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Site U1409, Table T4. Nannofossil distribution, Site U1409.

Core, section, interval (cm)	Depth (mbsf)	Zone/Subzone	Nannofossil event	Age	Preservation	Abundance	*Calcidiscus macintyrei*	Calcispheres	*Chiasmolithus danicus*	*Chiasmolithus gigas*	*Chiasmolithus grandis*	*Chiasmolithus oamaruensis*	*Chiasmolithus solitus*	*Coccolithus formosus*	*Coccolithus pelagicus*	*Cruciplacolithus primus*	*Dictyococcites bisectus* (>10 µm)	*Discoaster barbadiensis*	*Discoaster brouweri*	*Discoaster diastypus*	*Discoaster lodoensis*	*Discoaster mohleri*	*Discoaster multiradiatus*	*Discoaster pentaradiatus*	*Discoaster saipanensis*	*Discoaster sublodoensis*	*Ellipsolithus macellus*	*Ericsonia robusta*	*Fasciculithus alanii*	*Fasciculithus richardii*	*Fasciculithus* spp.	*Fasciculithus tympaniformis*	*Fasciculithus ulii*	*Gephyrocapsa* (>4 µm)	*Gephyrocapsa* (>5.5 µm)	*Girgisia gammation*	*Heliolithus cantabriae*	*Heliolithus kleinpellii*	*Isthmolithus recurvus*	*Nannotetrina cristata*	*Nannotetrina fulgens*	*Pseudoemiliania lacunosa*	*Reticulofenestra reticulata*	*Reticulofenestra umbilicus* (>14 µm)	*Rhomboaster bramlettei*	*Rhomboaster* spp.	*Sphenolithus anarrhopus*	*Sphenolithus furcatolithoides*	*Sphenolithus moriformis*	*Sphenolithus predistentus*	*Sphenolithus radians*	*Toweius pertusus*	*Tribrachiatus contortus*	*Tribrachiatus orthostylus*
342-U1409A-																																																				
1H-CC	1.02	NN20/NN21		Pleistocene	M	A																																														
2H-4, 75	6.35	NN20/NN21			M–G	A																										A	C																			
2H-CC	10.64	NN19	T *P. lacunosa*	Pleistocene	M–G	A																										A																			
3H-4, 75	15.85	NN16	T *D. pentaradiatus*	late Pliocene	P	VR	F																									C	C							C											
3H-CC	20.60	—		—	—	B													R					R																											
4H-CC	30.08	NP23	No *S. distentus*; no *R. umbilicus*	early Oligocene	G	A									F		F–C																													F	C						
5H-2, 75	31.85	NP22	T *R. umbilicus*, T *I. recurvus*	early Oligocene	M	A								1	C		C																			C						C									
5H-4, 75	34.85	NP17	T *S. furcatolithoides*	middle Eocene	G	A		R			F			F	C			F						R																C	F			F	F		F				
5H-6, 75	37.85	NP17	No *C. solitus*	middle Eocene	G	A		R			F			F	C			F																						C	C			F	F						
5H-CC	38.70	NP16	T *C. solitus*	middle Eocene	G	A		C			F		F	F	C			F																						F	C			F	C		R				
6H-2, 100	41.60	NP16		middle Eocene	G	A		R			F		F	F	C			F																						C	F			F	F						
6H-4, 84	44.44	NP16		middle Eocene	G	A		R			F		F	F	C			F						R																F				F			R				
6H-6, 80	47.40	NP16	T *N. cristata*	middle Eocene	M–G	A		R			F		F	F	C			F																				R							R						
6H-6, 81	47.41	NP16		middle Eocene	G	A		R			F		F	F	C			F																				R							F						
6H-CC	49.18	NP15c	T *N. fulgens*	middle Eocene	G–M	A		F			F		F	F	C			F																				F	1						F	F		R			
7H-4, 57	53.68	NP15c		middle Eocene	G	A		R			F		F	F	C			F																				R							F	F		R			
7H-CC	58.54	NP15b	T *C. gigas*	middle Eocene	G–M	A		R		R	F		F	F	C			F																				F			1?				F	F		R			
8H-CC	68.01	NP15b		middle Eocene	G–M	A		R		R	F		F	F	C			F																				F	1		2?				F	F		R			
9H-CC	77.61	NP15b		middle Eocene	G	A		R		R	R		F	F	C			F																				R							cf.	F		R			
10H-CC	86.04	NP15b		middle Eocene	G	A		R		R	R		F	F	C			F							F													F	R						F			R			
11H-2, 39	88.49	NP15b	B *C. gigas*	middle Eocene	G	A				VR	R		F	F	C			F							R													F	R						cf.			R			
11H-4, 39	91.49	NP15a		middle Eocene	M–G	A					R		F	F	C			F				P																F	F							F		R			
11H-CC	96.40	NP15a	B *N. fulgens*	middle Eocene	M–G	A		F			R		F	F	C			F							F													R	R							F		R			
12H-2, 50	98.10	NP14b		middle Eocene	M–G	A		R			R		F	F	C			F								F													R							F		R			
12H-4, 43	101.03	NP14b	*B. inflatus*; B *N. cristata*	middle Eocene							F		F	F	C			F				R			?R	R											F		2								R			
12H-4, 50	101.10	NP14a		middle Eocene	M–G	A					F		C		C			F				F				R											C										F			
12H-CC	105.96	NP14a	T *D. lodoensis*	middle Eocene	M–G	A		F			R		F	F	C			F				C				R											R								F	F			
13H-CC	115.46	NP14a		middle Eocene	M–G	A		R			R		F	F	C			R		1?		C				R											F								F	F			
14H-3, 110	119.21	NP14a	B *D. sublodoensis*; B *Reticulofenestra*	middle Eocene	M–G	A		R			R		F	F	C																					F								F					
14H-5, 110	122.20	NP12	T *T. orthostylus*	middle Eocene	M–G	A					R		F					R																			R													R
14H-CC	124.91	NP12		early Eocene	M–G	A					R		F	F	C					R		C															F								F	F				F
15H-CC	126.09	NP12	B *Reticulofenestra*; B *C. crassus*	early Eocene	M–G	A					R		F	F	C					R		C															F								F	F				F
16H-CC	126.97	NP12		early Eocene	M	A					F		F		C							F															F							1		F				F
17X-CC	131.33	NP12		early Eocene	M	A		R							C			R		?2		F														?F									F	F	F	R		
18X-3, 87	135.48	NP12		early Eocene	M	A					R		F		C					R		R															F									F	F				F
18X-5, 87	137.05	NP12	B *D. lodoensis*	early Eocene	M	A					R		F		C					R		VR															R									F					
18X-CC	138.99	NP11		early Eocene	M	A		R		R			F		C					1					R												?F									R	F				F
19X-CC	141.22	NP11	B *G. gammation*	early Eocene	M	A		F					F		C					R					R												?R									F	F	F	F		
20X-1, 35	151.15	NP11		early Eocene	M	A																																														
20X-2, 135	153.65	NP11	T *T. contortus*; B *T. orthostylus*	early Eocene	M	A														F						R																								F	R
20X-2, 150	153.80	upper NP10		early Eocene	M	A							F		C					R						R																						C				
20X-3, 38	154.18	upper NP10		early Eocene	M–G	A							F		C					F						R																						F	F			
20X-3, 45	154.25	upper NP10	B *T. contortus*; B *D. diastypus*	early Eocene	M–G	A									C					F		R	R			R																						F	R			
20X-3, 48	154.25	NP10	B *T. bramlettei*	early Eocene	P	F									R							R	R								C		C										R	F				R			
20X-3, 56	154.36	NP9b	B *Rhomboaster*; T *Fasciculithus*; *D. araneus*	early Eocene	M	A		R							A							R	C			R				F		F														F				
20X-3, 77	154.57	NP9a	*Fasciculithus* diversity decline	late Paleocene	M	A									C							R	F			R		R	R	C		C														C				
20X-3, 147	155.27	NP9a		late Paleocene	M	A		F							C							R	F			R		R	F	A		C														A				
20X-3, 150	155.30	NP9a		late Paleocene	M	A		F							C							R	F						F	A		C														A				
20X-5, 114	157.95	NP9a	B *D. multiradiatus*	late Paleocene	M	A																R	1			R	R					C												F						
20X-CC	160.59	NP7/8		late Paleocene	M–G	A		R							C							F				R				A		C												C	F		A			
21X-CC	162.73	NP7/8		late Paleocene	M–G	A		F							C							F								C		C												F			C			
22X-4, 78	175.28	NP7/8	B *D. mohleri*	late Paleocene	M–G	A									C							F				R				C		C						R						F			C			
22X-6, 51	178.01	NP6		middle Paleocene	M–G	A									C															C		C				R	C						F			C			
22X-CC	179.35	NP6		middle Paleocene	M–G	A									C															C		C					C						F			A			
23X-1, 75	180.35	NP6	B *H. kleinpellii*	middle Paleocene	M–G	A		R							C															C		C				C	2					F			C			
23X-2, 75	181.85	NP5		middle Paleocene	M–G	A		R					F		C															C		C														A				
23X-4, 64	184.74	NP5	B *H. cantabriae*	middle Paleocene	M–G	A							F		C											R	F			C		C				VR								F		C				
23X-6, 56	187.66	NP5		middle Paleocene	M–G	A									C															C		C												F		C				
23X-CC	188.45	NP5		middle Paleocene	M	C									C															C		C												F		C				
24X-2, 80	191.50	NP5	B *F. tympaniformis*	middle Paleocene	M–G	A		R							C															C		F	R													F				
24X-4, 78	194.53	NP4		early Paleocene	M–G	A		R							C															F		F														F				
24X-CC	197.03	NP4	*T. pertusus*, no *Fasciculithus*	early Paleocene	P	F		F							C																															?F				
25X-CC	197.78	NP4	*T. pertusus*, no *Fasciculithus*	early Paleocene	M–G	C		F	R						C																													cf.			R			
26X-CC	200.03	NP4	*T. pertusus*, no *Fasciculithus*	early Paleocene	M	R		R								C																																	

Preservation: G = good, M = moderate, P = poor. Abundance: A = abundant, C = common, F = few, P = present, R = rare, VR = very rare. B = bottom, T = top. — = not assigned. See "**Biostratigraphy**" in the "Methods" chapter (Norris et al., 2014a) for preservation and abundance definitions.