# ODP Proceedings, Scientific Results, Volume 183.

# Manuscript 183SR-009, Table T1. Stratigraphic distribution of diatom taxa, Hole 1140A.

Age	Diatom zone (Harwood and Maruyama, 1992)	Core, section, interval (cm)	Depth (mbsf)	Preservation Abundance	Actinocyclus curvatulus Actinocyclus ingens Actinocyclus karstenii	Actinocyclus ochotensis Actinocyclus octonarius	Actinocyclus oculatus Actinocyclus thumii Actinoptychus bipunctatus Actinoptychus senarius	Araniscus lewisianus Asterolampra insignis	Asterolampra marylandica Asteromphalus concavus Asteromphalus inaequabilis	Asteromphalus oligocenicus Asteromphalus symmetricus	Azpeitia endoi Azpeitia tabularis Biddulphia deodora	Cavitatus jouseanus Cestodiscus pulchellus	Corethron criophilum Coscinodiscus asteromphalus Coscinodiscus decrescens	Coscinodiscus marginatus Coscinodiscus monicae	Coscinodiscus rhombicus Craspedodiscus coscinodiscus	Crucidenticula ikebei Crucidenticula kanayae	Crucidenticula nicobanca Crucidenticula punctata Dactyliczolen antarcticus	Denticulopsis husted til	Denticulopsis raura Denticulopsis maccollumii Denticulopsis punctata	Dimerogramma fossile Ethmodiscus rex	Eucampia antarctica Goniothecium decoratum Hemiaulus sp. aff. H. gioanteus	Hemiaulus altus Hemiaulus danicus	remiautus varincus Hemiaulus inaequilaterus Hemiaulus incisus	Hemiaulus nicusus Hemiaulus polycystinorum Hemiaulus polycostinorum	Hemiaulus polymorphus Hemiaulus pungens Hemiaulus son	Nitzschia barronii Nitzschia barronii Nitzschia denticuloides	Nitzschia gentuctioues Nitzschia kerguelensis	Opephora gemmata Paralia sulcata	Pseudorocella barbadensis Pseudotriceratium chenevieri Deveilla indescentaria	ryxina jonisoniania Rhaphoneis cocconeides	ruaprones elorigata Rhizosolenia spp. Riedelia clavider	Rocella gelida Rocella praentitda	Rocella vigilans var. a (<40 µm) Rouxia granda	Rouxia spp. Sceptroneis aff. mayenica Scentroneis mavenica	Sceptroneis praecaducea Sceptroneis propingua	Sceptronels spp. Stephanogonia hanzawae	Stephanopyxis sp. (1 spire) Stephanopyxis barbadensis	Stephanopyxis eoceanica Stephanopyxis spinosissima Stephanopyxis turris croup	stepranopykis turris var. trispinosus Stephanopykis turris var. trispinosus Stirrhodiscus su. of S. kithonianus	Thalassionema schraderi Thalassionema schraderi Thalassiothrix longissima	Triceratium cruciforme Triceratium inelegans Triceratium macroborum	Triceratium pileus Triceratium schulzii	Triceratium spp. Xanthiopyxis oblonga
middle	N. denticuloides	183-1140A- 1R-2, 108-109 1R-3, 75-76 1R-4, 23-24 1R-5, 26-27 1R-CC, 9-14 2R-1, 25-26 2R-2, 100-102 2R-3, 100-102 2R-4, 100-102 2R-4, 100-102 3R-1, 100-102	2.58   3.75   4.73   5.66   6.15   9.75   12   13.5   15.7   15.7   19.6	M A M A M A M A M A M A M A M A M A M A	A F C A C C C C C C C F C	F C F F	FF FF FC FC FF RC F F	F R F R		R	C F C F	F	F F F F R F	C C C A A			F F C	C F C F F C F F C	R	F R F C C	R					r F F	f c F f F F F F	F R F F C			C R F C	R F		F		F R		F	F	R C A C C R C C F A C A C A C A C C C C C C	A F C A F A C C A	A F C A F A C A	F
WIDCENE	D. hustedtii– N. grossepunctata A. ingens var. nodus	3R-2, 25–27 3R-CC, 13–18 4R-1, 100–102 4R-2, 25–27 4R-CC, 11–6	20.35   20.77   28.9   29.65   29.99	M A M A M A M A M A	F RA C C	F C R	F F C F	F F C		R	C C F	F	F	C C F A F		F		C F	A C	C F C	R F							C				F R F		F F				F	F R C	C C C C A A	F	F	С
	N. grossepunctata A. ingens– D. maccollumii	5R-CC, 45–50 6R-1, 25–27 6R-1, 100–102 6R-2, 25–27 6R-2, 100–102 6R-2, 100–102	37.65   46.75   47.5   48.25   49	M A M A M A M A M A	CR F A RR C	F	F F F C	F A F F		R	F	C F R C	F F F	C F C F C	F		F F	2	FCAR FF	C	F				R			R F F			F	R F C F		R		F F R		R F F	R F R F	F A F C	F		R
early	D. maccollumii	7R-1, 25–26 7R-1, 100–101 7R-2, 25–26	55.85   56.6   57.35	M A M A M A	R R	F C	F F C	R			F	R C	R F F	F F C		R			С	F	R	2	R	I	R			F F F		R		F C C				R F R F				F C C			R R
Miocene	C. kanayae T. fraga c	9R-CC, 27–32 9R-1, 25–27 9R-1, 100–102	57.84 64.87 73.95 74.7	M A M A M A	кк	F C	C A C	F R R	R		F	A F	r r	c c	A	R				F	F	-		F	F			F F R			R	F F F				F		F C F	F C F	A C F F	R	R	F C
early Oligocene	R. vigilans a	9R-CC, 17-22 20R-1, 25-27 20R-1, 100-102 20R-2, 25-27 20R-2, 100-102 20R-3, 25-27 20R-4, 25-27 21R-1, 100-102 21R-2, 25-27 21R-1, 100-102 21R-2, 25-27 21R-3, 100-102 21R-4, 25-27 21R-5, 100-102 21R-5, 25-27 22R-1, 25-27 22R-1, 25-27 22R-1, 100-102 22R-2, 10-12 22R-2, 89-91 22R-3, 25-27 22R-3, 100-102 22R-4, 25-27 22R-4, 25-27 22R-4, 100-102	75.29     179.75     180.5     181.25     182.75     182.75     184.25     190.1     190.85     191.1     191.6     192.35     193.1     193.85     194.6     195.35     196.1     196.85     198.95     199.7     200.3     201.09     201.95     202.7     203.45	M A   M A	R F F	C F C C F C F C C F C	C F R C F F C C C F F C C F F C C F	R	R F F R R R F F F	R F F F F F F F F R R R R R R R R R R R	F	C F C F F F F F F F F F F F F F F F F F	F F F F F F F F F R F R	C F C C C C C C C C C C C C C C C C C C	R		F	۲		F R C C C F C C F C C F	F F F F F F F F R	= F F = = R = R	R F F R R F	F F   F F ( R   F (	FFF FFF FFC FCC FCC FCC FFC FFC FFC FC F	F F F		R F F R R R F C F	F F F F F F F F F F F F F F F C F F F F	F	F F R F F F	F R F F F F C C	C R C F F F F F F F F F F F F F F F F F	F F F R F R	F C F R C F F	F F F R R	F F R	F F F F C C F F C C F F F F F F F F F F	F FRCFF FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	A F F C C C A F C C F C C F C F C F F F F	R	R	F F F F F F F R R F R R F R
	C. jouseana	22R-4, 100-102 22R-5, 25-27 22R-5, 100-102 22R-6, 22-24 22R-6, 100-102 22R-CC, 15-20	204.2   204.95   205.7   206.42   207.2 207.79	M A M A M A P F P F P F	F	F	C R		R	R R F		F R R	F	F F C F F			F	8		L	R	8	R R F	F ( F	F C F C F F F F F	FR		F	F R F F F F	F	F R R	F C C F	F		F	F	R	F R F R F F F	F F F F F F	F F C R			к R F R

Notes: Preservation: G = good, M = moderate, P = poor. Abundance: A = abundant, C = common, F = few, R = rare. Lowercase letters = reworking caused by drilling disturbance.

Table T1. Stratigraphic distribution of diatom taxa, Hole 11-	40A
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Age	Diatom zone (Harwood and Maruyama, 1992)	Core, section, interval (cm)	Depth (mbsf)	Preservation	Abundance	Actinocyclus curvatulus	Actinocyclus ingens	Actinocyclus karstenii	Actinocyclus ochotensis	Actinocyclus octonarius	Actinocyclus oculatus	Actinocyclus thumii	Actinoptychus bipunctatus	Actinoptychus senarius	Araniscus lewisianus	Asterolampra insignis	Asterolampra marylandica	Asteromphalus concavus	Asteromphalus inaequabilis	Asteromphalus oligocenicus	Asteromphalus symmetricus	Azpeitia endoi	Azpeitia tabularis	Biddulphia deodora	Cavitatus jouseanus
	N. denticuloides	183-1140A- 1R-2, 108–109 1R-3, 75–76 1R-4, 23–24 1R-5, 26–27 1R-CC, 9–14 2R-1, 25–26 2R-2, 100–102 2R-3, 100–102 2R-4, 100–102 2R-4, 100–102	2.58 3.75 4.73 5.66 6.15 9.75 12 13.5 15 15.7	M M M M M M M M M	A A A A A A A A A		A F C A C C C C C	F		F F C F F	R		F F F R C	F F F C F F	F R F R						R	C F C	F		F
Miocene	D. hustedtii– N. grossepunctata	3R-1, 100–102 3R-2, 25–27 3R-CC, 13–18 4R-1, 100–102 4R-2, 25–27	19.6 20.35 20.77 28.9 29.65	M M M M	A A A A	R	C F A C	F		F				F F F C	F						R R	с			
	A. ingens var. nodus	4R-CC, 11–6 5R-CC, 45–50	29.99 37.65	M M	A A		C C	R		R				F F	С						R	С	F		
	N. grossepunctata	6R-1, 25–27 6R-1, 100–102	46.75 47.5	M M	A A		F A			F				F	F A					R		F			С
	A. ingens– D. maccollumii	6R-2, 25–27 6R-2, 100–102	48.25 49	M M	A A	R	R C			F				F	F										R C
	D. maccollumii	6R-CC, 13–18 7R-1, 25–26 7R-1, 100–101 7R-2, 25–26	49.33 55.85 56.6 57.35	M M M	A A A A	R R				F F C				F F C	⊦ R							F			R C
early Miocene	C. kanayae	7R-CC, 17–22 8R-CC, 27–32	57.84 64.87	M M	A A	R		R		F				R C	R F										А
	T. fraga c	9R-1, 25–27 9R-1, 100–102 9R-CC, 17–22	73.95 74.7 75.29	M M M	A A A					С				A C C	R R F				R					F	с
early Oligocene	R. vigilans a	20R-1, 25–27 20R-1, 100–102 20R-2, 25–27 20R-2, 100–102 20R-3, 25–27 20R-4, 25–27 21R-1, 100–102 21R-2, 25–27 21R-1, 100–102 21R-2, 25–27 21R-3, 100–102 21R-3, 25–27 21R-4, 100–102 21R-5, 25–27 21R-5, 100–102 21R-6, 25–27 22R-1, 25–27 22R-1, 100–102 22R-2, 10–12 22R-2, 89–91 22R-3, 25–27 22R-3, 100–102	179.75 180.5 181.25 182 182.75 184.25 190.1 190.85 191.1 191.6 192.35 193.1 193.85 194.6 195.35 196.1 196.895 199.7 200.3 201.09 201.95 202.7	M M M M M M M M M M M M M M M M M M M	A A A A A A A A A A A A A A A A A A A			R F	R	C F C C F C F C C F C F C F C		R R		F R C F F F F R C C C F F F F F C C F		R	R F R F F	R F R		FF FFFFFF RFFR RFFR R	R F	R F			R F F F F F F

Age	Diatom zone (Harwood and Maruyama, 1992)	Core, section, interval (cm)	Depth (mbsf)	Preservation	Abundance	Cestodiscus pulchellus	Corethron criophilum	Coscinodiscus asteromphalus	Coscinodiscus decrescens	Coscinodiscus marginatus	Coscinodiscus monicae	Coscinodiscus rhombicus	Craspedodiscus coscinodiscus	Crucidenticula ikebei	Crucidenticula kanayae	Crucidenticula nicobarica	Crucidenticula punctata	Dactyliozolen antarcticus	Denticulopsis hustedtii	Denticulopsis lauta	Denticulopsis maccollumii	Denticulopsis punctata	Dimerogramma fossile	Ethmodiscus rex	Eucampia antarctica
middle	N. denticuloides	183-1140A- 1R-2, 108–109 1R-3, 75–76 1R-4, 23–24 1R-5, 26–27 1R-CC, 9–14 2R-1, 25–26 2R-2, 100–102 2R-3, 100–102 2R-4, 100–102 2R-CC, 17–22	2.58 3.75 4.73 5.66 6.15 9.75 12 13.5 15 15.7	M M M M M M M M M	A A A A A A A A A A A A A A A A A A A	F	F F R	F		C C A A						F		F	C R F C C F F C F F		R		R	F F F C	
Miocene	D. hustedtii– N. grossepunctata	3R-1, 100–102 3R-2, 25–27 3R-CC, 13–18 4R-1, 100–102 4R-2, 25–27 4R-CC, 11–6	19.6 20.35 20.77 28.9 29.65 29.99	M M M M M	A A A A A	F		F		C C F A	C F			F			С		C C F	A	С			C F C	R R F
	A. ingens var. nodus N. grossepunctata A. ingens– D. maccollumii	5R-CC, 45–50 6R-1, 25–27 6R-1, 100–102 6R-2, 25–27 6R-2, 100–102	37.65 46.75 47.5 48.25 49	M M M M	A A A A	F		F F F		C F C F C		F						R F R		F	C A F F	R			F
	D. maccollumii	6R-CC, 13–18 7R-1, 25–26 7R-1, 100–101 7R-2, 25–26	49.33 55.85 56.6 57.35	M M M	A A A			R F F		C F F C					R						R C			C F F	
early Miocene	C. kanayae T. fraga c	7R-CC, 17–22 8R-CC, 27–32 9R-1, 25–27 9R-1, 100–102	57.84 64.87 73.95 74.7	M M M	A A A A	F		F		C C C		A			F R									F	
early Oligocene	R. vigilans a	9R-CC, 17-22 20R-1, 25-27 20R-1, 100-102 20R-2, 25-27 20R-2, 100-102 20R-3, 25-27 20R-4, 25-27 21R-1, 100-102 21R-2, 25-27 21R-1, 100-102 21R-3, 25-27 21R-3, 100-102 21R-4, 25-27 21R-4, 100-102 21R-5, 25-27 21R-5, 100-102 21R-6, 25-27 22R-1, 25-27 22R-1, 100-102 22R-2, 10-12 22R-2, 89-91 22R-3, 25-27 22R-3, 100-102	75.29 179.75 180.5 181.25 182.75 184.25 190.1 190.8 191.1 191.6 192.35 193.1 193.85 194.6 195.35 196.1 196.85 198.95 199.7 200.3 201.09 201.95 202.7	M M M M M M M M M M M M M M M M M M M	A A A A A A A A A A A A A A A A A A A	C R F F F		F F F F F F F F F F R	F	C F C C C C C C C C C C C C C C C C C C		F	R											F F R C C F C A F C C F	

Age	Diatom zone (Harwood and Maruyama, 1992)	Core, section, interval (cm)	Depth (mbsf)	Preservation	Abundance	Goniothecium decoratum	Hemiaulus sp. aff. H. giganteus	Hemiaulus altus	Hemiaulus danicus	Hemiaulus inaequilaterus	Hemiaulus incisus	Hemiaulus polycystinorum	Hemiaulus polymorphus	Hemiaulus pungens	Hemiaulus spp.	Nitzschia barronii	Nitzschia denticuloides	Nitzschia grossepunctata	Nitzschia kerguelensis	Opephora gemmata	Paralia sulcata	Pseudorocella barbadensis	Pseudotriceratium chenevieri	Pyxilla johnsoniania	Rhaphoneis cocconeides
middle Miocene	N. denticuloides D. hustedtii– N. grossepunctata	183-1140A- 1R-2, 108–109 1R-3, 75–76 1R-4, 23–24 1R-5, 26–27 1R-CC, 9–14 2R-1, 25–26 2R-2, 100–102 2R-4, 100–102 2R-4, 100–102 2R-CC, 17–22 3R-1, 100–102 3R-2, 25–27 3R-CC, 13–18 4R 1, 100–102	2.58 3.75 4.73 5.66 6.15 9.75 12 13.5 15 15.7 19.6 20.35 20.77 28.9	M M M M M M M M M M M	A A A A A A A A A A A A A A A											r	R F F	R F	f c f		F R F F C C				
	A. ingens var. nodus	4R-1, 100-102 4R-2, 25-27 4R-CC, 11-6 5R-CC, 45-50 6R-1 25-27	28.9 29.65 29.99 37.65 46.75	M M M M	A A A A																F R F				
	N. grossepunctata A. ingens–	6R-1, 100–102 6R-2, 25–27	47.5 48.25	M M	A A									R							F				
	D. maccollumii D. maccollumii	6R-2, 100–102 6R-CC, 13–18 7R-1, 25–26 7R-1, 100–101	49 49.33 55.85 56.6	M M M	A A A A		R			R			R	F							F				
early Miocene	C. kanayae	7R-2, 25–26 7R-CC, 17–22 8R-CC, 27–32	57.35 57.84 64.87	M M M	A A A		F														F				R
	T. fraga c	9R-1, 25–27 9R-1, 100–102 9R-CC, 17–22	73.95 74.7 75.29	M M M	A A A							F		F							F R R				
early Oligocene	R. vigilans a	20R-1, 25–27 20R-1, 100–102 20R-2, 25–27 20R-2, 100–102 20R-3, 25–27 20R-4, 25–27 21R-1, 100–102 21R-2, 25–27 21R-1, 100–102 21R-2, 100–102 21R-3, 25–27 21R-4, 100–102 21R-4, 25–27 21R-5, 100–102 21R-6, 25–27 22R-1, 25–27 22R-1, 25–27 22R-1, 100–102 22R-2, 10–12 22R-2, 89–91 22R-3, 25–27 22R-3, 100–102	179.75 180.5 181.25 182 182.75 184.25 190.1 190.85 191.1 191.6 192.35 193.1 193.85 194.6 195.35 196.1 196.85 198.5 199.7 200.3 201.09 201.95 202.7	M M M M M M M M M M M M M M M M M M M	A A A A A A A A A A A A A A A A A A A	F	FR FFF FR	F F R	R	F R R	F F R	FF	F F F F F F F F F F F F F	F F C C C C C C C F F F C C C C C C C C	F C A F					R	R F F R F R C F	F F F F F F F F F F F	F F F F F F F F C	F	

Age	Diatom zone (Harwood and Maruyama, 1992)	Core, section, interval (cm)	Depth (mbsf)	Preservation	Abundance	Rhaphoneis elongata	Rhizosolenia spp.	Riedelia claviger	Rocella gelida	Rocella praenitida	Rocella vigilans var. a (<40 µm)	Rouxia granda	<i>Rouxia</i> spp.	Sceptroneis aff. mayenica	Sceptroneis mayenica	Sceptroneis praecaducea	Sceptroneis propinqua	Sceptroneis spp.	Stephanogonia hanzawae	Stephanopyxis sp. (1 spire)	Stephanopyxis barbadensis	Stephanopyxis eoceanica	Stephanopyxis spinosissima	Stephanopyxis turris group	Stephanopyxis turris var. trispinosus
	N. denticuloides	183-1140A- 1R-2, 108–109 1R-3, 75–76 1R-4, 23–24 1R-5, 26–27 1R-CC, 9–14 2R-1, 25–26 2R-2, 100–102 2R-3, 100–102 2R-4, 100–102 2R-CC, 17–22	2.58 3.75 4.73 5.66 6.15 9.75 12 13.5 15 15	M M M M M M M M M M M M M M M M M M M	A A A A A A A A A A		C R F C		R F F				F					F	R					F	
middle Miocene	D. hustedtii– N. grossepunctata	3R-1, 100–102 3R-2, 25–27 3R-CC, 13–18 4R-1, 100–102 4R-2, 25–27	19.6 20.35 20.77 28.9 29.65	M M M M	A A A A				R	F			F											F	
	A. ingens var. nodus	4R-CC, 11–6 5R-CC, 45–50	29.99 37.65	M M	A A					F														C R	
	N. grossepunctata	6R-1, 25–27 6R-1, 100–102	46.75 47.5	M M	A A		F			R				R					F F			R		F	
	A. ingens– D. maccollumii	6R-2, 25–27 6R-2, 100–102	48.25 49	M M	A A		F		F	с								F	R					R F	
oorly	D. maccollumii	6R-CC, 13–18 7R-1, 25–26 7R-1, 100–101 7R-2, 25–26	49.33 55.85 56.6 57.35	M M M	A A A A					F F C C								R	F R F						
Miocene	C. kanayae	7R-CC, 17–22 8R-CC, 27–32	57.84 64.87	M M	A A		R		F	R														F	
	T. fraga c	9R-1, 25–27 9R-1, 100–102 9R-CC, 17–22	73.95 74.7 75.29	M M M	A A A				F	F F									F F					C F F	
early Oligocene	R. vigilans a	20R-1, 25-27 20R-1, 100-102 20R-2, 25-27 20R-2, 25-27 20R-2, 25-27 20R-4, 25-27 21R-1, 100-102 21R-2, 25-27 21R-1, 100-102 21R-2, 25-27 21R-3, 100-102 21R-4, 25-27 21R-4, 100-102 21R-6, 25-27 22R-1, 25-27 22R-1, 100-102 22R-2, 10-12 22R-2, 89-91 22R-3, 25-27 22R-3, 100-102	1 /9.75 180.5 181.25 182 182.75 184.25 190.1 190.85 191.1 191.6 192.35 193.1 193.85 194.6 195.35 196.1 196.85 198.95 199.7 200.3 201.09 201.95 202.7	M M M M M M M M M M M M M M M M M M M	A A A A A A A A A A A A A A A A A A A	F	F R F F	F		R F F F F F C C	C R C F F F F F F F F F F F F F F F F F	FF	R F R F R		F	R	C F F F F	F	F R R	F F	R		F F F F	F R C F F F F C F C C C A C F C C F F R C F	F

Age	Diatom zone (Harwood and Maruyama, 1992)	Core, section, interval (cm)	Depth (mbsf)	Preservation	Abundance	Stictodiscus sp. cf. S. kittonianus	Thalassionema schraderi	Thalassiosira spp.	Thalassiothrix longissima	Triceratium cruciforme	Triceratium inelegans	Triceratium macroporum	Triceratium pileus	Triceratium schulzii	Triceratium spp.	Xanthiopyxis oblonga
middle	N. denticuloides	183-1140A- 1R-2, 108–109 1R-3, 75–76 1R-4, 23–24 1R-5, 26–27 1R-CC, 9–14 2R-1, 25–26 2R-2, 100–102 2R-3, 100–102 2R-4, 100–102 2R-CC, 17–22	2.58 3.75 4.73 5.66 6.15 9.75 12 13.5 15 15.7	M M M M M M M M M M	A A A A A A A A A A	R	C F C	C C A C	A C C A C A C C			A F C A F A C A			F	
Miocene	D. hustedtii– N. grossepunctata	3R-1, 100–102 3R-2, 25–27 3R-CC, 13–18 4R-1, 100–102 4R-2, 25–27	19.6 20.35 20.77 28.9 29.65	M M M M	A A A A		C	С	C C A			F			С	
	A. ingens var. nodus	4R-CC, 11–6 5R-CC, 45–50	29.99 37.65	M	A				A F			F				
	N. grossepunctata	6R-1, 25–27 6R-1, 100–102	46.75 47.5	M M	A A				A A							R
	A. ingens– D. maccollumii	6R-2, 25–27 6R-2, 100–102	48.25 49	M M	A A				F C		F					
	D. maccollumii	6R-CC, 13–18 7R-1, 25–26 7R-1, 100–101 7R-2, 25–26	49.33 55.85 56.6 57.35	M M M	A A A A				A F C C							R R
early Miocene	C. kanayae	7R-CC, 17–22 8R-CC, 27–32	57.84 64.87	M M	A A				F A	R						
	T. fraga c	9R-1, 25–27 9R-1, 100–102 9R-CC, 17–22	73.95 74.7 75.29	M M M	A A A			F	C F A				R			F C
early Oligocene	R. vigilans a	20R-1, 25–27 20R-1, 100–102 20R-2, 25–27 20R-2, 100–102 20R-3, 25–27 20R-4, 25–27 21R-1, 100–102 21R-2, 25–27 21R-1, 100–102 21R-2, 100–102 21R-3, 25–27 21R-4, 100–102 21R-4, 25–27 21R-5, 100–102 21R-6, 25–27 22R-1, 25–27 22R-1, 25–27 22R-1, 100–102 22R-2, 10–12 22R-2, 89–91 22R-3, 25–27 22R-3, 100–102	179.75 180.5 181.25 182.75 184.25 190.1 190.85 191.1 191.6 192.35 193.1 193.85 194.6 195.35 196.1 196.85 198.95 199.7 200.3 201.09 201.95 202.7	M M M M M M M M M M M M M M M M M M M	A A A A A A A A A A A A A A A A A A A			C F F	FFAFCAFCC FFAF		R			R	R	F F F F F F F F R R F R F R

Table T1 (continued).

Age	Diatom zone (Harwood and Maruyama, 1992)	Core, section, interval (cm)	Depth (mbsf)	Preservation	Abundance	Actinocyclus curvatulus	Actinocyclus ingens	Actinocyclus karstenii	Actinocyclus ochotensis	Actinocyclus octonarius	Actinocyclus oculatus	Actinocyclus thumii	Actinoptychus bipunctatus	Actinoptychus senarius	Araniscus lewisianus	Asterolampra insignis	Asterolampra marylandica	Asteromphalus concavus	Asteromphalus inaequabilis	Asteromphalus oligocenicus	Asteromphalus symmetricus	Azpeitia endoi	Azpeitia tabularis	Biddulphia deodora	Cavitatus jouseanus
	C. jouseana	22R-4, 25–27 22R-4, 100–102 22R-5, 25–27 22R-5, 100–102 22R-6, 22–24 22R-6, 100–102 22R-6, 15–20	203.45 204.2 204.95 205.7 206.42 207.2 207.79	M M M P P P	A A A F F			F		F F				F C R			R R R			R R F					R F R R

Notes: Preservation: G = good, M = moderate, P = poor. Abundance: A = abundant, C = common, F = few, R = rare. Lowercase letters = reworking caused by drilling disturbance.

Age	Diatom zone (Harwood and Maruyama, 1992)	Core, section, interval (cm)	Depth (mbsf)	Preservation	Abundance	Cestodiscus pulchellus	Corethron criophilum	Coscinodiscus asteromphalus	Coscinodiscus decrescens	Coscinodiscus marginatus	Coscinodiscus monicae	Coscinodiscus rhombicus	Craspedodiscus coscinodiscus	Crucidenticula ikebei	Crucidenticula kanayae	Crucidenticula nicobarica	Crucidenticula punctata	Dactyliozolen antarcticus	Denticulopsis hustedtii	Denticulopsis lauta	Denticulopsis maccollumii	Denticulopsis punctata	Dimerogramma fossile	Ethmodiscus rex	Eucampia antarctica
	C. jouseana	22R-4, 25–27 22R-4, 100–102 22R-5, 25–27 22R-5, 100–102 22R-6, 22–24 22R-6, 100–102 22R-CC, 15–20	203.45 204.2 204.95 205.7 206.42 207.2 207.79	M M M P P P	A A A F F F			F		C F F C F								R R						С	

Age	Diatom zone (Harwood and Maruyama, 1992)	Core, section, interval (cm)	Depth (mbsf)	Preservation	Abundance	Goniothecium decoratum	Hemiaulus sp. aff. H. giganteus	Hemiaulus altus Hemiaulus danicus	Hemiaulus inaequilaterus	Hemiaulus incisus	Hemiaulus polycystinorum	Hemiaulus polymorphus	Hemiaulus pungens	Hemiaulus spp.	Nitzschia barronii	Nitzschia denticuloides	Nitzschia grossepunctata	Nitzschia kerguelensis	Opephora gemmata	Paralia sulcata	Pseudorocella barbadensis	Pseudotriceratium chenevieri	Pyxilla johnsoniania	Rhaphoneis cocconeides
	C. jouseana	22R-4, 25–27 22R-4, 100–102 22R-5, 25–27 22R-5, 100–102 22R-6, 22–24 22R-6, 100–102 22R-CC, 15–20	203.45 204.2 204.95 205.7 206.42 207.2 207.79	M M M P P P	A A A F F		F R		R R	R	F F F	C F	C C A	F F R						F F F	F F F F	R R F	F	

Age	Diatom zone (Harwood and Maruyama, 1992)	Core, section, interval (cm)	Depth (mbsf)	Preservation	Abundance	Rhaphoneis elongata	<i>Rhizosolenia</i> spp.	Riedelia claviger	Rocella gelida	Rocella praenitida	Rocella vigilans var. a (<40 µm)	Rouxia granda	<i>Rouxia</i> spp.	Sceptroneis aff. mayenica	Sceptroneis mayenica	Sceptroneis praecaducea	Sceptroneis propinqua	Sceptroneis spp.	Stephanogonia hanzawae	Stephanopyxis sp. (1 spire)	Stephanopyxis barbadensis	Stephanopyxis eoceanica	Stephanopyxis spinosissima	Stephanopyxis turris group	Stephanopyxis turris var. trispinosus
	C. jouseana	22R-4, 25–27 22R-4, 100–102 22R-5, 25–27 22R-5, 100–102 22R-6, 22–24 22R-6, 100–102 22R-CC, 15–20	203.45 204.2 204.95 205.7 206.42 207.2 207.79	M M M P P P	A A A A F F F		F R R			F C C F	F				R		R F	F			R		R	F C F F F F F	

Age	Diatom zone (Harwood and Maruyama, 1992)	Core, section, interval (cm)	Depth (mbsf)	Preservation	Abundance	Stictodiscus sp. cf. S. kittonianus	Thalassionema schraderi	Thalassiosira spp.	Thalassiothrix longissima	Triceratium cruciforme	Triceratium inelegans	Triceratium macroporum	Triceratium pileus	Triceratium schulzii	Triceratium spp.	Xanthiopyxis oblonga
	C. jouseana	22R-4, 25–27 22R-4, 100–102 22R-5, 25–27 22R-5, 100–102 22R-6, 22–24 22R-6, 100–102 22R-6, 15–20	203.45 204.2 204.95 205.7 206.42 207.2 207.79	M M M P P P	A A A F F				F F C R						R	R R F