Table 1. Calcareous nannofossil distribution in Hole 959A cores.

Core, section, interval (cm)	Main Lithology	Abundance	Preservation
159-959A			
1H-1, 50-51	Nannofossil/ foramnifer ooze, with pyrite	A	E
1H-2, 100-101		C	M
1H-4, 100-101		A	M
1H-5, 100-101		A	G
1H-6, 100-101		A	G
1H-CC		A	G
2H-1, 100-101		C	M
2H-2, 100-101		C	P
2H-3, 100-101		A	M
2H-4, 50-51		C	M
2H-5, 100-101		C	G
2H-6, 100-101		C	P
2H-7, 50-51		C	M
2H-CC		A	M
3H-1, 100-101		A	G
3H-2, 100-101		A	M
3H-3, 100-101		A	M
3H-4, 100-101	Nannofossil/foraminifer ooze, nannofossil/foraminifer chalk with thin glauconitic beds; clayey nannofossil clay in the lower third	C	M
3H-5, 100-101		C	M
3H-6, 100-101		C	M
3H-CC		A	G
4H-1, 100-101		A	G
4H-2, 100-101		C	M
4H-3, 100-101		C	M
4H-7, 100-101		C	M
4H-CC		A	G
5H-1, 100-101		C	M
5H-2, 100-101		C	G
5H-4, 100-101		A	G
5H-6, 100-101		A	M
5H-7, 50-51		A	G
5H-CC		A	G
6H-1, 100-101		A	M
6H-2, 100-101		A	G
6H-3, 100-101		A	G
6H-4, 100-101		A	G
6H-CC		A	G
7H-1, 100-101		A	G
7H-3, 100-101		A	G
7H-5, 100-101		A	G
7H-7, 50-51		A	G
7H-CC		A	G
8H-1, 100-101		A	G
8H-2, 100-101		A	G
8H-4, 100-101		A	G
8H-5, 100-101		A	G
8H-6, 100-101		A	M
8H-CC		A	M
9H-1, 100-101		C	M
9H-3, 100-101		C	M
9H-5, 100-101		A	G
9H-6, 100-101		A	G
9H-7, 50-51		A	G
9H-CC		A	G
10H-1, 100-101		A	M
10H-3, 100-101		A	M
10H-5, 100-101		A	G
10H-CC		A	G
11H-2, 100-101		A	G
11H-4, 100-101		A	M
11H-6, 100-101		A	G
11H-CC		A	G
12H-2, 100-101		C	P
12H-4, 100-101		A	P
12H-6, 100-101		A	M
13H-1, 100-101		C	P
13H-3, 100-101		A	M
13H-5, 100-101		C	P
13H-7, 50-51		C	P
14H-2, 100-101		C	P
14H-3, 100-101		C	P
14H-4, 100-101		C	P
14H-6, 100-101		A	M
15H-2, 100-101		A	M
15H-4, 100-101		A	M
15H-5, 100-101		A	M
15H-6, 100-101		C	P
15H-CC		A	M
16H-1, 100-101		A	M
16H-3, 100-101		A	P
16H-5, 100-101		C	P
16H-7, 50-51		C	P
16H-CC		A	P
17H-1, 100-101		C	P
17H-2, 100-101		C	P
17H-3, 100-101		A	P
17H-4, 100-101		C	P
17H-6, 100-101		C	P
17H-CC		C	P
18H-1, 100-101		C	P
18H-3, 100-101		F	P
18H-5, 100-101		C	M
18H-CC		C	M
19H-1, 100-101		A	M
19H-2, 100-101		F	P
19H-5, 100-101		A	M
20X-1, 100-101		C	G
20X-3, 100-101		C	M
20X-5, 100-101		C	M
20X-7, 35-36		C	M
21X-1, 100-101		C	M
21X-3, 100-101		C	M
21X-5, 100-101		C	M
22X-1, 107-108		A	G
22X-3, 109-110		C	G
22X-5, 109-110		C	M
23X-1, 100-101	Interbedded diatomite with nannofossil chalk and clay	C	P
23X-3, 100-101		F	P
23X-5, 100-101		C	M
24X-5, 110-111		A	M
24X-7, 48-50		A	M
25X-2, 100-101		A	M
25X-4, 104-105		A	M
25X-6, 100-101		A	G
25X-CC		A	G
26X-2, 100-101		A	M
26X-4, 100-101		A	G
26X-7, 44-45		A	G
27X-2, 101-102		A	G
27X-5, 98-99		A	G
27X-7, 49-50		A	G
28X-2, 99-100		C	M
28X-6, 99-100		C	M
28X-CC		C	M
29X-3, 52-53		A	M
29X-7, 44-45		A	M
29X-CC		A	M
30X-2, 101-103		C	M
30X-4, 100-102		C	P
30X-CC		A	M
31X-2, 103-104		A	M
31X-4, 104-105		A	M
31X-5, 99-100		C	M
31X-6, 50-51		C	M
31X-CC		F	M
32X-5, 129-130		C	M
32X-CC		A	M
32X-2, 98-99		A	M
33X-6, 102-103		A	M

Nannofossil species (columns, left to right): *Amaurolithus amplificus*, *Amaurolithus delicatus*, *Amaurolithus primus*, *Amaurolithus tricorniculatus*, *Calcidiscus leptoporus*, *Calcidiscus macintyrei*, *Catinaster calyculus*, *Catinaster coalitus*, *Catinaster mexicanus*, *Ceratolithus acutus*, *Ceratolithus armatus*, *Ceratolithus armatus/rugosus*, *Ceratolithus cristatus*, *Ceratolithus rugosus*, *Clausicoccus* sp. aff. *C. fenestratus*, *Coccolithus eopelagicus*, *Coccolithus miopelagicus*, *Coccolithus pelagicus*, *Coccolithus pelagicus* (w/ bar), *Coronocyclus nitescens* (circular), *Coronocyclus nitescens* (oval), *Cyclicargolithus abisectus*, *Cyclicargolithus floridanus*, *Discoaster adamanteus*, *Discoaster asymmetricus*, *Discoaster berggrenii*, *Discoaster blackstockae*, *Discoaster bollii*, *Discoaster braarudii*, *Discoaster brouweri*, *Discoaster calcaris*, *Discoaster* sp. cf. *D. bollii*, *Discoaster* sp. cf. *D. exilis*, *Discoaster* sp. cf. *D. variabilis*, *Discoaster challengeri*, *Discoaster deflandrei*, *Discoaster divaricatus*, *Discoaster druggii*, *Discoaster druggii* (small), *Discoaster exilis*, *Discoaster hamatus*, *Discoaster icarus*, *Discoaster kugleri*, *Discoaster lidzi*, *Discoaster moorei*, *Discoaster neohamatus*, *Discoaster neorectus*, *Discoaster nephados*, *Discoaster pansus*, *Discoaster pentaradiatus*, *Discoaster petaliformis*, *Discoaster prepentaradiatus*, *Discoaster pseudovariabilis*, *Discoaster quadramus*, *Discoaster quinqueramus*, *Discoaster sanmiguelensis*, *Discoaster saundersi*, *Discoaster signus*, *Discoaster surculus*, *Discoaster tamalis*, *Discoaster triradiatus*, *Discoaster tristellifer*, *Discoaster variabilis*, *Emiliania huxleyi*, *Florisphaera profunda*, *Geminilithella rotula*, *Gephyrocapsa aperta*, *Gephyrocapsa caribbeanica*, *Gephyrocapsa oceanica*, *Gephyrocapsa* spp. (small), *Hayaster perplexus*, *Helicosphaera acuta*, *Helicosphaera ampliaperta*, *Helicosphaera burkei*, *Helicosphaera elongata*, *Helicosphaera euphratis*, *Helicosphaera granulata*, *Helicosphaera hyalina*, *Helicosphaera intermedia/euphratis*, *Helicosphaera inversa*, *Helicosphaera kamptneri/carteri*, *Helicosphaera mediterranea*, *Helicosphaera obliqua*, *Helicosphaera orientalis*, *Helicosphaera recta*, *Helicosphaera rhomba*, *Helicosphaera scissura*, *Helicosphaera sellii*, *Helicosphaera stalis*, *Minylitha convallis*, *Orthorhabdus serratus*, *Pontosphaera indooceanica*, *Pontosphaera japonica*, *Pontosphaera multipora*, *Pontosphaera plana*, *Pseudoemiliania lacunosa*, *Pseudoemiliania lacunosa* (small), *Reticulofenestra ampliumbilicus*, *Reticulofenestra astoni*, *Reticulofenestra gartneri*, *Reticulofenestra haqii*, *Reticulofenestra lockeri*, *Reticulofenestra minuta*, *Reticulofenestra minutula*, *Reticulofenestra pseudoumbilicus*, *Rhabdosphaera clavigera*, *Scapholithus fossilis*, *Solidopons petrae*, *Sphenolithus abies*, *Sphenolithus belemnos*, *Sphenolithus capricornutus*, *Sphenolithus compactus*, *Sphenolithus conicus*, *Sphenolithus dissimilis*, *Sphenolithus elongatus*, *Sphenolithus heteromorphus*, *Sphenolithus moriformis*, *Sphenolithus neoabies*, *Syracosphaera pulchra*, *Tetralithoides symeonidesii*, *Triquetrorhabdulus auritus*, *Triquetrorhabdulus carinatus*, *Triquetrorhabdulus milowii/auritus*, *Triquetrorhabdulus rugosus*, *Umbilicosphaera sibogae*

(Sub) Zones (top to bottom)	Age
CN15/CN14a	late Pleist.
CN14a	early Pleistocene
CN13b	early Pleistocene
CN13a	early Pleistocene
CN12d	late Pliocene
CN12c	late Pliocene
CN12b	late Pliocene
CN12a	late Pliocene
CN11b	early Pliocene
CN11a	early Pliocene
CN10c	early Pliocene
CN10b	early Pliocene
CN10a	late Miocene
CN9b	late Miocene
CN9a	late Miocene
CN8b	late Miocene
CN7b	late Miocene
CN7a	late Miocene
CN6	late Miocene
CN5b	middle Miocene
CN5a	middle Miocene
CN4	middle Miocene
CN3	middle Miocene / early Miocene
CN2	early Miocene
CN1c	early Miocene
CN1b	early Miocene
CN1a	late Oligo.

Note: Intervening samples that are barren of calcareous nannofossils are not included (for explanation of letters denoting estimates of nannofossil abundance and preservation, see "Introduction" section of this chapter).

Table 2. Calcareous nannofossil distribution in Hole 959B cores.

Core, section, interval (cm)	Main Lithology	Abundance	Preservation	*Amaurolithus amplificus*	*Amaurolithus delicatus*	*Amaurolithus primus*	*Amaurolithus tricorniculatus*	*Calcidiscus leptoporus*	*Calcidiscus macintyrei*	*Calcidiscus premacintyrei*	*Catinaster calyculus*	*Catinaster coalitus*	*Catinaster mexicanus*
159-959B													
1H-CC	Nannofossil/foraminifer ooze, with pyrite	A	E					X					
2H-CC		A	E					F					
3H-5, 55-57		A	E					R	F				
3H-6, 55-57		A	E					X	X				
3H-7, 55-57		A	E					F	X				
3H-CC		A	E						R				
4H-1, 59-61		A	E					F	F				
4H-2, 59-61		A	G					R	F				
4H-3, 59-61		A	G					X					
4H-4, 59-61		A	G					X	X				
4H-5, 59-61		A	G					F	F				
4H-6, 59-61		A	G					F	R				
4H-7, 60-62		A	G					X					
4H-CC		A	G					F	F				
5H-1, 59-61		A	G					F	R				
5H-2, 59-61		A	E					X	X				
5H-3, 59-61		A	G					X	X				
5H-4, 59-61	Nannofossil/foraminifer ooze, nannofossil/foraminifer chalk with thin glauconitic beds	A	G					X	X				
5H-5, 59-61		A	G					X			X		
5H-6, 59-61		A	G					X	X				
5H-7, 51-53		A	G					X	X				
6H-1, 59-61		A	G					X	X				
6H-2, 59-61		A	G						X				
6H-3, 59-61		A	G					X	X				
6H-4, 59-61		A	G					X	X				
6H-6, 119-121		A	G					X	X				
6H-7, 59-61		A	G					X	X				
7H-1, 59-61		A	G					X					
7H-2, 59-61		A	G					X					
7H-3, 59-61		A	G					F	F				
7H-4, 59-61		A	G					F	F				
7H-5, 59-61		A	G					R	R				
7H-6, 59-61		A	G					F	R				
7H-7, 59-61		A	G					X	X				
8H-1, 59-61		A	G					R					
8H-2, 59-61		A	G					F					
8H-3, 59-61		A	G					F					
8H-4, 59-61		A	G					F	F				
8H-5, 59-61		A	E				R	F					
8H-6, 59-61		A	G				R	F	R				
8H-7, 59-61		A	G						F				
9H-2, 59-61		A	G				R		F				
9H-3, 59-61		A	G					F	F				
9H-4, 59-61		A	G										
9H-5, 59-61		A	G				X	R	R				
9H-6, 59-61		A	G					F	F				
9H-7, 59-61		A	G					F	F				
10H-1, 59-61		A	G					F	F				
10H-2, 59-61		A	G		X			F					
10H-3, 59-61		A	G										
10H-4, 59-61		A	G		R			F					
10H-5, 59-61		A	G					R	R				
10H-6, 59-61		A	G						F				
11H-1, 59-61		A	G					X					
11H-2, 59-61		A	G		R				X				
11H-3, 59-61		A	G	X				X	X				
11H-4, 59-61		A	G		X			X					
11H-5, 59-61		A	G	X	X		X	X	X				
11H-6, 59-61		A	G		F	R	F	X	X				
11H-7, 59-61		A	G	R			R	F					
12H-1, 59-61		A	G		R	X	R	X					
12H-2, 59-61		A	G		X			X					
12H-3, 59-61		A	G		R			X					
12H-4, 59-61		A	G		X								
12H-5, 59-61		A	G										
12H-6, 59-61		A	G					X					
12H-CC		A	G		R			X	X				
13H-1, 59-61		A	G						X				
13H-2, 59-61		A	G		X			X	X				
13H-4, 59-61		A	G		X			X	X				
13H-5, 59-61		A	G			X			X				
13H-6, 59-61		A	G		X				X				
13H-7, 59-61		A	G					X	X				
14H-1, 59-61		A	G				X	X	X				
14H-2, 59-61		A	G					X	X				
14H-3, 59-61		A	G		X			X	X				
14H-4, 59-61		A	G						X				
14H-5, 59-61		A	G						X				X
14H-6, 59-61		A	G					X					
15H-2, 59-61		A	G					X	X				
15H-3, 59-61		A	G					X	X				
15H-4, 59-61		A	M					X					
15H-5, 59-61		A	M					X	X				
15H-6, 59-61		A	M						X				
15H-7, 57-59		A	M					X	X				
15H-CC		A	M					X					
16H-2, 60-62		A	G										
16H-3, 59-61		A	G					X	X				
16H-4, 59-61		A	M					X	X				
16H-6, 59-61		A	M					X	X		X		
16H-7, 59-61		A	M					X	X				
17H-1, 59-61		A	M					X	X		X		
17H-2, 59-61		A	M					X	X		X	X	
17H-3, 59-61		A	M						X			C	
17H-4, 59-61		A	M					X	X			X	
17H-5, 59-61		A	M					X				C	X
17H-6, 59-61		C	M						X			C	C
17H-7, 59-61		C	M						X				
17H-CC		C	M						X				
18H-1, 59-61		C	P						X				
18H-2, 59-61		C	P					X	X				X
18H-3, 59-61		C	M						X				
18H-4, 59-61		A	M						X				
18H-5, 59-61		C	M						X	X			
18H-6, 59-61		C	M						X				
18H-7, 59-61		A	M										
19H-1, 59-61		A	M						X				
19H-2, 59-61		A	M						X				
19H-3, 59-61		A	G										
19H-4, 59-61		A	G					X	X	X			
19H-5, 59-61		A	G						X	X			
20H-2, 59-61		C	G										
20H-3, 59-61		C	G										
20H-4, 59-61		A	G										
20H-5, 59-61		A	G										
20H-CC		A	M										

Core, section, interval (cm)	*Ceratolithus armatus*	*Ceratolithus armatus/rugosus*	*Ceratolithus cristatus*	*Ceratolithus rugosus*	*Ceratolithus separatus*	*Coccolithus eopelagicus*	*Coccolithus miopelagicus*	*Coccolithus pelagicus*	*Coccolithus pelagicus* (w/ bar)	*Coronocyclus nitescens* (circular)	*Coronocyclus nitescens* (oval)	*Cyclicargolithus floridanus*
1H-CC			X									
2H-CC												
3H-5, 55-57												
3H-6, 55-57									X			
3H-7, 55-57									F			
3H-CC			R						C			
4H-1, 59-61									F			
4H-2, 59-61									X			
4H-3, 59-61												
4H-4, 59-61									X			
4H-5, 59-61												
4H-6, 59-61												
4H-7, 60-62				X								
4H-CC									R			
5H-1, 59-61								R				
5H-2, 59-61								X				
5H-3, 59-61								X				
5H-4, 59-61				X				X				
5H-5, 59-61								F				
5H-6, 59-61				X								
5H-7, 51-53									X			
6H-1, 59-61												
6H-2, 59-61				X				X				
6H-3, 59-61								X				
6H-4, 59-61								X				
6H-6, 119-121				X				X				
6H-7, 59-61				X								
7H-1, 59-61				X				X				
7H-2, 59-61								X				
7H-3, 59-61				X				X				
7H-4, 59-61												
7H-5, 59-61				R				X				
7H-6, 59-61									R			
7H-7, 59-61								X				
8H-1, 59-61									F			
8H-2, 59-61				X				F				
8H-3, 59-61				X					F			
8H-4, 59-61					R				F			
8H-5, 59-61				R								
8H-6, 59-61				R								
8H-7, 59-61	R											
9H-2, 59-61	R							R				
9H-3, 59-61	R											
9H-4, 59-61	R							F				
9H-5, 59-61	R							R				
9H-6, 59-61	R							R				
9H-7, 59-61	R	R						R				
10H-1, 59-61								F				
10H-2, 59-61												
10H-3, 59-61								F				
10H-4, 59-61							R					
10H-5, 59-61							R					
10H-6, 59-61							F					
11H-1, 59-61												
11H-2, 59-61												
11H-3, 59-61												
11H-4, 59-61								X				
11H-5, 59-61								X				
11H-6, 59-61								X				
11H-7, 59-61												
12H-1, 59-61												
12H-2, 59-61								X				
12H-3, 59-61								X				
12H-4, 59-61								X				
12H-5, 59-61								X				
12H-6, 59-61								X				
12H-CC								X				
13H-1, 59-61								X				
13H-2, 59-61								X				
13H-4, 59-61								X				
13H-5, 59-61								X				
13H-6, 59-61								X				
13H-7, 59-61								X				
14H-1, 59-61								X				
14H-2, 59-61								X				
14H-3, 59-61								X				
14H-4, 59-61								X				
14H-5, 59-61								X				
14H-6, 59-61								X				
15H-2, 59-61								X				
15H-3, 59-61												
15H-4, 59-61												
15H-5, 59-61												
15H-6, 59-61							X					
15H-7, 57-59							X					
15H-CC												
16H-2, 60-62								X				
16H-3, 59-61								X				
16H-4, 59-61												
16H-6, 59-61												
16H-7, 59-61								X				
17H-1, 59-61							X					
17H-2, 59-61												
17H-3, 59-61								X				
17H-4, 59-61								X				
17H-5, 59-61												
17H-6, 59-61												
17H-7, 59-61							X	X				
17H-CC							X	X				
18H-1, 59-61							X					
18H-2, 59-61												
18H-3, 59-61							X					
18H-4, 59-61							X					
18H-5, 59-61												
18H-6, 59-61							X					
18H-7, 59-61											X	
19H-1, 59-61							X				X	
19H-2, 59-61						X					X	
19H-3, 59-61											X	
19H-4, 59-61											X	
19H-5, 59-61						X				vR	F	
20H-2, 59-61						X				X		X
20H-3, 59-61						X				X		X
20H-4, 59-61						X				X		X
20H-5, 59-61						C				C		C
20H-CC								A		C		F

Core, section, interval (cm)	*Discoaster asymmetricus*	*Discoaster berggrenii*	*Discoaster blackstockae*	*Discoaster bollii*	*Discoaster braarudii*	*Discoaster brouweri*	*Discoaster calcaris*	*Discoaster challengeri*	*Discoaster decorus*	*Discoaster deflandrei*	*Discoaster druggii*	*Discoaster exilis*	*Discoaster giganteus*
1H-CC													
2H-CC													
3H-5, 55-57													
3H-6, 55-57													
3H-7, 55-57						X							
3H-CC						C							
4H-1, 59-61						F							
4H-2, 59-61													
4H-3, 59-61													
4H-4, 59-61						F							
4H-5, 59-61						R							
4H-6, 59-61													
4H-7, 60-62						X							
4H-CC						F							
5H-1, 59-61						F							
5H-2, 59-61						C							
5H-3, 59-61						X							
5H-4, 59-61						X							
5H-5, 59-61						X							
5H-6, 59-61	X					X							
5H-7, 51-53	X	X	X			X			X				
6H-1, 59-61	X		X			X							
6H-2, 59-61						F							
6H-3, 59-61						C							
6H-4, 59-61	F					X							
6H-6, 119-121	C					X							
6H-7, 59-61						X							
7H-1, 59-61		X				X							
7H-2, 59-61													
7H-3, 59-61						F							
7H-4, 59-61					F								
7H-5, 59-61						F							
7H-6, 59-61						F							
7H-7, 59-61						C							
8H-1, 59-61						F							
8H-2, 59-61						A							
8H-3, 59-61						F							
8H-4, 59-61	X					C		X					
8H-5, 59-61						C							
8H-6, 59-61						C							
8H-7, 59-61	X					C							
9H-2, 59-61						A							
9H-3, 59-61	X							R					
9H-4, 59-61						X							
9H-5, 59-61	R				F								
9H-6, 59-61						F							
9H-7, 59-61						F	X						
10H-1, 59-61						F	F						
10H-2, 59-61						F							
10H-3, 59-61						F							
10H-4, 59-61		F				C							
10H-5, 59-61						F							
10H-6, 59-61						F							
11H-1, 59-61													
11H-2, 59-61													
11H-3, 59-61												X	
11H-4, 59-61						X						X	
11H-5, 59-61						X							
11H-6, 59-61												X	
11H-7, 59-61		X				F							
12H-1, 59-61						X							
12H-2, 59-61						X							
12H-3, 59-61						X							
12H-4, 59-61													
12H-5, 59-61		X				X	X						
12H-6, 59-61	X	X										X	
12H-CC		X				X						X	
13H-1, 59-61		X					X						
13H-2, 59-61						X							
13H-4, 59-61	X	X				X	X						
13H-5, 59-61		X				X	X						
13H-6, 59-61		X				X	X						
13H-7, 59-61		X				X							
14H-1, 59-61		X				X	X						
14H-2, 59-61	X	A				X	R	X				R	
14H-3, 59-61	X	X				X	X						
14H-4, 59-61		A				X	C						
14H-5, 59-61		X				X	X						
14H-6, 59-61		X				X	X						
15H-2, 59-61	X	X				X	X	R					
15H-3, 59-61	X	X			X	X	X						X
15H-4, 59-61	X	X				X	X						X
15H-5, 59-61							X						
15H-6, 59-61	X					X	X						
15H-7, 57-59						X	X						X
15H-CC	X						C						
16H-2, 60-62							C						X
16H-3, 59-61							A						
16H-4, 59-61				C			C						X
16H-6, 59-61				C			R						
16H-7, 59-61				X									
17H-1, 59-61				X									
17H-2, 59-61				X		X						X	
17H-3, 59-61				F									
17H-4, 59-61				X								X	
17H-5, 59-61						R						X	
17H-6, 59-61													
17H-7, 59-61					X	X						X	
17H-CC					X							X	
18H-1, 59-61				X								X	
18H-2, 59-61													
18H-3, 59-61												X	
18H-4, 59-61												X	
18H-5, 59-61										X		X	
18H-6, 59-61				X									
18H-7, 59-61				X	X							X	
19H-1, 59-61				X	X							X	
19H-2, 59-61												X	
19H-3, 59-61				R	X							A	
19H-4, 59-61												X	
19H-5, 59-61												X	
20H-2, 59-61													
20H-3, 59-61												X	
20H-4, 59-61										X		X	
20H-5, 59-61											R	R	
20H-CC											R	F	

Core, section, interval (cm)	*Discoaster hamatus*	*Discoaster kugleri*	*Discoaster loeblichii*	*Discoaster moorei*	*Discoaster neohamatus*	*Discoaster neorectus*	*Discoaster pansus*	*Discoaster pentaradiatus*	*Discoaster petaliformis*	*Discoaster prepentaradiatus*	*Discoaster pseudovariabilis*	*Discoaster quinqueramus*	*Discoaster sanmiguelensis*	*Discoaster signus*	*Discoaster subsurculus*
1H-CC															
2H-CC															
3H-5, 55-57															
3H-6, 55-57															
3H-7, 55-57															
3H-CC															
4H-1, 59-61															
4H-2, 59-61															
4H-3, 59-61								X							
4H-4, 59-61								R							
4H-5, 59-61								F							
4H-6, 59-61								C							
4H-7, 60-62								X							
4H-CC															
5H-1, 59-61								F							
5H-2, 59-61								F							
5H-3, 59-61								X							
5H-4, 59-61								X							
5H-5, 59-61								X							
5H-6, 59-61								X							
5H-7, 51-53						X		X							
6H-1, 59-61								X							
6H-2, 59-61								F							
6H-3, 59-61								C							
6H-4, 59-61								X							
6H-6, 119-121								X							
6H-7, 59-61								X							
7H-1, 59-61								X							
7H-2, 59-61								X				X			
7H-3, 59-61								F							
7H-4, 59-61								C							
7H-5, 59-61								C							
7H-6, 59-61								C							
7H-7, 59-61								A							
8H-1, 59-61								X							
8H-2, 59-61								C							
8H-3, 59-61							C								
8H-4, 59-61								A							
8H-5, 59-61								C							
8H-6, 59-61								C							
8H-7, 59-61								C							
9H-2, 59-61								A							
9H-3, 59-61								C							
9H-4, 59-61								C							
9H-5, 59-61								F							
9H-6, 59-61								C							
9H-7, 59-61								C							
10H-1, 59-61															
10H-2, 59-61								C							
10H-3, 59-61							R	F				F			
10H-4, 59-61						R		A				C			
10H-5, 59-61								A				C			
10H-6, 59-61								C				C			
11H-1, 59-61								X				X			
11H-2, 59-61								X				A			X
11H-3, 59-61								X				X			X
11H-4, 59-61								X				X			
11H-5, 59-61								X				X			
11H-6, 59-61								X				X			
11H-7, 59-61												A			
12H-1, 59-61								X				A			
12H-2, 59-61								X				X			
12H-3, 59-61								X				A			
12H-4, 59-61								X				A			
12H-5, 59-61								X				X			
12H-6, 59-61								X				X			
12H-CC								X				X			
13H-1, 59-61								X				A			
13H-2, 59-61								X				X			
13H-4, 59-61								X				X			
13H-5, 59-61						X		X				X			
13H-6, 59-61								X				X			
13H-7, 59-61						X		X				X			
14H-1, 59-61								X				A			
14H-2, 59-61								X				X			
14H-3, 59-61								X				X			
14H-4, 59-61								X				X			
14H-5, 59-61								X				X			
14H-6, 59-61						R		X				X			
15H-2, 59-61								X							
15H-3, 59-61								X							
15H-4, 59-61						X		X							
15H-5, 59-61								X							
15H-6, 59-61			X					X							
15H-7, 57-59					X			X		X					
15H-CC						X		X		C					
16H-2, 60-62					R					X					
16H-3, 59-61					R	vR				C					
16H-4, 59-61	R				R					X				X	
16H-6, 59-61	A							X							
16H-7, 59-61	X													X	
17H-1, 59-61	X		X											X	
17H-2, 59-61	X														
17H-3, 59-61	C														
17H-4, 59-61	F										X				
17H-5, 59-61	X									X					
17H-6, 59-61															
17H-7, 59-61															
17H-CC														X	
18H-1, 59-61				X											
18H-2, 59-61		X													
18H-3, 59-61		F													
18H-4, 59-61		X		X											
18H-5, 59-61															
18H-6, 59-61		X													
18H-7, 59-61		X													
19H-1, 59-61		X													
19H-2, 59-61															
19H-3, 59-61		vR													
19H-4, 59-61				R									X		
19H-5, 59-61													?	X	
20H-2, 59-61									X						
20H-3, 59-61									X						
20H-4, 59-61									X				X		
20H-5, 59-61									C						
20H-CC									R						

Core, section, interval (cm)	*Discoaster surculus*	*Discoaster tamalis*	*Discoaster toralis*	*Discoaster triradiatus*	*Discoaster tristellifer*	*Discoaster variabilis*	*Florisphaera profunda*	*Geminilithella rotula*	*Gephyrocapsa caribbeanica*	*Gephyrocapsa aperta*	*Gephyrocapsa* spp. (small)	*Helicosphaera burkei*	*Helicosphaera elongata*	*Helicosphaera granulata*	*Helicosphaera intermedia/euphratis*
1H-CC							X		X		X				
2H-CC							C		R		A				
3H-5, 55-57										F					
3H-6, 55-57							X				X				
3H-7, 55-57															
3H-CC															
4H-1, 59-61							F								
4H-2, 59-61															
4H-3, 59-61															
4H-4, 59-61															
4H-5, 59-61							C								
4H-6, 59-61															
4H-7, 60-62	X						X								
4H-CC		X					C								
5H-1, 59-61	R						C								
5H-2, 59-61	X						X						X		
5H-3, 59-61		X					X						X		
5H-4, 59-61	X	X					X	X							
5H-5, 59-61	X			X				X							
5H-6, 59-61				X			X	X			X				
5H-7, 51-53	X	X				X		X							
6H-1, 59-61															
6H-2, 59-61	R	X				X		X							
6H-3, 59-61	F	R						X							
6H-4, 59-61	X							X							
6H-6, 119-121	X	X		X		X	C	X		C	A				
6H-7, 59-61	X					X		X							
7H-1, 59-61				X											
7H-2, 59-61	X			X		X		X							
7H-3, 59-61				X	X	X	C	F			X				
7H-4, 59-61	F					R	C	F		R	R				
7H-5, 59-61	F			X		X		F							X
7H-6, 59-61	F						C	F							
7H-7, 59-61	C					F		X							
8H-1, 59-61							F	F							
8H-2, 59-61	F							F							X
8H-3, 59-61	F	X						R							
8H-4, 59-61	F			R			R	F							
8H-5, 59-61	C			R		R									
8H-6, 59-61	C														
8H-7, 59-61	C					R		R							
9H-2, 59-61	C					R		F							
9H-3, 59-61	C					F		F							
9H-4, 59-61	X			R		F		F							
9H-5, 59-61	F					F		F							
9H-6, 59-61	R					C	C	F							
9H-7, 59-61	F					C		F							
10H-1, 59-61	F					F		C							
10H-2, 59-61	C			X		C	X	F							
10H-3, 59-61	C					C									
10H-4, 59-61	C			R		C		F							
10H-5, 59-61	C			R		C		C							
10H-6, 59-61	F			F		C	F	F							
11H-1, 59-61	X			X		X		X							
11H-2, 59-61				X		X		X							
11H-3, 59-61				X				X				X			
11H-4, 59-61	X					X		X				X			
11H-5, 59-61	X			X		X		X				X			
11H-6, 59-61	X					X		X				X			
11H-7, 59-61	C			R		R		C				C			
12H-1, 59-61	X					X		X							
12H-2, 59-61	X			X								X			
12H-3, 59-61	X							X							
12H-4, 59-61	X			X		X		A				X			
12H-5, 59-61	X					X		X							
12H-6, 59-61				X		X		X							
12H-CC	X			X		X		X							
13H-1, 59-61	C			R		X									
13H-2, 59-61	X			X		X									
13H-4, 59-61	X			X		X						X			
13H-5, 59-61	X			X		X		X				X			
13H-6, 59-61	X			X		X		X							
13H-7, 59-61	X			X		X		X				X			
14H-1, 59-61	X			X		X		X							
14H-2, 59-61	R			X		R		X							
14H-3, 59-61	X			X		X		X				X			
14H-4, 59-61	X			X		R		X							
14H-5, 59-61	X			X		X		X							
14H-6, 59-61				X	R	X									
15H-2, 59-61	R			X		X		X				X			
15H-3, 59-61						X		X				X			
15H-4, 59-61				X		X		X						X	X
15H-5, 59-61				X		X		X							X
15H-6, 59-61				X		X		X						X	X
15H-7, 57-59						X		X							X
15H-CC				X		R		X							X
16H-2, 60-62						X		X							X
16H-3, 59-61				X		X		X						X	
16H-4, 59-61				X		X									X
16H-6, 59-61				X		X		X							X
16H-7, 59-61					X	X		X							
17H-1, 59-61				X		X		X						X	
17H-2, 59-61						R		X							X
17H-3, 59-61						X		X						X	
17H-4, 59-61						X		X							X
17H-5, 59-61						X		X							X
17H-6, 59-61						X		X						X	
17H-7, 59-61						X									
17H-CC			X			X									
18H-1, 59-61						X									
18H-2, 59-61						X		X						X	X
18H-3, 59-61						X								X	
18H-4, 59-61			X			X		X							
18H-5, 59-61						X		X							X
18H-6, 59-61															
18H-7, 59-61				X		X									
19H-1, 59-61						X									
19H-2, 59-61			X			X								X	X
19H-3, 59-61						X		X							X
19H-4, 59-61						X		X						X	X
19H-5, 59-61						X		X							X
20H-2, 59-61						X									
20H-3, 59-61						X									
20H-4, 59-61															
20H-5, 59-61						C								X	
20H-CC						C									

Core, section, interval (cm)	*Helicosphaera inversa*	*Helicosphaera kamptneri/carteri*	*Helicosphaera mediterranea*	*Helicosphaera obliqua*	*Helicosphaera orientalis*	*Helicosphaera pacifica*	*Helicosphaera rhomba*	*Helicosphaera scissura*	*Helicosphaera sellii*	*Helicosphaera stalis*	*Minylitha convallis*	*Orthorhabdus serratus*	*Pontosphaera indooceanica*	*Pontosphaera japonica*	*Pontosphaera multipora*
1H-CC	X	X													
2H-CC	F	C												R	
3H-5, 55-57		A							A					F	
3H-6, 55-57			X						X					X	
3H-7, 55-57		F	R					R	C					F	
3H-CC		C							R					C	
4H-1, 59-61		C						R						F	
4H-2, 59-61			X						F				X		
4H-3, 59-61		X	X											X	
4H-4, 59-61		X							X					X	
4H-5, 59-61		F	R											F	
4H-6, 59-61		C	X						F					F	
4H-7, 60-62		X	X						X					X	
4H-CC		C							F					R	
5H-1, 59-61		C	R						F				R	F	
5H-2, 59-61			X						X					X	
5H-3, 59-61		X							X					X	
5H-4, 59-61		X						X	X				X	X	
5H-5, 59-61			X										X	X	
5H-6, 59-61								X						X	
5H-7, 51-53		X											X		
6H-1, 59-61		X												X	
6H-2, 59-61		X	X											R	
6H-3, 59-61			X										R		X
6H-4, 59-61		X							F				X		
6H-6, 119-121		X							X					X	X
6H-7, 59-61		X											X		X
7H-1, 59-61		X													X
7H-2, 59-61		X											X	X	X
7H-3, 59-61		C												R	
7H-4, 59-61		C													R
7H-5, 59-61		C												X	R
7H-6, 59-61		F												R	R
7H-7, 59-61		X											X		X
8H-1, 59-61		C											R		R
8H-2, 59-61		X											R		R
8H-3, 59-61		A											X	R	R
8H-4, 59-61		A													R
8H-5, 59-61		A													R
8H-6, 59-61		C													
8H-7, 59-61		C													R
9H-2, 59-61		C													R
9H-3, 59-61		C													R
9H-4, 59-61		X												R	
9H-5, 59-61		C												R	R
9H-6, 59-61		C													R
9H-7, 59-61		C													R
10H-1, 59-61		C													
10H-2, 59-61		C												X	X
10H-3, 59-61		C													
10H-4, 59-61		C													R
10H-5, 59-61		A												X	R
10H-6, 59-61		A													R
11H-1, 59-61		X													X
11H-2, 59-61		X													
11H-3, 59-61															X
11H-4, 59-61		X					X								X
11H-5, 59-61		X					X								
11H-6, 59-61		X					X								
11H-7, 59-61		C													
12H-1, 59-61															
12H-2, 59-61		X													
12H-3, 59-61		X					X								
12H-4, 59-61															
12H-5, 59-61															
12H-6, 59-61		X													
12H-CC		X					X				X				
13H-1, 59-61															
13H-2, 59-61		X													
13H-4, 59-61		X					X								
13H-5, 59-61		X													X
13H-6, 59-61		X					X								X
13H-7, 59-61		X													X
14H-1, 59-61		X													
14H-2, 59-61		X													X
14H-3, 59-61		X					X								X
14H-4, 59-61		X									X				X
14H-5, 59-61		X					X				X				
14H-6, 59-61		X									X				X
15H-2, 59-61		X					X								X
15H-3, 59-61		X					X								
15H-4, 59-61		X									X				X
15H-5, 59-61		X		X							X				X
15H-6, 59-61		X		X							X				X
15H-7, 57-59		X		X							X				X
15H-CC		X		X							X				
16H-2, 60-62		X									X				X
16H-3, 59-61		X									X				
16H-4, 59-61		X													
16H-6, 59-61		X													X
16H-7, 59-61		X													X
17H-1, 59-61				X											X
17H-2, 59-61		X		X	X	X									X
17H-3, 59-61		X													
17H-4, 59-61					X	X									X
17H-5, 59-61		X			F										X
17H-6, 59-61															
17H-7, 59-61		X													X
17H-CC															X
18H-1, 59-61		X													
18H-2, 59-61															X
18H-3, 59-61		X													
18H-4, 59-61															X
18H-5, 59-61		X								X				X	X
18H-6, 59-61															
18H-7, 59-61		X													X
19H-1, 59-61		X										X			
19H-2, 59-61		X										X			X
19H-3, 59-61		X										X			X
19H-4, 59-61		X										X			X
19H-5, 59-61		X										F			X
20H-2, 59-61		X										X			X
20H-3, 59-61		X													X
20H-4, 59-61		X													X
20H-5, 59-61		A													R
20H-CC		F	F									R			

Core, section, interval (cm)	*Pontosphaera plana*	*Pseudoemiliania lacunosa*	*Pseudoemiliania lacunosa* (small)	*Reticulofenestra ampliumbilicus*	*Reticulofenestra astoni*	*Reticulofenestra haqii*	*Reticulofenestra minuta*	*Reticulofenestra minutula*	*Reticulofenestra pseudoumbilicus*	*Reticulofenestra rotaria*	*Rhabdosphaera clavigera*	*Scapholithus fossilis*	*Solidopons petrae*	*Sphenolithus abies*	*Sphenolithus heteromorphus*
1H-CC															
2H-CC		C													
3H-5, 55-57		A									F	R			
3H-6, 55-57		X						X							
3H-7, 55-57		C													
3H-CC		C													
4H-1, 59-61		C			R										
4H-2, 59-61		C			F						X				
4H-3, 59-61		X			X						X				
4H-4, 59-61		X			X						X				
4H-5, 59-61		C			F	F		F			R	X			
4H-6, 59-61		C			X							X			
4H-7, 60-62		X			X			X			X	X			
4H-CC		R					C	C			R				
5H-1, 59-61		F						F				X			
5H-2, 59-61		X				X		X			X				
5H-3, 59-61		X				X		X			X				
5H-4, 59-61		X					X	X			X				
5H-5, 59-61		X					X								
5H-6, 59-61		X				X	X	X			X	X			
5H-7, 51-53		X						X						X	
6H-1, 59-61		X					X	X	X						
6H-2, 59-61		X					X		X						
6H-3, 59-61		F						X	X		X				
6H-4, 59-61	F	F						C			X			X	
6H-6, 119-121		X										X		X	
6H-7, 59-61		X							X					X	
7H-1, 59-61		R							X					X	
7H-2, 59-61		X						X	X		X			X	
7H-3, 59-61			X				C	X	F		R			C	
7H-4, 59-61			F					C	F		R	X		C	
7H-5, 59-61			F					A	F					C	
7H-6, 59-61							F	C	F					C	
7H-7, 59-61								X	X		X			X	
8H-1, 59-61								A	C			X		C	
8H-2, 59-61							A	F	C			X			
8H-3, 59-61							A		C					C	
8H-4, 59-61							A	F	F		R			A	
8H-5, 59-61								C	C					C	
8H-6, 59-61							A	C	A					C	
8H-7, 59-61							A		C					C	
9H-2, 59-61							A	F	C					C	
9H-3, 59-61							A	C	C					C	
9H-4, 59-61								C	C					C	
9H-5, 59-61							C	C	C				C		
9H-6, 59-61							A		C			X		C	
9H-7, 59-61							C	C	F					C	
10H-1, 59-61							C	C	C					A	
10H-2, 59-61							A	A	C					A	
10H-3, 59-61							A	A						C	
10H-4, 59-61								C	A					A	
10H-5, 59-61									A					A	
10H-6, 59-61							A		A					A	
11H-1, 59-61								X	X	X				X	
11H-2, 59-61								X	X					X	
11H-3, 59-61									X					X	
11H-4, 59-61							X		X					X	
11H-5, 59-61							X	X	X					X	
11H-6, 59-61							X	X				X		X	
11H-7, 59-61							C		A			R		A	
12H-1, 59-61									X					X	
12H-2, 59-61							X	X	X					X	
12H-3, 59-61							X		X					X	
12H-4, 59-61						A		X	X	X				X	
12H-5, 59-61									X						
12H-6, 59-61								X	X					X	
12H-CC								X	X					X	
13H-1, 59-61						X		X	X	X				X	
13H-2, 59-61							X		X	X				X	
13H-4, 59-61														X	
13H-5, 59-61						X	X	X						X	
13H-6, 59-61						X		X	X					X	
13H-7, 59-61								X						X	
14H-1, 59-61						X								X	
14H-2, 59-61						X	X	X						X	
14H-3, 59-61							X	X	X					X	
14H-4, 59-61							X							X	
14H-5, 59-61							X							X	
14H-6, 59-61														X	
15H-2, 59-61							X	X						X	
15H-3, 59-61							X	X						X	
15H-4, 59-61														X	
15H-5, 59-61															
15H-6, 59-61									X					X	
15H-7, 57-59									X					X	
15H-CC									X					X	
16H-2, 60-62								C	X					A	
16H-3, 59-61									X						
16H-4, 59-61								X	X					X	
16H-6, 59-61								X	X						
16H-7, 59-61								X	X						
17H-1, 59-61								X	X					X	
17H-2, 59-61								X	X						
17H-3, 59-61								X	X						
17H-4, 59-61									X					X	
17H-5, 59-61									X				X	X	
17H-6, 59-61									X						
17H-7, 59-61									X						
17H-CC									X				X		
18H-1, 59-61									X						
18H-2, 59-61								X	X					X	
18H-3, 59-61				X				X	X						
18H-4, 59-61															
18H-5, 59-61															
18H-6, 59-61									X						
18H-7, 59-61									X						
19H-1, 59-61									X						
19H-2, 59-61								X	X			X			
19H-3, 59-61								X	X			X	X	R	
19H-4, 59-61						X			X						
19H-5, 59-61						X		X	X				X		
20H-2, 59-61								X					X	X	X
20H-3, 59-61															X
20H-4, 59-61								X							X
20H-5, 59-61						X		X					X	X	A
20H-CC						A		A							C

Core, section, interval (cm)	*Sphenolithus moriformis*	*Sphenolithus neoabies*	*Syracosphaera pulchra*	*Syracosphaera? fragilis*	*Triquetrorhabdulus auritus*	*Triquetrorhabdulus farnsworthii*	*Triquetrorhabdulus rugosus*	*Umbilicosphaera sibogae*	(Sub)Zones	Age
1H-CC			X						CN15/14a	Pleist.
2H-CC			R					R	CN14a	Pleist.
3H-5, 55-57			F						CN13a	Pleist.
3H-6, 55-57			X					X	CN13a	Pleist.
3H-7, 55-57			F						CN12d	late Pliocene
3H-CC			R						CN12d	late Pliocene
4H-1, 59-61			R					R	CN12d	late Pliocene
4H-2, 59-61			X						CN12d	late Pliocene
4H-3, 59-61			X						CN12c	late Pliocene
4H-4, 59-61									CN12c	late Pliocene
4H-5, 59-61			R					R	CN12c	late Pliocene
4H-6, 59-61			R						CN12c	late Pliocene
4H-7, 60-62			X						CN12b	late Pliocene
4H-CC			R						CN12a	late Pliocene
5H-1, 59-61			F						CN12a	late Pliocene
5H-2, 59-61			X						CN12a	late Pliocene
5H-3, 59-61			X						CN12a	late Pliocene
5H-4, 59-61			X						CN12a	early Pliocene
5H-5, 59-61			X						CN12a	early Pliocene
5H-6, 59-61		X	X						CN11b	early Pliocene
5H-7, 51-53		X	X						CN11b	early Pliocene
6H-1, 59-61									CN11b	early Pliocene
6H-2, 59-61									CN11b	early Pliocene
6H-3, 59-61									CN11b	early Pliocene
6H-4, 59-61		X							CN11b	early Pliocene
6H-6, 119-121		X							CN11b	early Pliocene
6H-7, 59-61		X							CN11b	early Pliocene
7H-1, 59-61		X							CN11b	early Pliocene
7H-2, 59-61		X							CN11b	early Pliocene
7H-3, 59-61		C							CN11a	early Pliocene
7H-4, 59-61		C							CN11a	early Pliocene
7H-5, 59-61		C							CN11a	early Pliocene
7H-6, 59-61		C							CN11a	early Pliocene
7H-7, 59-61		X							CN11a	early Pliocene
8H-1, 59-61		C							CN11a	early Pliocene
8H-2, 59-61		C							CN11a	early Pliocene
8H-3, 59-61		A							CN11a	early Pliocene
8H-4, 59-61		A							CN11a	early Pliocene
8H-5, 59-61		C							CN11a	early Pliocene
8H-6, 59-61		C							CN10c	early Pliocene
8H-7, 59-61		C							CN10c	early Pliocene
9H-2, 59-61		C							CN10b	early Pliocene
9H-3, 59-61		C							CN10b	early Pliocene
9H-4, 59-61		C							CN10b	early Pliocene
9H-5, 59-61		F							CN10b	early Pliocene
9H-6, 59-61		C							CN10b	early Pliocene
9H-7, 59-61		C							CN10b	early Pliocene
10H-1, 59-61		C					R		CN10a	late Miocene
10H-2, 59-61		C					R		CN10a	late Miocene
10H-3, 59-61		C					R		CN9b	late Miocene
10H-4, 59-61		C					F		CN9b	late Miocene
10H-5, 59-61		C					F		CN9b	late Miocene
10H-6, 59-61		A	X				R		CN9b	late Miocene
11H-1, 59-61		X							CN9b	late Miocene
11H-2, 59-61		X					X		CN9b	late Miocene
11H-3, 59-61		X				X	X		CN9b	late Miocene
11H-4, 59-61		X				X	X		CN9b	late Miocene
11H-5, 59-61		X				X	X		CN9b	late Miocene
11H-6, 59-61		X							CN9b	late Miocene
11H-7, 59-61		A							CN9b	late Miocene
12H-1, 59-61		X				X	X		CN9b	late Miocene
12H-2, 59-61		X							CN9b	late Miocene
12H-3, 59-61		X				X	X		CN9b	late Miocene
12H-4, 59-61		X				X	X		CN9b	late Miocene
12H-5, 59-61						X	X		CN9b	late Miocene
12H-6, 59-61		X				X	X		CN9b	late Miocene
12H-CC		X				X	X		CN9b	late Miocene
13H-1, 59-61		X					X		CN9b	late Miocene
13H-2, 59-61		X							CN9b	late Miocene
13H-4, 59-61		X					X		CN9b	late Miocene
13H-5, 59-61		X					X		CN9b	late Miocene
13H-6, 59-61		X							CN9b	late Miocene
13H-7, 59-61		X					X		CN9b	late Miocene
14H-1, 59-61		X					X		CN9b	late Miocene
14H-2, 59-61						X	X		CN9b	late Miocene
14H-3, 59-61							X		CN9b	late Miocene
14H-4, 59-61		X					X		CN9a	late Miocene
14H-5, 59-61		X					C		CN9a	late Miocene
14H-6, 59-61							X		CN9a	late Miocene
15H-2, 59-61		X							CN9a	late Miocene
15H-3, 59-61		X							CN9a	late Miocene
15H-4, 59-61		X					X		CN9a	late Miocene
15H-5, 59-61		X							CN8b	late Miocene
15H-6, 59-61		X							CN8b	late Miocene
15H-7, 57-59		X					X		CN8b	late Miocene
15H-CC		X							CN8b	late Miocene
16H-2, 60-62		A					X		CN8b	late Miocene
16H-3, 59-61							X		CN8b	late Miocene
16H-4, 59-61		X							CN7b	late Miocene
16H-6, 59-61		X					X		CN7b	late Miocene
16H-7, 59-61									CN7b	late Miocene
17H-1, 59-61							X		CN7b	late Miocene
17H-2, 59-61							X		CN7b	late Miocene
17H-3, 59-61									CN7a	late Miocene
17H-4, 59-61									CN7a	late Miocene
17H-5, 59-61							X		CN6	late Miocene
17H-6, 59-61							X		CN6	middle Miocene
17H-7, 59-61							X		CN5b	middle Miocene
17H-CC	X						X		CN5b	middle Miocene
18H-1, 59-61									CN5b	middle Miocene
18H-2, 59-61									CN5b	middle Miocene
18H-3, 59-61							X		CN5b	middle Miocene
18H-4, 59-61							X		CN5b	middle Miocene
18H-5, 59-61							X		CN5b	middle Miocene
18H-6, 59-61							X		CN5b	middle Miocene
18H-7, 59-61							X		CN5b	middle Miocene
19H-1, 59-61							X		CN5b	middle Miocene
19H-2, 59-61	X			X			X		CN5b	middle Miocene
19H-3, 59-61	X						X		CN5b	middle Miocene
19H-4, 59-61							vR		CN5a	middle Miocene
19H-5, 59-61							?		CN5a	middle Miocene
20H-2, 59-61									CN4	middle Miocene
20H-3, 59-61									CN4	middle Miocene
20H-4, 59-61					X				CN4	middle Miocene
20H-5, 59-61					R				CN4	middle Miocene
20H-CC									CN4	middle Miocene

Note: Intervening samples that are barren of calcareous nannofossils are not included (for explanation of letters denoting estimates of nannofossil abundance and preservation, see "Introdution" section of this chapter).

Table 3. Calcareous nannofossil distribution in Hole 960A cores.

Core, section, interval (cm)	Main Lithology	Abundance	Preservation	(Sub) Zones	Age
159-960A-					
1R-1, 25-26	Nannofossil/foraminifer ooze, dark gray, with pyrite	A	E	CN14a	Pleist.
1R-1, 88-89		A	E	CN14a	Pleist.
1R-CC		A	G	CN14a	Pleist.
2R-CC		A	G	CN13a	Pleist.
3R-1, 7-8		A	G	CN12c	late Pliocene
3R-1, 95-96	Nannofossil/foraminifer ooze	A	E	CN12b	late Pliocene
3R-1, 100-101		A	G	CN12a	late Pliocene
3R-CC		A	E	CN11b	early Pliocene
4R-1, 50-52		A	E	CN11b	early Pliocene
4R-1, 105-106		A	E	CN11a	early Pliocene
4R-CC		A	G	CN11a	early Pliocene
5R-1, 20-21		A	E	CN11a	early Pliocene
5R-1, 142-143		A	G	CN11a	early Pliocene
5R-CC		A	G	CN11a	early Pliocene
6R-1, 10-11		A	G	CN10c	early Pliocene
6R-1, 34-35		A	E	CN10c	early Pliocene
6R-1, 104-105		A	G	CN10c	early Pliocene
6R-CC		A	G	CN10b	early Pliocene
7R-2, 29-30		A	G	CN10a	late Miocene
7R-2, 106-108		A	P	CN10a	late Miocene
7R-3, 30-31		A	G	CN9b	late Miocene
7R-CC		A	G	CN9b	late Miocene
8R-1, 30-31	Nannofossil/foraminifer ooze to chalk, partly glauconitic	A	G	CN9b	late Miocene
8R-3, 29-30		A	G	CN9b	late Miocene
8R-CC		A	M	CN9a	late Miocene
9R-1, 3-4		A	G	CN9a	late Miocene
9R-1, 19-20		A	G	CN8b	late Miocene
9R-1, 29-30		A	G	CN8b	late Miocene
9R-1, 131-131		A	G	CN7b	late Miocene
9R-2, 10-11		A	M	CN7b	late Miocene
9R-2, 40-41		A	M	CN7b	late Miocene
9R-2, 50-51		A	M	CN7b	late Miocene
9R-2, 60-61		A	M	CN7b	late Miocene
9R-2, 90		C	M	CN6	late Miocene
9R-2, 110		A	M	CN6	middle Miocene
9R-2, 140-141		A	G	CN4	middle Miocene
9R-3, 29-30		A	G	CN4	middle Miocene
9R-3, 130		A	G	CN4	middle Miocene
9R-CC		C	M	CN4	middle Miocene
10R-1, 30-31		A	G	CN3	middle Miocene
10R-3, 31-32		A	M	CN3	early Miocene
10R-5, 32-33		A	M	CN2	early Miocene
10R-CC		C	M	CN2	early Miocene
11R-1, 47-48		A	G	CN2	early Miocene
11R-3, 57-58		A	M	CN1c	early Miocene
11R-CC		C	M	CN1b	early Miocene
12R-1, 29-30		C	P	CN1b	early Miocene
12R-1, 120-121		C	M	CN1b	early Miocene
12R-2, 29-30		C	M	CN1b	early Miocene
12R-2, 73-74		C	M	CN1b	early Miocene
12R-2, 94-95		C	M	CP19b	Olig.

Core, section, interval (cm)	*Amaurolithus delicatus*	*Amaurolithus primus*	*Amaurolithus tricorniculatus*	*Calcidiscus leptoporus*	*Calcidiscus macintyrei*	*Catinaster calyculus*	*Catinaster coalitus*	*Catinaster mexicanus*	*Ceratolithus acutus*	*Ceratolithus armatus*
1R-1, 25-26				F						
1R-1, 88-89				F						
1R-CC				R	R					
2R-CC				R	R					
3R-1, 7-8				X	F					
3R-1, 95-96				F	C					
3R-1, 100-101				C	C					
3R-CC				R	R					
4R-1, 50-52				F	F					
4R-1, 105-106				A	A					
4R-CC				R	R					
5R-1, 20-21				C	R					
5R-1, 142-143				F	F					
5R-CC				R	R					
6R-1, 10-11		X	R	R	R					
6R-1, 34-35			C	C	C					
6R-1, 104-105		X	X	X	R					
6R-CC				F	F				X	X
7R-2, 29-30				C	F					
7R-2, 106-108				F	F					
7R-3, 30-31	X			F						
7R-CC		X								
8R-1, 30-31				F	F					
8R-3, 29-30	F	R		F	F					
8R-CC				X						
9R-1, 3-4	vR			R						
9R-1, 19-20				R	R					
9R-1, 29-30				C	F					
9R-1, 131-131					X					
9R-2, 10-11					F					
9R-2, 40-41					X	R	F			
9R-2, 50-51				F	R	X	C	F		
9R-2, 60-61				R	R	X	C			
9R-2, 90				C	F		C			
9R-2, 110				R	R		C	C		
9R-2, 140-141										
9R-3, 29-30				X						
9R-3, 130				R						
9R-CC					R					
10R-1, 30-31				R						
10R-3, 31-32					X					
10R-5, 32-33										
10R-CC										
11R-1, 47-48				X						
11R-3, 57-58										
11R-CC										
12R-1, 29-30										
12R-1, 120-121										
12R-2, 29-30										
12R-2, 73-74										
12R-2, 94-95										

Core, section, interval (cm)	*Ceratolithus armatus/rugosus*	*Ceratolithus cristatus*	*Ceratolithus rugosus*	*Ceratolithus separatus*	*Ceratolithus separatus/rugosus*	*Clausicoccus* sp.aff. *C. fenestratus*	*Coccolithus eopelagicus*	*Coccolithus miopelagicus*	*Coccolithus pelagicus*	*Coccolithus pelagicus* (w/ bar)
1R-1, 25-26										
1R-1, 88-89		R								
1R-CC		R								F
2R-CC										F
3R-1, 7-8										F
3R-1, 95-96		X	X							F
3R-1, 100-101				X						
3R-CC		X								R
4R-1, 50-52		R	R							
4R-1, 105-106			C		X					
4R-CC		R								
5R-1, 20-21			F		X					C
5R-1, 142-143			F		X					F
5R-CC										
6R-1, 10-11			F							F
6R-1, 34-35	X									X
6R-1, 104-105			X		X					X
6R-CC										X
7R-2, 29-30										C
7R-2, 106-108										R
7R-3, 30-31										F
7R-CC										R
8R-1, 30-31										R
8R-3, 29-30										F
8R-CC										X
9R-1, 3-4										
9R-1, 19-20										
9R-1, 29-30										F
9R-1, 131-131									X	
9R-2, 10-11										
9R-2, 40-41										
9R-2, 50-51									F	
9R-2, 60-61									R	
9R-2, 90										
9R-2, 110									F	
9R-2, 140-141								F	R	
9R-3, 29-30								A		
9R-3, 130								F	R	
9R-CC								F	R	
10R-1, 30-31								F	F	
10R-3, 31-32								F	R	
10R-5, 32-33								F	R	
10R-CC								R	F	
11R-1, 47-48										R
11R-3, 57-58								R		F
11R-CC						R		F	F	
12R-1, 29-30						R		F	F	
12R-1, 120-121								X	F	
12R-2, 29-30								F		
12R-2, 73-74							F		R	
12R-2, 94-95									X	

Core, section, interval (cm)	*Coronocyclus nitescens* (circular)	*Cyclicargolithus abisectus*	*Cyclicargolithus floridanus*	*Discoaster asymmetricus*	*Discoaster berggrenii*	*Discoaster blackstockae*	*Discoaster bollii*	*Discoaster braarudii*	*Discoaster brouweri*	*Discoaster calcaris*
1R-1, 25-26										
1R-1, 88-89										
1R-CC										
2R-CC										
3R-1, 7-8									F	
3R-1, 95-96									F	
3R-1, 100-101				R					C	
3R-CC				C					C	
4R-1, 50-52				C					C	
4R-1, 105-106				F					C	
4R-CC				R		X			C	
5R-1, 20-21									A	
5R-1, 142-143				R					C	
5R-CC				X					C	
6R-1, 10-11				X		R			F	
6R-1, 34-35				X					A	
6R-1, 104-105										
6R-CC									F	
7R-2, 29-30									F	
7R-2, 106-108									F	
7R-3, 30-31				X					C	
7R-CC						X			C	
8R-1, 30-31									F	
8R-3, 29-30				X	R					
8R-CC				X					X	C
9R-1, 3-4									R	
9R-1, 19-20									R	C
9R-1, 29-30									F	C
9R-1, 131-131							C	X		
9R-2, 10-11							F	F		
9R-2, 40-41										X
9R-2, 50-51							F			F
9R-2, 60-61							C		R	
9R-2, 90							C		R	
9R-2, 110							C			
9R-2, 140-141	R		R					X		
9R-3, 29-30	F		R							
9R-3, 130	R		R							
9R-CC										
10R-1, 30-31	R		F							
10R-3, 31-32	R		X							
10R-5, 32-33	R		R							
10R-CC	F		F							
11R-1, 47-48	F	X	C							
11R-3, 57-58	R		F							
11R-CC	X	R	F							
12R-1, 29-30	R		C							
12R-1, 120-121	X	R	C							
12R-2, 29-30			C							
12R-2, 73-74	R	X	A							
12R-2, 94-95		R	C							

Core, section, interval (cm)	*Discoaster calculosus*	*Discoaster* sp. cf. *D. adamanteus*	*Discoaster* sp. cf. *D. bollii*	*Discoaster* sp. cf. *D. exilis*	*Discoaster* sp. cf. *D. variabilis*	*Discoaster challengeri*	*Discoaster deflandrei*	*Discoaster druggii*	*Discoaster druggii* (small)	*Discoaster exilis*
1R-1, 25-26										
1R-1, 88-89										
1R-CC										
2R-CC										
3R-1, 7-8										
3R-1, 95-96										
3R-1, 100-101										
3R-CC										
4R-1, 50-52										
4R-1, 105-106										
4R-CC										
5R-1, 20-21										
5R-1, 142-143										
5R-CC										
6R-1, 10-11										
6R-1, 34-35										
6R-1, 104-105										
6R-CC										
7R-2, 29-30										
7R-2, 106-108										
7R-3, 30-31										
7R-CC										
8R-1, 30-31										
8R-3, 29-30										
8R-CC										
9R-1, 3-4						X				
9R-1, 19-20										
9R-1, 29-30										
9R-1, 131-131										
9R-2, 10-11										
9R-2, 40-41										
9R-2, 50-51										
9R-2, 60-61										
9R-2, 90			X							
9R-2, 110						R				F
9R-2, 140-141							R			F
9R-3, 29-30							R			F
9R-3, 130					R		R			F
9R-CC					R					F
10R-1, 30-31	X				F		R			F
10R-3, 31-32	R			R	R		X			
10R-5, 32-33	F			R			F			
10R-CC				R			F		R	
11R-1, 47-48				F			R			
11R-3, 57-58	C	R		F	X			R	R	
11R-CC				F			F	?	R	
12R-1, 29-30							C		F	
12R-1, 120-121		R			X				X	
12R-2, 29-30								F	R	
12R-2, 73-74					X				R	
12R-2, 94-95					X		F			

Core, section, interval (cm)	*Discoaster hamatus*	*Discoaster icarus*	*Discoaster lidzi*	*Discoaster neohamatus*	*Discoaster neorectus*	*Discoaster nephados*	*Discoaster obtusus*	*Discoaster pentaradiatus*	*Discoaster petaliformis*	*Discoaster prepentaradiatus*
1R-1, 25-26										
1R-1, 88-89										
1R-CC										
2R-CC										
3R-1, 7-8								F		
3R-1, 95-96								A		
3R-1, 100-101								A		
3R-CC								F		
4R-1, 50-52								A		
4R-1, 105-106		X						A		
4R-CC								F		
5R-1, 20-21								C		
5R-1, 142-143								C		
5R-CC								C		
6R-1, 10-11					X			C		
6R-1, 34-35		R						C		
6R-1, 104-105								C		
6R-CC								C		
7R-2, 29-30								A		
7R-2, 106-108								A		
7R-3, 30-31								A		
7R-CC								C		
8R-1, 30-31								F		
8R-3, 29-30								R		
8R-CC				X				X		
9R-1, 3-4								R		
9R-1, 19-20				R				R		A
9R-1, 29-30					C			R		A
9R-1, 131-131	F				X					X
9R-2, 10-11	F									F
9R-2, 40-41	C									
9R-2, 50-51	C									
9R-2, 60-61	F									
9R-2, 90										
9R-2, 110										
9R-2, 140-141									C	
9R-3, 29-30									A	
9R-3, 130									F	
9R-CC									F	
10R-1, 30-31									F	
10R-3, 31-32										
10R-5, 32-33										
10R-CC						R				
11R-1, 47-48			R			F	X			
11R-3, 57-58						F				
11R-CC										
12R-1, 29-30						F				
12R-1, 120-121										
12R-2, 29-30						F	X			
12R-2, 73-74						F				
12R-2, 94-95										

Core, section, interval (cm)	*Discoaster pseudovariabilis*	*Discoaster quinqueramus*	*Discoaster quadramus*	*Discoaster sanmiguelensis*	*Discoaster saundersi*	*Discoaster signus*	*Discoaster surculus*	*Discoaster tamalis*	*Discoaster triradiatus*	*Discoaster variabilis*
1R-1, 25-26										
1R-1, 88-89										
1R-CC										
2R-CC										
3R-1, 7-8										
3R-1, 95-96							F			
3R-1, 100-101							F	R	R	X
3R-CC							R	X	X	R
4R-1, 50-52							C		R	R
4R-1, 105-106							R			
4R-CC									X	
5R-1, 20-21							F		R	
5R-1, 142-143							C		R	R
5R-CC							F		X	
6R-1, 10-11							C			
6R-1, 34-35							C		R	R
6R-1, 104-105							C			
6R-CC							F		X	X
7R-2, 29-30							C		R	F
7R-2, 106-108							C		vR	F
7R-3, 30-31		C					C		R	C
7R-CC		C					F		X	C
8R-1, 30-31		R					C			F
8R-3, 29-30		A					C			F
8R-CC		R	X						X	X
9R-1, 3-4		A					X		X	X
9R-1, 19-20										R
9R-1, 29-30							X		R	C
9R-1, 131-131							X		R	X
9R-2, 10-11			R						R	F
9R-2, 40-41										X
9R-2, 50-51									R	F
9R-2, 60-61	F						X			F
9R-2, 90	F									C
9R-2, 110				X						C
9R-2, 140-141				C		R				
9R-3, 29-30				A						R
9R-3, 130				F		R				
9R-CC				X						X
10R-1, 30-31				X						
10R-3, 31-32					F					
10R-5, 32-33										X
10R-CC					F					
11R-1, 47-48										
11R-3, 57-58					F					
11R-CC					F					
12R-1, 29-30					C					
12R-1, 120-121					C					
12R-2, 29-30					C					
12R-2, 73-74					A					
12R-2, 94-95										

Core, section, interval (cm)	*Florisphaera profunda*	*Geminilithella rotula*	*Gephyrocapsa aperta*	*Gephyrocapsa caribbeanica*	*Gephyrocapsa oceanica*	*Gephyrocapsa* spp. (small)	*Hayaster perplexus*	*Helicosphaera acuta*	*Helicosphaera ampliaperta*	*Helicosphaera burkei*
1R-1, 25-26	F		A	A	A					F
1R-1, 88-89			F	A	R			F		F
1R-CC	C		R	R	R	R				
2R-CC	R									
3R-1, 7-8										
3R-1, 95-96		C	C					C		
3R-1, 100-101		C	C					X		
3R-CC										
4R-1, 50-52	C		C			A				
4R-1, 105-106	A	R				C		C		
4R-CC	A									
5R-1, 20-21		C						X		
5R-1, 142-143		C						C		
5R-CC										
6R-1, 10-11		X						C		
6R-1, 34-35		C						C		
6R-1, 104-105		X						X		
6R-CC										
7R-2, 29-30		C					R	C		
7R-2, 106-108	C	C						C		
7R-3, 30-31	vR	C						X		
7R-CC										
8R-1, 30-31		C						C		
8R-3, 29-30		C					X			
8R-CC		C				?				
9R-1, 3-4		R								
9R-1, 19-20		C								
9R-1, 29-30		C					R	C		
9R-1, 131-131										
9R-2, 10-11										
9R-2, 40-41										
9R-2, 50-51										
9R-2, 60-61										
9R-2, 90		F								
9R-2, 110										
9R-2, 140-141		R								
9R-3, 29-30		R								
9R-3, 130		R								
9R-CC		R						F		
10R-1, 30-31							R	F	F	
10R-3, 31-32		R						F	F	
10R-5, 32-33		R						F	C	
10R-CC		R							C	
11R-1, 47-48		R							F	
11R-3, 57-58		R							R	
11R-CC										
12R-1, 29-30									R	
12R-1, 120-121									R	
12R-2, 29-30										
12R-2, 73-74										
12R-2, 94-95										

Core, section, interval (cm)	*Helicosphaera elongata*	*Helicosphaera euphratis*	*Helicosphaera granulata*	*Helicosphaera intermedia/euphratis*	*Helicosphaera inversa*	*Helicosphaera kamptneri/carteri*	*Helicosphaera neogranulata*	*Helicosphaera obliqua*	*Helicosphaera recta*	*Helicosphaera rhomba*
1R-1, 25-26					R	F	X			
1R-1, 88-89					F	F	F			
1R-CC						C				
2R-CC						C				
3R-1, 7-8										
3R-1, 95-96						X				
3R-1, 100-101						C				
3R-CC						C				
4R-1, 50-52						C				
4R-1, 105-106						C				
4R-CC						C				
5R-1, 20-21						C				
5R-1, 142-143	X					C				
5R-CC						C				
6R-1, 10-11		X				C				
6R-1, 34-35		X				R				
6R-1, 104-105						F				
6R-CC						C				
7R-2, 29-30						X				
7R-2, 106-108						C				
7R-3, 30-31						C				
7R-CC						C				
8R-1, 30-31						C				
8R-3, 29-30						C				
8R-CC						X				R
9R-1, 3-4						C				
9R-1, 19-20						C				
9R-1, 29-30		R	C							
9R-1, 131-131										
9R-2, 10-11						C				
9R-2, 40-41										
9R-2, 50-51			C							
9R-2, 60-61			C			C				
9R-2, 90			F			C				
9R-2, 110			C			F				
9R-2, 140-141			F							
9R-3, 29-30			C							
9R-3, 130			F			F				
9R-CC			C			R		R		X
10R-1, 30-31										
10R-3, 31-32		R	R	R				R		
10R-5, 32-33		R		F		C		R		
10R-CC				F		C			R	
11R-1, 47-48		F				R		R		
11R-3, 57-58				R						
11R-CC				X		R				
12R-1, 29-30		R	F	F		F				
12R-1, 120-121				R		R				
12R-2, 29-30			F			R		R		
12R-2, 73-74										
12R-2, 94-95										

Core, section, interval (cm)	*Helicosphaera sellii*	*Helicosphaera truempyi*	*Helicosphaera wallichi*	*Micrantholithus* sp.	*Minylitha convallis*	*Orthorhabdus serratus*	*Pontosphaera indooceanica*	*Pontosphaera japonica*	*Pontosphaera multipora*	*Pontosphaera plana*
1R-1, 25-26			X	X						
1R-1, 88-89										
1R-CC	F							R		
2R-CC	C							R		
3R-1, 7-8	X							R		
3R-1, 95-96	C							R		
3R-1, 100-101	C							X		
3R-CC	R							R	R	
4R-1, 50-52	C							R		
4R-1, 105-106	R								R	
4R-CC								X	R	
5R-1, 20-21			X					R	R	
5R-1, 142-143								R	R	
5R-CC										
6R-1, 10-11								X	R	
6R-1, 34-35									F	
6R-1, 104-105										X
6R-CC								X	X	
7R-2, 29-30									F	
7R-2, 106-108										
7R-3, 30-31									R	
7R-CC							X			
8R-1, 30-31										
8R-3, 29-30										
8R-CC					C					
9R-1, 3-4										
9R-1, 19-20					A					
9R-1, 29-30					C					
9R-1, 131-131										
9R-2, 10-11										
9R-2, 40-41										
9R-2, 50-51										
9R-2, 60-61										
9R-2, 90										
9R-2, 110										
9R-2, 140-141										
9R-3, 29-30									R	
9R-3, 130						?			R	
9R-CC									R	
10R-1, 30-31						R			F	
10R-3, 31-32						F			R	
10R-5, 32-33						F			X	
10R-CC						F			R	
11R-1, 47-48						F			X	X
11R-3, 57-58						F			R	
11R-CC						?			X	
12R-1, 29-30										
12R-1, 120-121										
12R-2, 29-30										
12R-2, 73-74										
12R-2, 94-95		X								

Core, section, interval (cm)	*Pseudoemiliania lacunosa*	*Pseudoemiliania lacunosa* (small)	*Reticulofenestra haqii*	*Reticulofenestra lockeri*	*Reticulofenestra minuta*	*Reticulofenestra minutula*	*Reticulofenestra pseudoumbilicus*	*Rhabdosphaera clavigera*	*Scapholithus fossilis*	*Scyphosphaera pulcherrima*
1R-1, 25-26	R							X		
1R-1, 88-89	R							R	R	
1R-CC	C							X	X	R
2R-CC	C							X		R
3R-1, 7-8										
3R-1, 95-96	F	A			A	C			R	
3R-1, 100-101	C	C			A	A			X	
3R-CC	C					R		R	X	R
4R-1, 50-52	R	C				C				
4R-1, 105-106		F			A	C	F			
4R-CC		C					F	R		
5R-1, 20-21					A		C	X	X	
5R-1, 142-143					A	A	C	X	X	
5R-CC					X		C	X		
6R-1, 10-11					A	F	A			
6R-1, 34-35					A	A	A	R		
6R-1, 104-105			F			F	F	X		
6R-CC							C	X		
7R-2, 29-30					A	A	A	R		
7R-2, 106-108					A	F	F	R	R	
7R-3, 30-31					A	A	C	R	R	
7R-CC							C			
8R-1, 30-31					A	A	A	X		
8R-3, 29-30					A	A	A	R		
8R-CC					A	R	F			
9R-1, 3-4					C	A	F			
9R-1, 19-20						R	R			
9R-1, 29-30							A	R		
9R-1, 131-131							C			
9R-2, 10-11							C			
9R-2, 40-41										
9R-2, 50-51						C	A			
9R-2, 60-61							A			
9R-2, 90							A			
9R-2, 110				R			A			
9R-2, 140-141						F				
9R-3, 29-30					A	R				
9R-3, 130					C	C				
9R-CC					C	C	X			
10R-1, 30-31										
10R-3, 31-32				F			F			
10R-5, 32-33				F	F					
10R-CC				F		C				
11R-1, 47-48				C						
11R-3, 57-58				C	F	F				
11R-CC				R						
12R-1, 29-30			X	F		C				
12R-1, 120-121				F		F				
12R-2, 29-30						X				
12R-2, 73-74				C						
12R-2, 94-95										

Core, section, interval (cm)	*Solidopons petrae*	*Sphenolithus abies*	*Sphenolithus belemnos*	*Sphenolithus ciperoensis*	*Sphenolithus dissimilis*	*Sphenolithus heteromorphus*	*Sphenolithus moriformis*	*Sphenolithus neoabies*	*Syracosphaera pulchra*	*Triquetrorhabdulus auritus*
1R-1, 25-26									F	
1R-1, 88-89									R	
1R-CC										
2R-CC										
3R-1, 7-8										
3R-1, 95-96										
3R-1, 100-101										
3R-CC		C						C		
4R-1, 50-52		A						A		
4R-1, 105-106		C						C		
4R-CC		A						A		
5R-1, 20-21		A						A		
5R-1, 142-143		A						A		
5R-CC		C						C		
6R-1, 10-11		C					C	F		
6R-1, 34-35		A						A		
6R-1, 104-105		X						X		
6R-CC		C						C		
7R-2, 29-30		A						A		
7R-2, 106-108		A						A		
7R-3, 30-31		A						A		
7R-CC		C						C		
8R-1, 30-31		A						A		
8R-3, 29-30		A						A		
8R-CC		A						A		
9R-1, 3-4		A						A		
9R-1, 19-20		C						C		
9R-1, 29-30		C						C		
9R-1, 131-131										
9R-2, 10-11										
9R-2, 40-41										
9R-2, 50-51										
9R-2, 60-61		C								
9R-2, 90		A								
9R-2, 110		C				R				
9R-2, 140-141						F				
9R-3, 29-30		R				C				
9R-3, 130		F				F				
9R-CC		R				C	R			
10R-1, 30-31						C	F			
10R-3, 31-32						C	F			
10R-5, 32-33	R				X	F	X			
10R-CC			C				R			
11R-1, 47-48			F							R
11R-3, 57-58							R			F
11R-CC							R			R
12R-1, 29-30							R			
12R-1, 120-121							R			
12R-2, 29-30							R			
12R-2, 73-74										
12R-2, 94-95				X	X		F			F

Core, section, interval (cm)	*Triquetrorhabdulus carinatus*	*Triquetrorhabdulus farnsworthii*	*Triquetrorhabdulus milowii*	*Triquetrorhabdulus milowii/auritus*	*Triquetrorhabdulus rugosus*	*Umbilicosphaera sibogae*
1R-1, 25-26						F
1R-1, 88-89						F
1R-CC						R
2R-CC						X
3R-1, 7-8						
3R-1, 95-96						
3R-1, 100-101						
3R-CC						
4R-1, 50-52						
4R-1, 105-106						
4R-CC						
5R-1, 20-21						
5R-1, 142-143						
5R-CC						
6R-1, 10-11						
6R-1, 34-35		X			R	
6R-1, 104-105						
6R-CC						
7R-2, 29-30		R			X	
7R-2, 106-108						
7R-3, 30-31					R	
7R-CC					X	
8R-1, 30-31					F	
8R-3, 29-30					R	
8R-CC					X	
9R-1, 3-4					R	
9R-1, 19-20					R	
9R-1, 29-30					R	
9R-1, 131-131					X	
9R-2, 10-11						
9R-2, 40-41						
9R-2, 50-51					R	
9R-2, 60-61					R	
9R-2, 90		F			X	
9R-2, 110	R	F			X	
9R-2, 140-141			R			
9R-3, 29-30			R			
9R-3, 130						
9R-CC			R			
10R-1, 30-31			R			
10R-3, 31-32						
10R-5, 32-33			R			
10R-CC	R					
11R-1, 47-48	X		X			
11R-3, 57-58	F		R			
11R-CC	F		R			
12R-1, 29-30	C			R		
12R-1, 120-121	F					
12R-2, 29-30	F					
12R-2, 73-74	C		R			
12R-2, 94-95	F		F			

Note: Intervening samples that are barren of calcareous nannofossils are not included (for explanation of letters denoting estimates of nannofossil abundance and preservation, see "Introduction" section of this chapter).

Table 4. Calcareous nannofossil distribution in Hole 960C cores.

Core, section, interval (cm)	Main Lithology	Abundance	Preservation	*Amaurolithus bizzarus*	*Amaurolithus delicatus*	*Amaurolithus primus*	*Amaurolithus tricorniculatus*	*Calcidiscus leptoporus*	*Calcidiscus macintyrei*	*Catinaster calyculus*	*Catinaster coalitus*	*Catinaster mexicanus*	*Ceratolithus acutus*	*Ceratolithus armatus*	*Ceratolithus armatus/rugosus*	*Ceratolithus cristatus*	*Ceratolithus rugosus*	*Ceratolithus separatus*	*Ceratolithus simplex*	*Coccolithus eopelagicus*	*Coccolithus miopelagicus*	*Coccolithus pelagicus*	*Coccolithus pelagicus* (w/ bar)
159-961C-																							
1H-1, 17-19	Nannofossil/foraminifer ooze, dark gray, with pyrite	A	E					X															
1H-2, 18-20		A	E					X															
1H-3, 30-31		A	E					X															
1H-5, 29-30		A	G					X											X				
1H-CC		A	E													X							
2H-1, 10-11		A	G					X															
2H-3, 10-11		C	M					X											X				
2H-5, 10-11		C	G					X											X				X
2H-6, 35-37		C	G					X	X									X	X				X
2H-CC		C	M																				X
3H-1, 3-4		A	G					X	X														X
3H-3, 13-14		A	G					X	X														X
3H-3, 130-140		C	M					X	X							X							X
3H-5, 13-14	Nannofossil/foraminifer ooze to chalk, partly glauconitic	A	M					X	X														
3H-CC		C	M					X	F							X		X					F
4H-1, 129-130		A	M					X	X													X	
4H-3, 130-131		A	G															X	X			X	
4H-5, 130-131		A	M					R	C													F	F
4H-CC		A	G					X	X								X						
5H-1, 130-131		A	G					X	C								X						
5H-3, 129-130		A	G					C	C														R
5H-5, 130-131		A	G					R	R								R						
5H-CC		A	G					R	R								R						X
6H-1, 130-131		A	G					X	X					X								X	
6H-3, 130-131		A	G					X	X													X	
6H-5, 130-131		A	M					X									X					X	
6H-CC		A	M					X	R													R	
7H-1, 130-131		A	G					X	X						X		X						X
7H-3, 130-131		A	G					X	X														X
7H-5, 130-131		A	G	X				X						X								X	
7H-CC		A	G					X					R	R									X
8H-1, 130-131		A	G					X	X													X	
8H-3, 130-131		A	G					X	X													X	X
8H-4, 34-46		A	G					R	R														R
8H-5, 34-36		A	M				vR	R	R														
8H-5, 130-131		A	G					R	X														
8H-CC		A	G		X																X		
9H-1, 34-36		A	G		X	X																	
9H-2, 34-36		A	M				R	C	X											R		X	
9H-3, 129-130		A	M					C	C														X
9H-5, 129-130		A	M					C	C														X
9H-6, 34-36		A	M	R				F	F											X			
9H-7, 34-36		A	M					R	R														X
9H-CC		A	M					R	C													X	
10H-2, 34-36		A	M					C	C														X
10H-3, 34-36		A	M					R												X			X
10H-4, 34-36		A	M					F	F	R													
10H-5, 34-36		A	M					F	F	R	C	X											X
10H-6, 34-36		C	M					F	F		F	R								F			
10H-7, 34-36		A	M																		C		
10H-CC		A	M																		C	X	
11H-1, 140-141		A	M																		C		
11H-3, 130-131		A	M																		C		X
11H-4, 34-36	Glauconitic radiolarian nannofossil/micrite chalk, claystone and porcellanite	A	M					?												X	C		
11H-5, 140-141		A	M																		R	R	R
11H-CC		A	M																		C	R	
12H-1, 131-132		A	M																		F		
12H-3, 130-131		A	M																		F		F
12H-5, 130-131		A	M					R													C		
12H-6, 34-36		A	M					?													F		
12H-7, 34-36		A	M																	R	F	R	
12H-CC		A	M																	F	F	F	
13H-1, 130-131		A	M					?												R	F		
13H-3,129-130		A	M																				X
13H-4, 34-36		A	M																	F	F		
13H-5, 130-131		A	M																	X			X
13H-6, 83-84		A	M																	R		F	X
13H-7, 34-36		C	P																	F			
14H-2, 34-36		F	P																				
14H-3, 34-36		A	M																	F			

Core, section, interval (cm)	*Coronocyclus nitescens* (circular)	*Cyclicargolithus abisectus*	*Cyclicargolithus floridanus*	*Discoaster asymmetricus*	*Discoaster berggrenii*	*Discoaster blackstockae*	*Discoaster bollii*	*Discoaster brouweri*	*Discoaster calcaris*	*Discoaster calculosus*	*Discoaster* sp. cf. *D. bollii*	*Discoaster* sp. cf. *D. exilis*	*Discoaster* sp. cf. *D. surculus*	*Discoaster* sp. cf. *D. variabilis*	*Discoaster challengeri*	*Discoaster decorus*	*Discoaster deflandrei*	*Discoaster druggii*	*Discoaster druggii* (small)	*Discoaster exilis*	*Discoaster hamatus*	*Discoaster intercalaris*	*Discoaster lidzi*	*Discoaster loeblichii*	*Discoaster moorei*
1H-1, 17-19																									
1H-2, 18-20																									
1H-3, 30-31																	X								
1H-5, 29-30																									
1H-CC																									
2H-1, 10-11																									
2H-3, 10-11																									
2H-5, 10-11																									
2H-6, 35-37																									
2H-CC								X																	
3H-1, 3-4								X																	
3H-3, 13-14								X																	
3H-3, 130-140								X																	
3H-5, 13-14								X																	
3H-CC				X				X																	
4H-1, 129-130								X																	
4H-3, 130-131								X																	
4H-5, 130-131				R				C								C									
4H-CC				F		F		C																	
5H-1, 130-131				F				X																	
5H-3, 129-130				F				F																	
5H-5, 130-131								C																	
5H-CC								X																	
6H-1, 130-131																									
6H-3, 130-131								X																	
6H-5, 130-131								X																	
6H-CC																									
7H-1, 130-131				R				C																	
7H-3, 130-131				X				C																	
7H-5, 130-131				R				X																	
7H-CC				X				X																	
8H-1, 130-131				X				X																	
8H-3, 130-131						X		X																	
8H-4, 34-46								C								?									
8H-5, 34-36								C																	
8H-5, 130-131				vR				C																	
8H-CC				X				C							X										
9H-1, 34-36					R																				
9H-2, 34-36																									
9H-3, 129-130				X	X			X																	
9H-5, 129-130				X				X							X										
9H-6, 34-36				T				C																	
9H-7, 34-36				R				X	C						X									X	
9H-CC				R				C	A				X		X										
10H-2, 34-36								C	A															X	
10H-3, 34-36								F	A				C								T				
10H-4, 34-36				?			C	F	R												C				
10H-5, 34-36							C	F	R												R				
10H-6, 34-36								X			X									C					X
10H-7, 34-36	F		C																	X					
10H-CC	C		C																	X					
11H-1, 140-141	X		X																	X					
11H-3, 130-131	R		X																	X					
11H-4, 34-36	R		R														R			X					
11H-5, 140-141	R		R														R			R					
11H-CC	R		C									X													
12H-1, 131-132	R		F																	R					
12H-3, 130-131	R		F							X															
12H-5, 130-131	R		F														X								
12H-6, 34-36	F		R											X			R			X					
12H-7, 34-36	C		F														F						F		
12H-CC	F		C														F	F					F		
13H-1, 130-131	C		C							R							F	F					F		
13H-3,129-130	F		C														F	X							
13H-4, 34-36	F		C																						
13H-5, 130-131	F	X	F							X							X		X						
13H-6, 83-84	C		F							X							C		F						
13H-7, 34-36	F		C																F				C		
14H-2, 34-36		R	C														R		R						
14H-3, 34-36	R	C	C																F						

Core, section, interval (cm)	*Discoaster neohamatus*	*Discoaster neorectus*	*Discoaster nephados*	*Discoaster obtusus*	*Discoaster pansus*	*Discoaster pentaradiatus*	*Discoaster petaliformis*	*Discoaster quinqueramus*	*Discoaster quadramus*	*Discoaster sanmiguelensis*	*Discoaster saundersi*	*Discoaster signus*	*Discoaster subsurculus*	*Discoaster surculus*	*Discoaster tamalis*	*Discoaster toralis*	*Discoaster triradiatus*	*Discoaster variabilis*	*Emiliania huxleyi*	*Florisphaera profunda*	*Geminilithella rotula*	*Gephyrocapsa aperta*	*Gephyrocapsa caribbeanica*	*Gephyrocapsa oceanica*	*Gephyrocapsa* spp. (small)
1H-1, 17-19																			X	X			X	X	
1H-2, 18-20																			X	X			X	X	
1H-3, 30-31																				X			X	X	X
1H-5, 29-30																				X				X	
1H-CC																						X	C	F	
2H-1, 10-11																				X			X	X	
2H-3, 10-11																				X		X			X
2H-5, 10-11																				X			X		X
2H-6, 35-37																				X					
2H-CC																									
3H-1, 3-4																				X					
3H-3, 13-14																									
3H-3, 130-140						X								X						X	X				
3H-5, 13-14														X			X			X					
3H-CC						X								R			X								
4H-1, 129-130						X									X					X	X				
4H-3, 130-131						X								X	X					X	X				
4H-5, 130-131						C								X						F	F				C
4H-CC						X								R	F		X			X		R			C
5H-1, 130-131						C								F	X			X		X	X	C			C
5H-3, 129-130						C								R			R	X		C	C	C			C
5H-5, 130-131						C								R			R	R		C	C				C
5H-CC						X								X						R	C				?
6H-1, 130-131						X								X						X	X				
6H-3, 130-131						X								X				X		X	X				
6H-5, 130-131						X								X				X		X	X				
6H-CC						C								R											
7H-1, 130-131		X				C											R			X	X				
7H-3, 130-131		X				C								C			X			X	X				
7H-5, 130-131						X		X						X			X	X		X	X				
7H-CC						X											X								
8H-1, 130-131						A											X			X	X				
8H-3, 130-131						A								X				R							
8H-4, 34-46						A		vR						C						C	F				
8H-5, 34-36						C		C						C			R			C	R				
8H-5, 130-131						C		C						X				X		C	R				
8H-CC					X	C		C						R			R	R							
9H-1, 34-36		X				C		C	R					F			R	F							
9H-2, 34-36						C		X						X				X		A	X				
9H-3, 129-130						C		X						X				X		C	X				
9H-5, 129-130						C		X						X	X		X	X		A	C				
9H-6, 34-36						C		F						R				F		C	F				
9H-7, 34-36	C	F				X							X	X				X			X				
9H-CC	R	X				C								R			X	X		C	R				?
10H-2, 34-36	R	X				R			X									C		C	C				
10H-3, 34-36	C	R			X	F			X					R		X	F				F				
10H-4, 34-36	R	?			X												R	C		?	F				
10H-5, 34-36	R				X					X		F						C		?	F				
10H-6, 34-36										R								F			F				
10H-7, 34-36							A			F											F				
10H-CC							C			F											C				
11H-1, 140-141							C			X								X			X				
11H-3, 130-131							C			F											X				
11H-4, 34-36							C			A											R				
11H-5, 140-141							C			R								R			F				
11H-CC							C														R				
12H-1, 131-132							C			X											R				
12H-3, 130-131							F			R											R				
12H-5, 130-131																					R				
12H-6, 34-36																					R				
12H-7, 34-36																					R				
12H-CC																									
13H-1, 130-131																					R				
13H-3,129-130			F	F																	R				
13H-4, 34-36											X										R				
13H-5, 130-131																					R				
13H-6, 83-84			X	X																	R				
13H-7, 34-36											F														
14H-2, 34-36											R														
14H-3, 34-36											C														

Core, section, interval (cm)	*Hayaster perplexus*	*Helicosphaera ampliaperta*	*Helicosphaera euphratis*	*Helicosphaera granulata*	*Helicosphaera intermedia/euphratis*	*Helicosphaera kamptneri/carteri*	*Helicosphaera mediterranea*	*Helicosphaera obliqua*	*Helicosphaera recta*	*Helicosphaera rhomba*	*Helicosphaera sellii*	*Helicosphaera stalis*	*Helicosphaera truempyi*	*Minylitha convallis*	*Orthorhabdus serratus*	*Pontosphaera japonica*	*Pontosphaera multipora*	*Pontosphaera plana*	*Pseudoemiliania lacunosa*	*Pseudoemiliania lacunosa* (small)	*Reticulofenestra haqii*	*Reticulofenestra lockeri*	*Reticulofenestra minuta*	*Reticulofenestra minutula*	*Reticulofenestra pseudoumbilicus*
1H-1, 17-19																									
1H-2, 18-20						X																			
1H-3, 30-31						X																			
1H-5, 29-30						X					R							X	X						
1H-CC						X													X						
2H-1, 10-11						X										X			X						
2H-3, 10-11						X										X			X						
2H-5, 10-11						X										X			X						
2H-6, 35-37						X					X					X			C						
2H-CC						X					X					X			X						
3H-1, 3-4						X					X					X			X						
3H-3, 13-14						X					X					X			X				X	X	
3H-3, 130-140						X					X					X			X					X	
3H-5, 13-14						X					X					X			X		X			X	
3H-CC						X					X					X			X				C	C	
4H-1, 129-130						X					X					X			X				X		
4H-3, 130-131						X	X												C				X	X	
4H-5, 130-131						C					C					X			X				A	F	
4H-CC						X					X						X		F					X	
5H-1, 130-131						X													F	X				X	C
5H-3, 129-130						C										R	R		C	A				C	C
5H-5, 130-131	R					C					C						R			X			X	C	X
5H-CC						X					C					T	R			A			A	R	C
6H-1, 130-131						X																	X		X
6H-3, 130-131						X											X						X	X	X
6H-5, 130-131						X											X						X	X	X
6H-CC						C					R						R								R
7H-1, 130-131						X										X	X						C	C	X
7H-3, 130-131	X					X											X						X	X	X
7H-5, 130-131																X					X		X		
7H-CC						X											X								X
8H-1, 130-131						X																	X	X	X
8H-3, 130-131						X																	X	X	X
8H-4, 34-46						C												vR					R	C	R
8H-5, 34-36						C																	A	A	R
8H-5, 130-131						C																	A	A	R
8H-CC						C																			X
9H-1, 34-36						C																			C
9H-2, 34-36						C															X		A	A	C
9H-3, 129-130						C																	A	C	C
9H-5, 129-130						C				X							X						A	R	
9H-6, 34-36						A															C		A	C	
9H-7, 34-36						X								F									A	F	T
9H-CC						C								C			T								
10H-2, 34-36						C				X		R		C			T							F	R
10H-3, 34-36						X						X		F			R							X	C
10H-4, 34-36						F									?								C	R	C
10H-5, 34-36						F											R				C				C
10H-6, 34-36				C		F																			C
10H-7, 34-36				C		F									T		T							C	F
10H-CC				C		F											R				C			C	
11H-1, 140-141				C		F											R						X	C	
11H-3, 130-131				C		F		X									R						X	C	
11H-4, 34-36				C		F											R						C	C	R
11H-5, 140-141		X		C		F		R									R						C	C	
11H-CC	R	F		C	X	F		F									R					R			
12H-1, 131-132	F	X		C		F		F									R						X		
12H-3, 130-131	R	C				F		R		X							R								
12H-5, 130-131	R	C			F	C		F		X							F				F			F	
12H-6, 34-36		C			C	F		R		X							F								
12H-7, 34-36		F			F	F				F					F		R					F		F	
12H-CC		R	F		F	F		R	R						F		R					F			
13H-1, 130-131		F				R		R		X					F						X			F	
13H-3,129-130		F				F		R		X					F							F		C	
13H-4, 34-36		F		R	R	R									C									C	
13H-5, 130-131		F						R							F							F		A	
13H-6, 83-84		R			F			R		X					F							C		A	
13H-7, 34-36			R		R			T							C		R					R		A	
14H-2, 34-36																						R			
14H-3, 34-36			R					C									R					C			

Core, section, interval (cm)	*Reticulofenestra rotalia*	*Rhabdosphaera clavigera*	*Scapholithus fossilis*	*Solidopons petrae*	*Sphenolithus abies*	*Sphenolithus belemnos*	*Sphenolithus ciperoensis*	*Sphenolithus conicus*	*Sphenolithus dissimilis*	*Sphenolithus heteromorphus*	*Sphenolithus moriformis*	*Sphenolithus neoabies*	*Syracosphaera pulchra*	*Triquetrorhabdulus auritus*	*Triquetrorhabdulus carinatus*	*Triquetrorhabdulus farnsworthii*	*Triquetrorhabdulus milowii*	*Triquetrorhabdulus milowii/auritus*	*Triquetrorhabdulus rugosus*	*Umbilicosphaera irregularis*	*Umbilicosphaera sibogae*	(Sub) Zones	Age
1H-1, 17-19																				X		CN14b/CN15	Pleistocene
1H-2, 18-20			X																		X		
1H-3, 30-31													X										
1H-5, 29-30		X											X								X	CN14a	
1H-CC																							
2H-1, 10-11		X											X								X		
2H-3, 10-11		X											X								X	CN13b	
2H-5, 10-11		X																			X		
2H-6, 35-37		X											X								X	CN13a	
2H-CC																						CN12d	late Pliocene
3H-1, 3-4													X								X		
3H-3, 13-14		X																			X	CN12c	
3H-3, 130-140													X									CN12b	
3H-5, 13-14		X											X										
3H-CC																							
4H-1, 129-130		X											X									CN12a	
4H-3, 130-131																							
4H-5, 130-131					R							R										CN11b	early Pliocene
4H-CC					C							C											
5H-1, 130-131					C							C											
5H-3, 129-130			X		C							C											
5H-5, 130-131		R			C							C										CN10c/CN11a	
5H-CC					A							A											
6H-1, 130-131		X			X							X											
6H-3, 130-131					X							X											
6H-5, 130-131		X	X									X											
6H-CC					C							C											
7H-1, 130-131			R		X							X											
7H-3, 130-131			X		X							X										CN10b	
7H-5, 130-131		X			X							X	X										
7H-CC		X			X							X											
8H-1, 130-131					X																	CN10a	late Miocene
8H-3, 130-131					X							X				X							
8H-4, 34-46		vR			A							A										CN9b	
8H-5, 34-36					A							A				R			vR				
8H-5, 130-131					A							A											
8H-CC					A							A							X				
9H-1, 34-36					C							C							F				
9H-2, 34-36					X							X							X				
9H-3, 129-130					X							X							X				
9H-5, 129-130		R			X						X	X											
9H-6, 34-36		R			A							A							R				
9H-7, 34-36		R			A							C							X			CN8b	
9H-CC					X							C							R				
10H-2, 34-36					X							C							R				
10H-3, 34-36					A							C							F				
10H-4, 34-36			R		F						X								F			CN7b	
10H-5, 34-36					F						X								R				
10H-6, 34-36					F							F							C			CN6	
10H-7, 34-36										A												CN4	middle Miocene
10H-CC										C	X				X		R						
11H-1, 140-141				X						A	X												
11H-3, 130-131										C	X												
11H-4, 34-36										A				X									
11H-5, 140-141										A	R							R				CN3	
11H-CC				R						C													
12H-1, 131-132				R						C	R						X						early Miocene
12H-3, 130-131				F						C													
12H-5, 130-131				R						A	R			X									
12H-6, 34-36				R						A				X									
12H-7, 34-36						F									R							CN2	
12H-CC						F									R								
13H-1, 130-131						C			F		F				R								
13H-3,129-130						F			R						R								
13H-4, 34-36						F			R						F								
13H-5, 130-131									F		F				R							CN1c	
13H-6, 83-84									R		R			R	R								
13H-7, 34-36									R						T								
14H-2, 34-36																						CN1b	
14H-3, 34-36							R	F							F							CP19b	Oligocene

Note: Intervening samples that are barren of calcareous nannofossils are not included (for explanation of letters denoting estimates of nannofossil abundance and preservation, see "Introduction" section of this chapter).

Table 5. Calcareous nannofossil distribution in Hole 961A cores.

Core, section, interval (cm)	Main lithology	Abundance	Preservation	*Amaurolithus amplificus*	*Amaurolithus delicatus*	*Amaurolithus primus*	*Amaurolthus tricorniculatus*	*Calcidiscus leptoporus*	*Calcidiscus macintyrei*	*Catinaster calyculus*	*Catinaster coalitus*	*Catinaster mexicanus*	*Ceratolithus acutus*	*Ceratolithus cristatus*	*Ceratolithus rugosus*	*Ceratolithus separatus*	*Coccolithus eopelagicus*	*Coccolithus miopelagicus*	*Coccolithus pelagicus*	*Coronocyclus nitescens*	*Cyclicargolithus abisectus*	*Cyclicargolithus floridanus*
159-961A-																						
1R-1, 3-5	Nannofossil ooze and foraminifer nannofossil ooze with micrite	A	G					X						X								
1R-CC		A	G					F	F										F			
2R-CC		A	G					R	F					R								
3R-1, 34-35		A	G					X	X						X	X			X			
3R-2, 34-35		A	G					R	X					R		R			X			
3R-3, 34-35		A	G					X	X					X					X			
3R-CC		A	G					F	F					R	X				R			
4R-1, 89-91		A	M		X			X	X						X				F			
4R-1, 117-118		A	M					X	X				X									
4R-CC		A	G						F				X		X				F			
5R-1, 64-66		A	M		X			X														
5R-2, 8-10		A	G	X	X	X	X															
5R-CC	Nannofossil ooze/chalk with foraminifers and glauconitic nannofossil claystone with micrite	A	M		X			X											X			
6R-CC		A	M			vR		X	X										X			
7R-CC		A	G					X	X									X	X			
8R-1, 90-92		A	G					X														
8R-CC		A	G						X										R			
9R-1, 100-102		A	M					X	F	R							R					
9R-2, 100-102		A	G					X	X	X	F	X					R					
9R-CC		C	M					X	X		X	X					X					
11R-CC		F	P														R	R	X	F		C
12R-1, 39-40		A	M															X		X		X
12R-CC		C	M															X				X
14R-CC		C	M															X		X		X
15R-1, 36-37		A	M														X			X		X
15R-CC	**	C	G															X	X	C	X	X

Core, section, interval (cm)	*Discoaster adamanteus*	*Discoaster asymmetricus*	*Discoaster berggrenii*	*Discoaster blackstockae*	*Discoaster bollii*	*Discoaster brouweri*	*Discoaster calcaris*	*Discoaster cf. exilis*	*Discoaster cf. variabilis*	*Discoaster challengeri*	*Discoaster decorus*	*Discoaster deflandrei*	*Discoaster druggii* (small)	*Discoaster exilis*	*Discoaster hamatus*	*Discoaster lidzi*
1R-1, 3-5																
1R-CC																
2R-CC						C										
3R-1, 34-35		R				C					R					
3R-2, 34-35		F				F				R						
3R-3, 34-35		F		X		X	X			X						
3R-CC		F				A										
4R-1, 89-91						X				X						
4R-1, 117-118						X										
4R-CC		X				A				R	X					
5R-1, 64-66						X										
5R-2, 8-10			X							X						
5R-CC			X			F		X								
6R-CC		X	X			X				X						
7R-CC			C			X	X			X						
8R-1, 90-92						R	F			X						
8R-CC		X				X	X									
9R-1, 100-102					C										F	
9R-2, 100-102					F	X	X								F	
9R-CC					X	X	X	X						X	X	
11R-CC														X		
12R-1, 39-40					X			X	X							
12R-CC																
14R-CC												X				
15R-1, 36-37									X			X	X			
15R-CC	R											C	F			X

Core, section, interval (cm)	*Discoaster moorei*	*Discoaster neohamatus*	*Discoaster neorectus*	*Discoaster pansus*	*Discoaster pentaradiatus*	*Discoaster petaliformis*	*Discoaster prepentaradiatus*	*Discoaster quinqueramus*	*Discoaster sanmiguelensis*	*Discoaster saundersi*	*Discoaster signus*	*Discoaster surculus*	*Discoaster tamalis*	*Discoaster triradiatus*	*Discoaster variabilis*
1R-1, 3-5															
1R-CC															
2R-CC					F								X		
3R-1, 34-35					C							X	R	R	R
3R-2, 34-35				X	F							R	F	X	X
3R-3, 34-35					C							R			X
3R-CC					C							C	R	R	R
4R-1, 89-91	X				X			X				X		X	X
4R-1, 117-118												X			X
4R-CC					A		X				X	C		R	F
5R-1, 64-66					X			C				X		X	X
5R-2, 8-10			X					A				X			X
5R-CC			X		C			A				F		X	
6R-CC			X	X	X			X						X	X
7R-CC		X	X	X	X			X						X	X
8R-1, 90-92		F			R		C							X	F
8R-CC		X	X		R		C							X	X
9R-1, 100-102									C		R				F
9R-2, 100-102		X							X						R
9R-CC	R														X
11R-CC									X						
12R-1, 39-40						X			X						
12R-CC															
14R-CC															
15R-1, 36-37										X					
15R-CC										X					

Core, section, interval (cm)	*Florisphaera profunda*	*Geminilithella rotula*	*Gephyrocapsa aperta*	*Gephyrocapsa caribbeanica*	*Gephyrocapsa oceanica*	*Helicosphaera acuta*	*Helicosphaera ampliaperta*	*Helicosphaera euphratis*	*Helicosphaera granulata*	*Helicosphaera kamptneri/carteri*	*Helicosphaera mediterranea*	*Helicosphaera obliqua*	*Helicosphaera rhomba*	*Helicosphaera scissura*	*Helicosphaera sellii*
1R-1, 3-5	X			X	X					X					
1R-CC	C									C					F
2R-CC	C									F					F
3R-1, 34-35	X	X								X					X
3R-2, 34-35	X	F	X							F					F
3R-3, 34-35	X	X	X												
3R-CC	C	X	X							C					
4R-1, 89-91	X	X								X					X
4R-1, 117-118		X								F					
4R-CC		X								C					
5R-1, 64-66		X								X					
5R-2, 8-10										X					
5R-CC	C	X							X	C			X		
6R-CC	C	X							X	X					
7R-CC															
8R-1, 90-92		F							X	C					
8R-CC		X							X	X					
9R-1, 100-102		C								X			X		
9R-2, 100-102									C	X					
9R-CC										X					
11R-CC										X					
12R-1, 39-40						X	X		X	X	X		X	X	
12R-CC							C		X	X					
14R-CC							F								
15R-1, 36-37		X				X	X					X	X	X	
15R-CC		X					F	X	R	X	R	F	F		

Core, section, interval (cm)	*Minylitha convallis*	*Orthorhabdus serratus*	*Pontosphaera indooceanica*	*Pontosphaera japonica*	*Pontosphaera multipora*	*Pseudoemiliania lacunosa*	*Reticulofenestra gartneri*	*Reticulofenestra haqii*	*Reticulofenestra lockeri*	*Reticulofenestra minuta*	*Reticulofenestra minutula*	*Reticulofenestra pseudoumbilicus*	*Rhabdosphaera clavigera*	*Scapholithus fossilis*	*Sphenolithus abies*
1R-1, 3-5														X	
1R-CC				R		C					X		X		
2R-CC				X		R				C	C				
3R-1, 34-35						C				X	X				
3R-2, 34-35						C								R	X
3R-3, 34-35			X			X					C	R	X		C
3R-CC			R			C					C	F			A
4R-1, 89-91				X								X			X
4R-1, 117-118										C		X			X
4R-CC			R									C			A
5R-1, 64-66										X	X	C			A
5R-2, 8-10												X			X
5R-CC										X		C			X
6R-CC				X						X	X	X			X
7R-CC	R											X			X
8R-1, 90-92	F											C			F
8R-CC	X										X	X			X
9R-1, 100-102			F									C	X		X
9R-2, 100-102										X		A			X
9R-CC												X			X
11R-CC										X		X			
12R-1, 39-40					X										
12R-CC															
14R-CC								X				X			
15R-1, 36-37		X							X		X				
15R-CC		C					X	C	X	A	C				

Core, section, interval (cm)	*Sphenolithus compactus*	*Sphenolithus conicus*	*Sphenolithus dissimilis*	*Sphenolithus heteromorphus*	*Sphenolithus moriformis*	*Sphenolithus neoabies*	*Syracosphaera pulchra*	*Triquetrorhabdulus auritus*	*Triquetrorhabdulus carinatus*	*Triquetrorhabdulus farnsworthii*	*Triquetrorhabdulus milowii*	*Triquetrorhabdulus rugosus*	*Umbilicosphaera sibogae*	(Sub)Zones	Age	
1R-1, 3-5														CN15	Pleistocene	
1R-CC							F						R	CN13a		
2R-CC							R							CN12a	Pliocene	
3R-1, 34-35														CN11b		
3R-2, 34-35							F									
3R-3, 34-35						C	X									
3R-CC						A	X									
4R-1, 89-91						X								CN10c		
4R-1, 117-118						X								CN10b		
4R-CC						A						X		CN10a	late	Miocene
5R-1, 64-66						A						X		CN9b		
5R-2, 8-10						X						X				
5R-CC						C						X				
6R-CC						X				X		X				
7R-CC						X						X		CN9a		
8R-1, 90-92						C								CN8b		
8R-CC						X						X				
9R-1, 100-102												F		CN7b		
9R-2, 100-102																
9R-CC																
11R-CC				X										CN4	mid.	
12R-1, 39-40				X				X						CN3		
12R-CC				C											early	
14R-CC				R	X						X					
15R-1, 36-37		X		X	X			X	X							
15R-CC	C		F		F									CN1c		

Note: Intervening samples that are barren of calcareous nannofossils are not included (for explanation of letters denoting estimates of nannofossil abundance and preservation, see “Introduction” section of this chapter). ** = nannofossil chalk with radiolarians, and claystone.

Table 6. Calcareous nannofossil distribution in Hole 962B cores.

Core, section, interval (cm)	Main lithology / Nannofossil species	Abundance	Preservation	*Calcidiscus leptoporus*	*Calcidiscus macintyrei*	*Ceratolithus cristatus*	*Ceratolithus rugosus*	*Coccolithus pelagicus*	*Coccolithus pelagicus* (w/ bar)	*Discoaster asymmetricus*	*Discoaster brouweri*	*Discoaster calcaris*	*Discoaster challengeri*	*Discoaster pentaradiatus*	*Discoaster quadramus*	*Discoaster surculus*	*Discoaster tamalis*	*Discoaster triradiatus*	*Discoaster variabilis*	*Emiliania huxleyi*	*Florisphaera profunda*	*Geminilithella rotula*	*Gephyrocapsa aperta*	*Gephyrocapsa caribbeanica*	*Gephyrocapsa margerellii*	*Gephyrocapsa oceanica*	*Gephyrocapsa omega*	*Gephyrocapsa* spp. small	*Helicosphaera intermedia/euphratis*	*Helicosphaera inversa*	*Helicosphaera kamptneri/carteri*	*Helicosphaera neogranulata*	*Helicosphaera sellii*	*Pontosphaera japonica*	*Pontosphaera multipora*	*Pseudoemiliania lacunosa*	*Pseudoemiliania lacunosa* (small)	*Reticulofenestra astoni*	*Reticulofenestra minuta*	*Reticulofenestra minutula*	*Reticulofenestra pseudoumbilicus*	*Rhabdosphaera clavigera*	*Sphenolithus abies*	*Sphenolithus neoabies*	*Triquetrorhabdulus rugosus*	*Umbilicosphaera sibogae*	(Sub)Zones	Age
159-962B-																																																	
1H-1, 1-2	Silty clays with opal, micrite and plant debris; pyritic clay; and clay with nannofossils	F	P	R	X	X														C	A				C	F	F				R																R	CN14b/CN15	Pleistocene
1H-2, 25-26		R	P																		C		F				F																							
1H-3, 50-52		C	M																							F	F		F																				
1H-3, 96-97		C	P	X																				C			C				R																		
1H-4, 133-134		A	G	R	X																			A		A					R																R	CN14b/CN15	
1H-CC		A	G	F		R																	A	C		C		A		F	R	R						X											
2H-4, 50-52		C	M	X																			C	X		X		A		X	X																X		
2H-5, 50-52		C	M	X																				X		X		A		X	X					X													
2H-6, 50-52		F	P	X																	A			X		X				X	X	X															X	CN14a	Pleistocene
2H-CC		R	P	X																			R	X							X					X												CN13b	
3H-1, 53-55		A	M	X	X		X	F		X	X			X		X															X		R	F		X	X				X					X	CN12b	
3H-2, 50-52		A	M	X	X		X	X	X	X	X			X		X	X		X			X									X					X	X								X	X	CN11b	Pliocene
3H-3, 50-52		C	M	X	X		X	X		R	X			X		X		X	X			X									X				X		X		X		X		X	X					
3H-4, 50-52		C	M	X	X		X				X	X		X		X		X				X									X			X			X		X	X	X		X	X	X				
3H-7, 50-52		T	P	X			X		X	X	X			X		X		X	X																							X	X					CN11a	
3H-CC		C	M	R	C		F	X			F		R	C	R	F		X	R			X									X		R				R					F		F					

Note: Intervening samples that are barren of calcareous nannofossils are not included (for explanation of letters denoting estimates of nannofossil abundance and preservation, see “Introduction” section of this chapter).