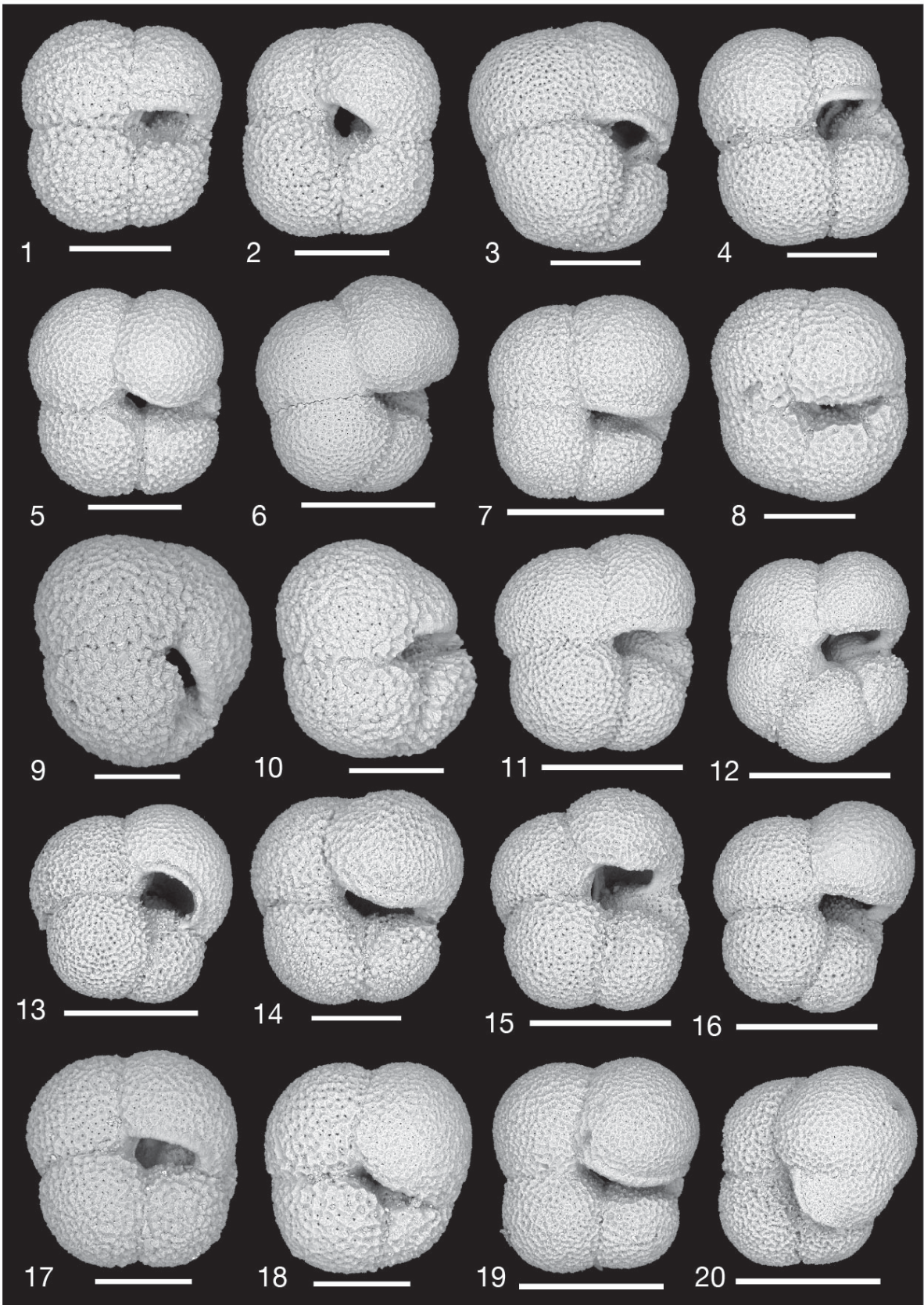
Mega et al. "Subtropical gyre persistence in the Gulf of Cadiz, southern Iberian margin, interrupted by extremely cold surface water incursions during the Early – Middle Pleistocene Transition"

Supplementary Table 1 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

Supplementary figure 1: 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

Supplementary Figure 2: Probstack related age model and sedimentation rates

A: δ¹⁸O (‰) *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: δ¹⁸O (‰) *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).