Table T2. Diatom range distribution chart for Site 1039. (See table notes. Continued on next two pages.)

Diatom zone	Core, section, interval (cm)	Depth (mbsf)	Abundance	Preservation	*Actinocyclus ellipticus*	*Actinocyclus ellipticus* f. *lanceolata*	*Actinocyclus ellipticus* var. *javanica*	*Actinocyclus ingens*	*Actinocyclus moronensis*	*Actinoptychus senarius* + *A. minutus*	*Annellus californicus*	*Asterolampra acutiloba*	*Asteromphalus elegans*	*Azpeitia nodulifer*	*Cavitatus jouseanus*	*Cestodiscus peplum*	*Cestodiscus pulchellus*	*Cestodiscus pulchellus* var. *maculatus*	*Coscinodiscus gigas* var. *diorama*	*Coscinodiscus lewisianus*	*Coscinodiscus lewisianus* var. *similis*	*Coscinodiscus marginatus*	*Craspedodiscus coscinodiscus*	*Crucidenticula nicobarica*	*Denticulopsis hustedtii*	*Fragilariopsis doliolus*	*Hemidiscus cuneiformis*	*Nitzschia cylindrica*	*Nitzschia fossilis*	*Nitzschia jouseae*	*Nitzschia marina*	*Nitzschia miocenica*	*Nitzschia porteri*	*Nitzschia reinholdii*	*Raphidodiscus marylandicus*	*Rhizosolenia praebergonii*	*Rhizosolenia praebergonii* var. *robusta*	*Rossiella paleacea*	*Rossiella praepaleacea*	*Thalassionema nitzschioides*	*Thalassiosira brunii*	*Thalassiosira convexa* var. *aspinosa*	*Thalassiosira grunowii*	*Thalassiosira miocenica*	*Thalassiosira oestrupii*	*Thalassiosira tappanae*	*Thalassiosira yabei*	*Thalassiothrix longissima*	*Triceratium pileus*	Benthics + *Chaetoceros*
	170-1039B-																																																		
	1H-CC	1.9	C	M					r	R		F	F	C								R				F					F					r				F					C			F		F
	2H-5	8.19	A	G						R				C												C	F				F									C					F			F		F
	3H-CC	20.43	A	M						F		F	F	C										r		F	F				F						r			F					C			r	r	F
Fragilariopsis doliolus	4H-1, 49-50	21.49	A	G										C												C	F				F						r			F					A					
	4H-CC	31.03	C	M										F												C	R				F						r								F				r	F
	5H-1, 49-50	30.99	A	G						F				F												C	F			R	F						r			F					A					
	5H-CC	40.38	A	G						R				F												C					C														C					
	6H-6, 123-124	48.73	A	M										R								F				F	R				C									C					C				r	F
	6H-CC	49.78	A	G										R													R				F			R						C					C					
	7H-2, 127-128	52.27	A	G						R			F	R								C				F	F		R		F			R			r			C					A				R	F
	7H-6, 124-125	58.24	C	P									R	R								R			r	F	R		R		R			R			r			F					F					
	7H-CC	59.48	A	M								R	R	F												F			R		F						r			C					F				r	F
Nitzschia reinholdii	8H-1, 49-50	59.49	A	M										C								F				F			R		F						r								A					F
	8H-CC	68.88	F	M									R	F															R		R						r								F					
	9H-5, 124-125	75.77	C	P									R	F												F			R		F						r			R					F				r	F
	9H-CC	78.37	C	M						R				F												R			R		R			R			r			F					F				r	F
	10H-3, 49-50	81.52	C	P										F												R			R		F						r			F										F
	10H-CC	87.98	F	P										F												R	R		R		R			R						F					F				F		R
	11H-1, 55-56	88.05	F	P										R															R		R														R				r	
	11H-2, 49-50	89.49	R	P																											R			R																R
	11H-4, 124-125	93.24	B																																															
	11H-5, 124-125	94.74	R	P																																														R
	11H-CC	97.37	B																																															
	12X-1, 123-124	98.23	R	P																											R			R																R
	12X-5, 123-124	104.23	R	P																																														R
	12X-CC	106.71	R	P																																				R								R		
	13X-6, 49-50	111.49	F	P										F															R					R											R		r			R
Undetermined	13X-CC	113.09	F	M						F		R	R	F													F		F		R			R			R								F			R		
	14X-2, 124-125	115.84	F	P										R											r		F		R		F			R			R			R					F					R
	14X-4, 124-125	118.84	R	P										R																										R										R
	14X-5, 124-125	120.34	R	P																																				R										R
	14X-CC	122.7	F	P																											R			R																
	15X-4, 124-125	128.44	B																																															
	15X-CC	132.42	B																																															
	16X-4, 124-125	137.94	B																																															
	16X-CC	141.77	B																																															
	17X-1, 124-125	143.04	B																																															

Table T2 (continued).

Diatom zone	Core, section, interval (cm)	Depth (mbsf)	Abundance	Preservation	*Actinocyclus ellipticus*	*Actinocyclus ellipticus* f. *lanceolata*	*Actinocyclus ellipticus* var. *javanica*	*Actinocyclus ingens*	*Actinocyclus moronensis*	*Actinoptychus senarius* + *A. minutus*	*Annellus californicus*	*Asterolampra acutiloba*	*Asteromphalus elegans*	*Azpeitia nodulifer*	*Cavitatus jouseanus*	*Cestodiscus peplum*	*Cestodiscus pulchellus*	*Cestodiscus pulchellus* var. *maculatus*	*Coscinodiscus gigas* var. *diorama*	*Coscinodiscus lewisianus*	*Coscinodiscus lewisianus* var. *similis*	*Coscinodiscus marginatus*	*Craspedodiscus coscinodiscus*	*Crucidenticula nicobarica*	*Denticulopsis hustedtii*	*Fragilariopsis doliolus*	*Hemidiscus cuneiformis*	*Nitzschia cylindrica*	*Nitzschia fossilis*	*Nitzschia jouseae*	*Nitzschia marina*	*Nitzschia miocenica*	*Nitzschia porteri*	*Nitzschia reinholdii*	*Raphidodiscus marylandicus*	*Rhizosolenia praebergonii*	*Rhizosolenia praebergonii* var. *robusta*	*Rossiella paleacea*	*Rossiella praepaleacea*	*Thalassionema nitzschioides*	*Thalassiosira brunii*	*Thalassiosira convexa* var. *aspinosa*	*Thalassiosira grunowii*	*Thalassiosira miocenica*	*Thalassiosira oestrupii*	*Thalassiosira tappanae*	*Thalassiosira yabei*	*Thalassiothrix longissima*	*Triceratium pileus*	Benthics + *Chaetoceros*
Undetermined	17X-3, 49-50	145.29	B																																																
	17X-4, 124-125	147.54	R	P																																															R
	17X-3, 49-50	145.29	B																																																
	17X-4, 124-125	147.54	R	P																																															R
	17X-5, 49-50	148.29	B																																																
	17X-5, 124-125	149.04	F	P										F		r						R																		R					R					R
	17X-6, 49-50	149.79	R	P																		R																		R										
Nitzschia jouseae	17X-CC	151.19	C	M	r				r					F																F	R			F			R											r		
	18X-1, 49-50	151.89	C	M										C								F								R	R									F					F					F
	18X-3, 124-125	154.14	C	P										F													F			R	R									C		R					F	r	R
	18X-4, 118-119	157.08	C	M										C								R					F			F	F			R						F		R					F		F
Thalassiosira convexa	18X-CC	160.97	A	M						R				R								R					R				R	R		R						A					R		A	r	
	19X-2, 44-45	163.04	A	M									R								r						F	F			F	R							R	C		F					F		
	19X-4, 124-125	166.84	A	G					r	R			R	C						r							F	F			F									C		F					F		
	19X-6, 49-50	169.09	C	M										F						r					r															C		F		R		r	F		F
Nitzschia miocenica to *Nitzschia porteri*	19X-CC	170.73	A	M																r												R						R		C									
	20X-2, 123-124	173.33	A	G										F		r						F			R		F												R	C									
	20X-5, 49-50	177.09	A	G										C													F						R						R	C									
Thalassiosira yabei	20X-CC	180.37	A	G						R															F		R												C							F	C	
Actinocyclus moronensis	21X-2, 124-125	182.94	A	G		R			F	R												F			F		R												C							F	C	F
	21X-5, 49-50	186.69	A	G						F												F			F		R						R						C							F	C	F
Craspedodiscus coscinodiscus	21X-CC	189.87	A	G									R							r			R		F													R							F	A	r	
	22X-4, 123-124	195.5	A	G																r			F		F													F	A						R	C		
	22X-CC	198.65	A	G				R																														F	C	R					F	C		
Coscinodiscus gigas var. *diorama*	23X-CC	208.76	A	G																r			C		C													F	C						F	A		
	24X-CC	218.43	A	G					F						F				R	r	r				C													F	C						R	A		
Coscinodiscus lewisianus	25X-CC	228.27	A	M										R						F			F	F	C													F					F			A		
	26X-CC	238	A	M				F												F			F	C	F														C							C		
	27X-CC	247.56	A	M													R						F	A	F													R	C							C		
	28X-CC	257.27	A	G		R		F							R					F	r		R	R	C													R	C					C		A		
	29X-CC	266.84	A	M																C				C	C														C							A		

Table T2 (continued).

Diatom zone	Core, section, interval (cm)	Depth (mbsf)	Abundance	Preservation	*Actinocyclus ellipticus*	*Actinocyclus ellipticus* f. *lanceolata*	*Actinocyclus ellipticus* var. *javanica*	*Actinocyclus ingens*	*Actinocyclus moronensis*	*Actinoptychus senarius* + *A. minutus*	*Annellus californicus*	*Asterolampra acutiloba*	*Asteromphalus elegans*	*Azpeitia nodulifer*	*Cavitatus jouseanus*	*Cestodiscus peplum*	*Cestodiscus pulchellus*	*Cestodiscus pulchellus* var. *maculatus*	*Coscinodiscus gigas* var. *diorama*	*Coscinodiscus lewisianus*	*Coscinodiscus lewisianus* var. *similis*	*Coscinodiscus marginatus*	*Craspedodiscus coscinodiscus*	*Crucidenticula nicobarica*	*Denticulopsis hustedtii*	*Fragilariopsis doliolus*	*Hemidiscus cuneiformis*	*Nitzschia cylindrica*	*Nitzschia fossilis*	*Nitzschia jouseae*	*Nitzschia marina*	*Nitzschia miocenica*	*Nitzschia porteri*	*Nitzschia reinholdii*	*Raphidodiscus marylandicus*	*Rhizosolenia praebergonii*	*Rhizosolenia praebergonii* var. *robusta*	*Rossiella paleacea*	*Rossiella praepaleacea*	*Thalassionema nitzschioides*	*Thalassiosira brunii*	*Thalassiosira convexa* var. *aspinosa*	*Thalassiosira grunowii*	*Thalassiosira miocenica*	*Thalassiosira oestrupii*	*Thalassiosira tappanae*	*Thalassiosira yabei*	*Thalassiothrix longissima*	*Triceratium pileus*	Benthics + *Chaetoceros*
	30X-CC	274.15	A	G			R	R								R	F			C			F	C	C															C					F		A		
	31X-CC	286.25	A	M				F	R			R		F		R	F			F		F		C																					F		C	r	
	32X-CC	296.14	A	M				F							F	R	C			F		F	F	C														F		F							A		
	33X-CC	305.67	A	M				C								F						C	F	F														F		F					F		C		
Cestodiscus peplum subzone B	34X-CC	315.36	A	G				F							F	R	F			R		C	F	F														R		C							A		
	35X-CC	324.86	A	M				F					R		F	R	F					F	R	F														R		F							C		
	36X-CC	334.62	A	M											F	F	F					F		F														R		F							C		
	37X-CC	344.23	A	G				C							C	R	F			C		F																C		F							A		
	38X-CC	353.85	A	M				C		R		R			F		C			F		F	R	R														F		F					R		C		
	39X-CC	363.32	A	M											F	R	A					F		C																F							C		
	40X-CC	372.89	A	M							R				C	R	C	C		F				R														F		C							A		
	41X-CC	378.15	B																																														
Cestodiscus peplum subzone A	170-1039C-																																																
	1R-4	366.92	A	M				F		R	R		R	F	F	F	F			R		C		F														F							R		A		
	2R-CC	375.85	A	M				F		R	F				C	F				F		F		F														F		F							C		
	3R-CC	386.39	A	M							R		R		C	F				F		F		F														F									C		
	4R-CC	393.6	C	M				R		R	R				C		C			F		F	R	F														F		F							C		
Crucidenticula nicobarica	5R-CC	403.06	C	P							R				R		C			F		F		F												R	R	R									F		
	6R-CC	417.28	A	M								R	R		F		C			F		C	F	F												R		F		F							C		
	7R-1	421.32	A	P							F	F	F		F		C			F		C	R	R														F		F							C		

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.