

Supporting Information

Yasuhara et al. 10.1073/pnas.0910935106

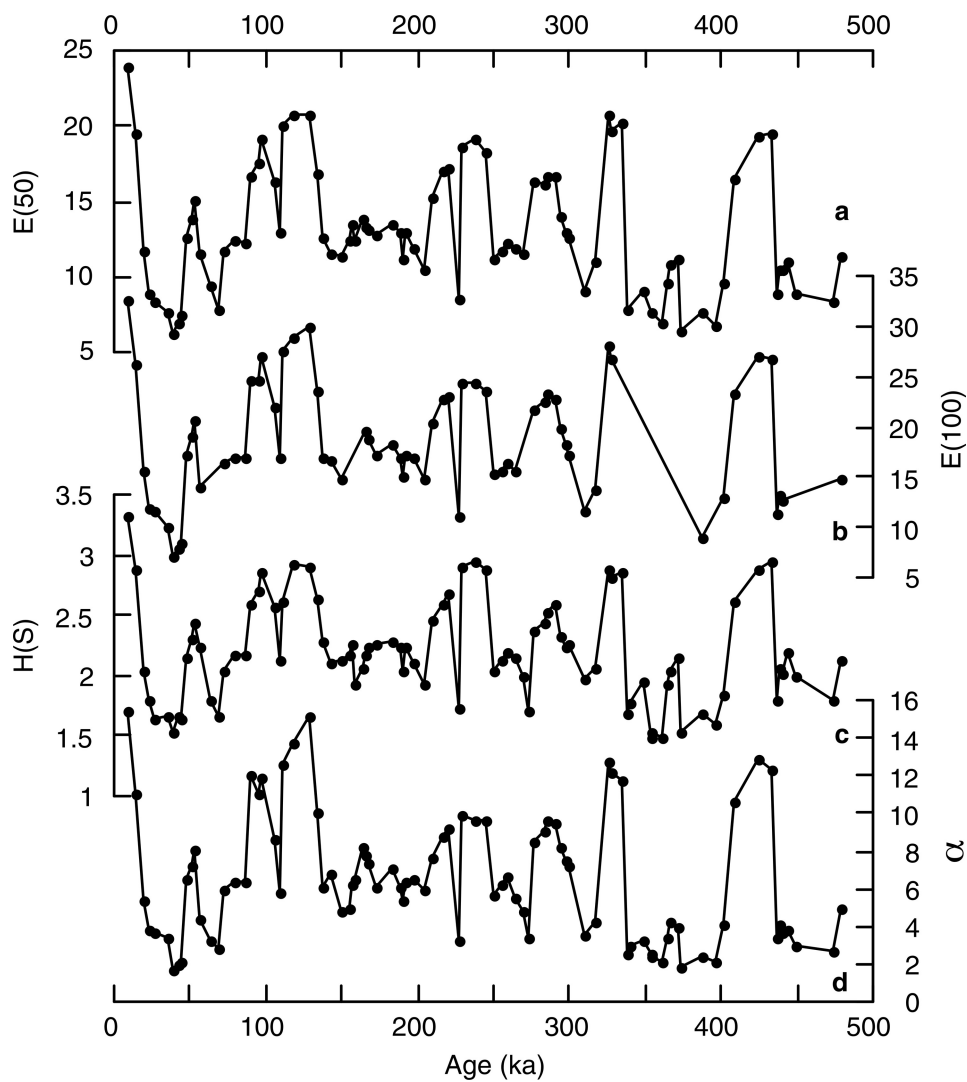


Fig. S1. Ostracod species diversity represented as E(50) (A), E(100) (B), Shannon index [H(S)] (C), and Fisher's alpha (α) (D).

Table S1. Modern coretop (=Holocene) and Last Glacial Maximum (LGM: ≈ 20 ka) species diversity E(50) of North Atlantic and Arctic deep-sea sites (>1,000 m water depth)

Site	ODP 925	ODP 1055	Chain 82–24	ODP 980	ODP 982	PS 1243	PS 2163–1	PS 2170–4
Modern E(50)	24.7	16.7	12.6	12.9	8.8	4.7	4.2	4.0
No. samples lumped	1	6	2	1	1	6	1	1
Modern slope spp. E(50)	19.4	9.3	8.8	12.3	8.6	2.0	3.8	3.0
No. samples lumped	1	9	9	4	3	25	1	2
LGM E(50)	7.3	15.2	9.0	12.3	16.8	6.4	NA	4.0
No. samples lumped	2	1	2	1	1	1	NA	2
Latitude ($^{\circ}$ N)	4.2	32.8	41.7	55.5	57.5	69.4	86.2	87.6
Water depth (m)	3,040	1,798	3,427	2,179	1,145	2,715	3,040	4,083
References	This study	1	2	This study	This study	3	4	4

1. Yasuhara M, Cronin TM, deMenocal PB, Okahashi H, Linsley BK (2008) Abrupt climate change and collapse of deep-sea ecosystems. *Proc Natl Acad Sci USA* 105:1556–1560.
2. Cronin TM, DeMartino DM, Dwyer GS, Rodriguez-Lazaro J (1999) Deep-sea ostracode species diversity: Response to late Quaternary climate change. *Mar Micropaleontol* 37:231–249.
3. Cronin TM, Boomer I, Dwyer GS, Rodriguez-Lazaro J (2002) in *The Ostracoda: Applications in Quaternary Research*, eds Holmes JA, Chivas AR (American Geophysical Union, Washington, DC), pp 99–119.
4. Cronin TM, et al. (1995) Late Quaternary paleoceanography of the Eurasian Basin, Arctic Ocean. *Paleoceanography* 10:259–281.