Table 9. Distribution and relative abundances of diatoms, Hole 1019C.

Geologic age	North Pacific diatom zone	Numeric age (Ma)*	Core, section	Sample depth (mbsf)	Offset (m)	Composite depth (mcd)	Group abundance	Preservation	Environment, type of upwelling	*Actinocyclus curvatulus*	*Actinocyclus ellipticus* f. *lanceolata*	*Actinocyclus oculatus*	*Actinoptychus senarius*	*Actinoptychus splendens*	*Aulacoseira granulata*	*Aulacoseira italica*	*Azpeitia nodulifera*	*Biddulphia aurita*	*Cocconeis costata*	*Cocconeis placentula*	*Cocconeis scutellum*	*Coscinodiscus asteromphalus*	*Coscinodiscus marginatus*	*Coscinodiscus radiatus*	*Coscinodiscus* sp.	*Cyclotella striata*	*Cyclotella* sp.	*Cymbella* sp.	*Denticulopsis hyalina*	*Denticulopsis simonsenii*	*Diploneis smithii*	*Epithemia* sp.	*Eunotia* sp.	*Fragilariopsis doliola*	*Grammatophora angulosa*	*Grammatophora oceanica*	*Hantzschia amphioxys* var.	*Hemidiscus cuneiformis*	*Hyalodiscus* sp.
			167-1019C-																																				
			1H-CC	8.30	0.00	8.30	R	P					T		T							R		R		R										R			
	NPD 12		2H-CC	17.80	0.01	17.81	F	P					R		R			R				R			R							R							
			3H-CC	27.30	0.12	27.42	R	P		T			R										T				R									R			
			4H-CC	36.80	2.12	38.92	R	P							F			R														R							
		0.30	5H-CC	46.30	3.09	49.39	F	P							R		R																						
			6H-CC	55.80	1.51	57.31	C	P/M	Coastal/oceanic	R			R										R									R		R					
			7H-CC	65.30	1.48	66.78	A	P/M	Coastal/oceanic	R			R					R												R		R	R						
			8H-CC	74.80	1.70	76.50	A	M/G	Coastal/oceanic									R					R																
			9X-CC	84.30	3.86	88.16	R	M																R						R				R						
			10X-CC	94.10	2.94	97.04	C	M	Coastal/oceanic			R			R			R				R										R	R						R
			11X-CC	103.70	2.94	106.64	A	M/G	Coastal/oceanic	R								F	R	R		R						R						R					
			12X-CC	113.30	2.94	116.24	R	P							R																			R					
Pleistocene			13X-CC	122.90	2.94	125.84	C	P			R		R		F																								
			14X-CC	132.50	4.88	137.38	F	P					R		R	R																					R		R
	NPD 11		15X-CC	142.10	5.70	147.80	C	P	Coastal					R	F	R		R									R												
			16X-CC	151.70	4.72	156.42	C	M	Coastal/oceanic						F																			R					
			17X-CC	161.30	1.68	162.98	C	M	Coastal/oceanic	R			R		R								R								R								
			18X-CC	170.90	3.30	174.20	A	M	Coastal/oceanic				R		R			R																					
			19X-CC	180.50	3.30	183.80	A	M	Coastal/oceanic	R					R			R			R			R								R			R				
			20X-CC	190.10	3.30	193.40	C	M	Coastal	R			R		R														R			R			R				
			21X-CC	199.70	3.30	203.00	F	P/M					R	R	R								R											T	R			R	
			22X-CC	209.30	3.30	212.60	R	P					R										R																
			23X-CC	219.00	3.30	222.30	A	M/G	Coastal/oceanic				R																		R								
			24X-CC	228.60	3.30	231.90	A	M/G	Coastal/oceanic	R					R			R	R				F								R								
			25X-CC	238.20	3.30	241.50	A	M/G	Coastal/oceanic				R	R			R	R					F																
		<1.58	26X-CC	247.90	3.30	251.20	R	P				T	R		R						R		R																

Notes: * = Cande and Kent (1995). Abundance: A = abundant, C = common, F = few, and R = rare. Preservation: G = good, M = moderate, and P = poor. For complete definition of terms, see “Techniques” section of this chapter.

Table 9 (continued).

Geologic age	North Pacific diatom zone	Numeric age (Ma)*	Core, section	Sample depth (mbsf)	Offset (m)	Composite depth (mcd)	Group abundance	Preservation	Environment, type of upwelling	*Navicula* sp.	*Neodenticula kamtschatica*	*Neodenticula koizumii*	*Neodenticula seminae*	*Neodenticula* cf. *seminae*	*N.* sp. A sensu Akiba and Yanagisawa	*Nitzschia marina*	*Nitzschia reinholdii*	*Opephora* sp.	*Paralia sulcata*	*Proboscia barboi*	*Proboscia curvirostris*	*Rhaphoneis* sp.	*Stephanodiscus astraea*	*Stephanopyxis dimorpha*	*Stephanopyxis turris*	*Thalassionema nitzschioides*	*Thalassionema robusta*	*Thalassiosira eccentrica*	*Thalassiosira leptopus*	*Thalassiosira nidulus*	*Thalassiosira oestrupii*	*Thalassiosira* sp.	*Thalassiothrix longissima*	*Centiric* sp.1	Resting spores
			167-1019C-																																
			1H-CC	8.30	0.00	8.30	R	P		T			R						T			T		T	R	T						T		R	
	NPD 12		2H-CC	17.80	0.01	17.81	F	P										R	R			R		C	C	T		R				T			
			3H-CC	27.30	0.12	27.42	R	P					T						R					F	F	T		T							
			4H-CC	36.80	2.12	38.92	R	P														R		F	F									R	
		0.30	5H-CC	46.30	3.09	49.39	F	P					R	R							R			F	F	R		R						R	
			6H-CC	55.80	1.51	57.31	C	P/M	Coastal/oceanic				C				R				R			F	C			R			R	R			
			7H-CC	65.30	1.48	66.78	A	P/M	Coastal/oceanic				A	R							R	R	R	A	A	F		R					F		R
			8H-CC	74.80	1.70	76.50	A	M/G	Coastal/oceanic				A		R					R	R		R	A	A			F							R
			9X-CC	84.30	3.86	88.16	R	M																F	F										
			10X-CC	94.10	2.94	97.04	C	M	Coastal/oceanic				C		R						R			C	C	R		R		R					F
			11X-CC	103.70	2.94	106.64	A	M/G	Coastal/oceanic				A		C		R			R	R			A	A	R		R			R				
			12X-CC	113.30	2.94	116.24	R	P			R		R											R	R										
Pleistocene			13X-CC	122.90	2.94	125.84	C	P					R							R				F	C			R						R	
			14X-CC	132.50	4.88	137.38	F	P					R							R		R		F	C										
	NPD 11		15X-CC	142.10	5.70	147.80	C	P	Coastal	R										R	R			A	C			R							
			16X-CC	151.70	4.72	156.42	C	M	Coastal/oceanic	R			C		R					R	R			C	C	R	R								
			17X-CC	161.30	1.68	162.98	C	M	Coastal/oceanic				C				R		R	R		R		F	F										
			18X-CC	170.90	3.30	174.20	A	M	Coastal/oceanic			R	A		C		R		R		R			C	C	R		R							C
			19X-CC	180.50	3.30	183.80	A	M	Coastal/oceanic	R			C		R						R	R		A	C				R					R	
			20X-CC	190.10	3.30	193.40	C	M	Coastal				F							R				A	A										
			21X-CC	199.70	3.30	203.00	F	P/M					F		R				F	R	R			C	C								R		F
			22X-CC	209.30	3.30	212.60	R	P					R		R									F	F										
			23X-CC	219.00	3.30	222.30	A	M/G	Coastal/oceanic				A		C						R			C	A	R	R	R							A
			24X-CC	228.60	3.30	231.90	A	M/G	Coastal/oceanic				A		R				F	R	R	R		A	A								R		R
			25X-CC	238.20	3.30	241.50	A	M/G	Coastal/oceanic				A		F		R			R	R			A	A			R					R		
		<1.58	26X-CC	247.90	3.30	251.20	R	P								R			R		R			C	C										