Table S1. Mean values for the MH and LH time slices. All measurements are on *G. ruber*, unless indicated.

			3kyr-long time slices																	
Core	Latitude	Longitude	0-3K δ^{18}Oc (‰)	±1σ	N	0-3K SST (°C)	±1σ	N	0-3K δ^{18}Osmow(‰)	±1σ	N	7.5-4.5k δ^{18}Oc (‰)	±1σ	N	7.5-4.5K SST (°C)	±1σ	N	7.5-4.5k δ^{18}Osmow (‰)	±1σ	N
									E trop. Pac.											
TR163-19[1]	2.26	-90.95	-2.17	0.14	2	25.5	0.4	2	-0.03	±0.22	2	-2.21	0.17	3	26.0	0.2	3	0.04	±0.18	3
V21-30(G. sacc.)[2]	-1.22	-89.68	-1.58	0.08	6	22.3	0.4	6	-0.00	±0.14	6	-1.30	0.14	9	21.8	0.2	10	0.17	±0.14	10
V21-30 [3]	-1.22	-89.68	-1.77	0.11	7	23.4	0.6	7	0.03	±0.14	7	-1.59	0.13	13	23.0	0.3	15	0.11	±0.16	13
TR163-22[4]	0.515	-92.4	-1.47	0.14	5	24.4	0.1	5	0.44	±0.21	5	-1.59	0.22	8	24.1	0.1	8	0.28	±0.20	8
									W. trop. Pac.											
MD98-2181[5]	6.3	125.83	-2.78	0.20	96	29.0	0.6	80	0.04	±0.20	67	-2.64	0.18	45	29.6	0.4	55	0.37	±0.17	52
MD98-2176[5]	-5	124	-2.73	0.14	74	28.9	0.6	75	0.08	±0.2	74	-2.56	0.12	57	29.3	0.5	59	0.37	±0.13	55
MD98-2170[5]	-11	134	-2.85	0.11	14	29.4	0.2	13	0.17	±0.06	13	-2.80	0.12	6	29.5	0.4	8	0.11	±0.12	7
MD98-2162[6]	-4.69	117.9	-3.19	0.17	7	29.1	0.3	7	-0.29	±0.20	7	-3.23	0.28	7	29.2	0.5	7	-0.32	±0.32	7
									NW Pacific											
A7[7]	27.82	126.98	-2.31	0.14	21	26.6	0.6	21	0.07	±0.17	21	-2.02	0.31	21	26.1	0.6	21	0.25	±0.26	21

[1]Lea et al., 2000; Spero and Lea, 2003; [2]Koutavas et al., 2002, [3]Koutavas, et al. 2006, [4]Lea et al., 2006, [5]Stott et al., 2004, [6]Visser et al, 2003, [7]Sun et al., 2005

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