

[illegible]

Notes: Bold brackets indicate zonal marker datums, and zonal intervals are divided by horizontal lines. Abundance: A = abundant, C = common, F = few, R = rare, X = present, B = barren. Preservation: G = good, M = moderate, P = poor.

Table T1. Relative abundance of diatoms, ebridians, and endoskeletal dinoflagellates in the Neogene, Hole 1138A. (See table note. Continued on next 51 pages.)

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	Diatoms	Actinocyclus actinochilus	Actinocyclus curvatulus	Actinocyclus dimorphus	Actinocyclus fasciculatus	Actinocyclus ingens	Actinocyclus ingens var. nodus	Actinocyclus ingens var. ovalis	Actinocyclus ingens var. 1 [1138A]	Actinocyclus ingens var. 2 [1138A]	Actinocyclus karstenii	Actinocyclus maccollumii	Actinocyclus spp.	Actinopterychus senarius	Arachnoidiscus spp.
183-1138A-																				
1R-1, 70–71	0.70	A	M–G	B	Thalassiosira lentiginosa		R	R	F	R	X									
1R-2, 109–110	2.59	A	M–G	X																
1R-3, 69–70	3.69	A	M	X																
1R-4, 20–21	4.70	A	M	B																
1R-CC, 16–21	8.53	A	G	B																
2R-CC, 7–12	12.78	A	G	B	Actinocyclus ingens	R														
3R-2, 34–35	18.94	A	M–G	B																
3R-CC, 7–12	25.57	A	M–G	B																
4R-1, 25–26	26.75	A	M–G	R																
4R-CC, 6–11	34.94	A	M–G	B																
5R-1, 100–101	37.00	A	M–G	X																
5R-2, 25–26	37.75	A	M–G	X																
5R-2, 100–101	38.50	A	M–G	R–F																
5R-3, 100–101	40.00	A	M–G	F																
5R-4, 100–101	41.50	A	G	B																
5R-5, 100–101	43.00	A	M–G	X–R																
5R-6, 100–101	44.50	A	M–G	R																
5R-7, 25–26	45.25	A	M	F–C																
5R-CC, 12–17	45.58	A	M–G	R																
6R-1, 100–101	46.40	A	M–G	B																
6R-2, 100–101	47.90	A	M–G	B																
6R-3, 100–101	49.40	A	M	X																
6R-CC, 12–17	49.65	A	M–G	F	Fragilariopsis kerguelensis															
7R-1, 100–101	55.80	A	M–G	F																
7R-2, 100–101	57.30	A	M–G	F																
7R-3, 25–26	58.05	A	M	X–R	Thalassiosira kolbei															
7R-3, 100–101	58.80	A	M–G	R																
7R-4, 100–101	60.30	A	M–G	F																
7R-5, 100–101	61.80	C	P–M	C																
7R-CC, 13–18	62.31	A	G	R																

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Chaetoceros bulbosum</i>	<i>Chaetoceros lorenzianus</i>	<i>Chaetoceros</i> sp. A [Harwood & Maruyama, 1992]	<i>Chaetoceros</i> spp. (spores)	<i>Chaetoceros</i> spp. (small vegetative cells)	<i>Cestodiscus</i> spp.	<i>Cocconeis</i> spp.	<i>Corethron criophilum</i>	<i>"Coscinodiscus" rhombicus</i>	<i>Coscinodiscus marginatus</i>	<i>Coscinodiscus</i> spp.	<i>Crucidentacula ikebei</i>	<i>Crucidentacula nicobarica</i>	<i>Dactyliosolen antarcticus</i> (girdle band ends)	<i>"Denticula" sp. cf. D. norvegica</i>
183-1138A-																				
1R-1, 70-71	0.70	A	M-G	B	<i>Thalassiosira lentiginosa</i>				F	F						X			C	
1R-2, 109-110	2.59	A	M-G	X					F	F						R			C	
1R-3, 69-70	3.69	A	M	X					R	R						R			C	
1R-4, 20-21	4.70	A	M	B					F	F									F	
1R-CC, 16-21	8.53	A	G	B					F	F						R			F	
2R-CC, 7-12	12.78	A	G	B					R										F	
3R-2, 34-35	18.94	A	M-G	B	<i>Actinocyclus ingens</i>				X	R									F	
3R-CC, 7-12	25.57	A	M-G	B					X										F	
4R-1, 25-26	26.75	A	M-G	R					R										F	
4R-CC, 6-11	34.94	A	M-G	B					X										F	
5R-1, 100-101	37.00	A	M-G	X					X	X										
5R-2, 25-26	37.75	A	M-G	X					R	R										
5R-2, 100-101	38.50	A	M-G	R-F					R	R						X				
5R-3, 100-101	40.00	A	M-G	F					R	R						R			F	
5R-4, 100-101	41.50	A	G	B					X							X			R	
5R-5, 100-101	43.00	A	M-G	X-R					X										R	
5R-6, 100-101	44.50	A	M-G	R					R	R									X	
5R-7, 25-26	45.25	A	M	F-C					R										R	
5R-CC, 12-17	45.58	A	M-G	R					X							X			X	
6R-1, 100-101	46.40	A	M-G	B					R							R			F	
6R-2, 100-101	47.90	A	M-G	B					F	R									F	
6R-3, 100-101	49.40	A	M	X	<i>Fragilariopsis kerguelensis</i>				R							R			R	
6R-CC, 12-17	49.65	A	M-G	F					R	R		R							F	
7R-1, 100-101	55.80	A	M-G	F					R										F	
7R-2, 100-101	57.30	A	M-G	F					R										F	
7R-3, 25-26	58.05	A	M	X-R	<i>Thalassiosira kolbei</i>				X										R	
7R-3, 100-101	58.80	A	M-G	R					R										F	
7R-4, 100-101	60.30	A	M-G	F					R										F	
7R-5, 100-101	61.80	C	P-M	C					R	R									F	
7R-CC, 13-18	62.31	A	G	R		R			R										F	

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Denticulopsis crassa</i>	<i>Denticulopsis dimorpha</i> var. <i>areolata</i>	<i>Denticulopsis dimorpha</i> var. <i>dimorpha</i>	<i>Denticulopsis "hustedtii</i> var. <i>asper"</i>	<i>Denticulopsis hyalina</i>	<i>Denticulopsis maccollumii</i>	<i>Denticulopsis ovata</i>	<i>Denticulopsis praedimorpha</i> var. <i>praedimorpha</i>	<i>Denticulopsis simonsenii</i>	<i>Denticulopsis vulgaris</i>	<i>Diploneis</i> spp.	<i>Drepanotheca</i> spp.	<i>Entomoneis</i> sp.	<i>Entopyla</i> spp.	<i>Eucampia antarctica</i>	<i>Eucampia antarctica</i> var. <i>"twista"</i>	
183-1138A-																						
1R-1, 70–71	0.70	A	M–G	B	<i>Thalassiosira lentiginosa</i>																C	
1R-2, 109–110	2.59	A	M–G	X																	F	
1R-3, 69–70	3.69	A	M	X																	F	
1R-4, 20–21	4.70	A	M	B																	F	
1R-CC, 16–21	8.53	A	G	B																	F	
2R-CC, 7–12	12.78	A	G	B																	R	
3R-2, 34–35	18.94	A	M–G	B	<i>Actinocyclus ingens</i>																R	
3R-CC, 7–12	25.57	A	M–G	B																	R	
4R-1, 25–26	26.75	A	M–G	R																	R	
4R-CC, 6–11	34.94	A	M–G	B																	X	
5R-1, 100–101	37.00	A	M–G	X																	X	
5R-2, 25–26	37.75	A	M–G	X																		F
5R-2, 100–101	38.50	A	M–G	R–F																		
5R-3, 100–101	40.00	A	M–G	F																		
5R-4, 100–101	41.50	A	G	B																		
5R-5, 100–101	43.00	A	M–G	X–R																		
5R-6, 100–101	44.50	A	M–G	R																		X
5R-7, 25–26	45.25	A	M	F–C																		F
5R-CC, 12–17	45.58	A	M–G	R																		R
6R-1, 100–101	46.40	A	M–G	B																		
6R-2, 100–101	47.90	A	M–G	B																		
6R-3, 100–101	49.40	A	M	X		<i>Fragilariopsis kerguelensis</i>																R
6R-CC, 12–17	49.65	A	M–G	F															X		R	
7R-1, 100–101	55.80	A	M–G	F																		
7R-2, 100–101	57.30	A	M–G	F	<i>Thalassiosira kolbei</i>																	
7R-3, 25–26	58.05	A	M	X–R																		
7R-3, 100–101	58.80	A	M–G	R																		R
7R-4, 100–101	60.30	A	M–G	F																		R
7R-5, 100–101	61.80	C	P–M	C																		R
7R-CC, 13–18	62.31	A	G	R																	R	

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Ethmodiscus</i> sp. <i>Fragilariopsis arcula</i> <i>Fragilariopsis aurica</i> <i>Fragilariopsis barronii</i> <i>Fragilariopsis</i> sp. cf. <i>F. barronii</i> <i>Fragilariopsis clementia</i> <i>Fragilariopsis curta</i> <i>Fragilariopsis cylindrus</i> <i>Fragilariopsis donahuensis</i> <i>Fragilariopsis efferans</i> <i>Fragilariopsis fossilis</i> <i>Fragilariopsis heardensis</i> <i>Fragilariopsis interfrigidaria</i> <i>Fragilariopsis interfrigidaria-weaveri</i> (intermediate) <i>Fragilariopsis januaria</i>
183-1138A-						
1R-1, 70-71	0.70	A	M-G	B		
1R-2, 109-110	2.59	A	M-G	X		
1R-3, 69-70	3.69	A	M	X	<i>Thalassiosira lentiginosa</i>	
1R-4, 20-21	4.70	A	M	B		
1R-CC, 16-21	8.53	A	G	B		
2R-CC, 7-12	12.78	A	G	B		
3R-2, 34-35	18.94	A	M-G	B		
3R-CC, 7-12	25.57	A	M-G	B		
4R-1, 25-26	26.75	A	M-G	R		
4R-CC, 6-11	34.94	A	M-G	B		
5R-1, 100-101	37.00	A	M-G	X		
5R-2, 25-26	37.75	A	M-G	X		
5R-2, 100-101	38.50	A	M-G	R-F		
5R-3, 100-101	40.00	A	M-G	F	<i>Actinocyclus ingens</i>	
5R-4, 100-101	41.50	A	G	B		
5R-5, 100-101	43.00	A	M-G	X-R		
5R-6, 100-101	44.50	A	M-G	R		
5R-7, 25-26	45.25	A	M	F-C		
5R-CC, 12-17	45.58	A	M-G	R		
6R-1, 100-101	46.40	A	M-G	B		
6R-2, 100-101	47.90	A	M-G	B		
6R-3, 100-101	49.40	A	M	X		
6R-CC, 12-17	49.65	A	M-G	F	<i>Fragilariopsis kerguelensis</i>	
7R-1, 100-101	55.80	A	M-G	F		
7R-2, 100-101	57.30	A	M-G	F		
7R-3, 25-26	58.05	A	M	X-R		
7R-3, 100-101	58.80	A	M-G	R		
7R-4, 100-101	60.30	A	M-G	F		
7R-5, 100-101	61.80	C	P-M	C		
7R-CC, 13-18	62.31	A	G	R		

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Fragilariopsis kerguelensis</i> <i>Fragilariopsis lacrima</i> <i>Fragilariopsis matuyamae</i> <i>Fragilariopsis obliquecostata</i> <i>Fragilariopsis</i> cf. <i>obliquecostata</i>	<i>Fragilariopsis praecurta</i> <i>Fragilariopsis praeinterfrigidaria</i> <i>Fragilariopsis praeinterfrigidaria-interfrigidaria</i> (intermediate) <i>Fragilariopsis pusilla</i> <i>Fragilariopsis pseudonana</i>	<i>Fragilariopsis rhombica</i> <i>Fragilariopsis ritscheri</i> <i>Fragilariopsis</i> cf. <i>ritscheri</i> <i>Fragilariopsis separanda</i> <i>Fragilariopsis weaveri</i>
183-1138A-								
1R-1, 70–71	0.70	A	M–G	B	<i>Thalassiosira lentiginosa</i>	A		F
1R-2, 109–110	2.59	A	M–G	X		A		R
1R-3, 69–70	3.69	A	M	X		A		R
1R-4, 20–21	4.70	A	M	B		A	R	R
1R-CC, 16–21	8.53	A	G	B		A	R	R
2R-CC, 7–12	12.78	A	G	B		A	R	R
3R-2, 34–35	18.94	A	M–G	B	<i>Actinocyclus ingens</i>	A		F
3R-CC, 7–12	25.57	A	M–G	B		A		R
4R-1, 25–26	26.75	A	M–G	R		A		R
4R-CC, 6–11	34.94	A	M–G	B		A	R	R
5R-1, 100–101	37.00	A	M–G	X		C		X
5R-2, 25–26	37.75	A	M–G	X		A		R
5R-2, 100–101	38.50	A	M–G	R–F		C		R
5R-3, 100–101	40.00	A	M–G	F		C		R
5R-4, 100–101	41.50	A	G	B		C		R
5R-5, 100–101	43.00	A	M–G	X–R		C		R
5R-6, 100–101	44.50	A	M–G	R		C		R
5R-7, 25–26	45.25	A	M	F–C		C		R
5R-CC, 12–17	45.58	A	M–G	R		A		R
6R-1, 100–101	46.40	A	M–G	B		A		R
6R-2, 100–101	47.90	A	M–G	B		A		R
6R-3, 100–101	49.40	A	M	X	<i>Fragilariopsis kerguelensis</i>	C		R
6R-CC, 12–17	49.65	A	M–G	F		C		R
7R-1, 100–101	55.80	A	M–G	F		C		R
7R-2, 100–101	57.30	A	M–G	F	<i>Thalassiosira kolbei</i>	A		R
7R-3, 25–26	58.05	A	M	X–R		C		R
7R-3, 100–101	58.80	A	M–G	R		C		R
7R-4, 100–101	60.30	A	M–G	F		C		R
7R-5, 100–101	61.80	C	P–M	C		C	X	R
7R-CC, 13–18	62.31	A	G	R		F	R	R

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Hemidiscus</i> sp. cf. <i>H. cuneiformis</i>	<i>Hemidiscus karstenii</i>	<i>Hemidiscus karstenii</i> f. 1 [Ciesielski, 1983]	<i>Hemidiscus triangularis</i>	<i>Hemiaulus incusus</i>	<i>Hemiaulus</i> spp.	<i>Hyalodiscus radiatus</i>	<i>Ikebea</i> sp. B [Scherer et al., 2000]	<i>Isthmia</i> sp.	<i>Lithodesmium minisculum</i>	<i>Navicula directa</i>	<i>Navicula</i> spp.	<i>Neobrunia mirabilis</i>	<i>Nitzschia denticuloides</i>	<i>Nitzschia grossepunctata</i>
183-1138A-																				
1R-1, 70–71	0.70	A	M–G	B	<i>Thalassiosira lentiginosa</i>	F R														
1R-2, 109–110	2.59	A	M–G	X																
1R-3, 69–70	3.69	A	M	X																
1R-4, 20–21	4.70	A	M	B																
1R-CC, 16–21	8.53	A	G	B																
2R-CC, 7–12	12.78	A	G	B	<i>Actinocyclus ingens</i>															
3R-2, 34–35	18.94	A	M–G	B																
3R-CC, 7–12	25.57	A	M–G	B																
4R-1, 25–26	26.75	A	M–G	R																
4R-CC, 6–11	34.94	A	M–G	B																
5R-1, 100–101	37.00	A	M–G	X																
5R-2, 25–26	37.75	A	M–G	X																
5R-2, 100–101	38.50	A	M–G	R–F																
5R-3, 100–101	40.00	A	M–G	F																
5R-4, 100–101	41.50	A	G	B																
5R-5, 100–101	43.00	A	M–G	X–R																
5R-6, 100–101	44.50	A	M–G	R																
5R-7, 25–26	45.25	A	M	F–C																
5R-CC, 12–17	45.58	A	M–G	R																
6R-1, 100–101	46.40	A	M–G	B																

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Nitzschia maleinterpretaria</i>	<i>Nitzschia miocenica</i>	<i>Nitzschia panduriformis</i>	<i>Nitzschia reinholdii</i>	<i>Nitzschia</i> sp. 17 [Schrader, 1976]	<i>Paralia sulcata</i>	<i>Porosira pseudodenticulata</i>	<i>Proboscia</i> spp.	<i>Radialiplicata clavigera</i>	<i>Psammolictyon</i> sp.	<i>Raphidodiscus marylandicus</i>	<i>Rhabdonema japonicum</i> group	<i>Rhabdonema/Grammatophora</i> spp.	<i>Rhizosolenia costata</i>	<i>Rhizosolenia hebetata</i> group
183-1138A-																				
1R-1, 70-71	0.70	A	M-G	B	<i>Thalassiosira lentiginosa</i>		R				X				R					R
1R-2, 109-110	2.59	A	M-G	X			R				R				R					R
1R-3, 69-70	3.69	A	M	X			R				X				R					R
1R-4, 20-21	4.70	A	M	B							R									F
1R-CC, 16-21	8.53	A	G	B			R				R				R					R
2R-CC, 7-12	12.78	A	G	B			X				R				X					
3R-2, 34-35	18.94	A	M-G	B	<i>Actinocyclus ingens</i>						F									R
3R-CC, 7-12	25.57	A	M-G	B							R				X					R
4R-1, 25-26	26.75	A	M-G	R			X				F									R
4R-CC, 6-11	34.94	A	M-G	B			X				F									R
5R-1, 100-101	37.00	A	M-G	X							R									R
5R-2, 25-26	37.75	A	M-G	X							X									
5R-2, 100-101	38.50	A	M-G	R-F							R									R
5R-3, 100-101	40.00	A	M-G	F							F									R
5R-4, 100-101	41.50	A	G	B							F									R
5R-5, 100-101	43.00	A	M-G	X-R							F									R
5R-6, 100-101	44.50	A	M-G	R							F									R
5R-7, 25-26	45.25	A	M	F-C							F									R
5R-CC, 12-17	45.58	A	M-G	R							F									R
6R-1, 100-101	46.40	A	M-G	B							F									R
6R-2, 100-101	47.90	A	M-G	B							F									X
6R-3, 100-101	49.40	A	M	X							F									
6R-CC, 12-17	49.65	A	M-G	F							F									R
7R-1, 100-101	55.80	A	M-G	F							R									R
7R-2, 100-101	57.30	A	M-G	F							F		R							R
7R-3, 25-26	58.05	A	M	X-R							F		R							R
7R-3, 100-101	58.80	A	M-G	R	<i>Thalassiosira kolbei</i>						F					X				R
7R-4, 100-101	60.30	A	M-G	F							F									R
7R-5, 100-101	61.80	C	P-M	C							F	X	X							R
7R-CC, 13-18	62.31	A	G	R							F									R

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Rhizosolenia hebetata</i> f. <i>hiemalis</i> [sensu Schrader, 1976]	<i>Rhizosolenia styliformis</i> group	<i>Rhizosolenia</i> sp. cf. <i>R. sima</i> f. <i>silicea</i>	<i>Rocella gelida</i>	<i>Rocella gelida</i> var. <i>schraderi</i>	<i>Rocella praeinitida</i>	<i>Rocella vigilans</i> var. B [Harwood & Manuyama, 1992]	<i>Rouxia antarctica</i>	<i>Rouxia californica</i>	<i>Rouxia heteropolara</i>	<i>Rouxia isopolica</i>	<i>Rouxia leventerae</i>	<i>Rouxia naviculoides</i>	<i>Rouxia peragalli</i> [sensu Baldauf & Barron, 1991]	<i>Rouxia</i> sp. 1
183-1138A- 1R-1, 70–71	0.70	A	M–G	B	<i>Thalassiosira lentiginosa</i>		X													
1R-2, 109–110	2.59	A	M–G	X			X	X												
1R-3, 69–70	3.69	A	M	X			R	R												
1R-4, 20–21	4.70	A	M	B			R	R												
1R-CC, 16–21	8.53	A	G	B			R													
2R-CC, 7–12	12.78	A	G	B	<i>Actinocyclus ingens</i>															
3R-2, 34–35	18.94	A	M–G	B			X													
3R-CC, 7–12	25.57	A	M–G	B										R				F		
4R-1, 25–26	26.75	A	M–G	R														F		
4R-CC, 6–11	34.94	A	M–G	B			R											R	X	
5R-1, 100–101	37.00	A	M–G	X																
5R-2, 25–26	37.75	A	M–G	X																
5R-2, 100–101	38.50	A	M–G	R–F			X													
5R-3, 100–101	40.00	A	M–G	F			X							X						
5R-4, 100–101	41.50	A	G	B																
5R-5, 100–101	43.00	A	M–G	X–R																
5R-6, 100–101	44.50	A	M–G	R											R					
5R-7, 25–26	45.25	A	M	F–C											F					
5R-CC, 12–17	45.58	A	M–G	R											F					
6R-1, 100–101	46.40	A	M–G	B			X								F					
6R-2, 100–101	47.90	A	M–G	B		X								F						
6R-3, 100–101	49.40	A	M	X	<i>Fragilariopsis kerguelensis</i>		X	X					R							
6R-CC, 12–17	49.65	A	M–G	F										R						
7R-1, 100–101	55.80	A	M–G	F										C						
7R-2, 100–101	57.30	A	M–G	F		X								C						
7R-3, 25–26	58.05	A	M	X–R	<i>Thalassiosira kolbei</i>								F							
7R-3, 100–101	58.80	A	M–G	R			R							F						
7R-4, 100–101	60.30	A	M–G	F			X													

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	Rouxia spp. Spumorbis annulifer Stellarima microtrias Stellarima stellaris Stephanopyxis spp.	Synedropsis sp. B [Scherer et al., 2000] Thalassionema nitzschioides Thalassionema nitzschioides var. parvum Thalassionema nitzschioides var. 1 [1138A] Thalassiosira antarctica	Thalassiosira sp. cf. T. antarctica Thalassiosira complicata Thalassiosira sp. cf. T. eccentrica Thalassiosira elliptipora Thalassiosira fasciculata
183-1138A-								
1R-1, 70-71	0.70	A	M-G	B				
1R-2, 109-110	2.59	A	M-G	X	Thalassiosira lentiginosa		X	R
1R-3, 69-70	3.69	A	M	X			X	R
1R-4, 20-21	4.70	A	M	B			R	X
1R-CC, 16-21	8.53	A	G	B		X	R	R
2R-CC, 7-12	12.78	A	G	B			R	X
3R-2, 34-35	18.94	A	M-G	B			X	
3R-CC, 7-12	25.57	A	M-G	B			R	R
4R-1, 25-26	26.75	A	M-G	R			R	X
4R-CC, 6-11	34.94	A	M-G	B			R	
5R-1, 100-101	37.00	A	M-G	X			F	X
5R-2, 25-26	37.75	A	M-G	X			R	
5R-2, 100-101	38.50	A	M-G	R-F		X	R	
5R-3, 100-101	40.00	A	M-G	F	Actinocyclus ingens		R	X
5R-4, 100-101	41.50	A	G	B			X	
5R-5, 100-101	43.00	A	M-G	X-R			R	
5R-6, 100-101	44.50	A	M-G	R			R	
5R-7, 25-26	45.25	A	M	F-C			F	R
5R-CC, 12-17	45.58	A	M-G	R			R	
6R-1, 100-101	46.40	A	M-G	B			F	
6R-2, 100-101	47.90	A	M-G	B		X	C	
6R-3, 100-101	49.40	A	M	X			F	
6R-CC, 12-17	49.65	A	M-G	F	Fragilariopsis kerguelensis		C	
7R-1, 100-101	55.80	A	M-G	F			F	
7R-2, 100-101	57.30	A	M-G	F			C	X
7R-3, 25-26	58.05	A	M	X-R			F	
7R-3, 100-101	58.80	A	M-G	R			F	
7R-4, 100-101	60.30	A	M-G	F	Thalassiosira kolbei		F	
7R-5, 100-101	61.80	C	P-M	C			F	
7R-CC, 13-18	62.31	A	G	R			F	

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Thalassiosira gracilis</i>	<i>Thalassiosira insigna</i>	<i>Thalassiosira inura</i>	<i>Thalassiosira jacksonii</i>	<i>Thalassiosira kolbei</i>	<i>Thalassiosira lentiginosa</i>	<i>Thalassiosira lentiginosa</i> var. <i>ovalis</i>	<i>Thalassiosira miocenica</i>	<i>Thalassiosira nansenii</i>	<i>Thalassiosira oliverana</i>	<i>Thalassiosira oliverana</i> var. <i>sparsa</i>	<i>Thalassiosira praeftaga</i>	<i>Thalassiosira ritscheri</i>	<i>Thalassiosira striata</i>	<i>Thalassiosira tetraoestrupii</i> group
183-1138A-																				
1R-1, 70-71	0.70	A	M-G	B	<i>Thalassiosira lentiginosa</i>	F					C				C					R
1R-2, 109-110	2.59	A	M-G	X		F					F				F					R
1R-3, 69-70	3.69	A	M	X		F					F				F					R
1R-4, 20-21	4.70	A	M	B		F					C				F		X			X
1R-CC, 16-21	8.53	A	G	B		F					C				F					R
2R-CC, 7-12	12.78	A	G	B		R					C				F					R
3R-2, 34-35	18.94	A	M-G	B	<i>Actinocyclus ingens</i>	R					F				F					R
3R-CC, 7-12	25.57	A	M-G	B		R					C				F					R
4R-1, 25-26	26.75	A	M-G	R		F					F				F					X
4R-CC, 6-11	34.94	A	M-G	B		F					C				F					R
5R-1, 100-101	37.00	A	M-G	X							F				F					F
5R-2, 25-26	37.75	A	M-G	X							F									X
5R-2, 100-101	38.50	A	M-G	R-F		R					C				R					F
5R-3, 100-101	40.00	A	M-G	F		X					C				F					F
5R-4, 100-101	41.50	A	G	B		X					F				C					F
5R-5, 100-101	43.00	A	M-G	X-R							F				F					F
5R-6, 100-101	44.50	A	M-G	R		R					F				F					F
5R-7, 25-26	45.25	A	M	F-C		R					C				C					F
5R-CC, 12-17	45.58	A	M-G	R		R					A				C					R
6R-1, 100-101	46.40	A	M-G	B		X					F				C					F
6R-2, 100-101	47.90	A	M-G	B		R					F				F					F
6R-3, 100-101	49.40	A	M	X	<i>Fragilariopsis kerguelensis</i>	X					F				F					R
6R-CC, 12-17	49.65	A	M-G	F		R					F				F					F
7R-1, 100-101	55.80	A	M-G	F							C				C					F
7R-2, 100-101	57.30	A	M-G	F		R					F				F					R
7R-3, 25-26	58.05	A	M	X-R	<i>Thalassiosira kolbei</i>	X				R	F				F					F
7R-3, 100-101	58.80	A	M-G	R		?				F	F				F					F
7R-4, 100-101	60.30	A	M-G	F							F				C					F
7R-5, 100-101	61.80	C	P-M	C						F	F				F					F
7R-CC, 13-18	62.31	A	G	R		?				F	F				F					R

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Thalassiosira tetraoestrupii</i> var. <i>reimeri</i>	<i>Thalassiosira torokina</i> ("early" form)	<i>Thalassiosira trifulta</i>	<i>Thalassiosira tumida</i>	<i>Thalassiosira vulnifica</i>	<i>Thalassiosira</i> sp. 1 [1138A]	<i>Thalassiosira</i> spp.	<i>Trichotoxon/Thalassiothrix</i> spp.	<i>Trinacria excavata</i>	Ebridians	<i>Ammodochium rectangulare</i>	<i>Ebriopsis cornuta</i>	<i>Falsebria ambigua</i>	<i>Pseudammodochium sphericum</i> (single skeleton)
183-1138A-																			
1R-1, 70-71	0.70	A	M-G	B	<i>Thalassiosira lentiginosa</i>			X	R				F						
1R-2, 109-110	2.59	A	M-G	X									F						
1R-3, 69-70	3.69	A	M	X									F						
1R-4, 20-21	4.70	A	M	B					X				F						
1R-CC, 16-21	8.53	A	G	B					R				F						
2R-CC, 7-12	12.78	A	G	B									F						
3R-2, 34-35	18.94	A	M-G	B	<i>Actinocyclus ingens</i>			X					F						
3R-CC, 7-12	25.57	A	M-G	B									F						
4R-1, 25-26	26.75	A	M-G	R					X				F						
4R-CC, 6-11	34.94	A	M-G	B					X				F						
5R-1, 100-101	37.00	A	M-G	X					R	r			F						
5R-2, 25-26	37.75	A	M-G	X									F						
5R-2, 100-101	38.50	A	M-G	R-F					R				F						
5R-3, 100-101	40.00	A	M-G	F									F						
5R-4, 100-101	41.50	A	G	B									F						
5R-5, 100-101	43.00	A	M-G	X-R		?							R						
5R-6, 100-101	44.50	A	M-G	R		?							F						
5R-7, 25-26	45.25	A	M	F-C									F						
5R-CC, 12-17	45.58	A	M-G	R					R				F						
6R-1, 100-101	46.40	A	M-G	B					X				X						
6R-2, 100-101	47.90	A	M-G	B		?							R						
6R-3, 100-101	49.40	A	M	X					X				X						
6R-CC, 12-17	49.65	A	M-G	F					F				R						
7R-1, 100-101	55.80	A	M-G	F		F				r			R						
7R-2, 100-101	57.30	A	M-G	F		F			R				R						
7R-3, 25-26	58.05	A	M	X-R					R				X						
7R-3, 100-101	58.80	A	M-G	R		F							X						
7R-4, 100-101	60.30	A	M-G	F		F							X						
7R-5, 100-101	61.80	C	P-M	C		F													
7R-CC, 13-18	62.31	A	G	R		F				r									

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	Endoskeletal dinoflagellates <i>Actiniscus pentasterias</i> <i>Cardulifolia gracilis</i> <i>Foliactiniscus mirabilis</i>
183-1138A-						
1R-1, 70–71	0.70	A	M–G	B	<i>Thalassiosira lentiginosa</i>	X
1R-2, 109–110	2.59	A	M–G	X		X
1R-3, 69–70	3.69	A	M	X		X
1R-4, 20–21	4.70	A	M	B		
1R-CC, 16–21	8.53	A	G	B		R
2R-CC, 7–12	12.78	A	G	B		X
3R-2, 34–35	18.94	A	M–G	B	<i>Actinocyclus ingens</i>	X
3R-CC, 7–12	25.57	A	M–G	B		R
4R-1, 25–26	26.75	A	M–G	R		X
4R-CC, 6–11	34.94	A	M–G	B		X
5R-1, 100–101	37.00	A	M–G	X		
5R-2, 25–26	37.75	A	M–G	X		X
5R-2, 100–101	38.50	A	M–G	R–F		X
5R-3, 100–101	40.00	A	M–G	F		X
5R-4, 100–101	41.50	A	G	B		X
5R-5, 100–101	43.00	A	M–G	X–R		
5R-6, 100–101	44.50	A	M–G	R		X
5R-7, 25–26	45.25	A	M	F–C		X
5R-CC, 12–17	45.58	A	M–G	R		R
6R-1, 100–101	46.40	A	M–G	B		
6R-2, 100–101	47.90	A	M–G	B		
6R-3, 100–101	49.40	A	M	X		R
6R-CC, 12–17	49.65	A	M–G	F	<i>Fragilariopsis kerguelensis</i>	R
7R-1, 100–101	55.80	A	M–G	F	<i>Thalassiosira kolbei</i>	
7R-2, 100–101	57.30	A	M–G	F		
7R-3, 25–26	58.05	A	M	X–R		X
7R-3, 100–101	58.80	A	M–G	R		
7R-4, 100–101	60.30	A	M–G	F		
7R-5, 100–101	61.80	C	P–M	C		
7R-CC, 13–18	62.31	A	G	R		R

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	Diatoms <i>Actinocyclus actinocylus</i> <i>Actinocyclus curvatulus</i> <i>Actinocyclus dimorphus</i> <i>Actinocyclus fasciculatus</i> <i>Actinocyclus ingens</i> <i>Actinocyclus ingens</i> var. <i>nodus</i> <i>Actinocyclus ingens</i> var. <i>ovalis</i> <i>Actinocyclus ingens</i> var. 1 [1138A] <i>Actinocyclus ingens</i> var. 2 [1138A]	<i>Actinocyclus karstenii</i> <i>Actinocyclus maccollumii</i> <i>Actinocyclus</i> spp. <i>Actinopterychus senarius</i> <i>Arachnoidiscus</i> spp.
8R-1, 100–101	65.30	A	M–G	X	<i>Thalassiosira vulnifica</i>	R	F
8R-2, 100–101	66.80	A	M–G	F		X	X
8R-3, 100–101	68.30	A	M–G	A	<i>Thalassiosira insigna</i> – <i>Thalassiosira vulnifica</i>		R
8R-4, 100–101	69.80	C	P–M	F–C			
8R-5, 100–101	71.30	A	M	C		X	F
8R-6, 100–101	72.80	A	M	C–A			R
8R-CC, 10–15	74.04	C	P–M	R			R
9R-1, 100–101	74.70	A	M–G	A		X	R
9R-2, 100–101	76.20	A	M	C–A			
9R-3, 100–101	77.70	A	M–G	C–A			X
9R-CC, 14–19	79.21	A	G	C–A			
10R-1, 25–26	83.35	A	M–G	C–A			
10R-1, 100–101	84.10	A	M–G	C–A	<i>Fragilariopsis interfrigidaria</i>	X	
10R-2, 25–26	84.85	A	M	R			
10R-2, 100–101	85.60	A	M–G	R–F			R
10R-3, 100–101	87.10	A	M–G	X			X
10R-CC, 13–18	87.53	A	M–G	X			
11R-1, 100–101	93.70	A	M–G	R–F			
11R-2, 100–101	95.20	A	M–G	R			
11R-3, 100–101	96.70	A	M–G	F			
11R-4, 100–101	98.20	A	M–G	F	<i>Fragilariopsis barronii</i>	X	
11R-5, 100–101	99.70	A	M–G	C			
11R-6, 100–101	101.20	A	M–G	R–F		X	
11R-CC, 9–14	102.39	A	M–G	R		R	R
12R-1, 100–101	103.30	A	M–G	C	<i>Thalassiosira inura</i>	R	R
12R-2, 100–101	104.80	A	M–G	F			F
12R-3, 100–101	106.30	A	M	A			
12R-CC, 23–28	107.03	C	M	A		X	
13R-1, 100–101	113.00	C	P–M	A	<i>Nitzschia reinholdii</i>	R	
13R-2, 100–101	114.50	A	M	A		F	X
13R-3, 100–101	116.00	A	M–G	A		F	
13R-4, 100–101	117.50	C	M	A		F	R

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Araniscus lewisianus</i> <i>Asterolampra tela</i> <i>Asteromphalus kennettii</i> <i>Asteromphalus oligocenicus</i> <i>Asteromphalus parvulus/hookeri</i>	<i>Asteromphalus symmetricus</i> <i>Azpetia gombosi</i> <i>Azpetia harwoodii</i> <i>Azpetia tabularis</i> <i>Bogorovia gombosii</i> <i>Bogorovia veniamini</i> <i>Cavitatus jouseanus</i> <i>Cavitatus miocenicus</i> <i>Cavitatus rectus</i> <i>Cestodiscus pulchellus</i>
8R-1, 100–101	65.30	A	M–G	X	<i>Thalassiosira vulnifica</i>	R	
8R-2, 100–101	66.80	A	M–G	F		R	
8R-3, 100–101	68.30	A	M–G	A		R	X
8R-4, 100–101	69.80	C	P–M	F–C	<i>Thalassiosira insigna–Thalassiosira vulnifica</i>	R	
8R-5, 100–101	71.30	A	M	C		R	
8R-6, 100–101	72.80	A	M	C–A		R	
8R-CC, 10–15	74.04	C	P–M	R		R	
9R-1, 100–101	74.70	A	M–G	A	<i>Fragilariopsis interfrigidaria</i>	R	X
9R-2, 100–101	76.20	A	M	C–A			
9R-3, 100–101	77.70	A	M–G	C–A			
9R-CC, 14–19	79.21	A	G	C–A			
10R-1, 25–26	83.35	A	M–G	C–A			X
10R-1, 100–101	84.10	A	M–G	C–A		X	
10R-2, 25–26	84.85	A	M	R		R	
10R-2, 100–101	85.60	A	M–G	R–F			R
10R-3, 100–101	87.10	A	M–G	X			
10R-CC, 13–18	87.53	A	M–G	X			
11R-1, 100–101	93.70	A	M–G	R–F		X	R
11R-2, 100–101	95.20	A	M–G	R			R
11R-3, 100–101	96.70	A	M–G	F			R
11R-4, 100–101	98.20	A	M–G	F			F
11R-5, 100–101	99.70	A	M–G	C	<i>Fragilariopsis barronii</i>		F
11R-6, 100–101	101.20	A	M–G	R–F			C
11R-CC, 9–14	102.39	A	M–G	R			C
12R-1, 100–101	103.30	A	M–G	C	<i>Thalassiosira inura</i>		R
12R-2, 100–101	104.80	A	M–G	F	— — — — —		
12R-3, 100–101	106.30	A	M	A	<i>Nitzschia reinholdii</i>		
12R-CC, 23–28	107.03	C	M	A			
13R-1, 100–101	113.00	C	P–M	A			F
13R-2, 100–101	114.50	A	M	A			F
13R-3, 100–101	116.00	A	M–G	A			F
13R-4, 100–101	117.50	C	M	A			F

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Chaetoceros bulbosum</i>	<i>Chaetoceros lorenzianus</i>	<i>Chaetoceros</i> sp. A [Harwood & Maruyama, 1992]	<i>Chaetoceros</i> spp. (spores)	<i>Chaetoceros</i> spp. (small vegetative cells)	<i>Cestodiscus</i> spp.	<i>Cocconeis</i> spp.	<i>Corethron criophilum</i>	<i>"Coscinodiscus" rhombicus</i>	<i>Coscinodiscus marginatus</i>	<i>Coscinodiscus</i> spp.	<i>Crucidentacula ikebei</i>	<i>Crucidentacula nicobarica</i>	<i>Dactyliosolen antarcticus</i> (girdle band ends)	<i>"Denticula" sp. cf. D. norvegica</i>
8R-1, 100-101	65.30	A	M-G	X	<i>Thalassiosira vulnifica</i>				F			R							F	
8R-2, 100-101	66.80	A	M-G	F					F	F			X						R	
8R-3, 100-101	68.30	A	M-G	A					F	F		X	X						F	
8R-4, 100-101	69.80	C	P-M	F-C	<i>Thalassiosira insigna-Thalassiosira vulnifica</i>				F	F		R	R						R	
8R-5, 100-101	71.30	A	M	C					F	R		R				X			C	
8R-6, 100-101	72.80	A	M	C-A					R	R		X			R	R			F	
8R-CC, 10-15	74.04	C	P-M	R	<i>Fragilariopsis interfrigidaria</i>				R				X			R			F	
9R-1, 100-101	74.70	A	M-G	A							R								C	
9R-2, 100-101	76.20	A	M	C-A					F				X			X			F	
9R-3, 100-101	77.70	A	M-G	C-A					F	F		X							F	
9R-CC, 14-19	79.21	A	G	C-A					F	R						X			R	
10R-1, 25-26	83.35	A	M-G	C-A					F	R									C	
10R-1, 100-101	84.10	A	M-G	C-A					F										F	
10R-2, 25-26	84.85	A	M	R					R	F									F	
10R-2, 100-101	85.60	A	M-G	R-F					R										F	
10R-3, 100-101	87.10	A	M-G	X					R			X				X			C	
10R-CC, 13-18	87.53	A	M-G	X					R			X				R			R	
11R-1, 100-101	93.70	A	M-G	R-F					R			X			F	R			C	
11R-2, 100-101	95.20	A	M-G	R					R						F	R			C	
11R-3, 100-101	96.70	A	M-G	F					F						F	F			F	
11R-4, 100-101	98.20	A	M-G	F					X			X			F	R			F	
11R-5, 100-101	99.70	A	M-G	C											F	R			C	
11R-6, 100-101	101.20	A	M-G	R-F					X						F	R			F	
11R-CC, 9-14	102.39	A	M-G	R					R				R		F	F			C	
12R-1, 100-101	103.30	A	M-G	C	<i>Thalassiosira inura</i>				F	F			X		R	F			F	
12R-2, 100-101	104.80	A	M-G	F					F	X			X			R			F	
12R-3, 100-101	106.30	A	M	A	<i>Nitzschia reinholdii</i>				X	X					F	R			F	
12R-CC, 23-28	107.03	C	M	A					R			X			F	X			F	
13R-1, 100-101	113.00	C	P-M	A					R	R					F				F	
13R-2, 100-101	114.50	A	M	A					F	F		R			R	F			F	
13R-3, 100-101	116.00	A	M-G	A					F			R			R	F			R	
13R-4, 100-101	117.50	C	M	A					F	F					R	F			F	

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Denticulopsis crassa</i>	<i>Denticulopsis dimorpha</i> var. <i>areolata</i>	<i>Denticulopsis dimorpha</i> var. <i>dimorpha</i>	<i>Denticulopsis "hustedtii</i> var. <i>asper"</i>	<i>Denticulopsis hyalina</i>	<i>Denticulopsis maccollumii</i>	<i>Denticulopsis ovata</i>	<i>Denticulopsis praedimorpha</i> var. <i>praedimorpha</i>	<i>Denticulopsis simonsenii</i>	<i>Denticulopsis vulgaris</i>	<i>Diploneis</i> spp.	<i>Drepanotheca</i> spp.	<i>Entomoneis</i> sp.	<i>Entopyla</i> spp.	<i>Eucampia antarctica</i>	<i>Eucampia antarctica</i> var. <i>"twista"</i>										
8R-1, 100–101	65.30	A	M–G	X	<i>Thalassiosira vulnifica</i>											R															
8R-2, 100–101	66.80	A	M–G	F												X															
8R-3, 100–101	68.30	A	M–G	A																											
8R-4, 100–101	69.80	C	P–M	F–C																											
8R-5, 100–101	71.30	A	M	C	<i>Thalassiosira insigna–Thalassiosira vulnifica</i>													X		R											
8R-6, 100–101	72.80	A	M	C–A												X															
8R-CC, 10–15	74.04	C	P–M	R																											
9R-1, 100–101	74.70	A	M–G	A																											
9R-2, 100–101	76.20	A	M	C–A	<i>Fragilariopsis interfrigidaria</i>													X		F											
9R-3, 100–101	77.70	A	M–G	C–A														X		F											
9R-CC, 14–19	79.21	A	G	C–A														X		R											
10R-1, 25–26	83.35	A	M–G	C–A														X													
10R-1, 100–101	84.10	A	M–G	C–A														X													
10R-2, 25–26	84.85	A	M	R															X												
10R-2, 100–101	85.60	A	M–G	R–F													X														
10R-3, 100–101	87.10	A	M–G	X													X														
10R-CC, 13–18	87.53	A	M–G	X																											
11R-1, 100–101	93.70	A	M–G	R–F																											
11R-2, 100–101	95.20	A	M–G	R																X											
11R-3, 100–101	96.70	A	M–G	F																											
11R-4, 100–101	98.20	A	M–G	F																											
11R-5, 100–101	99.70	A	M–G	C												<i>Fragilariopsis barronii</i>										X					
11R-6, 100–101	101.20	A	M–G	R–F																											
11R-CC, 9–14	102.39	A	M–G	R																											
12R-1, 100–101	103.30	A	M–G	C												<i>Thalassiosira inura</i>															R
12R-2, 100–101	104.80	A	M–G	F																											
12R-3, 100–101	106.30	A	M	A	<i>Nitzschia reinholdii</i>																										
12R-CC, 23–28	107.03	C	M	A																											
13R-1, 100–101	113.00	C	P–M	A																											
13R-2, 100–101	114.50	A	M	A																											
13R-3, 100–101	116.00	A	M–G	A																											
13R-4, 100–101	117.50	C	M	A																											

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Denticulopsis crassa</i>	<i>Denticulopsis dimorpha</i> var. <i>areolata</i>	<i>Denticulopsis dimorpha</i> var. <i>dimorpha</i>	<i>Denticulopsis "hustedtii"</i> var. <i>asper</i>	<i>Denticulopsis hyalina</i>	<i>Denticulopsis maccollumii</i>	<i>Denticulopsis ovata</i>	<i>Denticulopsis praedimorpha</i> var. <i>praedimorpha</i>	<i>Denticulopsis simonsenii</i>	<i>Denticulopsis vulgaris</i>	<i>Diploneis</i> spp.	<i>Drepanotheca</i> spp.	<i>Entomoneis</i> sp.	<i>Entopyla</i> spp.	<i>Eucampia antarctica</i>
8R-1, 100–101	65.30	A	M–G	X	<i>Thalassiosira vulnifica</i>			F				C	X							
8R-2, 100–101	66.80	A	M–G	F				C										R		
8R-3, 100–101	68.30	A	M–G	A				C				X						F		
8R-4, 100–101	69.80	C	P–M	F–C				C									R			
8R-5, 100–101	71.30	A	M	C	<i>Thalassiosira insigna</i> – <i>Thalassiosira vulnifica</i>			C				X					R–F	F		
8R-6, 100–101	72.80	A	M	C–A				F				X				R	X			
8R-CC, 10–15	74.04	C	P–M	R				C				R	?				R			
9R-1, 100–101	74.70	A	M–G	A				F										R	R	
9R-2, 100–101	76.20	A	M	C–A	<i>Fragilariopsis interfrigidaria</i>			C										F		
9R-3, 100–101	77.70	A	M–G	C–A				C										R		
9R-CC, 14–19	79.21	A	G	C–A				C										F		
10R-1, 25–26	83.35	A	M–G	C–A				C										C	F	
10R-1, 100–101	84.10	A	M–G	C–A				C										A	R	
10R-2, 25–26	84.85	A	M	R				C										C	R	
10R-2, 100–101	85.60	A	M–G	R–F				C										C		
10R-3, 100–101	87.10	A	M–G	X				A										A		
10R-CC, 13–18	87.53	A	M–G	X				C										C		
11R-1, 100–101	93.70	A	M–G	R–F				C										C		
11R-2, 100–101	95.20	A	M–G	R				C			X							F		
11R-3, 100–101	96.70	A	M–G	F				C			X							R		
11R-4, 100–101	98.20	A	M–G	F				C			X									
11R-5, 100–101	99.70	A	M–G	C				F			X									
11R-6, 100–101	101.20	A	M–G	R–F				C												
11R-CC, 9–14	102.39	A	M–G	R				C												
12R-1, 100–101	103.30	A	M–G	C				C												
12R-2, 100–101	104.80	A	M–G	F																
12R-3, 100–101	106.30	A	M	A	<i>Thalassiosira inura</i>		R	R		X	R									
12R-CC, 23–28	107.03	C	M	A				F			X									
13R-1, 100–101	113.00	C	P–M	A				X					X							R
13R-2, 100–101	114.50	A	M	A				R												R
13R-3, 100–101	116.00	A	M–G	A				X												
13R-4, 100–101	117.50	C	M	A														F		

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Fragilariopsis kerguelensis</i> <i>Fragilariopsis lacrima</i> <i>Fragilariopsis matuyamae</i> <i>Fragilariopsis obliquecostata</i> <i>Fragilariopsis</i> cf. <i>obliquecostata</i>	<i>Fragilariopsis praecurta</i> <i>Fragilariopsis praeinterfrigidaria</i> <i>Fragilariopsis praeinterfrigidaria-interfrigidaria</i> (intermediate) <i>Fragilariopsis pusilla</i> <i>Fragilariopsis pseudonana</i>	<i>Fragilariopsis rhombica</i> <i>Fragilariopsis ritscheri</i> <i>Fragilariopsis</i> cf. <i>ritscheri</i> <i>Fragilariopsis separanda</i> <i>Fragilariopsis weaveri</i>
8R-1, 100–101	65.30	A	M–G	X	<i>Thalassiosira vulnifica</i>	F		
8R-2, 100–101	66.80	A	M–G	F		F		F
8R-3, 100–101	68.30	A	M–G	A		C		
8R-4, 100–101	69.80	C	P–M	F–C	<i>Thalassiosira insigna</i> – <i>Thalassiosira vulnifica</i>	R		
8R-5, 100–101	71.30	A	M	C		R		X
8R-6, 100–101	72.80	A	M	C–A		R		X
8R-CC, 10–15	74.04	C	P–M	R		R		F
9R-1, 100–101	74.70	A	M–G	A	<i>Fragilariopsis interfrigidaria</i>	R		X
9R-2, 100–101	76.20	A	M	C–A		R		C
9R-3, 100–101	77.70	A	M–G	C–A			X	C
9R-CC, 14–19	79.21	A	G	C–A				F
10R-1, 25–26	83.35	A	M–G	C–A				X
10R-1, 100–101	84.10	A	M–G	C–A				
10R-2, 25–26	84.85	A	M	R			R	
10R-2, 100–101	85.60	A	M–G	R–F			X	
10R-3, 100–101	87.10	A	M–G	X			X	
10R-CC, 13–18	87.53	A	M–G	X			R	
11R-1, 100–101	93.70	A	M–G	R–F			R	
11R-2, 100–101	95.20	A	M–G	R			R	
11R-3, 100–101	96.70	A	M–G	F			F	
11R-4, 100–101	98.20	A	M–G	F			F	
11R-5, 100–101	99.70	A	M–G	C	<i>Fragilariopsis barronii</i>		C	
11R-6, 100–101	101.20	A	M–G	R–F			C	
11R-CC, 9–14	102.39	A	M–G	R			C	
12R-1, 100–101	103.30	A	M–G	C	<i>Thalassiosira inura</i>		F	
12R-2, 100–101	104.80	A	M–G	F		X	X	
12R-3, 100–101	106.30	A	M	A	<i>Nitzschia reinholdii</i>		R	
12R-CC, 23–28	107.03	C	M	A			R	
13R-1, 100–101	113.00	C	P–M	A				
13R-2, 100–101	114.50	A	M	A			X	
13R-3, 100–101	116.00	A	M–G	A				
13R-4, 100–101	117.50	C	M	A				

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Hemidiscus</i> sp. cf. <i>H. cuneiformis</i> <i>Hemidiscus karstenii</i> <i>Hemidiscus karstenii</i> f. 1 [Ciesielski, 1983] <i>Hemidiscus triangularis</i> <i>Hemiaulus incusus</i> <i>Hemiaulus</i> spp. <i>Hyalodiscus radiatus</i> <i>Ikebea</i> sp. B [Scherer et al., 2000] <i>Isthmia</i> sp. <i>Lithodesmium minisculum</i>	<i>Navicula directa</i> <i>Navicula</i> spp. <i>Neobrunia mirabilis</i> <i>Nitzschia denticuloides</i> <i>Nitzschia grossepunctata</i>
8R-1, 100–101	65.30	A	M–G	X	<i>Thalassiosira vulnifica</i>		R
8R-2, 100–101	66.80	A	M–G	F			
8R-3, 100–101	68.30	A	M–G	A	<i>Thalassiosira insigna–Thalassiosira vulnifica</i>		
8R-4, 100–101	69.80	C	P–M	F–C			
8R-5, 100–101	71.30	A	M	C	<i>Fragilariopsis interfrigidaria</i>		
8R-6, 100–101	72.80	A	M	C–A			
8R-CC, 10–15	74.04	C	P–M	R			
9R-1, 100–101	74.70	A	M–G	A		A	
9R-2, 100–101	76.20	A	M	C–A		X	
9R-3, 100–101	77.70	A	M–G	C–A			
9R-CC, 14–19	79.21	A	G	C–A			
10R-1, 25–26	83.35	A	M–G	C–A		F	
10R-1, 100–101	84.10	A	M–G	C–A		F	
10R-2, 25–26	84.85	A	M	R		F	
10R-2, 100–101	85.60	A	M–G	R–F		F	
10R-3, 100–101	87.10	A	M–G	X		F	
10R-CC, 13–18	87.53	A	M–G	X		F	
11R-1, 100–101	93.70	A	M–G	R–F		R	
11R-2, 100–101	95.20	A	M–G	R		R	
11R-3, 100–101	96.70	A	M–G	F		X	
11R-4, 100–101	98.20	A	M–G	F	<i>Fragilariopsis barronii</i>		
11R-5, 100–101	99.70	A	M–G	C			
11R-6, 100–101	101.20	A	M–G	R–F	<i>Thalassiosira inura</i>		
11R-CC, 9–14	102.39	A	M–G	R		X	
12R-1, 100–101	103.30	A	M–G	C	<i>Nitzschia reinholdii</i>	R	X X X
12R-2, 100–101	104.80	A	M–G	F		R	
12R-3, 100–101	106.30	A	M	A		R	
12R-CC, 23–28	107.03	C	M	A		R	
13R-1, 100–101	113.00	C	P–M	A		F	
13R-2, 100–101	114.50	A	M	A		R	
13R-3, 100–101	116.00	A	M–G	A		R	
13R-4, 100–101	117.50	C	M	A		X	

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Nitzschia maleinterpretaria</i>	<i>Nitzschia miocenica</i>	<i>Nitzschia panduriformis</i>	<i>Nitzschia reinholdii</i>	<i>Nitzschia</i> sp. 17 [Schrader, 1976]	<i>Paralia sulcata</i>	<i>Porosira pseudodenticulata</i>	<i>Proboscia</i> spp.	<i>Radialiplicata clavigera</i>	<i>Psammolictyon</i> sp.	<i>Raphidodiscus marylandicus</i>	<i>Rhabdonema japonicum</i> group	<i>Rhabdonema/Grammatophora</i> spp.	<i>Rhizosolenia costata</i>	<i>Rhizosolenia hebetata</i> group
8R-1, 100–101	65.30	A	M–G	X	<i>Thalassiosira vulnifica</i>						F									
8R-2, 100–101	66.80	A	M–G	F							C				X					
8R-3, 100–101	68.30	A	M–G	A							C									X
8R-4, 100–101	69.80	C	P–M	F–C	<i>Thalassiosira insigna–Thalassiosira vulnifica</i>						F									
8R-5, 100–101	71.30	A	M	C							F			X						R
8R-6, 100–101	72.80	A	M	C–A							C			R						
8R-CC, 10–15	74.04	C	P–M	R	<i>Fragilariopsis interfrigidaria</i>						F									
9R-1, 100–101	74.70	A	M–G	A				R			F									
9R-2, 100–101	76.20	A	M	C–A							F						R			
9R-3, 100–101	77.70	A	M–G	C–A							F			X	X					
9R-CC, 14–19	79.21	A	G	C–A							F			R						R
10R-1, 25–26	83.35	A	M–G	C–A							F				X					
10R-1, 100–101	84.10	A	M–G	C–A							F									R
10R-2, 25–26	84.85	A	M	R							F				X					R
10R-2, 100–101	85.60	A	M–G	R–F			X				F				R					X
10R-3, 100–101	87.10	A	M–G	X							F									X
10R-CC, 13–18	87.53	A	M–G	X			X				R				X					R
11R-1, 100–101	93.70	A	M–G	R–F			X	R			F		F							X
11R-2, 100–101	95.20	A	M–G	R							F		F							
11R-3, 100–101	96.70	A	M–G	F			X	R			F		F							
11R-4, 100–101	98.20	A	M–G	F	<i>Fragilariopsis barronii</i>		X	F			F		F							R
11R-5, 100–101	99.70	A	M–G	C							R		F–C							R
11R-6, 100–101	101.20	A	M–G	R–F							R		F							
11R-CC, 9–14	102.39	A	M–G	R	<i>Thalassiosira inura</i>		X	F			R		R		X			R		X
12R-1, 100–101	103.30	A	M–G	C							F		F					F		
12R-2, 100–101	104.80	A	M–G	F							F		F					R		R
12R-3, 100–101	106.30	A	M	A	<i>Nitzschia reinholdii</i>		X	F			F		R							R
12R-CC, 23–28	107.03	C	M	A			X	C			F		R							
13R-1, 100–101	113.00	C	P–M	A			F	F			F									R
13R-2, 100–101	114.50	A	M	A			F				R		X							R
13R-3, 100–101	116.00	A	M–G	A			F		R		F		R							R
13R-4, 100–101	117.50	C	M	A			F		R		F		R							F

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Rhizosolenia hebetata</i> f. <i>hiemalis</i> [sensu Schrader, 1976]	<i>Rhizosolenia styliformis</i> group	<i>Rhizosolenia</i> sp. cf. <i>R. sirna</i> f. <i>silicea</i>	<i>Rocella gelida</i>	<i>Rocella gelida</i> var. <i>schraderi</i>	<i>Rocella praenitida</i>	<i>Rocella vigilans</i> var. B [Harwood & Manuyama, 1992]	<i>Rouxia antarctica</i>	<i>Rouxia californica</i>	<i>Rouxia heteropolara</i>	<i>Rouxia isopolica</i>	<i>Rouxia leventerae</i>	<i>Rouxia naviculoides</i>	<i>Rouxia peragalli</i> [sensu Baldauf & Barron, 1991]	<i>Rouxia</i> sp. 1
8R-1, 100–101	65.30	A	M–G	X	<i>Thalassiosira vulnifica</i>	R	R					F					?			
8R-2, 100–101	66.80	A	M–G	F		R						F								
8R-3, 100–101	68.30	A	M–G	A		R						F							X	
8R-4, 100–101	69.80	C	P–M	F–C	<i>Thalassiosira insigna</i> – <i>Thalassiosira vulnifica</i>	X						R								
8R-5, 100–101	71.30	A	M	C		R	X					R								
8R-6, 100–101	72.80	A	M	C–A		X	R					R				X				
8R-CC, 10–15	74.04	C	P–M	R	<i>Fragilariopsis interfrigidaria</i>	R						R							R	
9R-1, 100–101	74.70	A	M–G	A																
9R-2, 100–101	76.20	A	M	C–A																
9R-3, 100–101	77.70	A	M–G	C–A		F														
9R-CC, 14–19	79.21	A	G	C–A		R	X						R							
10R-1, 25–26	83.35	A	M–G	C–A									X					X		
10R-1, 100–101	84.10	A	M–G	C–A		R							R			X		X		
10R-2, 25–26	84.85	A	M	R		R							X					X		
10R-2, 100–101	85.60	A	M–G	R–F		R							R					R		
10R-3, 100–101	87.10	A	M–G	X		X							R							
10R-CC, 13–18	87.53	A	M–G	X		R							R					X		
11R-1, 100–101	93.70	A	M–G	R–F		X							F		X			X		
11R-2, 100–101	95.20	A	M–G	R		X							X			X				
11R-3, 100–101	96.70	A	M–G	F		X							X							
11R-4, 100–101	98.20	A	M–G	F	<i>Fragilariopsis barronii</i>	R							X							
11R-5, 100–101	99.70	A	M–G	C		X							X		R					
11R-6, 100–101	101.20	A	M–G	R–F		R							X		R			F		
11R-CC, 9–14	102.39	A	M–G	R	<i>Thalassiosira inura</i>	R							F		R			R		
12R-1, 100–101	103.30	A	M–G	C		R									R					
12R-2, 100–101	104.80	A	M–G	F		R							X			R				
12R-3, 100–101	106.30	A	M	A	<i>Nitzschia reinholdii</i>	R	R						R						F	
12R-CC, 23–28	107.03	C	M	A		R	R											R	F	
13R-1, 100–101	113.00	C	P–M	A			F													
13R-2, 100–101	114.50	A	M	A		F										X				
13R-3, 100–101	116.00	A	M–G	A		F	R									R				

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Rouxia</i> spp.	<i>Spumorbis annulifer</i>	<i>Stellarima microtrias</i>	<i>Stellarima stellaris</i>	<i>Stephanopyxis</i> spp.	<i>Synedropsis</i> sp. B [Scherer et al., 2000]	<i>Thalassionema nitzschioides</i>	<i>Thalassionema nitzschioides</i> var. <i>parvum</i>	<i>Thalassionema nitzschioides</i> var. 1 [1138A]	<i>Thalassiosira antarctica</i>	<i>Thalassiosira</i> sp. cf. <i>T. antarctica</i>	<i>Thalassiosira complicata</i>	<i>Thalassiosira</i> sp. cf. <i>T. eccentrica</i>	<i>Thalassiosira elliptipora</i>	<i>Thalassiosira fasciculata</i>
8R-1, 100–101	65.30	A	M–G	X	<i>Thalassiosira vulnifica</i>							F								
8R-2, 100–101	66.80	A	M–G	F								F								
8R-3, 100–101	68.30	A	M–G	A								F								
8R-4, 100–101	69.80	C	P–M	F–C	<i>Thalassiosira insigna</i> – <i>Thalassiosira vulnifica</i>		X	X				F	R							
8R-5, 100–101	71.30	A	M	C			X	X			X	C				X				
8R-6, 100–101	72.80	A	M	C–A				R				C								R
8R-CC, 10–15	74.04	C	P–M	R				R				C	R							R
9R-1, 100–101	74.70	A	M–G	A	<i>Fragilariopsis interfrigidaria</i>			F				C								
9R-2, 100–101	76.20	A	M	C–A				F				A								
9R-3, 100–101	77.70	A	M–G	C–A				R				C								
9R-CC, 14–19	79.21	A	G	C–A				X				F								
10R-1, 25–26	83.35	A	M–G	C–A			R	F				F	X				F			
10R-1, 100–101	84.10	A	M–G	C–A			R	F				F					R	?		
10R-2, 25–26	84.85	A	M	R			R	F				R	X				R			
10R-2, 100–101	85.60	A	M–G	R–F			R	F				R	R				R			
10R-3, 100–101	87.10	A	M–G	X				F				X					R			
10R-CC, 13–18	87.53	A	M–G	X			X	R				F					R			
11R-1, 100–101	93.70	A	M–G	R–F				F				R	R				F	X		
11R-2, 100–101	95.20	A	M–G	R				F				R	R				C			
11R-3, 100–101	96.70	A	M–G	F				F				F	X				F	X		
11R-4, 100–101	98.20	A	M–G	F			X	F				F					F			
11R-5, 100–101	99.70	A	M–G	C	<i>Fragilariopsis barronii</i>			F				F		R			F			
11R-6, 100–101	101.20	A	M–G	R–F			X	F				F		F			R			
11R-CC, 9–14	102.39	A	M–G	R			R	R				F		R			F			
12R-1, 100–101	103.30	A	M–G	C	<i>Thalassiosira inura</i>		F	R				F	R				F			
12R-2, 100–101	104.80	A	M–G	F			F	F				F		R			R			
12R-3, 100–101	106.30	A	M	A			X					R	C	X				R		
12R-CC, 23–28	107.03	C	M	A	<i>Nitzschia reinholdii</i>							F	C	X				X		
13R-1, 100–101	113.00	C	P–M	A								R	R			X		R		
13R-2, 100–101	114.50	A	M	A			X					C	R	X				X		
13R-3, 100–101	116.00	A	M–G	A								F	F	R				X		
13R-4, 100–101	117.50	C	M	A								F	F	F				R		

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Thalassiosira gracilis</i>	<i>Thalassiosira insigna</i>	<i>Thalassiosira inura</i>	<i>Thalassiosira jacksonii</i>	<i>Thalassiosira kolbei</i>	<i>Thalassiosira lentiginosa</i>	<i>Thalassiosira lentiginosa</i> var. <i>ovalis</i>	<i>Thalassiosira miocenica</i>	<i>Thalassiosira nansenii</i>	<i>Thalassiosira oliverana</i>	<i>Thalassiosira oliverana</i> var. <i>sparsa</i>	<i>Thalassiosira praepraga</i>	<i>Thalassiosira ritscheri</i>	<i>Thalassiosira striata</i>	<i>Thalassiosira tetraoestrupii</i> group
8R-1, 100–101	65.30	A	M–G	X	<i>Thalassiosira vulnifica</i>					F	R				R					F
8R-2, 100–101	66.80	A	M–G	F						F	R	X			F					F
8R-3, 100–101	68.30	A	M–G	A				R		F	F	X			F					F
8R-4, 100–101	69.80	C	P–M	F–C	<i>Thalassiosira insigna</i> – <i>Thalassiosira vulnifica</i>	X				F	R	R			C					F
8R-5, 100–101	71.30	A	M	C		X	X			F	F	X			C					C
8R-6, 100–101	72.80	A	M	C–A		X				F		X			C					F
8R-CC, 10–15	74.04	C	P–M	R		C				R	F	R			F					X
9R-1, 100–101	74.70	A	M–G	A	<i>Fragilariopsis interfrigidaria</i>	?	F	R		F	F	R			F					R
9R-2, 100–101	76.20	A	M	C–A			R	F		F	R	R			F					R
9R-3, 100–101	77.70	A	M–G	C–A			F	F		F	R	R			F					R
9R-CC, 14–19	79.21	A	G	C–A				F		F	X				F					R
10R-1, 25–26	83.35	A	M–G	C–A				F		F	?				F				R	R
10R-1, 100–101	84.10	A	M–G	C–A				F		F	?				F			F	F	
10R-2, 25–26	84.85	A	M	R				F		F					F				F	
10R-2, 100–101	85.60	A	M–G	R–F				F		F	?				F			R	R	
10R-3, 100–101	87.10	A	M–G	X				F		F	?				F			R	R	
10R-CC, 13–18	87.53	A	M–G	X				F		F	?				F			R	R	
11R-1, 100–101	93.70	A	M–G	R–F				R		F	?				R			R	R	
11R-2, 100–101	95.20	A	M–G	R				F		F	?				F			R	X	
11R-3, 100–101	96.70	A	M–G	F				F		R	?				F			R		
11R-4, 100–101	98.20	A	M–G	F				F			?				F			R		
11R-5, 100–101	99.70	A	M–G	C				F			?				F			R		
11R-6, 100–101	101.20	A	M–G	R–F				F			?				F			R	R	
11R-CC, 9–14	102.39	A	M–G	R				F	?		?				F			F	R	
12R-1, 100–101	103.30	A	M–G	C	<i>Thalassiosira inura</i>			F		?					F				F	
12R-2, 100–101	104.80	A	M–G	F				R	R						F				R	
12R-3, 100–101	106.30	A	M	A										X	R					
12R-CC, 23–28	107.03	C	M	A	<i>Nitzschia reinholdii</i>								X							
13R-1, 100–101	113.00	C	P–M	A					X						X	R	F			
13R-2, 100–101	114.50	A	M	A													F			
13R-3, 100–101	116.00	A	M–G	A					R						R					
13R-4, 100–101	117.50	C	M	A											R	R				

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Thalassiosira tetraoestrupii</i> var. <i>reimeri</i>	<i>Thalassiosira torokina</i> ("early" form)	<i>Thalassiosira trifulta</i>	<i>Thalassiosira tumida</i>	<i>Thalassiosira vulnifica</i>	<i>Thalassiosira</i> sp. 1 [1138A]	<i>Thalassiosira</i> spp.	<i>Trichotoxon/Thalassiothrix</i> spp.	<i>Trinacria excavata</i>	Ebridians	<i>Ammodochium rectangulare</i>	<i>Ebriopsis cornuta</i>	<i>Falsebria ambigua</i>	<i>Pseudammodochium sphericum</i> (single skeleton)
8R-1, 100–101	65.30	A	M–G	X	<i>Thalassiosira vulnifica</i>	R				F	R	F							
8R-2, 100–101	66.80	A	M–G	F		R			R	F	R	F							
8R-3, 100–101	68.30	A	M–G	A			X		X	R	R	F							
8R-4, 100–101	69.80	C	P–M	F–C		R				F	R	F							
8R-5, 100–101	71.30	A	M	C	<i>Thalassiosira insigna</i> – <i>Thalassiosira vulnifica</i>		F			F		F							
8R-6, 100–101	72.80	A	M	C–A						C	R	F							
8R-CC, 10–15	74.04	C	P–M	R						F		F							
9R-1, 100–101	74.70	A	M–G	A								F							
9R-2, 100–101	76.20	A	M	C–A	<i>Fragilariopsis interfrigidaria</i>	R					F	F	F						
9R-3, 100–101	77.70	A	M–G	C–A		X					F	F	R				X		
9R-CC, 14–19	79.21	A	G	C–A							R	F	F				X		
10R-1, 25–26	83.35	A	M–G	C–A								C	C						
10R-1, 100–101	84.10	A	M–G	C–A								C	F				X		
10R-2, 25–26	84.85	A	M	R								C	C						
10R-2, 100–101	85.60	A	M–G	R–F								C	C						
10R-3, 100–101	87.10	A	M–G	X					R			C	C						
10R-CC, 13–18	87.53	A	M–G	X					R	d		F	F						
11R-1, 100–101	93.70	A	M–G	R–F								F	C						
11R-2, 100–101	95.20	A	M–G	R					F			C	C						
11R-3, 100–101	96.70	A	M–G	F					R			C					X		
11R-4, 100–101	98.20	A	M–G	F								R	R						
11R-5, 100–101	99.70	A	M–G	C			F		R			C	C				R		
11R-6, 100–101	101.20	A	M–G	R–F					R			F	F				R		
11R-CC, 9–14	102.39	A	M–G	R					R			F	F				R		
12R-1, 100–101	103.30	A	M–G	C			X		R			F							
12R-2, 100–101	104.80	A	M–G	F			X		R			F							
12R-3, 100–101	106.30	A	M	A	<i>Thalassiosira inura</i>														
12R-CC, 23–28	107.03	C	M	A									F						
13R-1, 100–101	113.00	C	P–M	A									F					X	
13R-2, 100–101	114.50	A	M	A									F						
13R-3, 100–101	116.00	A	M–G	A								R	F						
13R-4, 100–101	117.50	C	M	A	<i>Nitzschia reinholdii</i>								F						

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	Endoskeletal dinoflagellates <i>Actiniscus pentasterias</i> <i>Cardulifolia gracilis</i> <i>Foliactiniscus mirabilis</i>
8R-1, 100–101	65.30	A	M–G	X	<i>Thalassiosira vulnifica</i>	X
8R-2, 100–101	66.80	A	M–G	F		X
8R-3, 100–101	68.30	A	M–G	A		
8R-4, 100–101	69.80	C	P–M	F–C	<i>Thalassiosira insigna</i> – <i>Thalassiosira vulnifica</i>	
8R-5, 100–101	71.30	A	M	C		
8R-6, 100–101	72.80	A	M	C–A		
8R-CC, 10–15	74.04	C	P–M	R		R
9R-1, 100–101	74.70	A	M–G	A	<i>Fragilariopsis interfrigidaria</i>	
9R-2, 100–101	76.20	A	M	C–A		
9R-3, 100–101	77.70	A	M–G	C–A		
9R-CC, 14–19	79.21	A	G	C–A		
10R-1, 25–26	83.35	A	M–G	C–A		R
10R-1, 100–101	84.10	A	M–G	C–A		R
10R-2, 25–26	84.85	A	M	R		R
10R-2, 100–101	85.60	A	M–G	R–F		R
10R-3, 100–101	87.10	A	M–G	X		R
10R-CC, 13–18	87.53	A	M–G	X		R
11R-1, 100–101	93.70	A	M–G	R–F		F
11R-2, 100–101	95.20	A	M–G	R		X
11R-3, 100–101	96.70	A	M–G	F		R
11R-4, 100–101	98.20	A	M–G	F	<i>Fragilariopsis barronii</i>	F
11R-5, 100–101	99.70	A	M–G	C		R
11R-6, 100–101	101.20	A	M–G	R–F		R
11R-CC, 9–14	102.39	A	M–G	R		R
12R-1, 100–101	103.30	A	M–G	C	<i>Thalassiosira inura</i>	R
12R-2, 100–101	104.80	A	M–G	F	— — — — —	R
12R-3, 100–101	106.30	A	M	A	<i>Nitzschia reinholdii</i>	X
12R-CC, 23–28	107.03	C	M	A		R
13R-1, 100–101	113.00	C	P–M	A		R
13R-2, 100–101	114.50	A	M	A		F
13R-3, 100–101	116.00	A	M–G	A		F
13R-4, 100–101	117.50	C	M	A		R

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	Diatoms <i>Actinocyclus actinochilus</i> <i>Actinocyclus curvatulus</i> <i>Actinocyclus dimorphus</i> <i>Actinocyclus fasciculatus</i> <i>Actinocyclus ingens</i> <i>Actinocyclus ingens</i> var. <i>nodus</i> <i>Actinocyclus ingens</i> var. <i>ovalis</i> <i>Actinocyclus ingens</i> var. 1 [1138A] <i>Actinocyclus ingens</i> var. 2 [1138A]	
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Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Araniscus lewisianus</i> <i>Asterolampra tela</i> <i>Asteromphalus kennettii</i> <i>Asteromphalus oligocenicus</i> <i>Asteromphalus parvulus/hookeri</i>	<i>Asteromphalus symmetricus</i> <i>Azpetia gombosi</i> <i>Azpetia harwoodii</i> <i>Azpetia tabularis</i> <i>Bogorovia gombosii</i>	<i>Bogorovia veniamini</i> <i>Cavitatus jouseanus</i> <i>Cavitatus miocenicus</i> <i>Cavitatus rectus</i> <i>Cestodiscus pulchellus</i>
13R-CC, 19–24	118.59	C	P–M	C	<i>Actinocyclus ingens</i> var. <i>ovalis</i>	R R F		
14R-1, 52–53	122.12	C	P	A				
14R-2, 50–51	123.60	C	P	A				
14R-3, 50–51	125.10	C	P–M	A				
15R-CC, 15–20	134.23	A	G	A				
16R-CC, 13–18	145.85	A	M–G	A	<i>Asteromphalus kennettii</i> / <i>Denticulopsis simonsenii</i>		F F F F	
17R-2, 50–51	152.50	A	M	A				
17R-4, 50–51	155.50	A	M	A				
17R-CC, 5–10	158.27	A	M	A				
18R-1, 50–51	160.60	A	M	A				
18R-2, 50–51	162.10	A	M	A	<i>Denticulopsis dimorpha</i>		R R F R F F R F	
18R-3, 50–51	163.60	A	M	A				
18R-4, 50–51	165.10	A	M	A				
18R-5, 50–51	166.60	A	M	A				
18R-6, 50–51	168.10	A	M	A				
18R-CC, 0–7	168.84	A	G	A				
19R-1, 50–51	170.20	A	M	A				
19R-2, 50–51	171.70	C–A	M	A				
19R-3, 50–51	173.20	A	M	A				
19R-CC, 15–20	174.75	A	M	A				
20R-2, 50–51	181.30	C	P	A	<i>Denticulopsis praedimorpha</i>		X	
20R-4, 50–51	184.30	C	P–M	A	<i>Nitzschia denticuloides</i>		R	
20R-CC, 12–17	186.14	C	P	A			X	
21R-CC, 15–20	191.26	C	P–M	A	<i>Actinocyclus ingens</i> var. <i>nodus</i>	F		R
22R-CC, 0–5	201.60	C	P	A	<i>Nitzschia grossepunctata</i> / <i>Actinocyclus ingens</i> – <i>Denticulopsis maccollumii</i>		X	
23R-CC, 0–5	210.85	A	M	A	<i>Denticulopsis maccollumii</i>	R	F	C
24R-CC, 11–16	221.34	R	P	A	<i>Crucidenticula kanayae</i> / <i>Thalassiosira praefraga</i> “c”			R
25R-CC, 12–17	230.02	R	P	A				X
26R-CC, 0–5	239.85	F	P	A	<i>Thalassiosira praefraga</i> “a–b”	fr X	X	F
27R-CC, 0–5	248.71	F	P	A				F X
28R-CC, 0–10	261.81	F	P	A	<i>Thalassiosira spumellaroides</i>	F X	R ? X	F R R F

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Chaetoceros bulbosum</i>	<i>Chaetoceros lorenzianus</i>	<i>Chaetoceros</i> sp. A [Harwood & Maruyama, 1992]	<i>Chaetoceros</i> spp. (spores)	<i>Chaetoceros</i> spp. (small vegetative cells)	<i>Cestodiscus</i> spp.	<i>Cocconeis</i> spp.	<i>Corethron criophilum</i>	<i>"Coscinodiscus" rhombicus</i>	<i>Coscinodiscus marginatus</i>	<i>Coscinodiscus</i> spp.	<i>Crucidentacula ikebei</i>	<i>Crucidentacula nicobarica</i>	<i>Dactyliosolen antarcticus</i> (girdle band ends)	<i>"Denticula"</i> sp. cf. <i>D. norvegica</i>
13R-CC, 19–24	118.59	C	P–M	C	<i>Actinocyclus ingens</i> var. <i>ovalis</i>				F	F			R		F	R			R	
14R-1, 52–53	122.12	C	P	A					F	R					C	X				
14R-2, 50–51	123.60	C	P	A					F	F		X			F	R			C	
14R-3, 50–51	125.10	C	P–M	A					R						F–C	R			F	
15R-CC, 15–20	134.23	A	G	A					F			R			F	F			F	
16R-CC, 13–18	145.85	A	M–G	A	<i>Asteromphalus kennettii</i> / <i>Denticulopsis simonsenii</i>				R						F	R			R	
17R-2, 50–51	152.50	A	M	A											R	R			C	
17R-4, 50–51	155.50	A	M	A					X						F–C	F			R	
17R-CC, 5–10	158.27	A	M	A					R						F	F			R	
18R-1, 50–51	160.60	A	M	A											C	F				
18R-2, 50–51	162.10	A	M	A	<i>Denticulopsis dimorpha</i>										F	R			X	
18R-3, 50–51	163.60	A	M	A											C	R				
18R-4, 50–51	165.10	A	M	A											R	F				
18R-5, 50–51	166.60	A	M	A					X						X	F			F	
18R-6, 50–51	168.10	A	M	A						R						R–F			R	
18R-CC, 0–7	168.84	A	G	A											F	F			R	
19R-1, 50–51	170.20	A	M	A											X	X			R	
19R-2, 50–51	171.70	C–A	M	A					X						F					
19R-3, 50–51	173.20	A	M	A											F					
19R-CC, 15–20	174.75	A	M	A											F	F				
20R-2, 50–51	181.30	C	P	A	<i>Denticulopsis praedimorpha</i>				X	X					R	X		X		
20R-4, 50–51	184.30	C	P–M	A	<i>Nitzschia denticuloides</i>				X						R	R		F–C		
20R-CC, 12–17	186.14	C	P	A											R	R		F	R	
21R-CC, 15–20	191.26	C	P–M	A	<i>Actinocyclus ingens</i> var. <i>nodus</i>										R				R	
22R-CC, 0–5	201.60	C	P	A	<i>Nitzschia grossepunctata</i> / <i>Actinocyclus ingens</i> – <i>Denticulopsis maccollumii</i>										F					
23R-CC, 0–5	210.85	A	M	A	<i>Denticulopsis maccollumii</i>								R		F	R	R		R	X
24R-CC, 11–16	221.34	R	P	A	<i>Crucidentacula kanayae</i> / <i>Thalassiosira praefraga</i> "c"				X						R	X				
25R-CC, 12–17	230.02	R	P	A	<i>Thalassiosira praefraga</i> "a–b"										R	X				
26R-CC, 0–5	239.85	F	P	A											F	R				
27R-CC, 0–5	248.71	F	P	A										R	F	R				
28R-CC, 0–10	261.81	F	P	A	<i>Thalassiosira spumellaroides</i>						F		F	F					X	

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Denticulopsis crassa</i> <i>Denticulopsis dimorpha</i> var. <i>areolata</i> <i>Denticulopsis dimorpha</i> var. <i>dimorpha</i> <i>Denticulopsis "hustedtii" var. asper"</i> <i>Denticulopsis hyalina</i>	<i>Denticulopsis maccollumii</i> <i>Denticulopsis ovata</i> <i>Denticulopsis praedimorpha</i> var. <i>praedimorpha</i> <i>Denticulopsis simonsenii</i> <i>Denticulopsis vulgaris</i>	<i>Diploneis</i> spp. <i>Drepanotheca</i> spp. <i>Entomoneis</i> sp. <i>Entopyla</i> spp. <i>Eucampia antarctica</i> <i>Eucampia antarctica</i> var. <i>"twista"</i>
13R-CC, 19–24	118.59	C	P–M	C	<i>Actinocyclus ingens</i> var. <i>ovalis</i>		F	
14R-1, 52–53	122.12	C	P	A			F–C	
14R-2, 50–51	123.60	C	P	A			F	
14R-3, 50–51	125.10	C	P–M	A		C	C	
15R-CC, 15–20	134.23	A	G	A			?	
16R-CC, 13–18	145.85	A	M–G	A	<i>Asteromphalus kennettii</i> / <i>Denticulopsis simonsenii</i>	R r?	F F	R
17R-2, 50–51	152.50	A	M	A		R	F F	
17R-4, 50–51	155.50	A	M	A		R	R F	
17R-CC, 5–10	158.27	A	M	A		X R	F R	
18R-1, 50–51	160.60	A	M	A		X A R	R–C F	
18R-2, 50–51	162.10	A	M	A	<i>Denticulopsis dimorpha</i>	X A F	R F R–F	
18R-3, 50–51	163.60	A	M	A		X A R	X X	
18R-4, 50–51	165.10	A	M	A		R–F A R–F	F	
18R-5, 50–51	166.60	A	M	A		F A R	? F	X
18R-6, 50–51	168.10	A	M	A		R A X	X F	
18R-CC, 0–7	168.84	A	G	A		? A R	F	
19R-1, 50–51	170.20	A	M	A		X A R	R F–C	
19R-2, 50–51	171.70	C–A	M	A		A X	R F	
19R-3, 50–51	173.20	A	M	A		A X	R R	
19R-CC, 15–20	174.75	A	M	A		A R	R F	
20R-2, 50–51	181.30	C	P	A	<i>Denticulopsis praedimorpha</i>		X–R F	X X
20R-4, 50–51	184.30	C	P–M	A	<i>Nitzschia denticuloides</i>		F	
20R-CC, 12–17	186.14	C	P	A		F	R	
21R-CC, 15–20	191.26	C	P–M	A	<i>Actinocyclus ingens</i> var. <i>nodus</i>			
22R-CC, 0–5	201.60	C	P	A	<i>Nitzschia grossepunctata</i> / <i>Actinocyclus ingens</i> – <i>Denticulopsis maccollumii</i>	d?	C	
23R-CC, 0–5	210.85	A	M	A	<i>Denticulopsis maccollumii</i>		A	X
24R-CC, 11–16	221.34	R	P	A	<i>Crucidenticula kanayae</i> / <i>Thalassiosira praeфрага</i> "c"	d?		
25R-CC, 12–17	230.02	R	P	A				
26R-CC, 0–5	239.85	F	P	A	<i>Thalassiosira praeфрага</i> "a–b"			
27R-CC, 0–5	248.71	F	P	A				
28R-CC, 0–10	261.81	F	P	A	<i>Thalassiosira spumellaroides</i>			

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Ethmodiscus</i> sp. <i>Fragilariopsis arcula</i> <i>Fragilariopsis aurica</i> <i>Fragilariopsis barronii</i> <i>Fragilariopsis</i> sp. cf. <i>F. barronii</i> <i>Fragilariopsis clementia</i> <i>Fragilariopsis curta</i> <i>Fragilariopsis cylindrus</i> <i>Fragilariopsis donahuensis</i> <i>Fragilariopsis efferans</i> <i>Fragilariopsis fossilis</i> <i>Fragilariopsis heardensis</i> <i>Fragilariopsis interfrigidaria</i> <i>Fragilariopsis interfrigidaria-weaveri</i> (intermediate) <i>Fragilariopsis januaria</i>
13R-CC, 19–24	118.59	C	P–M	C	<i>Actinocyclus ingens</i> var. <i>ovalis</i>	
14R-1, 52–53	122.12	C	P	A		
14R-2, 50–51	123.60	C	P	A		R
14R-3, 50–51	125.10	C	P–M	A		X
15R-CC, 15–20	134.23	A	G	A		X
16R-CC, 13–18	145.85	A	M–G	A	<i>Asteromphalus kennettii</i> / <i>Denticulopsis simonsenii</i>	R
17R-2, 50–51	152.50	A	M	A		X
17R-4, 50–51	155.50	A	M	A		
17R-CC, 5–10	158.27	A	M	A		
18R-1, 50–51	160.60	A	M	A		
18R-2, 50–51	162.10	A	M	A	<i>Denticulopsis dimorpha</i>	X
18R-3, 50–51	163.60	A	M	A		
18R-4, 50–51	165.10	A	M	A		
18R-5, 50–51	166.60	A	M	A		
18R-6, 50–51	168.10	A	M	A		
18R-CC, 0–7	168.84	A	G	A		
19R-1, 50–51	170.20	A	M	A		
19R-2, 50–51	171.70	C–A	M	A		
19R-3, 50–51	173.20	A	M	A	<i>Denticulopsis praedimorpha</i> – <i>Nitzschia denticuloides</i>	
19R-CC, 15–20	174.75	A	M	A	<i>Denticulopsis praedimorpha</i>	
20R-2, 50–51	181.30	C	P	A	<i>Nitzschia denticuloides</i>	R
20R-4, 50–51	184.30	C	P–M	A		
20R-CC, 12–17	186.14	C	P	A		
21R-CC, 15–20	191.26	C	P–M	A	<i>Actinocyclus ingens</i> var. <i>nodus</i>	
22R-CC, 0–5	201.60	C	P	A	<i>Nitzschia grossepunctata</i> / <i>Actinocyclus ingens</i> – <i>Denticulopsis maccollumii</i>	
23R-CC, 0–5	210.85	A	M	A	<i>Denticulopsis maccollumii</i>	
24R-CC, 11–16	221.34	R	P	A	<i>Crucidenticula kanayae</i> / <i>Thalassiosira praeфрага</i> “c”	
25R-CC, 12–17	230.02	R	P	A		
26R-CC, 0–5	239.85	F	P	A	<i>Thalassiosira praeфрага</i> “a–b”	
27R-CC, 0–5	248.71	F	P	A		
28R-CC, 0–10	261.81	F	P	A	<i>Thalassiosira spumellaroides</i>	

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Fragilariopsis kerguelensis</i> <i>Fragilariopsis lacrima</i> <i>Fragilariopsis matuyamae</i> <i>Fragilariopsis obliquecostata</i> <i>Fragilariopsis</i> cf. <i>obliquecostata</i> <i>Fragilariopsis praecurta</i> <i>Fragilariopsis praeinterfrigidaria</i> <i>Fragilariopsis praeinterfrigidaria-interfrigidaria</i> (intermediate) <i>Fragilariopsis pusilla</i> <i>Fragilariopsis pseudonana</i> <i>Fragilariopsis rhombica</i> <i>Fragilariopsis ritscheri</i> <i>Fragilariopsis</i> cf. <i>ritscheri</i> <i>Fragilariopsis separanda</i> <i>Fragilariopsis weaveri</i>
13R-CC, 19–24	118.59	C	P–M	C	<i>Actinocyclus ingens</i> var. <i>ovalis</i>	
14R-1, 52–53	122.12	C	P	A		F ? F
14R-2, 50–51	123.60	C	P	A		X
14R-3, 50–51	125.10	C	P–M	A		R–F
15R-CC, 15–20	134.23	A	G	A		F
16R-CC, 13–18	145.85	A	M–G	A	<i>Asteromphalus kennettii</i> / <i>Denticulopsis simonsenii</i>	F
17R-2, 50–51	152.50	A	M	A		
17R-4, 50–51	155.50	A	M	A		X
17R-CC, 5–10	158.27	A	M	A		
18R-1, 50–51	160.60	A	M	A		
18R-2, 50–51	162.10	A	M	A	<i>Denticulopsis dimorpha</i>	
18R-3, 50–51	163.60	A	M	A		
18R-4, 50–51	165.10	A	M	A		
18R-5, 50–51	166.60	A	M	A		
18R-6, 50–51	168.10	A	M	A		
18R-CC, 0–7	168.84	A	G	A		
19R-1, 50–51	170.20	A	M	A		
19R-2, 50–51	171.70	C–A	M	A		
19R-3, 50–51	173.20	A	M	A		
19R-CC, 15–20	174.75	A	M	A		
20R-2, 50–51	181.30	C	P	A	<i>Denticulopsis praedimorpha</i>	
20R-4, 50–51	184.30	C	P–M	A	<i>Nitzschia denticuloides</i>	
20R-CC, 12–17	186.14	C	P	A		
21R-CC, 15–20	191.26	C	P–M	A	<i>Actinocyclus ingens</i> var. <i>nodus</i>	
22R-CC, 0–5	201.60	C	P	A	<i>Nitzschia grossepunctata</i> / <i>Actinocyclus ingens</i> – <i>Denticulopsis maccollumii</i>	
23R-CC, 0–5	210.85	A	M	A	<i>Denticulopsis maccollumii</i>	
24R-CC, 11–16	221.34	R	P	A	<i>Crucidenticula kanayae</i> / <i>Thalassiosira praefraga</i> “c”	
25R-CC, 12–17	230.02	R	P	A		
26R-CC, 0–5	239.85	F	P	A	<i>Thalassiosira praefraga</i> “a–b”	
27R-CC, 0–5	248.71	F	P	A		
28R-CC, 0–10	261.81	F	P	A	<i>Thalassiosira spumellaroides</i>	

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Hemidiscus</i> sp. cf. <i>H. cuneiformis</i>	<i>Hemidiscus</i> karstenii	<i>Hemidiscus</i> karstenii f. 1 [Ciesielski, 1983]	<i>Hemidiscus</i> triangularis	<i>Hemiaulus</i> incusus	<i>Hemiaulus</i> spp.	<i>Hyalodiscus</i> radiatus	<i>Ikebea</i> sp. B [Scherer et al., 2000]	<i>Isthmia</i> sp.	<i>Lithodesmium</i> minisculum	<i>Navicula</i> directa	<i>Navicula</i> spp.	<i>Neobrunia</i> mirabilis	<i>Nitzschia</i> denticuloides	<i>Nitzschia</i> grossepunctata
13R-CC, 19–24	118.59	C	P–M	C	<i>Actinocyclus ingens</i> var. <i>ovalis</i>			R				R								
14R-1, 52–53	122.12	C	P	A			X	X												
14R-2, 50–51	123.60	C	P	A																
14R-3, 50–51	125.10	C	P–M	A		X														
15R-CC, 15–20	134.23	A	G	A				R											fr	
16R-CC, 13–18	145.85	A	M–G	A	<i>Asteromphalus kennettii</i> / <i>Denticulopsis simonsenii</i>	R													fr	
17R-2, 50–51	152.50	A	M	A		X														
17R-4, 50–51	155.50	A	M	A																
17R-CC, 5–10	158.27	A	M	A															fr	
18R-1, 50–51	160.60	A	M	A																
18R-2, 50–51	162.10	A	M	A	<i>Denticulopsis dimorpha</i>															
18R-3, 50–51	163.60	A	M	A																
18R-4, 50–51	165.10	A	M	A																
18R-5, 50–51	166.60	A	M	A																
18R-6, 50–51	168.10	A	M	A																
18R-CC, 0–7	168.84	A	G	A																
19R-1, 50–51	170.20	A	M	A																
19R-2, 50–51	171.70	C–A	M	A															R	
19R-3, 50–51	173.20	A	M	A	<i>Denticulopsis praedimorpha</i> – <i>Nitzschia denticuloides</i>														F	
19R-CC, 15–20	174.75	A	M	A															C	
20R-2, 50–51	181.30	C	P	A	<i>Denticulopsis praedimorpha</i>														F–C	R
20R-4, 50–51	184.30	C	P–M	A	<i>Nitzschia denticuloides</i>														C	R
20R-CC, 12–17	186.14	C	P	A															R	F
21R-CC, 15–20	191.26	C	P–M	A	<i>Actinocyclus ingens</i> var. <i>nodus</i>															
22R-CC, 0–5	201.60	C	P	A	<i>Nitzschia grossepunctata</i> / <i>Actinocyclus ingens</i> – <i>Denticulopsis</i> <i>maccollumii</i>															
23R-CC, 0–5	210.85	A	M	A	<i>Denticulopsis maccollumii</i>															
24R-CC, 11–16	221.34	R	P	A	<i>Crucidenticula kanayae</i> / <i>Thalassiosira praefraga</i> “c”															
25R-CC, 12–17	230.02	R	P	A																
26R-CC, 0–5	239.85	F	P	A	<i>Thalassiosira praefraga</i> “a–b”					r		X								
27R-CC, 0–5	248.71	F	P	A																
28R-CC, 0–10	261.81	F	P	A	<i>Thalassiosira spumellaroides</i>						X	R								

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Nitzschia maleinterpretaria</i>	<i>Nitzschia miocenica</i>	<i>Nitzschia panduriformis</i>	<i>Nitzschia reinholdii</i>	<i>Nitzschia</i> sp. 17 [Schrader, 1976]	<i>Paralia sulcata</i>	<i>Porosira pseudodenticulata</i>	<i>Proboscia</i> spp.	<i>Radialiplicata clavigera</i>	<i>Psammolictyon</i> sp.	<i>Raphidodiscus marylandicus</i>	<i>Rhabdonema japonicum</i> group	<i>Rhabdonema/Grammatophora</i> spp.	<i>Rhizosolenia costata</i>	<i>Rhizosolenia hebetata</i> group
13R-CC, 19–24	118.59	C	P–M	C	<i>Actinocyclus ingens</i> var. <i>ovalis</i>	R	R				F	R								R
14R-1, 52–53	122.12	C	P	A							F									R
14R-2, 50–51	123.60	C	P	A							F									R
14R-3, 50–51	125.10	C	P–M	A							X									R
15R-CC, 15–20	134.23	A	G	A									F							R
16R-CC, 13–18	145.85	A	M–G	A	<i>Asteromphalus kennettii</i> / <i>Denticulopsis simonsenii</i>							R								R
17R-2, 50–51	152.50	A	M	A																R
17R-4, 50–51	155.50	A	M	A																F
17R-CC, 5–10	158.27	A	M	A																R
18R-1, 50–51	160.60	A	M	A																
18R-2, 50–51	162.10	A	M	A	<i>Denticulopsis dimorpha</i>								X							X
18R-3, 50–51	163.60	A	M	A									X							X
18R-4, 50–51	165.10	A	M	A																R
18R-5, 50–51	166.60	A	M	A									X							R
18R-6, 50–51	168.10	A	M	A																R
18R-CC, 0–7	168.84	A	G	A	<i>Denticulopsis praedimorpha</i> – <i>Nitzschia denticuloides</i>								X							X
19R-1, 50–51	170.20	A	M	A																X
19R-2, 50–51	171.70	C–A	M	A																R
19R-3, 50–51	173.20	A	M	A																R
19R-CC, 15–20	174.75	A	M	A																R
20R-2, 50–51	181.30	C	P	A	<i>Denticulopsis praedimorpha</i>															X
20R-4, 50–51	184.30	C	P–M	A	<i>Nitzschia denticuloides</i>															X
20R-CC, 12–17	186.14	C	P	A							R	R								R
21R-CC, 15–20	191.26	C	P–M	A	<i>Actinocyclus ingens</i> var. <i>nodus</i>							X								
22R-CC, 0–5	201.60	C	P	A	<i>Nitzschia grossepunctata</i> / <i>Actinocyclus ingens</i> – <i>Denticulopsis maccollumii</i>					R		X								R
23R-CC, 0–5	210.85	A	M	A	<i>Denticulopsis maccollumii</i>	X			X							F				R
24R-CC, 11–16	221.34	R	P	A	<i>Crucidenticula kanayae</i> / <i>Thalassiosira praepraga</i> “c”															
25R-CC, 12–17	230.02	R	P	A																
26R-CC, 0–5	239.85	F	P	A	<i>Thalassiosira praepraga</i> “a–b”															
27R-CC, 0–5	248.71	F	P	A																
28R-CC, 0–10	261.81	F	P	A	<i>Thalassiosira spumellaroides</i>	F														X

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	Rhizosolenia hebetata f. hiemalis [sensu Schrader, 1976]	Rhizosolenia styliformis group	Rhizosolenia sp. cf. R. sima f. silicea	Rocella gelida	Rocella gelida var. schraderi	Rocella praenitida	Rocella vigilans var. B [Harwood & Maruyama, 1992]	Rouxia antarctica	Rouxia californica	Rouxia heteropolara	Rouxia isopolica	Rouxia leventerae	Rouxia naviculoides	Rouxia peragalli [sensu Baldauf & Barron, 1991]	Rouxia sp. 1	
13R-CC, 19–24	118.59	C	P–M	C	Actinocyclus ingens var. ovalis	F	R						X			R		R			
14R-1, 52–53	122.12	C	P	A		F–C								X					X		
14R-2, 50–51	123.60	C	P	A		R								X			F				
14R-3, 50–51	125.10	C	P–M	A		R	X										R				
15R-CC, 15–20	134.23	A	G	A		F	F														
16R-CC, 13–18	145.85	A	M–G	A	Asteromphalus kennettii/Denticulopsis simonsenii	F	R														
17R-2, 50–51	152.50	A	M	A		F–C	X														
17R-4, 50–51	155.50	A	M	A		F–C															
17R-CC, 5–10	158.27	A	M	A		R	R														
18R-1, 50–51	160.60	A	M	A		Denticulopsis dimorpha	X														
18R-2, 50–51	162.10	A	M	A	X																
18R-3, 50–51	163.60	A	M	A	R–F																
18R-4, 50–51	165.10	A	M	A	F		X														
18R-5, 50–51	166.60	A	M	A	R																
18R-6, 50–51	168.10	A	M	A	X																
18R-CC, 0–7	168.84	A	G	A	X																
19R-1, 50–51	170.20	A	M	A	X																
19R-2, 50–51	171.70	C–A	M	A	Denticulopsis praedimorpha–Nitzschia denticuloides																
19R-3, 50–51	173.20	A	M	A																	
19R-CC, 15–20	174.75	A	M	A			R														
20R-2, 50–51	181.30	C	P	A		Denticulopsis praedimorpha		X													
20R-4, 50–51	184.30	C	P–M	A		Nitzschia denticuloides															
20R-CC, 12–17	186.14	C	P	A			X														
21R-CC, 15–20	191.26	C	P–M	A	Actinocyclus ingens var. nodus																
22R-CC, 0–5	201.60	C	P	A	Nitzschia grossepunctata/Actinocyclus ingens–Denticulopsis maccollumii																
23R-CC, 0–5	210.85	A	M	A	Denticulopsis maccollumii							X									
24R-CC, 11–16	221.34	R	P	A	Crucidenticula kanayae/Thalassiosira praeфрага “c”																
25R-CC, 12–17	230.02	R	P	A																	
26R-CC, 0–5	239.85	F	P	A	Thalassiosira praeфрага “a–b”																
27R-CC, 0–5	248.71	F	P	A								r									
28R-CC, 0–10	261.81	F	P	A	Thalassiosira spumellaroides						X										

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Rouxia</i> spp.	<i>Spumorbis annulifer</i>	<i>Stellarima microtrias</i>	<i>Stellarima stellaris</i>	<i>Stephanopyxis</i> spp.	<i>Synedropsis</i> sp. B [Scherer et al., 2000]	<i>Thalassionema nitzschioides</i>	<i>Thalassionema nitzschioides</i> var. <i>parvum</i>	<i>Thalassionema nitzschioides</i> var. 1 [1138A]	<i>Thalassiosira antarctica</i>	<i>Thalassiosira</i> sp. cf. <i>T. antarctica</i>	<i>Thalassiosira complicata</i>	<i>Thalassiosira</i> sp. cf. <i>T. eccentrica</i>	<i>Thalassiosira elliptipora</i>	<i>Thalassiosira fasciculata</i>
13R-CC, 19–24	118.59	C	P–M	C	<i>Actinocyclus ingens</i> var. <i>ovalis</i>						C	F	F					X		
14R-1, 52–53	122.12	C	P	A								R–F		R				X		
14R-2, 50–51	123.60	C	P	A				X				X		F				R		
14R-3, 50–51	125.10	C	P–M	A				R				R	R–F	R				F		
15R-CC, 15–20	134.23	A	G	A				R				C	F	F				F		
16R-CC, 13–18	145.85	A	M–G	A	<i>Asteromphalus kennettii</i> / <i>Denticulopsis simonsenii</i>						F									
17R-2, 50–51	152.50	A	M	A								F–C								
17R-4, 50–51	155.50	A	M	A								F–C	X							
17R-CC, 5–10	158.27	A	M	A								R	R							
18R-1, 50–51	160.60	A	M	A																
18R-2, 50–51	162.10	A	M	A	<i>Denticulopsis dimorpha</i>		X													
18R-3, 50–51	163.60	A	M	A																
18R-4, 50–51	165.10	A	M	A																
18R-5, 50–51	166.60	A	M	A																
18R-6, 50–51	168.10	A	M	A									X							
18R-CC, 0–7	168.84	A	G	A								X								
19R-1, 50–51	170.20	A	M	A																
19R-2, 50–51	171.70	C–A	M	A																
19R-3, 50–51	173.20	A	M	A		<i>Denticulopsis praedimorpha</i> – <i>Nitzschia denticuloides</i>						R								
19R-CC, 15–20	174.75	A	M	A			X					R								
20R-2, 50–51	181.30	C	P	A	<i>Denticulopsis praedimorpha</i>															
20R-4, 50–51	184.30	C	P–M	A	<i>Nitzschia denticuloides</i>	R						R								
20R-CC, 12–17	186.14	C	P	A								F	X							
21R-CC, 15–20	191.26	C	P–M	A	<i>Actinocyclus ingens</i> var. <i>nodus</i>							R	F							
22R-CC, 0–5	201.60	C	P	A	<i>Nitzschia grossepunctata</i> / <i>Actinocyclus ingens</i> – <i>Denticulopsis maccollumii</i>							R	R							
23R-CC, 0–5	210.85	A	M	A	<i>Denticulopsis maccollumii</i>							R	C							
24R-CC, 11–16	221.34	R	P	A	<i>Crucidenticula kanayae</i> / <i>Thalassiosira praefraga</i> “c”								d?							
25R-CC, 12–17	230.02	R	P	A																
26R-CC, 0–5	239.85	F	P	A	<i>Thalassiosira praefraga</i> “a–b”															
27R-CC, 0–5	248.71	F	P	A			X			R										
28R-CC, 0–10	261.81	F	P	A	<i>Thalassiosira spumellaroides</i>		X	X												

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Thalassiosira gracilis</i> <i>Thalassiosira insigna</i> <i>Thalassiosira inura</i> <i>Thalassiosira jacksonii</i> <i>Thalassiosira kolbei</i> <i>Thalassiosira lentiginosa</i> <i>Thalassiosira lentiginosa</i> var. <i>ovalis</i> <i>Thalassiosira miocenica</i> <i>Thalassiosira nansenii</i> <i>Thalassiosira oliverana</i> <i>Thalassiosira oliverana</i> var. <i>sparsa</i> <i>Thalassiosira praeфрага</i> <i>Thalassiosira ritscheri</i> <i>Thalassiosira striata</i> <i>Thalassiosira tetraostrupii</i> group	
13R-CC, 19–24	118.59	C	P–M	C	<i>Actinocyclus ingens</i> var. <i>ovalis</i>	X	
14R-1, 52–53	122.12	C	P	A			
14R-2, 50–51	123.60	C	P	A			
14R-3, 50–51	125.10	C	P–M	A			
15R-CC, 15–20	134.23	A	G	A			
16R-CC, 13–18	145.85	A	M–G	A	<i>Asteromphalus kennettii</i> / <i>Denticulopsis simonsenii</i>		
17R-2, 50–51	152.50	A	M	A			
17R-4, 50–51	155.50	A	M	A			
17R-CC, 5–10	158.27	A	M	A			
18R-1, 50–51	160.60	A	M	A			
18R-2, 50–51	162.10	A	M	A	<i>Denticulopsis dimorpha</i>		
18R-3, 50–51	163.60	A	M	A			
18R-4, 50–51	165.10	A	M	A			
18R-5, 50–51	166.60	A	M	A			
18R-6, 50–51	168.10	A	M	A			
18R-CC, 0–7	168.84	A	G	A	<i>Denticulopsis praedimorpha</i> – <i>Nitzschia denticuloides</i>		
19R-1, 50–51	170.20	A	M	A			
19R-2, 50–51	171.70	C–A	M	A			
19R-3, 50–51	173.20	A	M	A			
19R-CC, 15–20	174.75	A	M	A			
20R-2, 50–51	181.30	C	P	A	<i>Denticulopsis praedimorpha</i>		
20R-4, 50–51	184.30	C	P–M	A	<i>Nitzschia denticuloides</i>		
20R-CC, 12–17	186.14	C	P	A			
21R-CC, 15–20	191.26	C	P–M	A	<i>Actinocyclus ingens</i> var. <i>nodus</i>		
22R-CC, 0–5	201.60	C	P	A	<i>Nitzschia grossepunctata</i> / <i>Actinocyclus ingens</i> – <i>Denticulopsis maccollumii</i>		
23R-CC, 0–5	210.85	A	M	A	<i>Denticulopsis maccollumii</i>		
24R-CC, 11–16	221.34	R	P	A	<i>Crucidenticula kanayae</i> / <i>Thalassiosira praeфрага</i> “c”		
25R-CC, 12–17	230.02	R	P	A			[X X R]
26R-CC, 0–5	239.85	F	P	A	<i>Thalassiosira praeфрага</i> “a–b”		
27R-CC, 0–5	248.71	F	P	A			
28R-CC, 0–10	261.81	F	P	A	<i>Thalassiosira spumellaroides</i>		

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Thalassiosira tetraoestrupii</i> var. <i>reimeri</i> <i>Thalassiosira torokina</i> ("early" form) <i>Thalassiosira trifulta</i> <i>Thalassiosira tumida</i> <i>Thalassiosira vulnifica</i> <i>Thalassiosira</i> sp. 1 [1138A] <i>Thalassiosira</i> spp. <i>Trichotoxon/Thalassiothrix</i> spp. <i>Trinacria excavata</i> Ebridians <i>Ammodochium rectangulare</i> <i>Ebriopsis cornuta</i> <i>Falsebria ambigua</i> <i>Pseudammodochium sphericum</i> (single skeleton)			
13R-CC, 19–24	118.59	C	P–M	C	<i>Actinocyclus ingens</i> var. <i>ovalis</i>	R R–F X R F	R F R F C R–F C F F F	X X	
14R-1, 52–53	122.12	C	P	A					
14R-2, 50–51	123.60	C	P	A					
14R-3, 50–51	125.10	C	P–M	A					
15R-CC, 15–20	134.23	A	G	A					
16R-CC, 13–18	145.85	A	M–G	A	<i>Asteromphalus kennettii/Denticulopsis simonsenii</i>		R F X F X R–F F		X
17R-2, 50–51	152.50	A	M	A					
17R-4, 50–51	155.50	A	M	A					
17R-CC, 5–10	158.27	A	M	A					
18R-1, 50–51	160.60	A	M	A					
18R-2, 50–51	162.10	A	M	A	<i>Denticulopsis dimorpha</i>		R R F F F R F F F		
18R-3, 50–51	163.60	A	M	A					
18R-4, 50–51	165.10	A	M	A					
18R-5, 50–51	166.60	A	M	A					
18R-6, 50–51	168.10	A	M	A					
18R-CC, 0–7	168.84	A	G	A					
19R-1, 50–51	170.20	A	M	A					
19R-2, 50–51	171.70	C–A	M	A					
19R-3, 50–51	173.20	A	M	A		<i>Denticulopsis praedimorpha</i> – <i>Nitzschia denticuloides</i>		F F X	
19R-CC, 15–20	174.75	A	M	A		<i>Denticulopsis praedimorpha</i>		F–C	
20R-2, 50–51	181.30	C	P	A	<i>Nitzschia denticuloides</i>		R F F	X	
20R-4, 50–51	184.30	C	P–M	A			F		
20R-CC, 12–17	186.14	C	P	A			F	X	
21R-CC, 15–20	191.26	C	P–M	A	<i>Actinocyclus ingens</i> var. <i>nodus</i>		F	X	
22R-CC, 0–5	201.60	C	P	A	<i>Nitzschia grossepunctata/Actinocyclus ingens</i> – <i>Denticulopsis maccollumii</i>		F	X	
23R-CC, 0–5	210.85	A	M	A	<i>Denticulopsis maccollumii</i>		X		
24R-CC, 11–16	221.34	R	P	A	<i>Crucidentacula kanayae/Thalassiosira praeфрага</i> "c"		d?	X	
25R-CC, 12–17	230.02	R	P	A				X	
26R-CC, 0–5	239.85	F	P	A	<i>Thalassiosira praeфрага</i> "a–b"		d?	X	
27R-CC, 0–5	248.71	F	P	A			d?	X	
28R-CC, 0–10	261.81	F	P	A	<i>Thalassiosira spumellaroides</i>				

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	Endoskeletal dinoflagellates	<i>Actiniscus pentasterias</i>	<i>Cardulifolia gracilis</i>	<i>Foliactiniscus mirabilis</i>
13R-CC, 19–24	118.59	C	P–M	C	<i>Actinocyclus ingens</i> var. <i>ovalis</i>	-----	R	X	
14R-1, 52–53	122.12	C	P	A					
14R-2, 50–51	123.60	C	P	A					
14R-3, 50–51	125.10	C	P–M	A					
15R-CC, 15–20	134.23	A	G	A					
16R-CC, 13–18	145.85	A	M–G	A	<i>Asteromphalus kennettii</i> / <i>Denticulopsis simonsenii</i>		X		
17R-2, 50–51	152.50	A	M	A					
17R-4, 50–51	155.50	A	M	A					
17R-CC, 5–10	158.27	A	M	A					
18R-1, 50–51	160.60	A	M	A					
18R-2, 50–51	162.10	A	M	A	<i>Denticulopsis dimorpha</i>		X		
18R-3, 50–51	163.60	A	M	A					
18R-4, 50–51	165.10	A	M	A					
18R-5, 50–51	166.60	A	M	A					
18R-6, 50–51	168.10	A	M	A					
18R-CC, 0–7	168.84	A	G	A					
19R-1, 50–51	170.20	A	M	A					
19R-2, 50–51	171.70	C–A	M	A	<i>Denticulopsis praedimorpha</i> – <i>Nitzschia denticuloides</i>		X		
19R-3, 50–51	173.20	A	M	A					
19R-CC, 15–20	174.75	A	M	A					
20R-2, 50–51	181.30	C	P	A	<i>Denticulopsis praedimorpha</i>		X		
20R-4, 50–51	184.30	C	P–M	A	<i>Nitzschia denticuloides</i>				
20R-CC, 12–17	186.14	C	P	A			R		
21R-CC, 15–20	191.26	C	P–M	A	<i>Actinocyclus ingens</i> var. <i>nodus</i>		F		
22R-CC, 0–5	201.60	C	P	A	<i>Nitzschia grossepunctata</i> / <i>Actinocyclus ingens</i> – <i>Denticulopsis maccollumii</i>		R		
23R-CC, 0–5	210.85	A	M	A	<i>Denticulopsis maccollumii</i>		R		
24R-CC, 11–16	221.34	R	P	A	<i>Crucidentacula kanayae</i> / <i>Thalassiosira praeфрага</i> “c”		R		
25R-CC, 12–17	230.02	R	P	A			X		
26R-CC, 0–5	239.85	F	P	A	<i>Thalassiosira praeфрага</i> “a–b”		R		X
27R-CC, 0–5	248.71	F	P	A			R		
28R-CC, 0–10	261.81	F	P	A	<i>Thalassiosira spumellaroides</i>		X		

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	Diatoms		
29R-CC, 8–13	269.41	C	P	A	<i>Rocella gelida</i> "c"			
30R-CC, 14–19	278.21	B	—	A	Not zoned			
31R-CC, 0–10	285.85	B	—	A				
32R-CC, 1419	296.30	B	—	A				
34R-CC	319.23	B	—	A				
35R-CC, 12–17	330.78	B	—	A				
36R-CC, 0–5	340.60	B	—	A				
						<i>Actinocyclus actinochilus</i> <i>Actinocyclus curvatulus</i> <i>Actinocyclus dimorphus</i> <i>Actinocyclus fasciculatus</i>	<i>Actinocyclus ingens</i> <i>Actinocyclus ingens</i> var. <i>nodus</i> <i>Actinocyclus ingens</i> var. <i>ovalis</i> <i>Actinocyclus ingens</i> var. 1 [1138A] <i>Actinocyclus ingens</i> var. 2 [1138A]	<i>Actinocyclus karstenii</i> <i>Actinocyclus maccollumii</i> <i>Actinocyclus</i> spp. <i>Actinopterychus senarius</i> <i>Arachnoidiscus</i> spp.

Notes: Bold brackets indicate zonal marker datums, and zonal intervals are divided by horizontal lines. Abundance: A = abundant, C = common, F = few, R = rare, X = present, B = barren. Preservation: G = good, M = moderate, P = poor.

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Araniscus lewisianus</i> <i>Asterolampra tela</i> <i>Asteromphalus kennettii</i> <i>Asteromphalus oligocenicus</i> <i>Asteromphalus parvulus/hookeri</i> <i>Asteromphalus symmetricus</i> <i>Azpetia gombosi</i> <i>Azpetia harwoodii</i> <i>Azpetia tabularis</i> <i>Bogorovia gombosii</i>	<i>Bogorovia veniamini</i> <i>Cavitatus jouseanus</i> <i>Cavitatus miocenicus</i> <i>Cavitatus rectus</i> <i>Cestodiscus pulchellus</i>				
29R-CC, 8–13	269.41	C	P	A	<i>Rocella gelida</i> “c”		F	R	R	X	R
30R-CC, 14–19	278.21	B	—	A	Not zoned						
31R-CC, 0–10	285.85	B	—	A							
32R-CC, 1419	296.30	B	—	A							
34R-CC	319.23	B	—	A							
35R-CC, 12–17	330.78	B	—	A							
36R-CC, 0–5	340.60	B	—	A							

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Chaetoceros bulbosum</i> <i>Chaetoceros lorenzianus</i> <i>Chaetoceros</i> sp. A [Harwood & Maruyama, 1992] <i>Chaetoceros</i> spp. (spores) <i>Chaetoceros</i> spp. (small vegetative cells) <i>Cestodiscus</i> spp. <i>Cocconeis</i> spp. <i>Corethron criophilum</i> <i>"Coscinodiscus" rhombicus</i> <i>Coscinodiscus marginatus</i> <i>Coscinodiscus</i> spp. <i>Crucidenticula ikebei</i> <i>Crucidenticula nicobarica</i> <i>Dactyliosolen antarcticus</i> (girdle band ends) <i>"Denticula" sp. cf. D. norvegica</i>
29R-CC, 8–13	269.41	C	P	A	<i>Rocella gelida</i> "c"	X F R
30R-CC, 14–19	278.21	B	—	A	Not zoned	
31R-CC, 0–10	285.85	B	—	A		
32R-CC, 1419	296.30	B	—	A		
34R-CC	319.23	B	—	A		
35R-CC, 12–17	330.78	B	—	A		
36R-CC, 0–5	340.60	B	—	A		

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Denticulopsis crassa</i> <i>Denticulopsis dimorpha</i> var. <i>areolata</i> <i>Denticulopsis dimorpha</i> var. <i>dimorpha</i> <i>Denticulopsis "hustedtii</i> var. <i>asper"</i> <i>Denticulopsis hyalina</i>	<i>Denticulopsis maccollumii</i> <i>Denticulopsis ovata</i> <i>Denticulopsis praedimorpha</i> var. <i>praedimorpha</i> <i>Denticulopsis simonsenii</i> <i>Denticulopsis vulgaris</i>	<i>Diploneis</i> spp. <i>Drepanotheca</i> spp. <i>Entomoneis</i> sp. <i>Entopyla</i> spp. <i>Eucampia antarctica</i> <i>Eucampia antarctica</i> var. <i>"twista"</i>
29R-CC, 8–13	269.41	C	P	A	<i>Rocella gelida</i> "c"			
30R-CC, 14–19	278.21	B	—	A	Not zoned			
31R-CC, 0–10	285.85	B	—	A				
32R-CC, 1419	296.30	B	—	A				
34R-CC	319.23	B	—	A				
35R-CC, 12–17	330.78	B	—	A				
36R-CC, 0–5	340.60	B	—	A				

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Ethmodiscus</i> sp. <i>Fragilariopsis arcula</i> <i>Fragilariopsis aurica</i> <i>Fragilariopsis barronii</i> <i>Fragilariopsis</i> sp. cf. <i>F. barronii</i>	<i>Fragilariopsis clementia</i> <i>Fragilariopsis curta</i> <i>Fragilariopsis cylindrus</i> <i>Fragilariopsis donahuensis</i> <i>Fragilariopsis efferans</i>	<i>Fragilariopsis fossilis</i> <i>Fragilariopsis heardensis</i> <i>Fragilariopsis interfrigidaria</i> <i>Fragilariopsis interfrigidaria-weaveri</i> (intermediate) <i>Fragilariopsis januaria</i>
29R-CC, 8–13	269.41	C	P	A	<i>Rocella gelida</i> "c"			
30R-CC, 14–19	278.21	B	—	A	Not zoned			
31R-CC, 0–10	285.85	B	—	A				
32R-CC, 1419	296.30	B	—	A				
34R-CC	319.23	B	—	A				
35R-CC, 12–17	330.78	B	—	A				
36R-CC, 0–5	340.60	B	—	A				

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone			
29R-CC, 8–13	269.41	C	P	A	<i>Rocella gelida</i> "c"			
30R-CC, 14–19	278.21	B	—	A	Not zoned			
31R-CC, 0–10	285.85	B	—	A				
32R-CC, 1419	296.30	B	—	A				
34R-CC	319.23	B	—	A				
35R-CC, 12–17	330.78	B	—	A				
36R-CC, 0–5	340.60	B	—	A				
						<i>Fragilariopsis kerguelensis</i> <i>Fragilariopsis lacrima</i> <i>Fragilariopsis matuyamae</i> <i>Fragilariopsis obliquecostata</i> <i>Fragilariopsis</i> cf. <i>obliquecostata</i>	<i>Fragilariopsis praecurta</i> <i>Fragilariopsis praeinterfrigidaria</i> <i>Fragilariopsis praeinterfrigidaria-interfrigidaria</i> (intermediate) <i>Fragilariopsis pusilla</i> <i>Fragilariopsis pseudonana</i>	<i>Fragilariopsis rhombica</i> <i>Fragilariopsis ritscheri</i> <i>Fragilariopsis</i> cf. <i>ritscheri</i> <i>Fragilariopsis separanda</i> <i>Fragilariopsis weaveri</i>

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Hemidiscus</i> sp. cf. <i>H. cuneiformis</i> <i>Hemidiscus karstenii</i> <i>Hemidiscus karstenii</i> f. 1 [Ciesielski, 1983] <i>Hemidiscus triangularis</i> <i>Hemiaulus incusus</i> <i>Hemiaulus</i> spp. <i>Hyalodiscus radiatus</i> <i>Ikebea</i> sp. B [Scherer et al., 2000] <i>Isthmia</i> sp. <i>Lithodesmium minisculum</i> <i>Navicula directa</i> <i>Navicula</i> spp. <i>Neobrunia mirabilis</i> <i>Nitzschia denticuloides</i> <i>Nitzschia grossepunctata</i>
29R-CC, 8–13	269.41	C	P	A	<i>Rocella gelida</i> "c"	
30R-CC, 14–19	278.21	B	—	A		
31R-CC, 0–10	285.85	B	—	A		
32R-CC, 1419	296.30	B	—	A	Not zoned	
34R-CC	319.23	B	—	A		
35R-CC, 12–17	330.78	B	—	A		
36R-CC, 0–5	340.60	B	—	A		

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Nitzschia maleinterpretaria</i> <i>Nitzschia miocenica</i> <i>Nitzschia panduriformis</i> <i>Nitzschia reinholdii</i> <i>Nitzschia</i> sp. 17 [Schrader, 1976]	<i>Paralia sulcata</i> <i>Porosira pseudodenticulata</i> <i>Proboscia</i> spp. <i>Radialiplicata clavigera</i> <i>Psammolictyon</i> sp.	<i>Raphidodiscus marylandicus</i> <i>Rhabdonema japonicum</i> group <i>Rhabdonema/Grammatophora</i> spp. <i>Rhizosolenia costata</i> <i>Rhizosolenia hebetata</i> group
29R-CC, 8–13	269.41	C	P	A	<i>Rocella gelida</i> "c"		X	X
30R-CC, 14–19	278.21	B	—	A	Not zoned			
31R-CC, 0–10	285.85	B	—	A				
32R-CC, 1419	296.30	B	—	A				
34R-CC	319.23	B	—	A				
35R-CC, 12–17	330.78	B	—	A				
36R-CC, 0–5	340.60	B	—	A				

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	Rouxia spp. <i>Spumorbis annulifer</i> <i>Stellarima microtrias</i> <i>Stellarima stellaris</i> <i>Stephanopyxis</i> spp.	<i>Synedropsis</i> sp. B [Scherer et al., 2000] <i>Thalassionema nitzschioides</i> <i>Thalassionema nitzschioides</i> var. <i>parvum</i> <i>Thalassionema nitzschioides</i> var. 1 [1138A] <i>Thalassiosira antarctica</i>	<i>Thalassiosira</i> sp. cf. <i>T. antarctica</i> <i>Thalassiosira complicata</i> <i>Thalassiosira</i> sp. cf. <i>T. eccentrica</i> <i>Thalassiosira elliptipora</i> <i>Thalassiosira fasciculata</i>
29R-CC, 8–13	269.41	C	P	A	<i>Rocella gelida</i> "c"	R	X	
30R-CC, 14–19	278.21	B	—	A	Not zoned			
31R-CC, 0–10	285.85	B	—	A				
32R-CC, 1419	296.30	B	—	A				
34R-CC	319.23	B	—	A				
35R-CC, 12–17	330.78	B	—	A				
36R-CC, 0–5	340.60	B	—	A				

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Thalassiosira gracilis</i> <i>Thalassiosira insigna</i> <i>Thalassiosira inura</i> <i>Thalassiosira jacksonii</i> <i>Thalassiosira kolbei</i>	<i>Thalassiosira lentiginosa</i> <i>Thalassiosira lentiginosa</i> var. <i>ovalis</i> <i>Thalassiosira miocenica</i> <i>Thalassiosira nansenii</i> <i>Thalassiosira oliverana</i>	<i>Thalassiosira oliverana</i> var. <i>sparsa</i> <i>Thalassiosira praeftaga</i> <i>Thalassiosira ritscheri</i> <i>Thalassiosira striata</i> <i>Thalassiosira tetraoestrupii</i> group
29R-CC, 8–13	269.41	C	P	A	<i>Rocella gelida</i> "c"			
30R-CC, 14–19	278.21	B	—	A	Not zoned			
31R-CC, 0–10	285.85	B	—	A				
32R-CC, 1419	296.30	B	—	A				
34R-CC	319.23	B	—	A				
35R-CC, 12–17	330.78	B	—	A				
36R-CC, 0–5	340.60	B	—	A				

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	<i>Thalassiosira tetraoestrupii</i> var. <i>reimeri</i> <i>Thalassiosira torokina</i> ("early" form) <i>Thalassiosira trifurcata</i> <i>Thalassiosira tumida</i> <i>Thalassiosira vulnifica</i>	<i>Thalassiosira</i> sp. 1 [1138A] <i>Thalassiosira</i> spp. <i>Trichotoxon/Thalassiothrix</i> spp. <i>Trinacria excavata</i>	Ebridians <i>Ammodochium rectangulare</i> <i>Ebriopsis cornuta</i> <i>Falsebria ambigua</i> <i>Pseudammodochium sphericum</i> (single skeleton)
29R-CC, 8–13	269.41	C	P	A	<i>Rocella gelida</i> "c"		X	X
30R-CC, 14–19	278.21	B	—	A				
31R-CC, 0–10	285.85	B	—	A				
32R-CC, 1419	296.30	B	—	A	Not zoned			
34R-CC	319.23	B	—	A				
35R-CC, 12–17	330.78	B	—	A				
36R-CC, 0–5	340.60	B	—	A				

Table T1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Diatom abundance	Diatom preservation	Nannofossil abundance	Diatom zone	Endoskeletal dinoflagellates	<i>Actiniscus pentasterias</i>	<i>Cardulifolia gracilis</i>	<i>Foliactiniscus mirabilis</i>
29R-CC, 8–13	269.41	C	P	A	<i>Rocella gelida</i> "c"		R	R	
30R-CC, 14–19	278.21	B	—	A	Not zoned				
31R-CC, 0–10	285.85	B	—	A					
32R-CC, 1419	296.30	B	—	A					
34R-CC	319.23	B	—	A					
35R-CC, 12–17	330.78	B	—	A					
36R-CC, 0–5	340.60	B	—	A					