Table T8. Calcareous nannofossil checklist for Site 1148. (See table notes. Continued on next four pages.)

Age	Zone		Core, section, interval (cm)	Depth (mcd)	Abundance	Preservation	*Amaurolithus amplificus*	*Amaurolithus delicatus*	*Amaurolithus primus*	*Amaurolithus tricorniculatus*	*Calcidiscus leptoporus*	*Calcidiscus macintyrei*	*Calcidiscus premacintyrei*	*Catinaster calyculus*	*Catinaster coalitus*	*Ceratolithus acutus*	*Ceratolithus armatus*	*Ceratolithus cristatus*	*Ceratolithus rugosus*	*Chiasmolithus altus*	*Coccolithus miopelagicus*	*Coccolithus pelagicus*	*Coronocyclus nitescens*	*Cyclicargolithus floridanus*	*Dictyococcites bisectus*	*Discoaster adamanteus*	*Discoaster berggrenii*	*Discoaster bollii*	*Discoaster brouweri*	*Discoaster calcaris*	*Discoaster deflandrei*	*Discoaster druggii*	*Discoaster exilis*	*Discoaster hamatus*	*Discoaster kugleri*	*Discoaster moorei*	*Discoaster pentaradiatus*	*Discoaster petaliformis*	*Discoaster prepentaradiatus*	*Discoaster quinqueramus*	*Discoaster surculus*	*Discoaster tamalis*	*Discoaster tanii*	*Discoaster variabilis*	*Emiliania huxleyi*	*Florisphaera profunda*	*Gephyrocapsa caribbeanica*	*Gephyrocapsa margarelii*
			184-1148A-																																												
			1H-CC, 7-13	0.70	A	VG					C							R																										A	D		R
Pleistocene	NN21b	CN15	2H-CC, 15-22	15.26	A	M					C							R										R								R							C	C		R
	NN21a		3H-CC, 6-13	24.74	A	G					F							R																		R							F	A		C
			4H-CC, 30-37	34.35	A	M					C																																	A	F	C
		CN14a	5H-CC, 0-6	43.66	A	M					C																																	A		
			6H-CC, 22-29	54.50	A	M					F																																	A		
			7H-CC, 0-10	64.57	A	M					C							R																										A	F	F
	NN19b		8H-CC, 13-18	74.86	A	M					C							R				R																						D		R
		CN13	9H-CC, 19-26	84.58	A	G					C							R																										A	F	
			10H-CC, 18-25	94.35	A	G					C							R																										A	C	
			11H-CC, 4-11	104.69	A	G					F							R																										A		R
			12H-CC, 0-7	115.34	A	P					C							R				F																						D		
	NN19a		13H-CC, 9-16	125.76	A	M					C							R				R																						D		
			14H-CC, 0-8	135.48	A	M					C	F						R				R						C								R								A		
late Pliocene	NN18	CN12d	15H-CC, 0-8	145.58	A	M					C	C						R										C								C				R				A		
	NN17	CN12c	16H-CC, 0-8	155.43	C	P					F	C						R										C								A				R				A		
	NN16	CN12b	17X-CC, 31-38	165.32	A	M					F	C						R										C								A				F				A		
		CN12a	18X-CC, 44-51	173.76	A	M					R	C						R										C								A				F		R		A		
early Pliocene	NN15-12	CN11-10	19X-CC, 21-27	184.52	A	M		R			C	C				R												C								A				F		F		A		
			20X-CC, 0-7	193.82	A	M		R	R	R	R	C				F			R			C						C								A				F			F	A		
late Miocene	NN11	CN9	21X-CC, 30-37	203.83	A	M		R	R	R	C	C										C				C		C								A			C	F			F	A		
			22X-CC, 26-33	213.48	A	G	R	R	R	R	C	C										C				A		C								A			C	F				A		
			23X-CC, 13-20	222.94	A	G		R	R		C	C										C				A		C								C			C	F			F	C		
			24X-CC, 41-48	231.84	A	G					C	C										C				A		C								C			F	F			F	A		
			25X-CC, 32-39	242.41	A	G					F	C										C				A		C								C			F	F			F	A		
	NN10	CN8	26X-CC, 40-47	251.11	A	G					F	C										F						C								F				F			F	C		
			27X-CC, 45-52	261.66	A	G					F	C										F						F								R				F			C	C		
	NN9	CN7	28X-CC, 23-30	271.26	A	M					F	C			R							F						F						R					R			C	C		
			29X-CC, 26-33	279.46	A	M					F	C		F	C							A									F			F					R			C	D		
	NN8	CN6	30X-CC, 29-36	290.43	A	M						C			C							C		F					R	F	F			R	R			R				C	C		
	NN7	CN5b	31X-CC, 40-47	300.04	A	M					F	C										C	R				F			C				F	R							A	A		
middle Miocene	NN6	CN5a	32X-CC, 16-26	309.48	A	M					F	R									R	C		C					C	R	R				R							C	A		
	NN5	CN 4	33X-CC, 21-31	319.22	A	M						F	F								R	C	F	A					F	F		R					F					C	A		
			34X-CC, 30-37	328.96	A	P					F		F								R	C	R	C						C	F				F							C	A		
			35X-CC, 14-21	338.47	A	P					F		F								R	C	R	C					R	C					R	C						F	C		
			36X-CC, 35-42	348.28	A	M					R		F								R	F	F	A						C					R	C						C	C		
	NN4	CN 3	37X-CC, 19-26	357.74	C	P					R		R								F	F		A			F		F	C	R	F			R	C						C	F		
early-middle Miocene			38X-CC, 32-39	367.35	A	M					F		R								R	C	F	A						C	F				R							R	F		
			39X-CC, 26-33	376.90	A	M					F		R								F	C	F	F						C	F				F							F			
early Miocene	NN3	CN2	40X-CC, 26-33	386.47	A	M							R									C		A	R					C	F				F							R	F		
			41X-CC, 40-47	396.38	A	M							R									C		A			F			C	F											C	F		

Table T8 (continued).

Age	Zone		Core, section, interval (cm)	Depth (mcd)	Abundance	Preservation	*Amaurolithus amplificus*	*Amaurolithus delicatus*	*Amaurolithus primus*	*Amaurolithus tricorniculatus*	*Calcidiscus leptoporus*	*Calcidiscus macintyrei*	*Calcidiscus premacintyrei*	*Catinaster calyculus*	*Catinaster coalitus*	*Ceratolithus acutus*	*Ceratolithus armatus*	*Ceratolithus cristatus*	*Ceratolithus rugosus*	*Chiasmolithus altus*	*Coccolithus miopelagicus*	*Coccolithus pelagicus*	*Coronocyclus nitescens*	*Cyclicargolithus floridanus*	*Dictyococcites bisectus*	*Discoaster adamanteus*	*Discoaster berggrenii*	*Discoaster bollii*	*Discoaster brouweri*	*Discoaster calcaris*	*Discoaster deflandrei*	*Discoaster druggii*	*Discoaster exilis*	*Discoaster hamatus*	*Discoaster kugleri*	*Discoaster moorei*	*Discoaster pentaradiatus*	*Discoaster petaliformis*	*Discoaster prepentaradiatus*	*Discoaster quinqueramus*	*Discoaster surculus*	*Discoaster tamalis*	*Discoaster tanii*	*Discoaster variabilis*	*Emiliania huxleyi*	*Florisphaera profunda*	*Gephyrocapsa caribbeanica*	*Gephyrocapsa margarelii*
early Miocene	NN2	CN1c	42X-CC, 24-31	405.71	A	M							R									C		A						C	F											C		R		
			43X-CC, 36-43	415.37	A	M							R									C		A						C	F											C		F		
			44X-CC, 38-45	425.29	A	M							F									C		A						C	F											C				
			45X-CC, 41-48	435.03	A	M							F									C		A						C	R											C		R		
			46X-CC, 42-49	444.10	A	M																C		A						C	R											C		F		
			47X-CC, 41-48	454.35	A	M																C		A						C	R											C				
			48X-CC, 20-27	462.60	A	M																C		A	R					C	R											C				
			49X-CC, 48-55	472.74	A	M															F	C		A	R	R				C	R															
			50X-CC, 34-41	477.34	A	M															F	F	R	A		F					R															
late Oligocene	NP24	CN19a	51X-CC, 30-37	480.72	A	M														R	F	C	R	A	F					F																
			52X-CC, 30-37	485.66	A	M															F	C	R	A	F					F																
			53X-CC, 30-37	490.94	A	M															R	C	R	A	C					F																
			54X-CC, 28-35	496.04	A	M															F	F		A	F					R																
			55X-CC, 15-22	500.91	A	M															F	C		A	C					C																
			56X-CC, 30-37	506.33	A	M																C		A	C					C																
			57X-CC, 34-41	522.08	A	M																C		A	R					C																
			58X-CC, 35-42	528.70	A	M																C		A	C					C																
			59X-CC, 29-37	540.34	A	M																C		A	C					C																
			60X-CC, 30-37	543.67	A	M																C		A	C					C																
			61X-CC, 29-36	553.79	A	M																C		A	C					C																
			62X-CC, 18-25	571.63	A	M																C	R	A	F					F																
			63X-CC, 29-36	578.06	A	M															F	C	R	A	F					R												R				
			64X-CC, 29-36	585.83	A	M															F	C	R	A	R					F												R				
			65X-CC, 27-34	593.63	A	M															F	C	R	A	C					F												F				
			66X-CC, 33-40	609.68	A	M																C		A	C					R												R				
			67X-CC, 30-37	620.00	A	M																C		A	C					R												R				
			68X-CC, 24-31	629.65	A	M																C		A	C					R																
			69X-CC, 36-43	639.27	A	M																C		A	C					R																
			70X-CC, 35-42	648.35	A	M																C		A	C					R																
			71X-CC, 37-43	658.54	A	M																C		A	C					R																
		CP18	72X-CC, 34-40	668.09	A	M																C		A	C					R																
	NP23		73X-CC, 28-38	677.03	A	M																C		A	C					R																
			74X-CC, 39-48	687.57	A	M																C		A	C					R																
			75X-CC, 33-40	696.94	A	M																C		A	C					R																
			76X-CC, 33-40	705.08	A	M																C		A	R					R																
		CP17	77X-CC, 32-39	716.39	A	M															R	C		C	R					F												R				
			184-1148B-																		F																									
			56X-CC, 31-37	851.35	C	M																C		A	C					R												R				

Table T8 (continued).

Age	Zone		Core, section, interval(cm)	Depth (mcd)	Abundance	Preservation	*Gephyrocapsa oceanica*	small *Gephyrocapsa* spp.	*Helicosphaera ampliaperta*	*Helicosphaera carteri*	*Helicosphaera euphratis*	*Helicosphaera granulata*	*Helicosphaera hyalina*	*Helicosphaera recta*	*Helicosphaera sellii*	*Oolithotus antillarum*	*Pontosphaera* spp.	*Pseudoemiliania lacunosa*	*Reticulofenestra asanoi*	*Reticulofenestra pseudoumbilicus*	*Reticulofenestra* spp. (small-medium)	*Rhabdosphaera clavigera*	*Scapholithus fossilis*	*Sphenolithus abies/neoabies*	*Sphenolithus belemnos*	*Sphenolithus ciperoensis*	*Sphenolithus compactus*	*Sphenolithus conicus*	*Sphenolithus delphix*	*Sphenolithus dissimilis*	*Sphenolithus distentus*	*Sphenolithus heteromorphus*	*Sphenolithus moriformis*	*Sphenolithus predistentus*	*Sphenolithus pseudoradians*	*Syracosphaera pulchra*	*Syracosphaera* spp.	*Thorosphaera flabellata*	*Triquetrorhabdulus carinatus*	*Triquetrorhabdulus rugosus*	*Umbellosphaera irregularis*	*Umbellosphaera tenuis*	*Umbilicosphaera sibogae*	*Zygrhablithus bijugatus*
			184-1148A-																																								
			1H-CC, 7-13	0.70	A	VG	C	C		C			R				R					R	R												F	R	R					C
Pleistocene	NN21b	CN15	2H-CC, 15-22	15.26	A	M	C	D		F							R					R													R		R					C
	NN21a		3H-CC, 6-13	24.74	A	G	A	A		F						F						C													C				R	R		C
			4H-CC, 30-37	34.35	A	M	A	A		C						R		C				F	R												C							C
	NN19b	CN14a	5H-CC, 0-6	43.66	A	M	A	A		F						F		C				F	R												F							F
			6H-CC, 22-29	54.50	A	M	A	C		F						R		C				R													F							F
			7H-CC, 0-10	64.57	A	M	C	A		F			R			F	R	C	R			F													F							F
			8H-CC, 13-18	74.86	A	M		C		F							R	C	F			F													F							
		CN13	9H-CC, 19-26	84.58	A	G	C	D		C			R			F	R	C				C	R												C				R			C
			10H-CC, 18-25	94.35	A	G	C	A		C						R	F	C				C	R												C							C
			11H-CC, 4-11	104.69	A	G	F	F		R						R		C				C	R												C							C
			12H-CC, 0-7	115.34	A	P	R	C		C								C				C	R												F							C
	NN19a		13H-CC, 9-16	125.76	A	M				C					R			C			C	C													F							F
			14H-CC, 0-8	135.48	A	M		C		F							R	C			A	F	R	R											F	R						F
late Pliocene	NN18	CN12d	15H-CC, 0-8	145.58	A	M				F							R	C			A	R													R		R					F
	NN17	CN12c	16H-CC, 0-8	155.43	C	P				F							R	C			A																					F
	NN16	CN12b	17X-CC, 31-38	165.32	A	M				F							R	F			A																					
		CN12a	18X-CC, 44-51	173.76	A	M				R							R	F		C	A	R		C													R					
early Pliocene	NN15	CN11	19X-CC, 21-27	184.52	A	M				R								R		C	A			A																		
	NN14-12	CN10	20X-CC, 0-7	193.82	A	M														C	A			A														R				
late Miocene	NN11	CN9	21X-CC, 30-37	203.83	A	M														C	A			A														F				
			22X-CC, 26-33	213.48	A	G														C	A			A														R				
			23X-CC, 13-20	222.94	A	G														C	A			A														F				
			24X-CC, 41-48	231.84	A	G				C										C	A			A														F				
			25X-CC, 32-39	242.41	A	G				C										C	A			A														F				
	NN10	CN8	26X-CC, 40-47	251.11	A	G				F										C	A			A														F				
			27X-CC, 45-52	261.66	A	G														A	A			A														R				
	NN 9	CN7	28X-CC, 23-30	271.26	A	M				F										A	A			A														R				
			29X-CC, 26-33	279.46	A	M				F										A	C			C									F					F				
	NN 8	CN6	30X-CC, 29-36	290.43	A	M						R								C	A			C														F				F
	NN 7	CN5b	31X-CC, 40-47	300.04	A	M				F										C	A			C									R					F				C
middle Miocene	NN 6	CN5a	32X-CC, 16-26	309.48	A	M				C											A										A											C
	NN 5	CN 4	33X-CC, 21-31	319.22	A	M				C		R									A										A											C
			34X-CC, 30-37	328.96	A	P			R	F		F					R				A										A	C										C
			35X-CC, 14-21	338.47	A	P			R	C		F									A						F				A	F										C
			36X-CC, 35-42	348.28	A	M			R	F		F								F	A						C				A											C
	NN 4	CN 3	37X-CC, 19-26	357.74	C	P			R											C	C						C				C											C

Table T8 (continued).

Age	Zone		Core, section, interval(cm)	Depth (mcd)	Abundance	Preservation	*Gephyrocapsa oceanica*	small *Gephyrocapsa* spp.	*Helicosphaera ampliaperta*	*Helicosphaera carteri*	*Helicosphaera euphratis*	*Helicosphaera granulata*	*Helicosphaera hyalina*	*Helicosphaera recta*	*Helicosphaera sellii*	*Oolithotus antillarum*	*Pontosphaera* spp.	*Pseudoemiliania lacunosa*	*Reticulofenestra asanoi*	*Reticulofenestra pseudoumbilicus*	*Reticulofenestra* spp. (small-medium)	*Rhabdosphaera clavigera*	*Scapholithus fossilis*	*Sphenolithus abies/neoabies*	*Sphenolithus belemnos*	*Sphenolithus ciperoensis*	*Sphenolithus compactus*	*Sphenolithus conicus*	*Sphenolithus delphix*	*Sphenolithus dissimilis*	*Sphenolithus distentus*	*Sphenolithus heteromorphus*	*Sphenolithus moriformis*	*Sphenolithus predistentus*	*Sphenolithus pseudoradians*	*Syracosphaera pulchra*	*Syracosphaera* spp.	*Thorosphaera flabellata*	*Triquetrorhabdulus carinatus*	*Triquetrorhabdulus rugosus*	*Umbellosphaera irregularis*	*Umbellosphaera tenuis*	*Umbilicosphaera sibogae*	*Zygrhablithus bijugatus*
early-middle Miocene	NN 3	CN2	38X-CC, 32-39	367.35	A	M			R												A						F					A												C	
			39X-CC, 26-33	376.90	A	M			R											C	F				C		C																	F	
			40X-CC, 26-33	386.47	A	M			F	F										R	A				C		F																		
early Miocene			41X-CC, 40-47	396.38	A	M														R	A						C	C		C									R						
	NN2	CN1c	42X-CC, 24-31	405.71	A	M														R	A						C	C		C									F						
			43X-CC, 36-43	415.37	A	M				F										R	A							C		C									R						
			44X-CC, 38-45	425.29	A	M			R	F											A						C	C		C									R						
			45X-CC, 41-48	435.03	A	M				F											A							C		C									R						
early Miocene	NN2	CN1c	46X-CC, 42-49	444.10	A	M														R	A							C		C									R						
			47X-CC, 41-48	454.35	A	M															A							C		C									R						
			48X-CC, 20-27	462.60	A	M																				R		C					C						F						R
			49X-CC, 48-55	472.74	A	M																				R		C		R									F						R
			50X-CC, 34-41	477.34	A	M															F										F														F
late Oligocene	NP24	CN19a	51X-CC, 30-37	480.72	A	M															C					C					F		C												C
			52X-CC, 30-37	485.66	A	M								R							C					C					F		C												F
			53X-CC, 30-37	490.94	A	M					F			R							C					C					C		C												F
			54X-CC, 28-35	496.04	A	M					F										C					F					F		F												F
			55X-CC, 15-22	500.91	A	M					R										A					F					F		C	F											
			56X-CC, 30-37	506.33	A	M					R										A					R					F		C	F					F						R
			57X-CC, 34-41	522.08	A	M					F										A					R					F		C	F											R
			58X-CC, 35-42	528.70	A	M					F										A					R					F		C	F					F						R
			59X-CC, 29-37	540.34	A	M					F										A					R					F		C	F					F						R
			60X-CC, 30-37	543.67	A	M					F										A					R					F		C	F											R
early Oligocene			61X-CC, 29-36	553.79	A	M					F										A					R					F		C	F											
			62X-CC, 18-25	571.63	A	M					F			F							C					R					F		C	C	C										R
			63X-CC, 29-36	578.06	A	M					R			R							C					R					C		C	C	C										F
			64X-CC, 29-36	585.83	A	M					R			R							C					R					R		C	C	C										F
			65X-CC, 27-34	593.63	A	M				R	R			R							A					R					R		C	C	C										F
			66X-CC, 33-40	609.68	A	M					F			R							A					R					R		C	C	C			R							F
			67X-CC, 30-37	620.00	A	M				R	F			R							A										C		C	C	C										F
	NP23	CP18	68X-CC, 24-31	629.65	A	M				R	R			R							A										C		C	C	F										F
			69X-CC, 36-43	639.27	A	M															A										C		C	C	F			R							F
			70X-CC, 35-42	648.35	A	M				R				R							A										F		C	C	F										F
			71X-CC, 37-43	658.54	A	M				R	R										A										F		C	C	F										R
			72X-CC, 34-40	668.09	A	M				R											A										R		C	C	R										F
			73X-CC, 28-38	677.03	A	M				R	R			R							A												C	C	R										R
		CP17	74X-CC, 39-48	687.57	A	M				F	F			R							A												C	A	R										R
			75X-CC, 33-40	696.94	A	M				R	R			R							A												C	A	R										R
			76X-CC, 33-40	705.08	A	M				R	R			F							C												F	F											F
			77X-CC, 32-39	716.39	A	M				R	R			R							A												C	C											C

Table T8 (continued).

Age	Zone		Core, section, interval(cm)	Depth (mcd)	Abundance	Preservation	*Gephyrocapsa oceanica*	small *Gephyrocapsa* spp.	*Helicosphaera ampliaperta*	*Helicosphaera carteri*	*Helicosphaera euphratis*	*Helicosphaera granulata*	*Helicosphaera hyalina*	*Helicosphaera recta*	*Helicosphaera sellii*	*Oolithotus antillarum*	*Pontosphaera* spp.	*Pseudoemiliania lacunosa*	*Reticulofenestra asanoi*	*Reticulofenestra pseudoumbilicus*	*Reticulofenestra* spp. (small-medium)	*Rhabdosphaera clavigera*	*Scapholithus fossilis*	*Sphenolithus abies/neoabies*	*Sphenolithus belemnos*	*Sphenolithus ciperoensis*	*Sphenolithus compactus*	*Sphenolithus conicus*	*Sphenolithus delphix*	*Sphenolithus dissimilis*	*Sphenolithus distentus*	*Sphenolithus heteromorphus*	*Sphenolithus moriformis*	*Sphenolithus predistentus*	*Sphenolithus pseudoradians*	*Syracosphaera pulchra*	*Syracosphaera* spp.	*Thorosphaera flabellata*	*Triquetrorhabdulus carinatus*	*Triquetrorhabdulus rugosus*	*Umbellosphaera irregularis*	*Umbellosphaera tenuis*	*Umbilicosphaera sibogae*	*Zygrhablithus bijugatus*
			184-1148B- 56X-CC, 31-37	851.35	C	M					F C		F								C											C		C									

Notes: D = dominant, A = abundant, C = common, F = few/frequent, R = rare, VG = very good, G = good, M = moderate, P = poor. See **"Biostratigraphy,"** p. 9, in the "Explanatory Notes" chapter.