ODP Proceedings, Scientific Results, Volume 177

Chapter 11, Table T3. Stratigraphic occurrence and relative abundance of diatom taxa from the Pliocene and Pleistocene, Site 1091.

Diatom zone	Core, section, interval (cm)	Depth a (mcd) cl	Depth bundance, eaned slide	Diatom abundance, uncleaned slide	Diatom preservation	Actinocyclus actinochilus Actinocyclus curvatulus Actinocyclus fasciculatus	Actinocyclus ingens var. A Actinocyclus karstenii Actinocyclus maccollumii Actinocyclus maccollumii	Actinocyclus sp. cr. actinocinius, eany rorm sensu harwood & iviaruyama (1992) Actinocyclus sp. f Actinocyclus sp. I Actinocyclus sp. M	Asteromphalus hookeri Asteromphalus hyalinus Asteromphalus parvulus Azpeitia nodulifer	Azpeitia tabularis Azpeitia sp. A Chaetoceros spp. (resting spores)	Corethron criophilum Coscinodiscus marginatus Coscinodiscus oculoides	Coscinodiscus oculus-iridis Coscinodiscus radiatus Coscinodiscus spp. Diploneis spp.	Ethmodiscus rex Eucampia antarctica Fragilariopsis aurica	Transition F. barronii/F. kerguelensis Fragilariopsis clementia Fragilariopsis curta Fragilariopsis cylindrus	Fragilariopsis efferans Fragilariopsis fossilis Fragilariopsis interfrigidaria	Fragilariopsis kerguelensis Fragilariopsis linearis Fragilariopsis matuyamae	rragilariopsis inatuyaniae var. neeropora Fragilariopsis obliquecostata Fragilariopsis praeinterfrigidaria Fragilariopsis reinholdii	Fragilariopsis rhombica Fragilariopsis ritscheri Fragilariopsis ritscheri var. A	r ragilariopsis separanda Fragilariopsis sublinearis Fragilariopsis weaveri Fragilariopsis sp. A (Gersonde, 1991)	Hemidiscus cuneiformis Hemidiscus karstenii Hemidiscus karstenii f. 1, sensu Ciesielski (1983) Hemidiscus sp. 1	Navicula directa Nitzschia sicula var. bicuneata Nitzschia sicula var. rostrata Odontella weissflogi	Paralia sulcata Pleurosigma spp. Porosira oseurdodenticulata	Proboscia alata Proboscia barboi Proboscia truncata Proboscia sp. A	Pseudo-nitzschia turgiduloides Rhizosolenia antennata f. antennata Rhizosolenia antennata f. semispina Rhizosolenia hebetata f. hebetata	Rhizosolenia hebetata f. semispina Rhizosolenia polydactyla f. polydactyla Rhizosolenia sp. cf. styliformis (big form) Rhizosolenia sp. B	Rhizosolenia sp. C Rouxia antarctica Rouxia constricta	Rouxia cf. californica Rouxia leventerae Rouxia naviculoides Stellarima microtrias	Stephanopyxis turris group Thalassionema bacillaris Thalassionema nitzschioides Thalassionema nitzschioides var. cf. antiqua Thalassionema nitzschioides var. cantulata	Thalassionema nitzschioides var. claviformis Thalassionema nitzschioides var. incurvata Thalassionema nitzschioides var. inflata	I halassionema nitzschioides var. lanceolata Thalassionema nitzschioides var. parva Thalassiosira antarctica Thalassiosira complicata	Thalassiosira convexa Thalassiosira convexa var. aspinosa Thalassiosira eccentrica Thalassiosira elliptioora	Thalassiosira elliptipora var. A Thalassiosira fasciculata Thalassiosira ferelineata	Inalassiosira trenguelliopsis/rrenguelli group Thalassiosira gracilis Thalassiosira gracilis var. expecta Thalassiosira gravida	Thalassiosira insigna Thalassiosira inura Thalassiosira insigna/T. inura transition form Thalassiosira kolhoi (flat touo)	Tratassiosira kolbei (trat type) Thalassiosira kolbei (convex type) Thalassiosira lentiginosa Thalassiosira lentiginosa var. 1	Thalassiosira lentiginosa var. 2 Thalassiosira lentiginosa var. obovatus Thalassiosira oestrupii Thalassiosira oestrupii	Thalassiosira oliverana var. 2 Thalassiosira oliverana var. 3 Thalassiosira oliverana var. 4	Tratassiosita oriverana var. sparsa Thalassiosita tertraoestrupii var. reimeri Thalassiosita torokina Thalassiosita turnida Thalassiosita turnida	Thalassiosira sp. A Thalassiosira sp. E Thalassiothrix antarctica-longissima group Thalassiothrix sp. A Trichotoxon reinboldii
T. lentiginosa	177-1091A- 1H-1, 79–80 1H-3, 79–80 1H-5, 79–80 2H-1, 79–80 2H-3, 79–80 2H-4, 79–80	0.79 3.79 6.70 10.61 13.61 15.11	A A A A	G-M M G M M	R R	R T F R T T		T T T	T F F F F F	F F F F	T T T R	R F R R	F F F R	R T T R	A A D D		T R R T R	R R R		T R	R	т	R	TRT R	T	R R	т	R	т	т	TR	т	R R R P T		A C T C C C	т	R F R R	R R R R R P	F T C T R F
SUDZONE C	2H-4, 79-80 2H-5, 79-80 3H-1, 79-80 3H-2, 79-80 3H-3, 79-80 3H-5, 79-80 2H 4, 70-80	16.61 19.37 20.87 22.37 25.37 26.87	A A A A A	M M M M M M	R T	R R R			T R T R T R F R F	F C F R F F F	T	T	F C F R R	R R R R	A A A A D		R R R R R	R R R	T R T	T R R F T	T T			F R T T		Т	R T R T	T		Т	RT	т	R R R R T		C T F C C	T T R R R C F F	R R R R R	R R R F R R R R R R T	F F F R F T F F
T. lentiginosa	3H-6, 79–80 4H-1, 79–80 4H-3, 79–80 4H-6, 79–80 5H-1, 79–80 5H-2, 79–80	20.87 29.89 32.89 37.39 39.24 40.74	A A A A A	G M M-G M-G M	R	R R R T R		R T	r F R C F	F F F F	Ţ	R R	R F F F	R R R R T	D D D D A		R R R R	R R R R R R R R R R	T		Т	т	R	R T R T T		Т	T T T			т	T T R		R R T R		C F C F C	F R R R R R R	R R R R R	R R F R	T F F R T R R
SUDZONE D	5H-5, 79–80 5H-5, 79–80 5H-CC, 9–15 177-1091D- 5H-CC, 11–16	42.24 45.24 47.14 48.70	A A A	G–M G–M	R T	R R T R		T T	F F T F F	F F F	т	R	R R F	T T	D D D		R	R R R F	T	RT	т	T R	Ť	T R R T	2	T T T	тт	т	R	R	Т	Т	R R T R		F C T C	R	R R R R	R R R T	R R R
	5H-CC, 6–11 177-1091A- 6H-1, 81 6H-1, 135 6H-2, 79–80	49.17 49.91 50.46 51.40	A A A A	G M M M	T T R F	R R		Т	F F R	R C			R F C C	R	D A D A		R T	R F T R R R	R T	R		T T		T R		R R R	T T	R R	R R R				R R R R T		C C C F	R	R R R T	T T R T	R R R R
T. lentiginosa	6H-4, 79–80 6H-5, 79–80 6H-6, 79–80 7H-2, 79–80 7H-4, 79–80 7H-6, 79–80	54.40 55.90 57.40 60.18 63.18 66.18	A A A A A	M G M G-M G-M	R R T	T R C R T R R		T T	T R C F F R	C F F F F		X R	F F F F R		A C A A A		R R F	R C F R R		R		T T T	T R	R T T T	R	F F F F F C	т : т т		т	T T T		R	R R R R		F C C C F	T F R T T	R R T F T	R R R T R T	F T F F R F T R R T
subzone a	7H-7, 80–81 8H-1, 79–80 8H-3, 79–80 8H-4, 79–80 8H-CC, 15–20 9H-1, 79–80	67.69 70.32 73.32 74.82 76.25 79.38	A A A A A	M M G-M M M	R T R T	R R R T R R R T R		R T R T R R	TR F FF F R TTR	F F F F F R	т	T X R R X	C F R F F	T T T	A A D A D	т	R R R R F F	T F F R F R F R F				T R R	T T T	T T T	T R	F F R F	тт т с			R T R	T T T T T	T T	R R R R R T R R		C C F C T C	R T T	R R T R R	R R R T T R T R T R	F R F R R R T F
	9H-2, 79–80 9H-3, 79–80 9H-4, 79–80 9H-5, 79–80 9H-CC, 11–16 10H-1, 79–80	80.88 82.38 83.88 85.38 86.67 89.82	A A A A A A	G-M G G-M G-M M M		R R F T C A F		R R T R R R	R R T R R R	F F R R R R		Т	F F F R F	R T	D D A A A		R R R R R R R F	R R F F T F	Τ	T		R T R R R T	T	T R T	? Т	R C R F F C F R	R				T T T	T	R T R R R R		F T F C C F C		R R R T F	R R T R T R T R R R R R	R R R R R R R R
A. ingens	10H-3, 79–80 10H-5, 79–80 11H-1, 79–80 11H-2, 79–80 11H-3, 79–80 11H-5, 79–80	92.82 95.82 99.69 101.19 102.69 105.69	A A A A A	G-M G G-M M M M	т	F F C C		т	T C T F T R T R C	R F F R F	т	x xx xx xx xx xx	F R R F F	R T R T R	A D A A A		F R R T T	F F R R T F T F R R	T T T		T	T T		R T R	R T	R C F R R R F	T T T T			R	T T R R F	. ТТ Т Т	R R		C F C F C	R R F T	R R T R F T F	T R T F T F R	FF RF RRT F RF RCR
subzone c	11H-6, 79–80 12H-1, 79–80 12H-3, 79–80 12H-5, 79–80 13H-1, 79–80 13H-1, 79–80 13H-3, 79–80	107.19 110.69 113.69 116.69 119.47 122.47	A A A A A	M M G–M M M		A C T C T F T F		T T R T	R R R R R T T	F C C F C C	т	R X X T X X X	F R R R R	тт	C C C A C C		R R R R R	R F R T F R R R R	т	т т		T R		T T T T		F R F F C R	T T T T				F C R C F C F C F C	R R R F R F	т		C F C T C T F	R	R F R R T R T R T R	R R T T T	R F C R F R F T T R F T R F T
	13H-6, 79–80 14H-1, 79–80 14H-3, 79–80 14H-6, 79–80 15H-1, 79–80 15H-1, 79–80	126.97 131.04 134.04 138.54 141.77 144.77	A A A A A	M M M M M	т	R F T C T F F R F		R T T	T T R R R R R R R R	F R F C C F		x x x	R R R R R	T R R	C A A A A		R R T R T R T R	R R R R R R R R F R	R R T R	R T	т	т	T R TR T	R T T T R R R	R T	F R F C R F F F R R R	T				FR FR FF FF TRR FF	R F R F R F R F R R F	R R T R R		C C F F F	T T R	R R T R R R	T T R T T R T	C R F T F F T C R R C R C
A. ingens	15H-4, 79-80 15H-5, 79-80 15H-CC, 11-21 16H-2, 79-80 16H-4, 79-80 16H-CC, 11-16	146.27 147.77 148.95 156.79 159.79 162.94	A A A A A	M M M M M	т	A T C R C T A C R A		T T	R R T T R T R	R R R R		X R X R X	R R T R R T I	т	C A A C A A		R R T T R R	T R F F R R F T R R					T T T T T	T T R R T R T F F	. Т	R T R R T	T	T			R R R R R T T R F	T T 1 R R R R R F 1 R R 1 F R 1	R R R T T		C T C C C C F	TT RT R TT	R R T T T	T T R	R F F R F F F R T R F F R T
subzone b	17H-2, 79-80 17H-4, 79-80 17H-6, 29-30 18H-2, 79-80 18H-5, 79-80 19H-2, 79-80	165.14 168.14 170.64 176.42 180.92 187.56	A A A A A	G-M M G G M		T A A T A R D T D	T	F T F T R T R R	T R T T F F R	R R R		X X X R X	R T R I T R T	Т	C A C C C		R T	T R R R R R T R T	T T			т	T R T T T T	RTR TT R T T R	R R R	R	T T T	T T R	R	т	R T	R R F T R F I R	T R T R		C F F F F	T R T T R R T	F T R R F R R		FF FRR FR F F F
	19H-5, 79-80 20H-2, 79-80 20H-4, 79-80 21H-1, 79-80 21H-2, 79-80 21H-3, 79-80	192.06 198.37 201.37 205.82 207.22 208.35	A A A A A A	M G M G-M G-M G	T	T D T D A D A T A		F T C T R R A A	T R T T T	Т	тт	R X X X R	R T R T T R		R T F R R		т т	R T R R T		T			T	T R T R T R T T	R T T T T T	T	T	R T R		T	T	R R R	T R R		F F F F F	R T T T	R T F R F	T T T T T T T R T T	R T R R R R R R
A. ingens subzone a	21H-4, 79-80 22H-1, 79-80 22H-2, 79-80 22H-3, 79-80 22H-4, 79-80 23H-1, 79-80	209.85 217.57 219.07 220.57 222.07 228.33	A A A A A	G M G-M G-M M G-M	т	T C T A T A R D A A		A C F R T T	T T R	R R R	T T T T T T T T T T R	R X R X X X X	R R R F (R R R R R	T	R T F F F		T T T	R R T R R	R T T			T T T	т т т т	R T F R T R R T R T T T T	R R R T T R	T R T R	T T	R R R R	T R T		R T T T	T R T T	T T T		F C F T C C	R T T R	R F R F F	T R R T C T R T	R R T R T R R R
	23H-5, 79-80 24H-CC, 10-15 25H-5, 79-80 25H-7, 79-80 26H-3, 79-80 26H-4, 79-80	234.33 247.70 254.40 256.90 261.12 262.62	A A A A A A	M-P G G M M M		A C A T A C C	T	R T T T R	т	R R R		R X X R X	R F (F F R R C (T R	R R F C	Т		R R T	т т т т			T	T T R	TRT T R R R R	T R	R	T	F AR CFT FCF FFT AFT	R R R R			R R T F T	R T T R T T	т	F C F F F	T R R R T T R	F F F	R R F R R R T F R R R	T T R R F R R R R R T
P. barboi	26H-5, 79–80 26H-CC, 18–23 177-1091B- 27H-CC, 12–17 177-1091A-	264.12 266.46 270.59	A A A	G-M G-M G		A A D		T	Т	R T R		R X R X	T C F (R	T		T	R				F F R	TRT T		T	T	R C C R F F T	F			F R R R			F F F	R	T F R	F R F	R R R T T R
T. kolbei/ F. matuyamae	27H-4, 79-80 27H-7, 29-30 28H-1, 79-80 28H-2, 79-80 28H-5, 79-80 29H-2, 79-80	271.68 275.68 277.90 279.40 288.64	A A A A A	M G–M M M M	T	T C T D T A T A C C	T T	R F R T	T T T T	R R R	R T	R X T X R X R	C F F R F F C	R	R	T T R T F F	T T	R R R R T F	T T T R F T F	Т			A R R F F T	T R R T T T T R R R R	R R R R T R R T F	R T R	T T T R	R R T T T	R		т	R R R R R T	T T T T T	R T T T R F	F C T C T C T C T C T C	R T R R T T	R R R T T R R F	F T F F T T F T F F T	T R T R T R R T R R R F R
	29H-4, 79–80 29H-6, 79–80 29H-7, 29–30 30H-1, 79–80 30H-2, 79–80 30H-3, 79–80	291.64 294.64 295.64 296.90 298.40 299.90	A A A A A	M-P M M M M		T T F T F C F R T R	T R I F R T R	R C T T	т т т	R R R F R F R R F R	R R R R	F X X X X X X	R F C F F C R F C T C	T	T R T T T T R	C R F R T T T T T	т	R R F R	R R F T F	R F		1	C R R T R	R T R T T T R R T T R	- T R R R R	T F T T F T	T T R	R RFR RR T RR	R	т	T T T T R R R	R T T 2 T	т	T C F T R T T R T F A F	R F F T C A F R F	R F F R R C F	R C T F F R F R R T R R F	F T C T R R F T F R T R R	R R T R T R R R T R R R R R R
T. vulnifica	30H-6, 79-80 31H-1, 79-80 31H-2, 79-80 31H-3, 79-80 31H-4, 79-80 31H-5, 79-80	304.40 306.40 307.90 309.40 310.90 312.40	A A A A A	M P G-M M-P M		R R T R T R	T R R F R F F R R F F R F R R	T T R T R	T T	R R R T T R	C A T R C A C A A A A A A A A A A A A A A A A	R X R X R X R X T R X	F T C C R R F T F F		T T T		R	F T T R	F R T T R F R T R	R T R R	т	т Т	ТТ	T T R T T R R R T R	- T R R T F T T T	R R T R T T	TR RT T TT	T R R R R A F A R	R R R	т	R T T F R T F	т т	T T T T R	T T C F T T T T R T R T T R	R F F C F T C C	F C T R R T	R C F F R C R F T	R R F R R T C T F T F	R F R R R R R R R R R R
T. insigna/ F. weaveri	31H-CC, 13–18 32H-1, 79–80 32H-3, 79–80 32H-5, 79–80 32H-CC, 30–35 33H-1, 79–80	312.97 315.90 318.90 321.90 322.38 325.40	A A A A A	M G-M G-M M-P M M	т	T R F T F	C R R T F	T T R R T	T T T R	R R F R	F T R T	R X R X	C T R R F T T T I T R	R	T R R R	Т	R T R F T T	F R	TRR F CT C C TC T C T	R R T	Т		T T T	F T R T R T T	T	R R T R	T T T	R F R R F R R R F T	T	R R T	Т Т Т Т Т	т.	T C C F T T	T R T A F F F C F R F C F T T A T T A F T	T F T R F R R C C C	R R C T R R T R R T	F F T C R F T F T R F F	T A R R T T T R	R R R R F R C T R R R F R
	33H-2, 79-80 33H-3, 79-80 33H-4, 79-80 33H-5, 79-80 33H-6, 79-80 33H-6, 21-26	326.90 328.40 329.90 331.40 332.90 333.56	A A A A A	G-M M M-P M P M		r F R R R F T R R	R R T	T	T T R T	R R R C F	T T	T X R	R R T R T R F R R (т	T R R R F C C		R T T R F R T R T	R R	FTT FR TF C FF FR	I R C R C T			T T	IR T T T	Т	R T F F F R	T T C F R	T T F R T T T	Т	T T	т	F	T	R T A F R R C R C F F T F	R C C A T C F C	T T T R F T T R T	R T F T F F	T R T	T R R R R F R R R

Notes: Abundance: D = dominant, A = abundant, C = common, F = few, R = rare, T = trace, X = present. Preservation: G = good, M = moderate, P = Poor.

Table T3. Stratigraphic occurrence and relative abundance of diatom taxa from the Pliocene and Pleistocene, Site 1091. (Continued on next 14 pages.)

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D ¹ .	C		Depth	Diatom	D ¹ · ·	õ õ	ğğ	ğ	õ	ğ	ğ	ğ	ğ
Diatom	Core, section,	Depth	abundance,	abundance,	Diatom	tin	ti	tir	tir	ti.	ti	Ę	tir
zone	interval (cm)	(mcd)	cleaned slide	uncleaned slide	preservation	A A	A d	AC	Ac	Ac	AG	A	A
	177-1091A-												
	1H-1, 79-80	0.79	А	G–M	R	R	Т						
	111 2 70 80	3 70	٨	M	D		E						
T 1	111-5, 7 2-00	5.77	~	101	n								
I. lentiginosa	1H-5, 79–80	6.70	A	G		к							
	2H-1, 79–80	10.61	A	M		Т							
	2H-3, 79-80	13.61	А	М		Т							
subzone c	2H_4 79 80	15 11	٨	M		D							
SUDZOTIE C	211-4, 79-00	13.11	A	IVI		ĸ	-						
	2H-5, 79–80	16.61	A	M	К		I						
	3H-1, 79–80	19.37	A	M	Т	Т							
	3H-2, 79-80	20.87	А	М		R							
	3H-3 79 80	22.37	٨	M		D							
	311-5, 7 2-00	22.37	~	101		ĸ							
	3H-5, 79-80	25.37	A	IVI									
	3H-6, 79–80	26.87	A	G		R	Т						
T. lentiginosa	4H-1, 79–80	29.89	А	G		R							
•	4H-3, 79-80	32.89	А	М									
	14 6 70 80	37 30	Λ	MC		D							
	11-0, 7 2-00	37.37	~				-						
	5H-1, 79-80	39.24	A	M–G	к	к	I						
	5H-2, 79–80	40.74	A	M		R							
subzone b	5H-3, 79–80	42.24	А	М									
	5H-5 79_80	45 24	Δ	C.	R	R							
	511-5,77-00	47.14	A .	C M	IN IN	n D	-						
	SH-CC, 9-15	47.14	A	G-M		ĸ	I						
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	JN-CC, 11-10	40.70	A	U-IVI			ĸ						
	177-1091F-												
	5H CC 6 11	40.17	٨	C	т								
	JH-CC, 0-11	49.17	A	U	1								
	177-1091A-												
	6H-1 81	40 01	Λ	NA	т		R						
		T7.71	~	171			IX						+
	011-1, 155	50.46	A	IVI	к -		к						
	6H-2, 79–80	51.40	A	M	F								
	6H-4, 79–80	54.40	А	M	R		Т						
	6H-5, 79-80	55.90	А	G	R		Т						
T lentiainesa	6H-6 70 80	57 10	Δ	M		R	Ċ						
i. ieritigiriosu	711 2 70 00	57.40	~			N							
	/H-2, /9–80	60.18	A	M			к						
	7H-4, 79–80	63.18	A	G–M		Т	R						
	7H-6, 79–80	66.18	А	G–M	Т		R						
subzone a	7H-7 80_81	67 69	Δ	M	R	R	R						
JUNE ONC U	0 1 70 00	70.02	A	N 4	IN IN		D						
	011-1, 79-80	70.32	A	IVI	_	-	к						
	8H-3, 79–80	73.32	A	M	Т	Т	R						
	8H-4, 79–80	74.82	А	G–M			R						
	8H-CC, 15-20	76.25	А	М	R		R					т	
		70.20	Λ.	N.4	т Т	т	 D					•	
	911-1, 79-80	/9.38	A	IVI	I	1	к						
	9H-2, 79–80	80.88	A	G–M		R	R						

Diatom zone	Core, section, interval (cm)	Actinocyclus sp. M	Asteromphalus hookeri	Asteromphalus hyalinus	Asteromphalus parvulus	Azpeitia nodulifer	Azpeitia tabularis	Azpeitia sp. A	Chaetoceros spp. (resting spores)	Corethron criophilum	Coscinodiscus marginatus	Coscinodiscus oculoides	Coscinodiscus oculus-iridis	Coscinodiscus radiatus	Coscinodiscus spp.	Diploneis spp.	Ethmodiscus rex	Eucampia antarctica	Fragilariopsis aurica	Fragilariopsis barronii	Transition F. barronii/F. kerguelensis	Fragilariopsis clementia	Fragilariopsis curta	Fragilariopsis cylindrus	Fragilariopsis efferans	Fragilariopsis fossilis	Fragilariopsis interfrigidaria	Fragilariopsis kerguelensis	Fragilariopsis linearis	Fragilariopsis matuyamae	Fragilariopsis matuyamae var. heteropola
	177-1091A- 1H-1, 79–80	т		т		F		F		т	т	т		R			F					R					А				т
T. lentiginosa	1H-3, 79–80 1H-5, 79–80 2H-1, 79–80	T T				F F F		F F F			R			F R			F F F					T T					A A D				
subzone c	2H-3, 79–80 2H-4, 79–80 2H-5, 79–80	т		T T		F R R		F F C			т			R R	т		R F F					R T R	R				D D A				R R R
	3H-1, 79–80 3H-2, 79–80			T T	R	R		F	R	Т							C F					F R					A				
	3H-5, 79–80 3H-5, 79–80 3H-6, 79–80			т	ĸ	F F F		F F R									R					R					D D				R
T. lentiginosa	4H-1, 79–80 4H-3, 79–80					R F		F F						R			R F					R					D D				R
	5H-1, 79–80 5H-2, 79–80	R T				F		F F						R			F F					R	т				D A				R
subzone b	5H-3, 79–80 5H-5, 79–80	R T		-		F F		F	т		Т						R R					Т					D D				
	эп-сс, 9-15 177-1091D- 5н.сс, 11, 14			I		F		F			т			к			Г														
	177-1091E- 5H-CC_6-11	т				F					I						R														
	177-1091A- 6H-1, 81	ľ				F											F										A				
	6H-1, 135 6H-2, 79–80			-		FR		R C									C C					R					D A				R
T. lentiainosa	6н-4, /9–80 6Н-5, 79–80 6Н-6, 79–80			ſ		К С F		C F F								х	F		т								A A C				
	7H-2, 79–80 7H-4, 79–80	T T				F		F						R			F F			Т							A A				
subzone a	7H-6, 79–80 7H-7, 80–81 8H-1, 79, 80	R T			Т	R R ⊑		F F							т		R C										A A				R
	8H-3, 79–80 8H-4, 79–80	R		R T		F		F F	Т							Х	R R					T T					A D				
	8H-CC, 15–20 9H-1, 79–80 9H-2, 79–80	R R R		R T R	т	R R		F R F		Т			R	R		х	F F F					T R					A D D	Т			

Diatom zone	Core, section, interval (cm)	Fragilariopsis obliquecostata	Fragilariopsis praeinterfrigidaria	Fragilariopsis reinholdii	Fragilariopsis rhombica	Fragilariopsis ritscheri	Fragilariopsis ritscheri var. A	Fragilariopsis separanda	Fragilariopsis sublinearis	Fragilariopsis weaveri	Fragilariopsis sp. A (Gersonde, 1991)	Hemidiscus cuneiformis	Hemidiscus karstenii	Hemidiscus karstenii f. 1, sensu Ciesielski (1983)	Hemidiscus sp. 1	Navicula directa	Nitzschia sicula var. bicuneata	Nitzschia sicula var. rostrata	Odontella weissflogii	Paralia sulcata	Pleurosigma spp.	Porosira pseudodenticulata	Proboscia alata	Proboscia barboi	Proboscia truncata	Proboscia sp. A	Pseudo-nitzschia turgiduloides	Rhizosolenia antennata f. antennata	Rhizosolenia antennata f. semispina	Rhizosolenia hebetata f. hebetata	Rhizosolenia hebetata f. semispina
	177-1091A- 1H-1, 79–80			R								т						R									Т	R		т	
T. lentiginosa	1H-3, 79–80 1H-5, 79–80			R			R					R									Т							R			
	2H-1, 79–80 2H-3, 79–80			Т	R		R										R									R					
subzone c	2H-4, 79–80 2H-5, 79–80			T R	R R			Т				-					Т	R		т	T T							F			
	3H-1, 79–80 3H-2, 79–80			R	к		R	к Т				R			R	Т					1							R		Т	
	3H-5, 79–80 3H-5, 79–80			ĸ			R					Т							т		Ŧ						Ì	'			
T. lentiginosa	4H-1, 79–80			R	R		R	Т				к Т			T						1					R	Ì	R		Т	
	4H-3, 79–80 4H-6, 79–80				к		R					-			1			Ŧ		-							Ì	к		-	
	5H-1, 79–80 5H-2, 79–80			R	R		R	T				-			Т			-		I				_						T T	
subzone b	5H-3, 79–80 5H-5, 79–80			к R	R		R	1 -				1						I		Т				T				Т		I R T	
	SH-CC, 9–15 177-1091D-				к		F	I												к								к		I	
	5H-CC, 11–16			R	R		R					R			Т		Т										Т				
	5H-CC, 6–11				R		F													Т										т	
	177-1091A- 6H-1, 81			R	Т		R				R	R																Т			
	6H-1, 135 6H-2, 79–80			T T	R R			т												т								R			
	6H-4, 79–80 6H-5, 79–80						R													т							Ì	R			
T. lentiginosa	6H-6, 79–80 7H-2, 79–80			R R			R C													т							Ì	Т			
	7H-4, 79–80 7H-6, 79–80			R F	R		F								R					Т				т		R	Ì	T T			
subzone a	7H-7, 80–81 8H-1, 79–80			R R	Т		F													Т					Т					_	т
	8H-3, 79–80 8H-4, 79–80			R R	R R		F																Т		т			т		T T	R
	8H-CC, 15–20 9H-1, 79–80			F R			R F													R R				Т							
	9H-2, 79–80	1	Т	R	R		R	Т												R	Т						1			Т	

Diatom zone	Core, section, interval (cm)	Rhizosolenia polydactyla f. polydactyla	Rhizosolenia sp. cf. styliformis (big form)	Rhizosolenia sp. B	Rhizosolenia sp. C	Rouxia antarctica	Rouxia constricta	Rouxia cf. californica	Rouxia leventerae	Rouxia naviculoides	Stellarima microtrias	Stephanopyxis turris group	Thalassionema bacillaris	Thalassionema nitzschioides	Thalassionema nitzschioides var. cf. antiqua	Thalassionema nitzschioides var. capitulata	Thalassionema nitzschioides var. claviformis	Thalassionema nitzschioides var. incurvata	Thalassionema nitzschioides var. inflata	Thalassionema nitzschioides var. lanceolata	Thalassionema nitzschioides var. parva	Thalassiosira antarctica	Thalassiosira complicata	Thalassiosira convexa	Thalassiosira convexa var. aspinosa	Thalassiosira eccentrica	Thalassiosira elliptipora	Thalassiosira elliptipora var. A	Thalassiosira fasciculata	Thalassiosira ferelineata	Thalassiosira frenguelliopsis/frenguelli group
	177-1091A- 1H-1, 79–80					R				т					R				т												R
T. lentiginosa	1H-3, 79–80 1H-5, 79–80					R														Т					Т	R				Т	
subzone c	2H-1, 79–80 2H-3, 79–80 2H-4, 79–80	т								т																					R R
	2H-5, 79–80 3H-1, 79–80					Т		R R		Т											Т										R
	3H-2, 79–80 3H-3, 79–80							Т							Т															т	R
T lentiainosa	3H-5, 79–80 3H-6, 79–80 4H-1, 79, 80							т							R						т				R	Т					R
n. Tentiginosa	4H-3, 79–80 4H-6, 79–80							•													'					T T					R
	5H-1, 79–80 5H-2, 79–80					т		T T																	R						T R
subzone b	5H-3, 79–80 5H-5, 79–80					R T									т					R					т						T R
	5H-CC, 9–15					Т		Т		Т																				Т	R
	5H-CC, 11–16					Т													R												R
	177-1091E- 5H-CC, 6–11																														R
	177-1091A- 6H-1, 81					R									R				R												R
	6H-1, 135 6H-2, 79–80					R R				T T			R		R			R	R												R R
	6H-4, 79–80 6H-5, 79–80					F F				т										т											R
T. lentiginosa	6H-6, 79–80 7H-2, 79–80	R				F														т								R			R R
	7H-4, 79–80 7H-6, 79–80					F F	с	т		т									Т	Т											R R
subzone a	7H-7, 80–81 8H-1, 79–80					F F		Т		Т										т	R				т			Т		т	R
	8H-3, 79–80 8H-4, 79–80						R	Т																	Т	Т					R R
	8H-CC, 15–20 9H-1, 79–80					F F					Т										R					T T					R
	9H-2, 79–80					R	С					Ì														Т	Ì				R

Table T3 (continued).

Diatom zone	Core, section, interval (cm)	Thalassiosira gracilis	Thalassiosira gracilis var. expecta	Thalassiosira gravida	Thalassiosira insigna	Thalassiosira inura	Thalassiosira insigna/T. inura transition form	Thalassiosira kolbei (flat type)	Thalassiosira kolbei (convex type)	Thalassiosira lentiginosa	Thalassiosira lentiginosa var. 1	Thalassiosira lentiginosa var. 2	Thalassiosira lentiginosa var. obovatus	Thalassiosira lineata	Thalassiosira oestrupii	Thalassiosira oliverana var. 1	Thalassiosira oliverana var. 2	Thalassiosira oliverana var. 3	Thalassiosira oliverana var. 4	Thalassiosira oliverana var. sparsa	Thalassiosira tetraoestrupii var. reimeri	Thalassiosira torokina	Thalassiosira trifulta	Thalassiosira tumida	Thalassiosira vulnifica	Thalassiosira sp. A	Thalassiosira sp. E	Thalassiothrix antarctica-longissima group	Thalassiothrix sp. A	Trichotoxon reinboldii
T. lentiginosa	177-1091A- 1H-1, 79-80 1H-3, 79-80 1H-5, 79-80 2H-1, 79-80 2H-3, 79-80 2H-4, 70-80	R	Ŧ						A C C C		Т		Т	т				R F R R				R R R R	R				F R C R F		Т	
Subzone c	2H-4, 79–80 2H-5, 79–80 3H-1, 79–80	R	'						C C	т			T R	T R				R				R	F				F		R	
T. lentiginosa subzone b	3H-2, 79-80 3H-3, 79-80 3H-5, 79-80 3H-6, 79-80 4H-1, 79-80 4H-3, 79-80 4H-6, 79-80 5H-1, 79-80 5H-2, 79-80 5H-3, 79-80 5H-5, 79-80 5H-5, 79-80	R	Т						F C C C C F C F C F C F C F C C C C C C	Т			R R T	C F R F R R R		т	R R	R R R R R R R R R				R R T R R F R	R R R R R R R T			T T R	F F R F F R R R R R	т	Т	
	177-1091D- 5H-CC, 11–16								с					R				R									R			
	177-1091E- 5H-CC, 6–11								С									R					Т				R			
	177-1091A- 6H-1, 81								C					R				R				-	Т				R			
T. lentiginosa	6H-1, 135 6H-2, 79-80 6H-4, 79-80 6H-5, 79-80 6H-6, 79-80 7H-2, 79-80 7H-4, 79-80 7H-6, 79-80	Т							C F F C C C C F				R F	T R T T			т	к Т R F T		т		R R R	R T T				R F F F R R		T R T T	
subzone a	7H-7, 80–81 8H-1, 79–80 8H-3, 79–80 8H-4, 79–80 8H-CC, 15–20 9H-1, 79–80 9H-2, 79–80	R R T	R						C C F C F		T			R T T		R		R R T R R T				R R T T R	R T R R R R			т	F F R R F R		R	

Diatom zone	Core, section, interval (cm)	Depth (mcd)	Depth abundance, cleaned slide	Diatom abundance, uncleaned slide	Diatom preservation	Actinocyclus actinochilus Actinocyclus curvatulus	Actinocyclus fasciculatus Actinocyclus ingens Actinocyclus ingens var. A	Actinocyclus karstenii Actinocyclus maccollumii Actinocyclus sp. cf. actinochilus, early form sensu Harwood & Maruyama (1992) Actinocyclus sp. F Actinocyclus sp. I
	9H-3, 79–80 9H-4, 79–80 9H-5, 79–80 9H-CC 11–16	82.38 83.88 85.38 86.67	A A A	G G–M G–M		R T	F F C	
	10H-1, 79–80 10H-3, 79–80	89.82 92.82	A	M G–M	_		F	
A. ingens	10H-5, 79–80 11H-1, 79–80 11H-2, 79–80	95.82 99.69 101.19	A A A	G G–M M	I		F	
	11H-3, 79–80 11H-5, 79–80	102.69	A A	M			C C	
subzone c	11H-6, 79–80	107.19	A	M			A	
Subzone c	12H-3, 79–80	113.69	A	M		Т	C	
	12H-5, 79–80 13H-1, 79–80	116.69	A	M M		T	F	
	13H-3, 79–80 13H-6, 79–80	122.47 126.97	A A	M M	т	R	F	
	14H-1, 79–80 14H-3, 79–80	131.04 134.04	A A	M M	т	T T	C F	
	14H-6, 79–80 15H-1, 79–80	138.54 141.77	A A	M			F	
	15H-3, 79–80	144.77	A	M		R	F	
	15H-5, 79–80	140.27	A	M		Т	C	
	16H-2, 79–80	148.95 156.79	A	M	Т	к Т	A	
A. ingens	16H-4, 79–80 16H-CC, 11–16	159.79 162.94	A A	M M		R	C A	
	17H-2, 79–80 17H-4, 79–80	165.14 168.14	A A	G–M M		Т	A T A	F
subzone b	17H-6, 29–30 18H-2, 79–80	170.64 176.42	A A	M		т	A A	F
	18H-5, 79–80	180.92	A	G		R	D	R
	19H-2, 79–80 19H-5, 79–80	192.06	A	M	Т	T	D	F
	20H-2, 79–80 20H-4, 79–80	198.37 201.37	A A	G M		Т	D A	R C
	21H-1, 79–80 21H-2, 79–80	205.82 207.22	A	G–M G–M			D A	R A
	21H-3, 79-80	208.35	A A	G		T T	A C	A A
A. ingens	22H-1, 79–80	217.57	A	M	-	Ť	A	C
	22H-2, 79–80 22H-3, 79–80	219.07 220.57	A A	G–M G–M	Т	R	A D	F

Diatom zone	Core, section, interval (cm)	Actinocyclus sp. M Asteromphalus hookeri Asteromphalus hyalinus Asteromphalus parvulus Azpeitia nodulifer	Azpeitia tabularis Azpeitia sp. A Chaetoceros spp. (resting spores) Corethron criophilum Coscinodiscus marginatus	Coscinodiscus oculoides Coscinodiscus oculus-iridis Coscinodiscus radiatus Coscinodiscus spp. Diploneis spp.	Ethmodiscus rex Eucampia antarctica Fragilariopsis aurica Fragilariopsis barronii Transition F. barronii/F. kerguelensis	Fragilariopsis clementia Fragilariopsis curta Fragilariopsis cylindrus Fragilariopsis efferans Fragilariopsis fossilis	Fragilariopsis interfrigidaria Fragilariopsis kerguelensis Fragilariopsis linearis Fragilariopsis matuyamae Fragilariopsis matuyamae var. heteropola
A. ingens subzone c	9H-3, 79-80 9H-4, 79-80 9H-5, 79-80 9H-5, 79-80 9H-5, 79-80 10H-3, 79-80 10H-3, 79-80 11H-1, 79-80 11H-2, 79-80 11H-5, 79-80 11H-6, 79-80 12H-1, 79-80 12H-1, 79-80 13H-1, 79-80 13H-6, 79-80 13H-6, 79-80 14H-7, 79-80 14H-6, 79-80 15H-1, 79-80 15H-1, 79-80	R T R T R R R R R R R R T C T F T R T R T R T R T R T R T R T R	F R R R F F F C C F C F R F C C F F C C F F C C F F C C F F C C F F C C F	T X XX XX XX XX X X X X X X X X X X X X	F F F R F F R R F F R R R R R R R R R R	T R T R T R T T T R R	D R D A A A A D A A A T A T A C C C C A C C C A C C C A A T A T A T A
A. ingens subzone b A. ingens	15H-4, 79-80 15H-5, 79-80 15H-CC, 11-21 16H-2, 79-80 16H-4, 79-80 16H-CC, 11-16 17H-2, 79-80 17H-4, 79-80 17H-6, 29-30 18H-2, 79-80 19H-2, 79-80 19H-5, 79-80 20H-2, 79-80 21H-2, 79-80 21H-2, 79-80 21H-3, 79-80 22H-1, 79-80 22H-1, 79-80 22H-2, 79-80	T R R T R R T T R T T R T T R T T R T T F T F T R R R T R R T T R R T T T R R T T T R R T T T R	R R R R R R R R R R T T T T T T	T R X R X R X R X X R X R X R X R X R X R	R T T R F R T R R T R R T F R R F R T F R C R C R C R F R F R F R F R F R F R F R F R F R F	T T T	C R R A C A A C A A C A A C C C C R T F F F F F F F F F F F F F F F F F F

DATA REPORT: PLIOCENE-PLEISTOCENE DIATOM STRATIGRAPHY

Table T3 (continued). ____

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Diatom zone	Core, section, interval (cm)	Fragilariopsis obliquecostata	Fragilariopsis praeintertrigidaria	rruginariopsis reintroiai Fraailariopsis rhombica	Fragilariopsis ritscheri	Fragilariopsis ritscheri var. A	Fragilariopsis separanda	Fragilariopsis sublinearis	Fragilariopsis weaveri	Fragilariopsis sp. A (Gersonde, 1991)	Hemidiscus cuneiformis	Hemidiscus karstenii	Hemidiscus karstenii f. 1, sensu Ciesielski (1983)	Hemidiscus sp. 1	Navicula directa	Nitzschia sicula var. bicuneata	Nitzschia sicula var. rostrata	Odontella weissflogii	Paralia sulcata	Pleurosigma spp.	Porosira pseudodenticulata	Proboscia alata	Proboscia barboi	Proboscia truncata	Proboscia sp. A	Pseudo-nitzschia turgiduloides	Rhizosolenia antennata f. antennata	Rhizosolenia antennata f. semispina	Rhizosolenia hebetata f. hebetata	Rhizosolenia hebetata f. semispina
	9H-3, 79–80 9H-4, 79–80 9H-5, 79–80 9H-CC, 11–16 10H-1, 79–80			R R R R T R F		F F F								т					R R R	т				Т					R T	т
A. ingens	10H-3, 79–80 10H-5, 79–80 11H-1, 79–80 11H-2, 79–80			F R R F R F	1	F F R F	т т										Т													
	11H-3, 79–80 11H-5, 79–80 11H-6, 79–80			T R F R F		F R F	T												T T T								т		R R T	
subzone c	12H-1, 79–80 12H-3, 79–80 12H-5, 79–80 13H-1, 79–80			R R R T R F	-	R F R								т					R								T T		T T	
	13H-3, 79–80 13H-6, 79–80 14H-1, 79–80			R R R R R	: : :	R R R	T R							T R	т				т				т	R			T R T		T T	
	14H-3, 79–80 14H-6, 79–80 15H-1, 79–80 15H-3, 79–80		т	R F R F R F		R R R	T R							I	Т				т				T T	R T			R R		R	R
	15H-4, 79–80 15H-5, 79–80 15H-CC, 11–21 16H-2, 79–80			RT RF TR F	-	R F R																	т т	т			T R	R	T T T	
A. ingens	16H-4, 79–80 16H-CC, 11–16 17H-2, 79–80		Т	RT RF TT		R R	_															Т	_	Т			R F R	T	T F R	т
subzone b	17H-4, 79–80 17H-6, 29–30 18H-2, 79–80 18H-5, 79–80			R R R	Т	к R R	т Т												т				т Т	к Т Т			I R	ı T	т	R R
	19H-2, 79–80 19H-5, 79–80 20H-2, 79–80 20H-4, 79–80		Т	TR R R		T T	Т																				T T R		R R T T	т
	21H-1, 79–80 21H-2, 79–80 21H-3, 79–80			т т		Т					Т											Т					R T R		т	T R T
A. ingens	21H-4, 79–80 22H-1, 79–80 22H-2, 79–80 22H-3, 79–80			T R T	R R T		т		R T										T T			T T				т	R F R T		T R R R	R

Diatom zone	Core, section, interval (cm)	Rhizosolenia polydactyla f. polydactyla	Rhizosolenia sp. cf. styliformis (big form)	Rhizosolenia sp. B	Rhizosolenia sp. C	Rouxia antarctica	Rouxia constricta	Rouxia cf. californica	Rouxia leventerae	Rouxia naviculoides	Stellarima microtrias	Stephanopyxis turris group	Thalassionema bacillaris	Thalassionema nitzschioides	Thalassionema nitzschioides var. cf. antiqua	Thalassionema nitzschioides var. capitulata	Thalassionema nitzschioides var. claviformis	Thalassionema nitzschioides var. incurvata	Thalassionema nitzschioides var. inflata	Thalassionema nitzschioides var. lanceolata	Thalassionema nitzschioides var. parva	Thalassiosira antarctica	Thalassiosira complicata	Thalassiosira convexa	Thalassiosira convexa var. aspinosa	Thalassiosira eccentrica	Thalassiosira elliptipora	Thalassiosira elliptipora var. A	Thalassiosira fasciculata	Thalassiosira ferelineata	Thalassiosira frenguelliopsis/frenguelli group
	9H-3, 79–80 9H-4, 79–80 9H-5, 79–80 9H-CC, 11–16					R F	F F C	R																		T T					R R R
	10H-1, 79–80 10H-3, 79–80 10H-5, 79–80					F R	R	T T			Т															т	т		т	T T	R
A. ingens	11H-1, 79–80 11H-2, 79–80 11H-3, 79, 80	т				C F	D	Т													R					T R P		т		т	R
	111-5, 79–80 11H-5, 79–80 11H-6, 79–80					R F	F																			F		T R			R T
subzone c	12H-1, 79–80 12H-3, 79–80 12H-5, 79–80					R F F			т																	C C C	R F F	R			т
	13H-1, 79–80 13H-3, 79–80					F	R	T T		т																C C	F	R			
	13H-6, 79–80 14H-1, 79–80 14H-3, 79–80					F C	R																			F	R R R	F			R R
	14H-6, 79–80 15H-1, 79–80		т			F F D	F R P		т															т		F R	F R	F R			T R
	15H-4, 79–80 15H-5, 79–80					R	T R																			R	T R	T R			R
	15H-CC, 11–21 16H-2, 79–80 16H-4, 79–80						т			Т			Т											R T	т		R R R	R F R			R R
A. ingens	16H-CC, 11–16 17H-2, 79–80									T			R												-		F R	R			T T
subzone b	17H-4, 79–80 17H-6, 29–30 18H-2, 79–80					R				I	т		Т											к Т				R F R		т	к Т
	18H-5, 79–80 19H-2, 79–80				т			T T						Т	R				R		т							FR			R R
	20H-2, 79–80 20H-2, 79–80 20H-4, 79–80	т						1					т	ĸ														R			т
	21H-1, 79–80 21H-2, 79–80 21H 3, 70, 80	\vdash	т		Т т		\vdash						R				\vdash				Т				T T		-	R R			R R
A. ingens	2111-3, 79–80 21H-4, 79–80 22H-1, 79–80		I		T					т			R						т						R						
-	22H-2, 79–80 22H-3, 79–80				R	т				т			R R		R				R						T T	Т		R		Т	

Diatom zone	Core, section, interval (cm)	Thalassiosira gracilis Thalassiosira gracilis var. expecta Thalassiosira gravida	Thalassiosia inura Thalassiosira insigna/T. inura transition form	Thalassiosira kolbei (flat type) Thalassiosira kolbei (convex type) Thalassiosira lentiginosa Thalassiosira lentiginosa var. 1	Thalassiosira lentiginosa var. 2 Thalassiosira lentiginosa var. obovatus Thalassiosira lineata Thalassiosira oestrupii Thalassiosira oliverana var. 1	Thalassiosira oliverana var. 2 Thalassiosira oliverana var. 3 Thalassiosira oliverana var. 4 Thalassiosira oliverana var. sparsa Thalassiosira tetraoestrupii var. reimeri	Thalassiosira torokina Thalassiosira trifulta Thalassiosira tumida Thalassiosira vulnifica Thalassiosira sp. A	Thalassiosira sp. E Thalassiothrix antarctica-longissima group Thalassiothrix sp. A Trichotoxon reinboldii
A. ingens subzone c	9H-3, 79–80 9H-4, 79–80 9H-5, 79–80 9H-CC, 11–16 10H-1, 79–80 10H-3, 79–80 10H-5, 79–80 11H-2, 79–80 11H-2, 79–80 11H-5, 79–80 11H-5, 79–80 12H-3, 79–80 12H-3, 79–80 13H-6, 79–80 13H-6, 79–80 13H-6, 79–80 13H-6, 79–80 13H-6, 79–80 13H-6, 79–80 13H-1, 79–80 13H-1, 79–80 14H-1, 79–80 15H-1, 79–80 15H-1, 79–80	Т		F C C F C C F C C F C C F F C C F F F C C C F F C C F C C F C F	T R R F T T T T R T T T T T T T T	R T R R F R T R F F R R R R R R R R R R R	R R T T R R R T R R R R T T T T T T T T T T T T T	R R R R R R R R R F R F R R F R R R R R T R R R R R R R R R R R R R
A. ingens subzone b A. ingens	15H-4, 79-80 15H-5, 79-80 15H-5, 79-80 16H-2, 79-80 16H-2, 79-80 16H-CC, 11-16 17H-2, 79-80 17H-4, 79-80 17H-6, 29-30 18H-2, 79-80 18H-2, 79-80 19H-2, 79-80 20H-2, 79-80 20H-2, 79-80 21H-1, 79-80 21H-2, 79-80 21H-3, 79-80 22H-1, 79-80 22H-1, 79-80 22H-2, 79-80 22H-2, 79-80	т		C T C C F C F F F F F F F F F F F F F F F F	I T R T R T T T R T T R T R T T T T T T T	К R T T T T R R R R R R R R T F R R R T F R R R R R R R R R R R R R	T T T T T T T T T T T T T T T	K F F R T F R T F R T F R T F F F R R F T F R T R R R R R R R R R R R R R R R R R R

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Table T3 (continued).

Diatom zone	Core, section, interval (cm)	Depth (mcd)	Depth abundance, cleaned slide	Diatom abundance, uncleaned slide	Diatom preservation	Actinocyclus actinochilus Actinocyclus curvatulus	Actinocyclus fasciculatus Actinocyclus ingens Actinocyclus ingens var. A	Actinocyclus karstenii	Actinocyclus maccollumii Actinocyclus sp. cf. actinochilus, early form sensu Harwood & Maruyama (1992)	Actinocyclus sp. F	
subzone a	22H-4, 79–80 23H-1, 79–80	222.07	A	M G–M			A A		R		
	23H-5, 79–80	234.33	A	M–P			A				
	24H-CC, 10–15 25H-5, 79–80	247.70	A	G			A		R		
	25H-7, 79–80	256.90	А	М		Т	А				
	26H-3, 79-80	261.12	A	M			<u>с</u>				_
P. barboi	26H-4, 79–80 26H-5, 79–80	262.62	A	G–M			A				
	26H-CC, 18–23	266.46	A	G–M			A				
	177-1091B-										
	27H-CC, 12–17	270.59	A	G			D				
	177-1091A-										
	27H-4, 79–80	271.68	A	М	Т	T	C	-	R		
	27H-7, 29-30 28H-1, 79-80	275.68	A	G-M M		Т		1	F		
T. kolbei/	28H-2, 79–80	279.40	A	M		т	A		R		
F. matuyamae	28H-5, 79–80	283.90	А	М			С Т				
	29H-2, 79-80	288.64	A	M	R	тт	C E				
	29H-4, 79-80 29H-6, 79-80	291.64	A	M		Т	F	R	R		
	29H-7, 29–30	295.64	A	М			CFR			(2
	30H-1, 79–80	296.90	A	M			F T			-	Г
	30H-2, 79-80 30H-3, 79-80	298.40 299.90	A	M		т	к R R		I		
T. vulnifica	30H-6, 79–80	304.40	A	M		-	R T			-	Г
	31H-1, 79–80	306.40	A	М			R R	R		Т	
	31H-2, 79-80 31H-3 79-80	307.90	A	P G–M		т	R F	R	R	к Т	
	31H-4, 79–80	310.90	A	M–P		•	R F	F	R	R	_
	31H-5, 79–80	312.40	A	М		T	R F	R	R	-	
	31H-CC, 13–18	312.97	A	M	т	Т	R C	R	R	Т.	г
T. insigna/	32H-3, 79–80	318.90	A	G–M	1						'
F. weaveri	32H-5, 79–80	321.90	А	M–P			FΤ			R	
	32H-CC, 30–35	322.38	A	M		т	F			R	
	33H-2, 79–80	325.40 326.90	A	ivi G–M		т Т	г г F	Т		I	
	33H-3, 79–80	328.40	A	М		R	R				
	33H-4, 79–80	329.90	A	M–P			R	_	Т		
	33H-5, 79-80 33H-6, 79-80	331.40 332.90	A	M		т	⊦ R ₽	R			
	33H-CC, 21–26	333.56	A	M			RT				

Notes: Abundance: D = dominant, A = abundant, C = common, F = few, R = rare, T = trace, X = present. Preservation: G = good, M = moderate, P = Poor.

Diatom	Core, section, interval (cm)	Actinocyclus sp. M	Asteromphalus hookeri	Asteromphalus hyalinus	Asteromphalus parvulus	Azpeitia nodulifer	4zpeitia tabularis	4 <i>zpeitia</i> sp. A	<i>Chaetoceros</i> spp. (resting spores)	Corethron criophilum	Coscinodiscus marginatus	Coscinodiscus oculoides	Coscinodiscus oculus-iridis	Coscinodiscus radiatus	Coscinodiscus spp.	<i>Jiploneis</i> spp.	thmodiscus rex	ucampia antarctica	ragilariopsis aurica	ragilariopsis barronii	ransition F. barronii/F. kerguelensis	ragilariopsis clementia	ragilariopsis curta	ragilariopsis cylindrus	ragilariopsis efferans	ragilariopsis fossilis	ragilariopsis interfrigidaria	ragilariopsis kerguelensis	ragilariopsis linearis	ragilariopsis matuyamae	ragilariopsis matuyamae var. heteropola
subzone a	22H-4, 79–80 23H-1, 79–80	T	~	R	4	4	4	T	0	т	TR	0	0	0	0	XXX	H	Ш	R	F	-	4	-		-	-	F	-			F
	23H-5, 79-80 23H-5, 79-80 24H-CC, 10-15 25H-5, 79-80 25H-7, 79-80 26H-3, 79-80	T T T		т				R R R		T T	T T T			R		X X X X X	R		F F F F R	C F F F F		т					R R R F C		т		
P. barboi	26H-4, 79–80 26H-5, 79–80 26H-CC, 18–23	R T					т	R R						R R		X X	R T		C C F	C F C		R					F R	Т			
	177-1091B- 27H-CC, 12–17			Т				R								х	т		F	F											
T. kolbei/ F. matuyamae	177-1091A- 27H-4, 79-80 27H-7, 29-30 28H-1, 79-80 28H-2, 79-80 28H-5, 79-80 29H-2, 79-80 29H-4, 79-80 29H-6, 79-80 29H-6, 79-80 29H-7, 29-30 30H-1, 79-80	т	т	т т т		T T T	R R F	R R R R R		R R R R R		T	т	R R R		× × × × × × × × × × × × ×	T R F R F R F R		C F F F F F F F F F	F F F F C F C F C		R				т	R R R R	т	T F F C F R T	T R T	
T. vulnifica	30H-2, 79-80 30H-3, 79-80 30H-6, 79-80 31H-1, 79-80 31H-2, 79-80 31H-3, 79-80 31H-4, 79-80 31H-5, 79-80 31H-CC, 13-18 32H-1, 79-80 32H-3, 79-80		т			T T T T T	R	F R R R R R R R R R		F C A R R C R F	т	т	т	R R R R R		× × × × × × × × × × × × × × × × × × ×	T C R T C R	т	F C F C R F F R F	C F F F F F F F	R	T T R		T R R R		T R T T	Т	т	T	т	
F. weaveri	32H-5, 79-80 32H-CC, 30-35 33H-1, 79-80 33H-2, 79-80 33H-3, 79-80 33H-4, 79-80 33H-5, 79-80 33H-6, 79-80 33H-CC, 21-26					T R T T R T		R F R R R R R C F		T T T			Т	R R		X X X X X	T R T F	Т	F T R R R R	F R T R F C				т	T R	- R R R R R F C C					

Diatom zone	Core, section, interval (cm)	Fragilariopsis obliquecostata	Fragilariopsis praeinterfrigidaria	Fragilariopsis reinholdii	Fragilariopsis rhombica	Fragilariopsis ritscheri	Fragilariopsis ritscheri var. A	Fragilariopsis separanda	Fragilariopsis sublinearis	Fragilariopsis weaveri	Fragilariopsis sp. A (Gersonde, 1991)	Hemidiscus cuneiformis	Hemidiscus karstenii	Hemidiscus karstenii f. 1, sensu Ciesielski (1983)	Hemidiscus sp. 1	Navicula directa	Nitzschia sicula var. bicuneata	Nitzschia sicula var. rostrata	Odontella weissflogii	Paralia sulcata	Pleurosigma spp.	Porosira pseudodenticulata	Proboscia alata	Proboscia barboi	Proboscia truncata	Proboscia sp. A	Pseudo-nitzschia turgiduloides	Rhizosolenia antennata f. antennata	Rhizosolenia antennata f. semispina	Rhizosolenia hebetata f. hebetata	Rhizosolenia hebetata f. semispina
subzone a	22H-4, 79–80 23H-1, 79–80 23H-5, 79–80			Т	R	R	R	т	т	т										T T			T T		т		т	T R		T T T	T R
	24H-CC, 10–15 25H-5, 79–80 25H-7, 79–80 26H-3, 79–80				т	R																	т					Т		R R	Т
P. barboi	26H-4, 79–80 26H-5, 79–80 26H-CC, 18–23				R T			Т															R F F				т	R R T		R T	
	177-1091B- 27H-CC, 12–17									R													R								
T. kolbei/ F. matuyamae	177-1091A- 27H-4, 79-80 27H-7, 29-30 28H-1, 79-80 28H-2, 79-80 28H-5, 79-80 29H-2, 79-80 29H-6, 79-80 29H-6, 79-80 29H-7, 29-30 30H-1, 79-80		T T		R R R	R T F R		т	Т	T F F R R F		T										т	A R R F F C R R		т		т	T R T R R R T	T T	T R R T T R R R	R T T R
T. vulnifica	30H-2, 79–80 30H-3, 79–80 30H-6, 79–80 31H-1, 79–80 31H-2, 79–80 31H-3, 79–80		Т			R F T		Т	T T R	F F R		F R T		R					Т		T T	т	R T				т	T T R R R		R T T R	
T. insigna/ F. weaveri	31H-4, 79-80 31H-5, 79-80 31H-CC, 13-18 32H-1, 79-80 32H-3, 79-80 32H-5, 79-80 32H-CC, 30-35 33H-1, 79-80 33H-2, 79-80 33H-3, 79-80 33H-4, 79-80 33H-5, 79-80 33H-6, 79-80 33H-CC, 21-26	R T R T R T R T R T R	T T R F			T R F R R R		T T T	R T R F C C C C F F F C F F	R R T F R	T T R	R R T T R R T	с	с					Т			т	T T T				т	T R F R T R T T	Т	T T T	

Diatom zone	Core, section, interval (cm)	Rhizosolenia polydactyla f. polydactyla	Rhizosolenia sp. cf. styliformis (big form)	Rhizosolenia sp. B	Rhizosolenia sp. C	Rouxia antarctica	Rouxia constricta	Rouxia cf. californica	Rouxia leventerae	Rouxia naviculoides	Stellarima microtrias	Stephanopyxis turris group	Thalassionema bacillaris	Thalassionema nitzschioides	Thalassionema nitzschioides var. cf. antiqua	Thalassionema nitzschioides var. capitulata	Thalassionema nitzschioides var. claviformis	Thalassionema nitzschioides var. incurvata	Thalassionema nitzschioides var. inflata	Thalassionema nitzschioides var. lanceolata	Thalassionema nitzschioides var. parva	Thalassiosira antarctica	Thalassiosira complicata	Thalassiosira convexa	Thalassiosira convexa var. aspinosa	Thalassiosira eccentrica	Thalassiosira elliptipora	Thalassiosira elliptipora var. A	Thalassiosira fasciculata	Thalassiosira ferelineata	Thalassiosira frenguelliopsis/frenguelli group
subzone a	22H-4, 79-80 23H-1, 79-80 23H-5, 79-80 24H-CC, 10-15 25H-5, 79-80 25H-7, 79-80 26H-3, 79-80	R	Т		R	R		т		т			R F F	A C F	R F F	T			T R R					Т				T T R R T			T R T T R
P. barboi	26H-4, 79–80 26H-5, 79–80 26H-CC, 18–23 177-1091B-				T T	Т		т					с	A R R	F C F	Т		т	R F									F F R		T R	R
T. kolbei/ F. matuyamae	27H-CC, 12-17 177-1091A- 27H-4, 79-80 27H-7, 29-30 28H-1, 79-80 28H-2, 79-80 29H-2, 79-80 29H-2, 79-80 29H-4, 79-80 29H-7, 29-30 30H-1, 79-80	R R F R			R T R T F T	т		<u> </u>	T R T T	T	т	R	T T R	F R T	R R				R R				т	т	T	T T	T T R	R R R R R T T		T T	T T T
T. vulnifica T. insigna/ F. weaveri	30H-2, 79-80 30H-2, 79-80 30H-6, 79-80 31H-1, 79-80 31H-2, 79-80 31H-2, 79-80 31H-4, 79-80 31H-5, 79-80 31H-5, 79-80 32H-1, 79-80 32H-5, 79-80 32H-CC, 30-35 33H-1, 79-80 33H-2, 79-80 33H-2, 79-80 33H-4, 79-80 33H-5, 79-80	T R R T T	T	T T T	F T R R T R R T R R T R R R R F F	r			R T R T T T C	R T T T	R		R T R R R R R R R R T T F R T T	R R R A F A F R F T	R		R	R R T	т		т	T	R R T	R R F T T T T T	T R T		т		Т	т <u>т</u> т	T
	33H-CC, 21–26				R				F		R		Т									Т						F			

Table T3 (continued).

Diatom zone	Core, section, interval (cm)	Thalassiosira gracilis	i nalasiosira graciiis var. expecta Thalaceineira aranida	Thalassinstin instand	Thalassiosira inura	Thalassiosira insigna/T. inura transition form	Thalassiosira kolbei (flat type)	Thalassiosira kolbei (convex type)	Thalassiosira lentiginosa	Thalassiosira lentiginosa var. 1	Thalassiosira lentiginosa var. 2	Thalassiosira lentiginosa var. obovatus	Thalassiosira lineata	Thalassiosira oestrupii	Thalassiosira oliverana var. 1	Thalassiosira oliverana var. 2	Thalassiosira oliverana var. 3	Thalassiosira oliverana var. 4	Thalassiosira oliverana var. sparsa	Thalassiosira tetraoestrupii var. reimeri	Thalassiosira torokina	Thalassiosira trifulta	Thalassiosira tumida	Thalassiosira vulnifica	Thalassiosira sp. A	Thalassiosira sp. E	Thalassiothrix antarctica-longissima group	Thalassiothrix sp. A	Trichotoxon reinboldii
subzone a	22H-4, 79–80 23H-1, 79–80 23H-5, 79–80 24H-CC, 10–15 25H-5, 79–80 25H-7, 79–80 26H-3, 79–80			1	-			C F C F F F				Т	T R R R T	т			F F F F		C R R F R F		R R	T T			T R	R R R	R T R F R	т	
P. barboi	26H-4, 79–80 26H-5, 79–80 26H-CC, 18–23 177-1091B- 27H-CC, 12–17	Т	T					F F F					R R			T	R F R		R F F		R R			R	Т	R R R	R R R	т т	
T. kolbei/ F. matuyamae	177-1091A- 27H-4, 79-80 27H-7, 29-30 28H-1, 79-80 28H-2, 79-80 28H-5, 79-80 29H-4, 79-80 29H-4, 79-80 29H-6, 79-80 29H-7, 29-30 30H-1, 79-80	T T T			T T T	R T T R C R R	T T R R T	F C C C C C F F C A	т		R R	т	R T R F F R	R	R T R T	T R R	R R R F C F R	т	F F F F C R		T T T R	T T	Т	T T	т	R R R R R R	T R F R R R R	T R T T	
T. vulnifica	30H-2, 79–80 30H-3, 79–80 30H-6, 79–80 31H-1, 79–80 31H-2, 79–80 31H-3, 79–80	т	· T T	ר ר ר	т т т т	F A C T	R R	F F F C F				Т	C F C R		T R R	R R	R F C F F		F R R	Т	T R R	C T	F R F R	R		R R R R	R F R R R	R	
T. insigna/ F. weaveri	31H-4, 79-80 31H-5, 79-80 31H-CC, 13-18 32H-1, 79-80 32H-3, 79-80 32H-CC, 30-35 33H-1, 79-80 33H-2, 79-80 33H-2, 79-80 33H-4, 79-80 33H-5, 79-80 33H-6, 79-80 33H-CC, 21-26	т		R F T T C 4 C C F C F 4 F F 4 F F 4 F F F F F F F F F F F F		R F R T T A R F T	T R R R	C C F F R C C C C C A C F C	т			R T T R T R	R T R C R T T T T T T	Т		R F R	C F F F F F F F F F F F	T R T T	Т	т	т	T	F F A R R T	R R R	т	R R R R R R	R R F C R F R R R	T R R R	