Table 7. Distribution and relative abundances of diatoms, Hole 1016A.

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 oculatus* (fragment?)	*Actinocyclus ehrenbergii*	*Actinocyclus ellipticus* f. *lanceolata*	*Actinocyclus ingens*	*Actinocyclus ingens* f. *nodus*	*Actinocyclus tenellus*	*Actinoptychus senarius*	*Aulacoseira granulata*	*Azpeitia nodulifera*	*Cavitatus jouseanus*	*Cocconeis californica*	*Cocconeis decipiens*	*Coscinodiscus asterompharus*	*Coscinodiscus marginatus*	*Coscinodiscus marginatus* f. *fossilis*	*Coscinodiscus radiatus*	*Coscinodiscus* spp.	*Crucidenticula nicobarica*	*Denticulopsis dimorpha*	*Denticulopsis katayamae*	*Denticulopsis hyalina*	*Denticulopsis lauta*	*Denticulopsis lauta* s.l.	*Denticulopsis praedimorpha*	*Denticulopsis simonsenii*	*Hemidiscus cuneiformis*	*Navicula* spp.	*Neodenticula kamtschatica*	*Neodenticula* cf. *kamtschatica*	*Neodenticula koizumii*	*Neodenticula* cf. *koizumii*	*Neodenticula seminae*	*N.* sp. A sensu Akiba and Yanagisawa	*Neodenticula* sp.
			167-1016A-																																										
		0	1H-CC	7.60	0.00	7.60	R	P											T																								T		
	NPD 12		2H-CC	17.10	0.48	17.58	R	P												T												T											T		
Pleistocene		0.3	3H-CC	26.60	1.20	27.80	R	P								T		T	T					R								T											F		
	NPD 11	1	4H-CC	36.10	1.60	37.70	R	P											R					R								R					R						F		
			5H-CC	45.60	2.52	48.12	C	P		R							R						R	F																			R		
			6H-CC	55.10	2.74	57.84	C	P						T																		R											R		
			7H-CC	64.60	3.24	67.84	C	M			T								R				R	R												C							C		
	NPD 10		8H-CC	74.10	4.54	78.64	C	M							T				F											R							F						F	R	
			9H-CC	83.60	5.00	88.60	C	P						T					R	R	R			F	R		R	R		R		R				R									
			10H-CC	93.10	6.62	99.72	R	P																C								R													
			11X-CC	96.30	9.24	105.54	A	M	Coastal							R								A			R																R		
		2?	12X-CC	106.00	9.78	115.78	A	M	Coastal/oceanic	R				T					R					A						R						R					R		R		
Pliocene			13X-CC	115.60	9.54	125.14	C	P	Coastal				R									R		A																				R	
			14X-CC	125.20	12.43	137.63	F	P		R									R	R				R			R			T	R				T	R				R					
	NPD 9		15X-CC	134.80	14.31	149.11	C	P	Coastal					T										C						R	T	R		T	C				R	R				
			16X-CC	144.40	17.15	161.55	R	P						T			R							F			R						R											
			17X-CC	154.00	19.05	173.05	F	P	Coastal		T								R					C	F				T	T	R	T			T										R
			18X-CC	163.60	19.05	182.65	R	P			T			T	T									R			R				R		R		T	R								
			19X-CC	173.20	21.20	194.40	F	P								R			R					R											T									
			20X-CC	182.80	23.96	206.76	A	P	Coastal							R	R					R		C							R				T	R		R	R					R
			21X-CC	192.30	25.70	218.00	C	P				T				R	R		R					F																				
	NPD 8		22X-CC	202.10	28.56	230.66	C	M	Coastal								R		C		R		R	A												F								
			23X-CC	211.70	29.70	241.40	A	G	Oceanic							R			A				R	F		R										F								
			24X-CC	221.30	29.70	251.00	C	P		R							C					R									R													
	to		25X-CC	230.90	28.40	259.30	A	P	Coastal/oceanic			T					R							A	C							R												
			26X-CC	240.60	28.40	269.00	A	M	Coastal/oceanic								R						R	A	F											R		R						
late			27X-CC	250.20	28.40	278.60	A	M	Coastal/oceanic															A	F		R			R						R								
	NPD 7		28X-CC	259.80	28.40	288.20	A	M	Coastal/oceanic				T						F				R	C																				
Miocene			29X-CC	269.50	28.40	297.90	A	P						T					F																									
			30X-CC	279.20	28.40	307.60	A	M/G	Coastal								R		C				R	C												F								
			31X-CC	288.80	28.40	317.20	A	M	Coastal								F		C				R	C																				
			32X-CC	298.40	28.40	326.80	B																																					
			33X-CC	308.00			B																																					
	Barren		34X-CC	311.00			†																																					
			35X-CC	315.50			B																																					
			36N-CC	316.50			†																																					

Notes: * = Cande and Kent, 1995. Shaded area = barren interval. Abundance: A = abundant, C = common, F = few, R = rare, and B = barren. Preservation: G = good, M = moderate, and P = poor. For complete definition of terms, see "Techniques" section of this chapter. † = no sample.

Table 7 (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	*Neodenticula* sp. (*N. rolandii*)	*Nitzschia* cf. *jouseana*	*Nitzschia marina*	*Nitzschia reinholdii*	*Nitzschia fossilis*	*Nitzschia pliocena*	*Nitzschia rolandii*	*Paralia sulcata*	*Plagiogramma staurophorum*	*Proboscia barboi*	*Proboscia curvirostris*	*Rhizosolenia hebetata f. hiemalis*	*Rhizosolenia matuyamai*	*Rhizosolenia styliformis*	*Rhizosolenia* sp.	*Stephanopyxis dimorpha*	*Stephanopyxis schenkii*	*Stephanopyxis turris*	*Synedra* sp.	*Thalassionema nitzschioides*	*Thalassionema nitzschioides* v. *parva*	*Thalassionema schraderi*	*Thalassiosira antiqua*	*Thalassiosira convexa*	*Thalassiosira eccentrica*	*Thalassiosira hyalina*	*Thalassiosira leptopus*	*Thalassiosira marujamica*	*Thalassiosira oestrupii*	*Thalassiosira plicated* spp.	*Thalassiosira* spp.	*Thalassiosira* spp. (*T. nativa* type)	*Thalassiothrix longissima*	*Thalassiothrix* spp.
			167-1016A-																																								
		0	1H-CC	7.60	0.00	7.60	R	P																					T							T							
	NPD 12		2H-CC	17.10	0.48	17.58	R	P									T																										
Pleistocene		0.3	3H-CC	26.60	1.20	27.80	R	P											T						T				T														
	NPD 11	1	4H-CC	36.10	1.60	37.70	R	P									R	R	R	R					R		R															R	
			5H-CC	45.60	2.52	48.12	C	P				R				R			C	R		R							R					R										
			6H-CC	55.10	2.74	57.84	C	P				R								F							R		R			R										R	
			7H-CC	64.60	3.24	67.84	C	M				F	R						F								R															R	
	NPD 10		8H-CC	74.10	4.54	78.64	C	M				R	F						F		R						R		R													F	
			9H-CC	83.60	5.00	88.60	C	P				R	R				R		C						R		R		F		R	R		R						R		C	
			10H-CC	93.10	6.62	99.72	R	P					R						C								R															R	R
			11X-CC	96.30	9.24	105.54	A	M	Coastal										A								A						R									F	
		2?	12X-CC	106.00	9.78	115.78	A	M	Coastal/oceanic			R							A						R		F					R										C	C
Pliocene			13X-CC	115.60	9.54	125.14	C	P	Coastal										A								F						R									F	
			14X-CC	125.20	12.43	137.63	F	P											C							R	R		F	R		R	R									F	
	NPD 9		15X-CC	134.80	14.31	149.11	C	P	Coastal		R			R			R		C											R	R		R										
			16X-CC	144.40	17.15	161.55	R	P											F								R		R	R	R									R		F	
			17X-CC	154.00	19.05	173.05	F	P	Coastal										F								R		R			R	R									F	
			18X-CC	163.60	19.05	182.65	R	P									R		F											R												F	R
			19X-CC	173.20	21.20	194.40	F	P									R										R				R	R								R			
			20X-CC	182.80	23.96	206.76	A	P	Coastal	R									F								R		F			R				R	R	R				F	F
			21X-CC	192.30	25.70	218.00	C	P									F		F										F			F					R					F	
	NPD 8		22X-CC	202.10	28.56	230.66	C	M	Coastal				R											R			R	R	C			F			R						R	F	
			23X-CC	211.70	29.70	241.40	A	G	Oceanic			F	F			R			C								R		A			F		F			R	R				C	
			24X-CC	221.30	29.70	251.00	C	P					F																R			R		R			R	R					
	to		25X-CC	230.90	28.40	259.30	A	P	Coastal/oceanic								R		F								F		F			F					R					C	
			26X-CC	240.60	28.40	269.00	A	M	Coastal/oceanic			R	R			R							F				R		C	R		F					R	R		R		C	
late			27X-CC	250.20	28.40	278.60	A	M	Coastal/oceanic				F						R										A									F				A	
	NPD 7		28X-CC	259.80	28.40	288.20	A	M	Coastal/oceanic				F																A			F				R	F	R				C	
Miocene			29X-CC	269.50	28.40	297.90	A	P																				F	F	R		R		R				R					
			30X-CC	279.20	28.40	307.60	A	M/G	Coastal																		R		R			R	R						R		R	
			31X-CC	288.80	28.40	317.20	A	M	Coastal				R		R												R		F			R	R										
			32X-CC	298.40	28.40	326.80	B																																				
			33X-CC	308.00			B																																				
	Barren		34X-CC	311.00			†																																				
			35X-CC	315.50			B																																				
			36N-CC	316.50			†																																				