

Notes: Preservation: G = good, M = moderate. Abundance: A = abundant. This table is also available in [ASCII](#).

Table T4. Semiquantitative stratigraphic distribution of Miocene calcareous nannofossils, Holes 1171A and 1171C. (See table notes. Continued on next 17 pages.)

Age		Zone (Okada and Bukry, 1980)	Core, section, interval (cm)	Depth (mbsf)	Preservation	Abundance	<i>Ammonolithus primus</i>	<i>Calcidiscus fuscus</i>	<i>Calcidiscus leptoporus</i>	<i>Calcidiscus macintyre</i>	<i>Calcidiscus premacintyre</i>	<i>Calcidiscus radiatus</i>	<i>Calcidiscus tropicus</i>	<i>Clausiococcus obrutus</i>	<i>Coccolithus miopelagicus</i>	<i>Coccolithus pelagicus</i>
Pliocene	early	CN10	189-1171A- 6H-7, 15-16	54.25	M	A	1	59	2							20
Miocene	late	CN9b	7H-1, 15-16	54.75	M	A		43	14							15
			7H-2, 15-16	56.25	M	A		31	4							7
			7H-3, 15-16	57.75	M	A	1	13	3							2
			7H-4, 15-16	59.25	M	A		7	1							9
			7H-5, 15-16	60.75	M	A	1	2	4							24
			7H-6, 15-16	62.25	M	A	1	29	12							23
			7H-7, 15-16	63.75	M	A	1	35	12							12
			8H-1, 15-16	64.25	M	A	1	14	4							28
			8H-2, 15-16	65.25	M	A	1	18	5							61
		CN8b-CN9a	8H-3, 15-16	65.89	M	A		8	1							56
			8H-4, 15-16	67.39	M	A		20	3							61
			8H-5, 15-16	68.89	M	A		29	4							42
			8H-6, 15-16	70.39	M	A		5	3							90
			8H-7, 15-16	71.89	M	A		4	1							131
			9H-1, 15-16	73.75	M	A		67								110
			9H-2, 15-16	75.25	M	A		63	8							194
		CN6-CN7-CN8a	9H-3, 15-16	76.75	M	A		12	3							31
			9H-4, 15-16	78.25	M	A		13	4							73
			9H-5, 15-16	79.75	M	A		14	1							127
			9H-6, 15-16	81.25	M	A		26	8							57
			10H-1, 15-16	83.25	M	A		20	2				1			105
			10H-2, 15-16	84.75	M	A		37	2				1			20
			10H-3, 15-16	86.25	M	A		3	2				1			27
			10H-4, 15-16	87.75	M	A		16	7				3			25
			10H-5, 15-16	89.25	M	A		18	3				4			49
			10H-6, 15-16	90.75	M	A		9	3				1			28
			10H-7, 15-16	92.25	M	A		5	1				1			33
			11H-1, 15-16	92.75	M	A		3	2							25
			11H-2, 15-16	94.25	M	A		2	5							17
			11H-3, 15-16	95.75	M	A		5	5				1			16
			11H-6, 15-16	100.25	M	A		11	4				1			33
			11H-7, 15-16	101.75	M	A		12	1				4			28
			12H-1, 15-16	102.25	M	A		11	4				16			25
			12H-2, 15-16	103.75	M	A		6	5				3			29
			12H-3, 15-16	105.25	M	A		5	7				1			13
			12H-4, 15-16	106.75	M	A		5	3				1			37
			12H-5, 15-16	108.25	M	A		1	1							8
			12H-6, 15-16	109.75	M	A		4	4				2			8
			13X-1, 15-16	111.75	M	A		11	3							16
			13X-2, 15-16	113.25	M	A		6	2				7			19
		189-1171C-	13X-1, 15-16	110.35	M	A		5	6				1			23
			13X-2, 15-16	111.85	M	A		17	4				1			13
			13X-3, 15-16	113.35	M	A		12	7				12			7
			13X-4, 15-16	114.85	M	A		8	2				3			8
			14X-1, 15-16	115.35	M	A		5	1				12			3
			14X-2, 15-16	116.85	M	A		12	1				3			22
			14X-3, 15-16	118.35	M	A		6	1				1			47
			14X-4, 15-16	119.85	M	A		11	3			1	3			56
			14X-5, 15-16	121.35	M	A		9	2							27
			14X-6, 15-16	122.85	M	A		10	4							20
			15X-1, 15-16	124.95	M	A		19	2			2	1			15
			15X-2, 15-16	126.45	M	A		47	1			1	3			16

Table T4 (continued).

Age		Zone (Okada and Bukry, 1980)	Core, section, interval (cm)	Depth (mbsf)	Preservation	Abundance	<i>Coccolithus pelagicus</i> >12 µm	<i>Coronocylus nitescens</i>	<i>Cryptococcolithus mediaperforatus</i>	<i>Cyclargolithus abisectus</i>	<i>Cyclargolithus floridanus</i>	<i>Discoaster brouweri</i>	<i>Discoaster</i> spp. (6 ray)	<i>Ericsonia detecta</i>	<i>Geminilithella rotula</i>	<i>Hayaster perplexus</i>
Pliocene	early	CN10	189-1171A- 6H-7, 15-16	54.25	M	A										
Miocene	late	CN9b	7H-1, 15-16	54.75	M	A						1				
			7H-2, 15-16	56.25	M	A										
			7H-3, 15-16	57.75	M	A										
			7H-4, 15-16	59.25	M	A										
			7H-5, 15-16	60.75	M	A										
			7H-6, 15-16	62.25	M	A										
			7H-7, 15-16	63.75	M	A										
			8H-1, 15-16	64.25	M	A										
			8H-2, 15-16	65.25	M	A								1		
		CN8b-CN9a	8H-3, 15-16	65.89	M	A						1	1			
			8H-4, 15-16	67.39	M	A								3		
			8H-5, 15-16	68.89	M	A										
			8H-6, 15-16	70.39	M	A										
			8H-7, 15-16	71.89	M	A			1							
			9H-1, 15-16	73.75	M	A		1	2				2			
			9H-2, 15-16	75.25	M	A			3				1			
		CN6-CN7-CN8a	9H-3, 15-16	76.75	M	A							1			
			9H-4, 15-16	78.25	M	A							3			
			9H-5, 15-16	79.75	M	A			2				4			
			9H-6, 15-16	81.25	M	A			2				1			
			10H-1, 15-16	83.25	M	A			4							
			10H-2, 15-16	84.75	M	A										
			10H-3, 15-16	86.25	M	A										
			10H-4, 15-16	87.75	M	A								1		
			10H-5, 15-16	89.25	M	A										
			10H-6, 15-16	90.75	M	A							1			
			10H-7, 15-16	92.25	M	A									1	
			11H-1, 15-16	92.75	M	A	1									
			11H-2, 15-16	94.25	M	A	2									
			11H-3, 15-16	95.75	M	A	13									
			11H-6, 15-16	100.25	M	A	1									
			11H-7, 15-16	101.75	M	A	1									
			12H-1, 15-16	102.25	M	A										
			12H-2, 15-16	103.75	M	A	1									
			12H-3, 15-16	105.25	M	A										
			12H-4, 15-16	106.75	M	A										
			12H-5, 15-16	108.25	M	A	5									
			12H-6, 15-16	109.75	M	A										
			13X- 1, 15-16	111.75	M	A								1		
			13X- 2, 15-16	113.25	M	A										
		189-1171C-	13X-1, 15-16	110.35	M	A	1									
			13X-2, 15-16	111.85	M	A										
			13X-3, 15-16	113.35	M	A	3						1			
			13X-4, 15-16	114.85	M	A										
			14X-1, 15-16	115.35	M	A										
			14X-2, 15-16	116.85	M	A										
			14X-3, 15-16	118.35	M	A	1	1								
			14X-4, 15-16	119.85	M	A	4									
			14X-5, 15-16	121.35	M	A										
			14X-6, 15-16	122.85	M	A			2							
			15X-1, 15-16	124.95	M	A	12				3					1
			15X-2, 15-16	126.45	M	A	11				2					

Age		Zone (Okada and Bukry, 1980)	Core, section, interval (cm)	Depth (mbsf)	Preservation	Abundance	<i>Helicosphaera amplioperta</i>	<i>Helicosphaera carteri</i>	<i>Helicosphaera granulata</i>	<i>Helicosphaera mediterranea</i>	<i>Helicosphaera paleocarteri</i>	<i>Helicosphaera scissura</i>	<i>Helicosphaera sellii</i>	<i>Helicosphaera</i> spp.	<i>Hughesius tasmaniae</i>	<i>Minylitha convallis</i>		
Pliocene	early	CN10	189-1171A-6H-7, 15-16	54.25	M	A	3											
Miocene	late	CN9b	7H-1, 15-16	54.75	M	A	4											
			7H-2, 15-16	56.25	M	A												
			7H-3, 15-16	57.75	M	A	3											
			7H-4, 15-16	59.25	M	A	2											
			7H-5, 15-16	60.75	M	A	1											
			7H-6, 15-16	62.25	M	A												
			7H-7, 15-16	63.75	M	A												
			8H-1, 15-16	64.25	M	A												
			8H-2, 15-16	65.25	M	A												
		CN8b-CN9a	8H-3, 15-16	65.89	M	A												
			8H-4, 15-16	67.39	M	A	1											
			8H-5, 15-16	68.89	M	A	2											
			8H-6, 15-16	70.39	M	A	1											
			8H-7, 15-16	71.89	M	A	2											
			9H-1, 15-16	73.75	M	A	6											
			9H-2, 15-16	75.25	M	A	3											
			CN6-CN7-CN8a	9H-3, 15-16	76.75	M	A	1										
				9H-4, 15-16	78.25	M	A	2										
		9H-5, 15-16		79.75	M	A	1											
		9H-6, 15-16		81.25	M	A	4											
		10H-1, 15-16		83.25	M	A												
		10H-2, 15-16		84.75	M	A												
		10H-3, 15-16		86.25	M	A												
		10H-4, 15-16		87.75	M	A												
		10H-5, 15-16		89.25	M	A												
		10H-6, 15-16		90.75	M	A	3											
		10H-7, 15-16		92.25	M	A	1											
		11H-1, 15-16		92.75	M	A												
		11H-2, 15-16		94.25	M	A												
		11H-3, 15-16		95.75	M	A												
		11H-6, 15-16		100.25	M	A												
		11H-7, 15-16		101.75	M	A												
		12H-1, 15-16		102.25	M	A												
		12H-2, 15-16		103.75	M	A												
		12H-3, 15-16		105.25	M	A												
		12H-4, 15-16		106.75	M	A												
12H-5, 15-16	108.25	M		A				</										

Table T4 (continued).

Age		Zone (Okada and Bukry, 1980)	Core, section, interval (cm)	Depth (mbsf)	Preservation	Abundance	<i>Pontosphaera multipora</i>	<i>Pontosphaera</i> spp.	<i>Pyrocyclus hermosus</i>	<i>Pyrocyclus orangensis</i>	<i>Reticulofenestra bisecta bisecta</i>	<i>Reticulofenestra bisecta fleviczii</i>	<i>Reticulofenestra gelida</i>	<i>Reticulofenestra haqii</i>	<i>Reticulofenestra lockeri</i>	<i>Reticulofenestra minuta</i>
Pliocene	early	CN10	189-1171A- 6H-7, 15-16	54.25	M	A		1				1	1			32
Miocene	late	CN9b	7H-1, 15-16	54.75	M	A						46	1			70
			7H-2, 15-16	56.25	M	A		1	1			85	3			63
			7H-3, 15-16	57.75	M	A			3			99	2			134
			7H-4, 15-16	59.25	M	A			5			76	3			45
			7H-5, 15-16	60.75	M	A			2			65	11			38
			7H-6, 15-16	62.25	M	A			3			29	6			29
			7H-7, 15-16	63.75	M	A			4			98	4			37
			8H-1, 15-16	64.25	M	A			3			107	1			26
			8H-2, 15-16	65.25	M	A						105	2			27
		CN8b-CN9a	8H-3, 15-16	65.89	M	A						10	10			37
			8H-4, 15-16	67.39	M	A			1			24	4			32
			8H-5, 15-16	68.89	M	A						117	8			2
			8H-6, 15-16	70.39	M	A			1	1		169	1			5
			8H-7, 15-16	71.89	M	A			1	1		149	3			4
			9H-1, 15-16	73.75	M	A			1			93	2			3
			9H-2, 15-16	75.25	M	A						7	4			6
		CN6-CN7-CN8a	9H-3, 15-16	76.75	M	A			6			131				7
			9H-4, 15-16	78.25	M	A						40				5
			9H-5, 15-16	79.75	M	A			4			67	1			4
			9H-6, 15-16	81.25	M	A			1			12				7
			10H-1, 15-16	83.25	M	A		1				100	1			3
			10H-2, 15-16	84.75	M	A			2			104				2
			10H-3, 15-16	86.25	M	A			3			121	1			5
			10H-4, 15-16	87.75	M	A			3			110	1			7
			10H-5, 15-16	89.25	M	A			4			140				10
			10H-6, 15-16	90.75	M	A			3		1	163				14
			10H-7, 15-16	92.25	M	A			2			65	1			17
			11H-1, 15-16	92.75	M	A			6	1		124	5			20
			11H-2, 15-16	94.25	M	A			3	2	6	80				104
			11H-3, 15-16	95.75	M	A			6			89	2			27
			11H-6, 15-16	100.25	M	A			5			128	5			28
			11H-7, 15-16	101.75	M	A			7			151	6			1
			12H-1, 15-16	102.25	M	A			5			168	6			7
			12H-2, 15-16	103.75	M	A				1		40	2			6
			12H-3, 15-16	105.25	M	A			6			144	8			10
			12H-4, 15-16	106.75	M	A			5			65				3
			12H-5, 15-16	108.25	M	A			4			100	6			8
			12H-6, 15-16	109.75	M	A			6			73	3			38
			13X- 1, 15-16	111.75	M	A			7		2	98	2			23
			13X- 2, 15-16	113.25	M	A			2			112	7			19
		189-1171C-	13X-1, 15-16	110.35	M	A			6			145	7			8
			13X-2, 15-16	111.85	M	A			8			147	1			7
			13X-3, 15-16	113.35	M	A			5			139	4			13
			13X-4, 15-16	114.85	M	A			3	1		64	7			30
			14X-1, 15-16	115.35	M	A			3	1			12			31
			14X-2, 15-16	116.85	M	A			5	2		2	5			25
			14X-3, 15-16	118.35	M	A			3				3			18
			14X-4, 15-16	119.85	M	A			1	2		2	7			16
			14X-5, 15-16	121.35	M	A	1		2			13	8			23
			14X-6, 15-16	122.85	M	A			1	1		3	1			81
			15X-1, 15-16	124.95	M	A			1				6			114
			15X-2, 15-16	126.45	M	A						2	3			86

Table T4 (continued).

Age		Zone (Okada and Bukry, 1980)	Core, section, interval (cm)	Depth (mbsf)	Preservation	Abundance	<i>Reticulofenestra minuta</i>	<i>Reticulofenestra perplexa</i>	<i>Reticulofenestra pseudumbilicus</i>	<i>Reticulofenestra rotaria</i>	<i>Reticulofenestra stansensis</i>	<i>Rhabdosphaera procera</i>	<i>Sphenolithus cometa</i>	<i>Sphenolithus conicus</i>	<i>Sphenolithus dissimilis</i>	<i>Sphenolithus grandis</i>
Pliocene	early	CN10	189-1171A- 6H-7, 15-16	54.25	M	A	126	40	3	1						
Miocene	late	CN9b	7H-1, 15-16	54.75	M	A	92	16	13							
			7H-2, 15-16	56.25	M	A	60	26	33							
			7H-3, 15-16	57.75	M	A	16	18	29							
			7H-4, 15-16	59.25	M	A	136	38	43							
			7H-5, 15-16	60.75	M	A	57	7	124							
			7H-6, 15-16	62.25	M	A	105	31	66							
			7H-7, 15-16	63.75	M	A	43	20	76							
			8H-1, 15-16	64.25	M	A	152	44	21							
			8H-2, 15-16	65.25	M	A	141	42	26							
		CN8b-CN9a	8H-3, 15-16	65.89	M	A	145	11	9							
			8H-4, 15-16	67.39	M	A	146	4	3							
			8H-5, 15-16	68.89	M	A	77	4	16							
			8H-6, 15-16	70.39	M	A	23	3	7							
			8H-7, 15-16	71.89	M	A	4	7	3							
			9H-1, 15-16	73.75	M	A	12	5								
			9H-2, 15-16	75.25	M	A	9	12	1							
		CN6-CN7-CN8a	9H-3, 15-16	76.75	M	A	29	80	9							
			9H-4, 15-16	78.25	M	A	54	104	6							
			9H-5, 15-16	79.75	M	A	24	49	7							
			9H-6, 15-16	81.25	M	A	73	108	6							
			10H-1, 15-16	83.25	M	A	10	20	13							
			10H-2, 15-16	84.75	M	A	31	96	9							
			10H-3, 15-16	86.25	M	A	58	68	8							
			10H-4, 15-16	87.75	M	A	67	46	9							
			10H-5, 15-16	89.25	M	A	39	34	3							
			10H-6, 15-16	90.75	M	A	35	43	10							
			10H-7, 15-16	92.25	M	A	100	78	15							
			11H-1, 15-16	92.75	M	A	3	91	9							
			11H-2, 15-16	94.25	M	A		62	2							
			11H-3, 15-16	95.75	M	A	2	100	20							
			11H-6, 15-16	100.25	M	A	12	67	4							
			11H-7, 15-16	101.75	M	A	2	71	10							
			12H-1, 15-16	102.25	M	A	3	41	6							
			12H-2, 15-16	103.75	M	A		186	7							
			12H-3, 15-16	105.25	M	A	3	113	7							
			12H-4, 15-16	106.75	M	A		167	11							
			12H-5, 15-16	108.25	M	A	5	154	5							
			12H-6, 15-16	109.75	M	A	18	135	1							
			13X- 1, 15-16	111.75	M	A	8	107	8							
			13X- 2, 15-16	113.25	M	A		109	9							
		189-1171C-	13X-1, 15-16	110.35	M	A		77	10							
			13X-2, 15-16	111.85	M	A		94	5							
			13X-3, 15-16	113.35	M	A		94	1							
			13X-4, 15-16	114.85	M	A		161	12							
			14X-1, 15-16	115.35	M	A	32	134	90							
			14X-2, 15-16	116.85	M	A	14	152	81							
			14X-3, 15-16	118.35	M	A	23	146	66							
			14X-4, 15-16	119.85	M	A	53	76	77							
			14X-5, 15-16	121.35	M	A	60	122	42							
			14X-6, 15-16	122.85	M	A	46	116	22							
			15X-1, 15-16	124.95	M	A	33	78	29							
			15X-2, 15-16	126.45	M	A	48	62	11							

Table T4 (continued).

Age		Zone (Okada and Bukry, 1980)	Core, section, interval (cm)	Depth (mbsf)	Preservation	Abundance	<i>Sphenolithus heteromorphus</i>	<i>Sphenolithus moriformis</i>	<i>Sphenolithus moriformis</i> <6 µm	<i>Sphenolithus neobabies</i>	<i>Sphenolithus verensis</i>	<i>Triquetrorhabdulus rugosus</i>	<i>Umbilicosphaera jafari</i>	<i>Zygrhablithus bijugatus</i>
Pliocene	early	CN10	189-1171A- 6H-7, 15-16	54.25	M	A								
Miocene	late	CN9b	7H-1, 15-16	54.75	M	A						1		
			7H-2, 15-16	56.25	M	A						2		
			7H-3, 15-16	57.75	M	A						1		
			7H-4, 15-16	59.25	M	A			1			2	1	
			7H-5, 15-16	60.75	M	A						2		
			7H-6, 15-16	62.25	M	A						1		
			7H-7, 15-16	63.75	M	A						2		
			8H-1, 15-16	64.25	M	A						2		
			8H-2, 15-16	65.25	M	A				1		4		
		CN8b-CN9a	8H-3, 15-16	65.89	M	A						1		
			8H-4, 15-16	67.39	M	A						1		
			8H-5, 15-16	68.89	M	A						1	1	
			8H-6, 15-16	70.39	M	A						2		
			8H-7, 15-16	71.89	M	A						2		
			9H-1, 15-16	73.75	M	A			2			2	2	
			9H-2, 15-16	75.25	M	A						1		
		CN6-CN7-CN8a	9H-3, 15-16	76.75	M	A				3		1		
			9H-4, 15-16	78.25	M	A			3	3		2		
			9H-5, 15-16	79.75	M	A			3	3		1		
			9H-6, 15-16	81.25	M	A			2	2		1		
			10H-1, 15-16	83.25	M	A			7	17		1	1	
			10H-2, 15-16	84.75	M	A			3	1		1	1	
			10H-3, 15-16	86.25	M	A						1		
			10H-4, 15-16	87.75	M	A		1	7	7	1	2		
			10H-5, 15-16	89.25	M	A			6	2	2	1		
			10H-6, 15-16	90.75	M	A			2	2				
			10H-7, 15-16	92.25	M	A			2		1	1		
			11H-1, 15-16	92.75	M	A	4			6				
			11H-2, 15-16	94.25	M	A	7			8				
			11H-3, 15-16	95.75	M	A	5			6				
			11H-6, 15-16	100.25	M	A	1							
			11H-7, 15-16	101.75	M	A	5			1				
			12H-1, 15-16	102.25	M	A	4			2				
			12H-2, 15-16	103.75	M	A	5							
			12H-3, 15-16	105.25	M	A	3							
			12H-4, 15-16	106.75	M	A	2			3				
			12H-5, 15-16	108.25	M	A	1							
			12H-6, 15-16	109.75	M	A	5			1				
			13X- 1, 15-16	111.75	M	A	4			4				
			13X- 2, 15-16	113.25	M	A				3				
		189-1171C-	13X-1, 15-16	110.35	M	A	8			3				
			13X-2, 15-16	111.85	M	A	1			1				
			13X-3, 15-16	113.35	M	A	2							
			13X-4, 15-16	114.85	M	A	1			2				
			14X-1, 15-16	115.35	M	A	4							
			14X-2, 15-16	116.85	M	A	1							
			14X-3, 15-16	118.35	M	A	3							
			14X-4, 15-16	119.85	M	A	2							
			14X-5, 15-16	121.35	M	A	3			1				
			14X-6, 15-16	122.85	M	A	5							
			15X-1, 15-16	124.95	M	A	2							
			15X-2, 15-16	126.45	M	A	4							

Table T4 (continued).

Age		Zone (Okada and Bukry, 1980)	Core, section, interval (cm)	Depth (mbstf)	Preservation	Abundance	<i>Coccolithus pelagicus</i> >12 µm	<i>Coronocylus nitescens</i>	<i>Cryptococcolithus mediapereforatus</i>	<i>Cyclargolithus abisectus</i>	<i>Cyclargolithus floridanus</i>	<i>Discoaster brouweri</i>	<i>Discoaster</i> spp. (6 ray)	<i>Ericsonia detecta</i>	<i>Geminitrithella rotula</i>	<i>Hayaster perplexus</i>
Miocene	late	CN6–CN7–CN8a	15X-3, 15–16	127.95	M	A	2								2	
			15X-4, 15–16	129.45	M	A	7								1	
			15X-5, 15–16	130.95	M	A	1							2		
			15X-6, 15–16	132.45	M	A	12							2	4	
			15X-7, 15–16	133.95	M	A		2					1		1	
			16X-1, 15–16	134.65	M	A								1	1	
			16X-2, 15–16	136.15	M	A		2				1	1	1	1	
			16X-3, 15–16	137.65	M	A	5	2			1	1			1	
	middle	CN5a	16X-4, 15–16	139.15	M	A	4				1					
			17X-1, 15–16	144.25	M	A					1				1	
			17X-2, 15–16	145.75	M	A		1			3					
			17X-3, 15–16	147.25	M	A		1			3		2			
			17X-4, 15–16	148.75	M	A		1			1					
			18X-1, 15–16	153.85	M	A		1							1	
			18X-2, 15–16	155.35	M	A		3			2		1			
			18X-3, 15–16	156.85	M	A		1		3	9				1	
			18X-4, 15–16	158.35	M	A		2		2	3				3	
			18X-5, 15–16	159.85	M	A					1				6	
		CN3–CN4	18X-6, 15–16	161.35	M	A				2	102		1			
			18X-7, 15–16	162.35	M	A					72		2		6	
			19X-1, 15–16	163.45	M	A		2			95		1		14	
			19X-2, 15–16	164.95	M	A		2			97		1		4	
			19X-3, 15–16	166.45	M	A					70		2		10	1
			19X-4, 15–16	167.95	M	A		2			78		6	1	9	
			19X-5, 15–16	169.45	M	A		1			87		3	4	8	
			19X-6, 15–16	170.95	M	A	8	3			121		1	1	7	
			19X-7, 15–16	172.45	M	A	1	3			35				21	
			20X-1, 15–16	173.05	M	A					1	106	2	21		
			20X-2, 15–16	174.55	M	A		6			4	40	1	5		
			20X-3, 15–16	176.05	M	A		3			3	23	3	15	1	
			20X-4, 15–16	177.55	M	A		1			3	41	2	9		
			20X-5, 15–16	179.05	M	A					2	33	12	1		
			20X-6, 15–16	180.55	M	A		4			24		8	10	1	
			21X-1, 15–16	182.35	M	A		4			52		1	1		
			21X-2, 15–16	183.85	M	A				1	84		1			
			21X-3, 15–16	185.35	M	A		2			39		1			
			21X-4, 15–16	186.85	M	A		2			65		3			
			21X-5, 15–16	188.35	M	A		2			64		3	4		
			21X-6, 15–16	189.45	M	A					109		1	2	1	
			22X-1, 15–16	191.95	M	A					97		3	3		
			22X-2, 15–16	193.45	M	A		1			109		2	4		
			22X-3, 15–16	194.95	M	A					113		16	2	1	
			22X-4, 15–16	196.45	M	A		1		1	87		11			
	early	CN1c–CN2	22X-5, 15–16	197.95	M	A		1		1	105		11		1	
			23X-1, 15–16	201.65	M	A		2		2	34		2			
			23X-2, 15–16	203.15	M	A		1		3	44					
			23X-3, 15–16	204.65	M	A				1	140					
			23X-4, 15–16	206.15	M	A		1		5	86		2			
			23X-5, 15–16	207.65	M	A		1		2	46		5		1	
			23X-6, 15–16	209.15	M	A		2		9	135		2			
			24X-1, 15–16	211.25	M	A				3	93		19		2	
			24X-2, 15–16	212.75	M	A		2		3	87		9		2	
			24X-3, 15–16	214.25	M	A				6	62		44		7	
			24X-4, 15–16	215.75	M	A				15	43		19		3	
			24X-5, 15–16	217.25	M	A		1		4	68		20		1	
			24X-6, 15–16	218.75	G	A				1	46		7		1	
			25X-1, 15–16	220.85	G	A				1	4		7			
			25X-2, 15–16	222.35	G	A		2		2	8		2		4	

Age		Zone (Okada and Bukry, 1980)	Core, section, interval (cm)	Depth (mbsf)	Preservation	Abundance	<i>Pontosphaera multipora</i> <i>Pontosphaera</i> spp. <i>Pyrocylus hermosus</i> <i>Pyrocylus orangensis</i> <i>Reticulofenestra bisecta bisecta</i>		<i>Reticulofenestra bisecta filewiczii</i> <i>Reticulofenestra gelida</i> <i>Reticulofenestra haqii</i> <i>Reticulofenestra lockeri</i> <i>Reticulofenestra minuta</i>																									
Miocene	late	CN6–CN7–CN8a	15X-3, 15–16	127.95	M	A	5	1	10	84																								
			15X-4, 15–16	129.45	M	A					6	4	2	107																				
			15X-5, 15–16	130.95	M	A									5	9	83																	
			15X-6, 15–16	132.45	M	A												4	2	116														
			15X-7, 15–16	133.95	M	A															2	3	101											
			16X-1, 15–16	134.65	M	A																		10	8	104								
			16X-2, 15–16	136.15	M	A																					9	7	103					
			16X-3, 15–16	137.65	M	A																								2	3	71		
	16X-4, 15–16	139.15	M	A	1	4	3	7	91																									
	17X-1, 15–16	144.25	M	A						3	4	5	66																					
	17X-2, 15–16	145.75	M	A										3	8	6	91																	
	17X-3, 15–16	147.25	M	A														10	6	7													73	
	17X-4, 15–16	148.75	M	A																	17	9	2											83
	18X-1, 15–16	153.85	M	A																				1	1	8								
	18X-2, 15–16	155.35	M	A																							2	1	5					
	18X-3, 15–16	156.85	M	A																										1		8		
	18X-4, 15–16	158.35	M	A	1	1	9	32																										
	18X-5, 15–16	159.85	M	A					8		30																							
	18X-6, 15–16	161.35	M	A								3	1	6	20																			
	18X-7, 15–16	162.35	M	A												2	5	20																
	19X-1, 15–16	163.45	M	A															2	4	4													
	19X-2, 15–16	164.95	M	A																		7	2	2										
	19X-3, 15–16	166.45	M	A																					2	4	12							
	19X-4, 15–16	167.95	M	A																								8	4	4				
	19X-5, 15–16	169.45	M	A	4	6	9																											
	19X-6, 15–16	170.95	M	A				5	6	4																								
	19X-7, 15–16	172.45	M	A							8	8	47																					
	20X-1, 15–16	173.05	M	A										2	3	42																		
	20X-2, 15–16	174.55	M	A													2	10	67															
	20X-3, 15–16	176.05	M	A																1	68													
	20X-4, 15–16	177.55	M	A																		87												
	20X-5, 15–16	179.05	M	A																			2	7	19									
	20X-6, 15–16	180.55	M	A	1	8	57																											
	21X-1, 15–16	182.35	M	A				3	13	39																								
	21X-2, 15–16	183.85	M	A							1	13	78																					
	21X-3, 15–16	185.35	M	A										2	6	143																		
	21X-4, 15–16	186.85	M	A													4	9	33															
	21X-5, 15–16	188.35	M	A																2	7					76								
	21X-6, 15–16	189.45	M	A																		3					3	21						
	22X-1, 15–16	191.95	M	A																			2	2	2									
	22X-2, 15–16	193.45	M	A	3	1	19																											
	22X-3, 15–16	194.95	M	A				2	3	24																								
	22X-4, 15–16	196.45	M	A							2	2	66																					
	22X-5, 15–16	197.95	M	A										4	1	4													188					
	23X-1, 15–16	201.65	M	A													2	8	163															
	23X-2, 15–16	203.15	M	A																2	4													

Age		Zone (Okada and Bukry, 1980)	Core, section, interval (cm)	Depth (mbsf)	Preservation	Abundance	<i>Reticulofenestra</i>										
							<i>minutula</i>	<i>perplexa</i>	<i>pseudumbilicus</i>	<i>rotaria</i>	<i>stansensis</i>	<i>Rhabdosphaera procera</i>	<i>Sphenolithus cometa</i>	<i>Sphenolithus conicus</i>	<i>Sphenolithus dissimilis</i>	<i>Sphenolithus grandis</i>	
Miocene	late	CN6–CN7–CN8a	15X-3, 15–16	127.95	M	A	38	50	12								
			15X-4, 15–16	129.45	M	A	30	83	10								
			15X-5, 15–16	130.95	M	A	18	65	7								
			15X-6, 15–16	132.45	M	A	28	15	8								
			15X-7, 15–16	133.95	M	A	14	5	42								
			16X-1, 15–16	134.65	M	A	45	4	26								
				16X-2, 15–16	136.15	M	A	30	5	3							
	middle	CN5a	16X-3, 15–16	137.65	M	A	26	2	48								
			16X-4, 15–16	139.15	M	A	92	1	27								
			17X-1, 15–16	144.25	M	A	115		15								
			17X-2, 15–16	145.75	M	A	89		23								
			17X-3, 15–16	147.25	M	A	114		23								
			17X-4, 15–16	148.75	M	A	68		22								
			18X-1, 15–16	153.85	M	A	70		27								
			18X-2, 15–16	155.35	M	A	84		13								
			18X-3, 15–16	156.85	M	A	79		14								
			18X-4, 15–16	158.35	M	A	62		28								
					18X-5, 15–16	159.85	M	A	118		10						
		CN3–CN4	18X-6, 15–16	161.35	M	A	85		12								
			18X-7, 15–16	162.35	M	A	72		5								
			19X-1, 15–16	163.45	M	A	79		6								
			19X-2, 15–16	164.95	M	A	80		13								
			19X-3, 15–16	166.45	M	A	81		4								
			19X-4, 15–16	167.95	M	A	45										
			19X-5, 15–16	169.45	M	A	74										
			19X-6, 15–16	170.95	M	A	13										
			19X-7, 15–16	172.45	M	A	67		1								
			20X-1, 15–16	173.05	M	A	1		9								
			20X-2, 15–16	174.55	M	A	14		14								
			20X-3, 15–16	176.05	M	A			1								
			20X-4, 15–16	177.55	M	A	1		4								
			20X-5, 15–16	179.05	M	A	3		6								
			20X-6, 15–16	180.55	M	A	2										
			21X-1, 15–16	182.35	M	A	36		8								
			21X-2, 15–16	183.85	M	A	30										
			21X-3, 15–16	185.35	M	A	39										
			21X-4, 15–16	186.85	M	A	37		1								
			21X-5, 15–16	188.35	M	A	30		1								
			21X-6, 15–16	189.45	M	A	65										
			22X-1, 15–16	191.95	M	A	17										
			22X-2, 15–16	193.45	M	A	4		29								

Table T4 (continued).

Age		Zone (Okada and Bukry, 1980)	Core, section, interval (cm)	Depth (mbsf)	Preservation	Abundance	<i>Sphenolithus heteromorphus</i>	<i>Sphenolithus moriformis</i>	<i>Sphenolithus moriformis</i> <6 µm	<i>Sphenolithus neobabies</i>	<i>Sphenolithus verensis</i>	<i>Triquetrorhabdulus rugosus</i>	<i>Umbilicosphaera jafari</i>	<i>Zygrhablithus bijugatus</i>
Miocene	late	CN6–CN7–CN8a	15X-3, 15–16	127.95	M	A	2							
			15X-4, 15–16	129.45	M	A	2							
			15X-5, 15–16	130.95	M	A	3							
			15X-6, 15–16	132.45	M	A	3							
			15X-7, 15–16	133.95	M	A	7							
			16X-1, 15–16	134.65	M	A	15							
			16X-2, 15–16	136.15	M	A	17							
	middle	CN5a	16X-3, 15–16	137.65	M	A								
			16X-4, 15–16	139.15	M	A	3							
			17X-1, 15–16	144.25	M	A	1							
			17X-2, 15–16	145.75	M	A	5							
			17X-3, 15–16	147.25	M	A	1							
			17X-4, 15–16	148.75	M	A	2							
			18X-1, 15–16	153.85	M	A	1							
			18X-2, 15–16	155.35	M	A	2							
			18X-3, 15–16	156.85	M	A	2							
			18X-4, 15–16	158.35	M	A	1							
			18X-5, 15–16	159.85	M	A	3							
		CN3–CN4	18X-6, 15–16	161.35	M	A	4							
			18X-7, 15–16	162.35	M	A	5							
			19X-1, 15–16	163.45	M	A	7							
			19X-2, 15–16	164.95	M	A	8							
			19X-3, 15–16	166.45	M	A								
			19X-4, 15–16	167.95	M	A	6							
			19X-5, 15–16	169.45	M	A	4							
			19X-6, 15–16	170.95	M	A	5							
			19X-7, 15–16	172.45	M	A	6							
			20X-1, 15–16	173.05	M	A	3							
			20X-2, 15–16	174.55	M	A	6							
			20X-3, 15–16	176.05	M	A								
			20X-4, 15–16	177.55	M	A	2							
			20X-5, 15–16	179.05	M	A	3							
			20X-6, 15–16	180.55	M	A								
			21X-1, 15–16	182.35	M	A	1						1	
			21X-2, 15–16	183.85	M	A	1						1	
			21X-3, 15–16	185.35	M	A	1						6	
			21X-4, 15–16	186.85	M	A	6						7	
			21X-5, 15–16	188.35	M	A							1	
			21X-6, 15–16	189.45	M	A	1							
			22X-1, 15–16	191.95	M	A	2							
			22X-2, 15–16	193.45	M	A	1							
			22X-3, 15–16	194.95	M	A	2							
			22X-4, 15–16	196.45	M	A	2							
	early	CN1c–CN2	22X-5, 15–16	197.95	M	A	3							
			23X-1, 15–16	201.65	M	A	1							
			23X-2, 15–16	203.15	M	A	1							
			23X-3, 15–16	204.65	M	A	1							
			23X-4, 15–16	206.15	M	A	1							
			23X-5, 15–16	207.65	M	A	10							
			23X-6, 15–16	209.15	M	A	5							
			24X-1, 15–16	211.25	M	A	1							
			24X-2, 15–16	212.75	M	A	5							
			24X-3, 15–16	214.25	M	A	7							
			24X-4, 15–16	215.75	M	A	10							
			24X-5, 15–16	217.25	M	A	3							
			24X-6, 15–16	218.75	G	A	4							
			25X-1, 15–16	220.85	G	A	7							
			25X-2, 15–16	222.35	G	A	12							1

Table T4 (continued).

Age		Zone (Okada and Bukry, 1980)	Core, section, interval (cm)	Depth (mbsf)	Preservation	Abundance	<i>Ammonolithus primus</i>	<i>Calcidiscus fuscus</i>	<i>Calcidiscus leptoporus</i>	<i>Calcidiscus macintyre</i>	<i>Calcidiscus premacintyre</i>	<i>Calcidiscus radiatus</i>	<i>Calcidiscus tropicus</i>	<i>Clausococcus obrutus</i>	<i>Coccolithus miopelagicus</i>	<i>Coccolithus pelagicus</i>
Miocene	early	CN1c–CN2	25X-3, 15–16	223.85	G	A							1		1	121
			25X-4, 15–16	225.35	M	A							2		1	105
			25X-5, 15–16	226.85	M	A							1		1	123
			25X-6, 15–16	227.95	M	A									3	111
			26X-1, 15–16	230.45	G	A							8		2	205
			26X-2, 15–16	231.95	G	A							1		8	122
			26X-3, 15–16	233.45	G	A							2			140
			26X-4, 15–16	234.95	G	A							1		4	157
			26X-5, 15–16	236.45	G	A									1	167
			27X-1, 117–118	239.75	G	A									16	154
			27X-2, 117–118	241.25	G	A										216
			27X-3, 117–118	242.75	G	A							2			189
			27X-4, 117–118	244.25	G	A										67
			27X-5, 117–118	245.75	G	A							5			49
			28X-1, 15–16	249.05	G	A							1			18
			28X-2, 15–16	250.55	G	A										40
			28X-3, 15–16	252.05	G	A							1			220
			28X-4, 15–16	253.15	G	A							1		1	181
Oligocene	late	CP19	29X-1, 117–118	258.65	G	A								1		126

Notes: Preservation: G = good, M = moderate. Abundance: A = abundant. This table is also available in [ASCII](#).

Table T4 (continued).

Age		Zone (Okada and Bukry, 1980)	Core, section, interval (cm)	Depth (mbsf)	Preservation	Abundance	<i>Coccolithus pelagicus</i> >12 µm	<i>Coronocylus nitescens</i>	<i>Cryptococcolithus mediaperforatus</i>	<i>Cyclargolithus abisectus</i>	<i>Cyclargolithus floridanus</i>	<i>Discoaster brouweri</i>	<i>Discoaster</i> spp. (6 ray)	<i>Ericsonia detecta</i>	<i>Geminolithella rotula</i>	<i>Hayaster perplexus</i>
Miocene	early	CN1c–CN2	25X-3, 15–16	223.85	G	A	4		1	17		3				
			25X-4, 15–16	225.35	M	A	3		5	13		2				
			25X-5, 15–16	226.85	M	A	2			3		1			1	
			25X-6, 15–16	227.95	M	A	5		4	5		15				
			26X-1, 15–16	230.45	G	A	1			4		15				
			26X-2, 15–16	231.95	G	A	1		2	1		2				
			26X-3, 15–16	233.45	G	A	3		3	32		16			8	
			26X-4, 15–16	234.95	G	A	1		4	4					12	
			26X-5, 15–16	236.45	G	A	1		6	16					5	
			27X-1, 117–118	239.75	G	A	1		1	13			1		20	
			27X-2, 117–118	241.25	G	A			30	41			1		3	
			27X-3, 117–118	242.75	G	A	1		10	79			1			
			27X-4, 117–118	244.25	G	A	3		3	176			1		6	
			27X-5, 117–118	245.75	G	A	1		1	196					4	
			28X-1, 15–16	249.05	G	A	1		2	232			2		7	
			28X-2, 15–16	250.55	G	A			2	241						
			28X-3, 15–16	252.05	G	A			2	56						
			28X-4, 15–16	253.15	G	A			5	49			2		3	
Oligocene	late	CP19	29X-1, 117–118	258.65	G	A	1		3	146			1		5	

Table T4 (continued).

Age		Zone (Okada and Bukry, 1980)	Core, section, interval (cm)	Depth (mbsf)	Preservation	Abundance	<i>Pontosphaera multipora</i>	<i>Pontosphaera</i> spp.	<i>Pyrocyclus hermosus</i>	<i>Pyrocyclus orangensis</i>	<i>Reticulofenestra bisecta bisecta</i>	<i>Reticulofenestra bisecta flevicizii</i>	<i>Reticulofenestra gelida</i>	<i>Reticulofenestra haoii</i>	<i>Reticulofenestra lockeri</i>	<i>Reticulofenestra minuta</i>
Miocene	early	CN1c-CN2	25X-3, 15-16	223.85	G	A			3		3		9			126
			25X-4, 15-16	225.35	M	A			3		2		10			167
			25X-5, 15-16	226.85	M	A			2		1		7			171
			25X-6, 15-16	227.95	M	A		4					1			148
			26X-1, 15-16	230.45	G	A										63
			26X-2, 15-16	231.95	G	A			1				2			143
			26X-3, 15-16	233.45	G	A					1		1			79
			26X-4, 15-16	234.95	G	A		1					6			92
			26X-5, 15-16	236.45	G	A			2							62
			27X-1, 117-118	239.75	G	A								5	12	20
			27X-2, 117-118	241.25	G	A			2							5
			27X-3, 117-118	242.75	G	A			6		1		1			6
			27X-4, 117-118	244.25	G	A			6				4	4		
			27X-5, 117-118	245.75	G	A			8				3	5	7	
			28X-1, 15-16	249.05	G	A			6		1		3			13
			28X-2, 15-16	250.55	G	A			3				5		1	
			28X-3, 15-16	252.05	G	A					1		15	10		
			28X-4, 15-16	253.15	G	A			3		1		20	45		
Oligocene	late	CP19	29X-1, 117-118	258.65	G	A			5	3					3	

Table T4 (continued).

Age		Zone (Okada and Bukry, 1980)	Core, section, interval (cm)	Depth (mbsf)	Preservation	Abundance	<i>Reticulofenestra minutula</i>	<i>Reticulofenestra perplexa</i>	<i>Reticulofenestra pseudoumbilicus</i>	<i>Reticulofenestra rotaria</i>	<i>Reticulofenestra stansensis</i>	<i>Rhabdosphaera procera</i>	<i>Sphenolithus cometa</i>	<i>Sphenolithus conicus</i>	<i>Sphenolithus dissimilis</i>	<i>Sphenolithus grandis</i>
Miocene	early	CN1c-CN2	25X-3, 15-16	223.85	G	A	3					12			1	
			25X-4, 15-16	225.35	M	A	3									
			25X-5, 15-16	226.85	M	A										
			25X-6, 15-16	227.95	M	A	9								2	
			26X-1, 15-16	230.45	G	A	2								1	
			26X-2, 15-16	231.95	G	A	18									
			26X-3, 15-16	233.45	G	A	7								1	
			26X-4, 15-16	234.95	G	A	27									
			26X-5, 15-16	236.45	G	A	37									
			27X-1, 117-118	239.75	G	A	47									
			27X-2, 117-118	241.25	G	A	19									
			27X-3, 117-118	242.75	G	A	2									
			27X-4, 117-118	244.25	G	A	16									
			27X-5, 117-118	245.75	G	A	4									
			28X-1, 15-16	249.05	G	A	11									
			28X-2, 15-16	250.55	G	A	3									
			28X-3, 15-16	252.05	G	A	3									
			28X-4, 15-16	253.15	G	A										
Oligocene	late	CP19	29X-1, 117-118	258.65	G	A					2					

Table T4 (continued).

Age		Zone (Okada and Bukry, 1980)	Core, section, interval (cm)	Depth (mbsf)	Preservation	Abundance	<i>Sphenolithus heteromorphus</i>	<i>Sphenolithus moriformis</i>	<i>Sphenolithus moriformis</i> <6 µm	<i>Sphenolithus neobabies</i>	<i>Sphenolithus verensis</i>	<i>Triquetrorhabdulus rugosus</i>	<i>Umbilicosphaera jafari</i>	<i>Zygrhablithus bijugatus</i>
Miocene	early	CN1c–CN2	25X-3, 15–16	223.85	G	A		6						
			25X-4, 15–16	225.35	M	A		1						
			25X-5, 15–16	226.85	M	A		7						
			25X-6, 15–16	227.95	M	A		6						
			26X-1, 15–16	230.45	G	A		1						
			26X-2, 15–16	231.95	G	A		4						
			26X-3, 15–16	233.45	G	A		17						
			26X-4, 15–16	234.95	G	A	1	1						
			26X-5, 15–16	236.45	G	A		2						
			27X-1, 117–118	239.75	G	A		6						
			27X-2, 117–118	241.25	G	A								
			27X-3, 117–118	242.75	G	A		1						
			27X-4, 117–118	244.25	G	A		5						
			27X-5, 117–118	245.75	G	A		4						
			28X-1, 15–16	249.05	G	A		2						
			28X-2, 15–16	250.55	G	A		6						
			28X-3, 15–16	252.05	G	A		1						
			28X-4, 15–16	253.15	G	A		1						
Oligocene	late	CP19	29X-1, 117–118	258.65	G	A		11						