

Table S2

1/2

Sample	KG02	KG04	KG06	KG08	KG10	KG12	KG14	KG16	KG18	KG20	KG21	KG22	KG23	KG26	KG28	KG30	KG32	KG34	KG36
Age (ka) (Suganuma et al., 2018)	751.76	752.22	752.74	753.34	753.92	754.53	755.05	755.71	756.36	757.06	757.44	757.80	758.16	759.22	759.89	760.65	761.60	762.34	763.12
Preservation	G	G	G	G	G	G	G	M	G	M	G	G	M	G	G	G	G	G	G
<i>Calcidiscus leptoporus</i>	2	2	2	+	3	3	1	6	3	2	5	4	4	1	3	3	3	3	+
<i>Coccolithus palegicus braarudii</i>	+	1	1	+	+	1	+	+	+	2	+	1	1	+	+	+	2	+	+
<i>Coccolithus pelagicus pelagicus</i>				+			+	+				+				1	1	+	2
<i>Florisphaera profunda</i>	20	39	24	29	28	30	40	34	43	23	50	47	34	76	49	39	57	44	27
<i>Gephyrocapsa</i> spp. (< 3 µm)	106	84	87	99	89	90	83	98	79	100	69	74	76	71	73	78	70	92	94
<i>Gephyrocapsa</i> spp. (3–4 µm)	28	25	38	28	42	43	41	18	28	24	24	19	39	22	39	35	31	30	32
<i>Gephyrocapsa</i> spp. (4–5 µm)	18	23	21	21	20	12	21	27	20	28	32	36	19	15	20	28	17	8	10
<i>Gephyrocapsa</i> spp. (5 µm ≤)			2		1	1	+	2	+	1	1	+	4	+	4				
<i>Helicosphaera</i> spp.	1	4	6	1	1	3	1	2	5	3	7	10	5	3	3	5	1	2	8
<i>Oolithotus antillarum</i> + <i>O. fragilis</i>	1	2	1	3					1						2	1			
<i>Pseudoemiliania lacunosa</i>	16	10	10	7	12	3	5	6	14	12	3	5	9	5	1	3	10	16	19
<i>Rhabdosphaera clavigera</i>	1	2	+	+		1	1		1			+			+				
<i>Syracosphaera pulchra</i>				1	1		1				1								
<i>Umbilicosphaera sibogae</i>	1	2	5	3	3	9	3	6	4	1	6	1	7	2	4	6	7	4	5
other minor taxa + miscellaneous	6	6	3	8		4	3	1	2	4	2	3	2	5	2	1	1	1	3
Total	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200

Sample	KG38	TB2-120	TB2-115	TB2-110	TB2-105	TB2-100	TB2-60	TB2-56	TB2-52	TB2-48	TB2-44	TB2-00	TB2-04	TB2-08	TB2-12	TB2-16	TB2-20	TB2-24	TB2-28
Age (ka) (Suganuma et al., 2018)	764.00	764.56	765.13	765.69	766.25	766.82	767.38	767.83	768.28	768.73	769.18	770.14	770.59	771.04	771.49	771.94	772.39	772.85	773.30
Preservation	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
<i>Calcidiscus leptoporus</i>	3	3	4		3	2	+	2	+	2	2	2	3	2	+	4	+	+	2
<i>Coccolithus palegicus braarudii</i>	2	4	+				+	+	1	+	+	+	1	+		+	1	+	+
<i>Coccolithus pelagicus pelagicus</i>	+		+											+		1	2		
<i>Florisphaera profunda</i>	34	26	26	33	25	40	75	23	39	33	52	33	21	34	33	33	40	23	34
<i>Gephyrocapsa</i> spp. (< 3 µm)	95	89	93	125	96	90	79	115	128	117	98	80	87	94	79	92	61	71	77
<i>Gephyrocapsa</i> spp. (3–4 µm)	26	38	36	27	48	47	31	34	12	25	25	49	60	37	56	41	50	59	49
<i>Gephyrocapsa</i> spp. (4–5 µm)	12	7	13	3	6	2	5	6	4	6	8	16	14	12	18	17	22	33	26
<i>Gephyrocapsa</i> spp. (5 µm ≤)												+		1	3	1	2	2	1
<i>Helicosphaera</i> spp.	7	7	2	2	2	3	1	2	4	2	1	4	4	+	2	2	+	3	2
<i>Oolithotus antillarum</i> + <i>O. fragilis</i>		1		1	1			1					1	1					
<i>Pseudoemiliania lacunosa</i>	11	14	12	5	14	13	6	9	10	8	13	10	6	16	5	5	18	6	4
<i>Rhabdosphaera clavigera</i>			+						+				+				+		
<i>Syracosphaera pulchra</i>	1									1		1	+		+				+
<i>Umbilicosphaera sibogae</i>	7	10	13	3	3	2	2	6	2	6	1	5	2	3	4	3	2	3	1
other minor taxa + miscellaneous	2	1	1	1	2	1	1	2	+				1		+	1	2		4
Total	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200

Note: + = present but not included into 200 counts. G = good, M = moderate, P = poor.

Table S2

Sample	TB2-32	TB02	TB06	TB10	TB14	TB18	TB22	TB26	TB30	TB34	TB38	TB42	TB46	TB50	TB54	TB58	TB61	TB65	TB3-30
Age (ka) (Suganuma et al., 2018)	773.75	774.31	774.76	775.21	775.66	776.23	777.13	778.03	778.93	779.83	780.74	781.64	782.54	783.44	784.35	785.25	786.15	787.05	787.39
Preservation	G	G	G	G	G	M	G	G	G	G	G	G	G	G	G	G	G	G	G
<i>Calcidiscus leptoporus</i>	4	6	4	2	2	3	1	1	2	2	2	2	1	1	1	1	+	1	+
<i>Coccolithus palegicus braarudii</i>	+	+	+	1	+	+			+	1	+	2	2	+	1	1	5	1	+
<i>Coccolithus pelagicus pelagicus</i>		+		+										+	1	+	1		2
<i>Florisphaera profunda</i>	22	40	42	35	35	35	37	34	34	37	29	35	25	19	32	28	18	17	29
<i>Gephyrocapsa</i> spp. (< 3 µm)	94	78	90	79	106	101	126	118	105	105	94	102	115	112	123	135	133	122	136
<i>Gephyrocapsa</i> spp. (3–4 µm)	46	43	35	39	29	35	26	21	40	43	56	38	45	48	22	27	30	39	15
<i>Gephyrocapsa</i> spp. (4–5 µm)	23	25	11	21	17	15	8	15	10	5	14	17	6	9	12	5	11	14	15
<i>Gephyrocapsa</i> spp. (5 µm ≤)	2	+	2	+	1	+	+		+		1					+	+		
<i>Helicosphaera</i> spp.	2	1	1	2	1	+	+	2	+	1	1	+	1	4	1	+	+	+	1
<i>Oolithotus antillarum</i> + <i>O. fragilis</i>	1			1				2		+		1		2	1				
<i>Pseudoemiliana lacunosa</i>	2	1	8	10	7	6	2	3	3	3	1	1	1	1	1	1		2	+
<i>Rhabdosphaera clavigera</i>	1		1				+						+						+
<i>Syracosphaera pulchra</i>	1	1	1					1				+		+	+		+		
<i>Umbilicosphaera sibogae</i>	2	3	3	7	1	4	+	2	6	3	2	2	2	4	2	2	2	3	1
other minor taxa + miscellaneous	+	2	2	3	1	1	+	1			+	+	2	+	3	+	+	1	1
Total	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200

Sample	TB3-32	TB3-35	TB3-38	TB3-43	TB3-48	YN12	YN11	YN07	YN05	YN08	YW01	YW02	YW04	YW05	YW06	YW07	YW08	YW11
Age (ka) (Suganuma et al., 2018)	788.07	788.74	789.42	790.44	791.20	791.39	791.83	792.53	793.83	795.05	795.48	796.00	797.43	797.78	798.17	798.91	799.43	801.13
Preservation	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
<i>Calcidiscus leptoporus</i>	3	3	1	1	3	2	+	1	3	2	1	3	1	1	+	2	2	1
<i>Coccolithus palegicus braarudii</i>	3	3	+	+	3	2	+	2	+	+	1	+	+	+	+	+	2	
<i>Coccolithus pelagicus pelagicus</i>	+		+		2	1	+	1			+	1		+		+		1
<i>Florisphaera profunda</i>	9	9	13	1	7	5	14	14	12	13	7	11	6	11	19	7	3	7
<i>Gephyrocapsa</i> spp. (< 3 µm)	149	136	130	179	147	151	140	147	147	164	136	149	159	159	159	158	168	147
<i>Gephyrocapsa</i> spp. (3–4 µm)	20	29	25	4	21	26	25	16	21	9	20	22	18	26	18	28	14	28
<i>Gephyrocapsa</i> spp. (4–5 µm)	7	9	19	8	10	7	17	14	12	6	30	11	7	1	2	3	3	4
<i>Gephyrocapsa</i> spp. (5 µm ≤)					+	+	2		1		+	+		+				1
<i>Helicosphaera</i> spp.	2	1	3	2	2	+	2	1	+	2	1	1	+	+	+	+	1	+
<i>Oolithotus antillarum</i> + <i>O. fragilis</i>	1			1		2		1		1				1				
<i>Pseudoemiliana lacunosa</i>	5	3	2	2	2	4	+	1	2	1	2	1	3	+	1	1	4	2
<i>Rhabdosphaera clavigera</i>											1	+	1		1	1		
<i>Syracosphaera pulchra</i>	+		+		1		+		+	1		+		+	+			1
<i>Umbilicosphaera sibogae</i>	1	6	6	+	2	+	+	1	1	1	+	1	2	1	+	+	+	6
other minor taxa + miscellaneous	+	1	1	2	+	+	+	1	1	+	1	+	3		+	+	3	2
Total	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200

Note: + = present but not included into 200 counts. G = good, M = moderate, P = poor.