Table T4. Diatom range distribution chart for Site 1041. (**See table notes.** Continued on next two pages.)

Diatom zone	Core, section, interval (cm)	Depth (mbsf)	Abundance	Preservation	Actinocyclus ellipticus	Actinocyclus ellipticus var. javanica	Actinocyclus ellipticus f. lanceolata	Actinocyclus ingens	Actinocyclus moronensis	Actinoptychus senarius + A. splendens	Asteromphalus elegans	Azpeitia nodulifer	Cestodiscus pulchellus	Coscinodiscus lewisianus	Coscinodiscus marginatus	Denticulopsis hustedtii	Fragilariopsis doliolus	Hemidiscus cuneiformis	Nitzschia fossilis	Nitzschia marina	Nitzschia miocenica	Nitzschia porteri	Nitzschia reinholdii	Rhizosolenia praebergonii var. robusta	Rhizosolenia praebergonii	Rossiella paleacea	Rossiella praepaleacea	Thalassionema nitzschioides	Thalassiosira convexa var. aspinosa	Thalassiosira miocenica	Thalassiosira oestrupii	Thalassiosira praeconvexa	Thalassiosira tappanae	Thalassiosira yabei	Thalassiothrix longissima	Triceratium pileus	Benthics + Chaetoceros
Fragilariopsis doliolus	170-1041A-																																					
	1H-1	0	A	G								F				C			F					r				F			A				F		
	1H-1, 60-62	0.62	C	M								C				F	F		F					r	r			R			F				F		
	1H-2, 78-80	2.3	C	M								F				F		T	F					r				R			C	r					
	1H-2, 124-125	2.74	C	M								F				F	F		F									F			C						
	1H-2, 140-142	2.92	C	M								R				F	R		C								r	R			C				F	r	
	1H-3, 99-101	4.01	C	M								F				F	R		F									R			F				F	F	
Undetermined	1H-3, 124-126	4.5	B																																		
	1H-CC	7.35	R	P						R																										R		
	2H-1, 135-150	8.85	F	M						R	R	R								R	F			r				R		F						R
	2H-2, 123-124	10.13	F	P								R								R						R		R		F						
	2H-CC	14.03	F	P						R		R							F	R		R						R		F					R	
	3X-2, 124-125	17.04	R	P																																	
	3X-CC	21.12	F	P						R							r									r									R		R
	4X-CC	24.92	R	P																										R							
	5X-CC	34.21	B																																		
	6X-3, 144-145	39.84	F	P			r			R					F											R		F		F						F
	6X-CC	41.23	F	P						R							R	R							R	R		R	F	R						
	7X-5, 49-50	47.99	F	P													R	R	F						R	R		F		F						F
	7X-CC	50.7	R	M													R	R	F						R			R		R						
	8X-CC	60.46	R	M											R				R						R			R		R						R
	9X-2, 122-124	62.32	F	P															R						R		R		R	F						
	9X-CC	69.22	B																																		
	10X-CC	76.23	R	P						R																											
	11X-1, 125-126	79.45	F	P						R		R								F	R									F						R
	11X-CC	84.99	R	P						R																				R	R						R
	12X-CC	96.19	B																																		
	13X-2, 27-29	99.09	R	P																																	R
	13X-CC	100.78	B																																		
	14X-CC	112.18	R	P																																	
	15X-5, 49-50	121.51	R	P																																	R
	15X-CC	125.09	B																																		
	16X-CC	134.25	B																																		
	17X-2, 37-39	137.15	C	G				r		F	R	F		r	F		R			r						F	C		C							F
	17X-CC	137.48	F	P																																F		
	18X-2, 121-125	147.73	R	P						R					R											R			R							r	R
	18X-CC	151.48	R	P																																R		

Table T4 (continued).

Diatom zone	Core, section, interval (cm)	Depth (mbsf)	Abundance	Preservation	Actinocyclus ellipticus	Actinocyclus ellipticus var. javanica	Actinocyclus ellipticus f. lanceolata	Actinocyclus ingens	Actinocyclus moronensis	Actinoptychus senarius + A. splendens	Asteromphalus elegans	Azpeitia nodulifer	Cestodiscus pulchellus	Coscinodiscus lewisianus	Coscinodiscus marginatus	Denticulopsis hustedtii	Fragilariopsis doliolus	Hemidiscus cuneiformis	Nitzschia fossilis	Nitzschia marina	Nitzschia miocenica	Nitzschia porteri	Nitzschia reinholdii	Rhizosolenia praebergonii var. robusta	Rhizosolenia praebergonii	Rossiella paleacea	Rossiella praepaleacea	Thalassionema nitzschioides	Thalassiosira convexa var. aspinosa	Thalassiosira miocenica	Thalassiosira oestrupii	Thalassiosira praeconvexa	Thalassiosira tappanae	Thalassiosira yabei	Thalassiothrix longissima	Triceratium pileus	Benthics + Chaetoceros
Undetermined	170-1041B-																																				
	1R-2, 124-125	157.74	R	P											R															R							R
	1R-CC	161.05	R	P						R				r																								
	2R-2, 122-125	167.32	R	P											R																	R							R
	2R-CC	170.76	R	P						R		r																					R				R		
	3R-CC	181.59	R	P						R	R																						R						
	4R-2, 124-125	186.54	F	P						R					R																		F						R
	4R-CC	193.38	R	P						R																							R						
	5R-1, 124-125	194.74	F	P				r		F					F					R													F						F
	5R-CC	200.44	R	P						R																													
	6R-2, 124-125	205.64	F	P				r							R																				R				F
	6R-CC	208.67	F	M						R		F																						F					
Thalassiosira convexa	7R-1, 32-33	213.02	A	M			r			F	R	C	r		F		F		F				F		R			A	F	C					r	F
	7R-CC	219.91	C	M		r					F	F				R			F			r	F			R					R	F					r	r
	8R-2, 52-53	224.15	A	G	r		r			R	F		R							R			F	R	R	A	R			R						F	C
	8R-CC	226.59	F	P			r	r	r	R		F	r							R	R		F			R	R			R				r			r
	9R-1, 122-123	233.12	F	P						R						R																F						F
	9R-CC	236.61	C	M						R		F								F			F									F	F				F	
	10R-1, 124-125	242.84	A	G						R						F				C	C		R					C		R			R		r	F	F	F
	10R-CC	247.56	C	M					r	R	R	R						R		R	F					R		F						F			
	11R-CC	258.03	C	M					r	R		F						R		R	F		R			R		F						F		r	F
	12R-CC	268.08	C	P		r			r	R		R	r	r						R			R			R						F		r	R	r	
	13R-2, 124-125	273.24	C	M						F			r										R					C	F									F
Nitzschia miocenica	13R-CC	275.21	F	P						R		R	r		R					R	F										R	R					R
	14R-CC	285.19	F	P	r						R				R					R											R						R
	15R-CC	290.39	R	P																												R	R					R
	16R-CC	304.88	B																																		
	17R-2, 124-125	311.94	B																																		
	17R-CC	314.18	B																																		
	18R-CC	321.3	F	P											R			R			R										R	R					R
	19R-4, 49-50	332.84	B																																		
	19R-CC	333.82	B																																		
	20R-CC	344.47	R	P						R																					R	R					R
	21R-CC	351.65	R	P								R								R											R	R					R
	22R-CC	361.72	R	P	r																											R					R
	23R-CC	370.49	F	M			r								R			R		R	R					F				R	R					R
	24R-2, 124-125	379.14	A	G						F	R	R			F						R					F	F	A	R		R	R		r	A	r	F
	24R-CC	381.32	F	M																R	R		R		F	R		F			F				R		F

Table T4 (continued).

Diatom zone	Core, section, interval (cm)	Depth (mbsf)	Abundance	Preservation	Actinocyclus ellipticus	Actinocyclus ellipticus var. javanica	Actinocyclus ellipticus f. lanceolata	Actinocyclus ingens	Actinocyclus moronensis	Actinoptychus senarius + A. splendens	Asteromphalus elegans	Azpeitia nodulifer	Cestodiscus pulchellus	Coscinodiscus lewisianus	Coscinodiscus marginatus	Denticulopsis hustedtii	Fragilariopsis doliolus	Hemidiscus cuneiformis	Nitzschia fossilis	Nitzschia marina	Nitzschia miocenica	Nitzschia porteri	Nitzschia reinholdii	Rhizosolenia praebergonii var. robusta	Rhizosolenia praebergonii	Rossiella paleacea	Rossiella praepaleacea	Thalassionema nitzschioides	Thalassiosira convexa var. aspinosa	Thalassiosira miocenica	Thalassiosira oestrupii	Thalassiosira praeconvexa	Thalassiosira tappanae	Thalassiosira yabei	Thalassiothrix longissima	Triceratium pileus	Benthics + Chaetoceros
Nitzschia porteri	25R-CC	388.22	F	P						R		R			R													R			R						r
	170-1041C- 1R-1,134-135	389.57	C	M	R					R	R	R								R		R	R			F					F				F		
	1R-CC	397.61	R	P																R											R				R		
	2R-CC	407.51	F	M	R						R									R		R	R		R			F			R				F		
	3R-CC	415.54	F	P																R			R		R						R				R		

Notes: Abundance abbreviations: A = abundant, C = common, R = rare, B = barren, r = reworked. Preservation abbreviations: G = good, M = moderate, P = poor. Sz = subzone. The column labeled "Benthics + *Chaetoceros*" records the presence of one or more of the following diatom genera: *Chaetoceros, Cocconeis, Dephineis, Diploneis*, *Rhaponeis,* and *Paralia.* Shaded intervals reflect uncertainty in placement of zonal boundaries.