

Table T3. Palynological results from samples of Hole 1172A. (See table notes. Continued on next five pages.)

Core, section, interval (cm)	Median Depth	N (palyomorphs)	N (dinocysts)	N (sporomorphs)	N (foram linings)	N (acritarchs)	Cysts per gram	Unit	Association	<i>Achomosphaera alcornu</i>	<i>Achomosphaera ramulifera</i>	<i>Airetiana verrucosa</i>	<i>Alterbidinium distinctum</i>	<i>Alterbidinium/Senegalinium</i> spp.	<i>Areoligera semicirculata?</i>	<i>Batiacasphaera</i> spp.	<i>Brigantidinium?</i> sp.	<i>Cerebrocysta/Pyxidiniopsis</i> spp.	<i>Cleistosphaeridium</i> spp.	<i>Cordosphaeridium fibrospinosum</i>	<i>Cordosphaeridium minimum</i>
189-1172A-																					
38X-CC, 24-29	353.67	0	0	0	0	0	0	Pel	B												
39X-2, 3-5	356.14	172	167	0	1	4		Pel						1			4				
39X-2, 135-137	356.29	0	0	0	0	0	0	Pel	B												
39X-2, 10-12	357.46	0	0	0	0	0	0	Pel	B												
39X-3, 42-44	357.71	0	0	0	0	0	0	Pel	B												
39X-3, 61-63	358.03	0	0	0	0	0	0	Pel	B												
39X-3, 74-76	358.22	0	0	0	0	0	0	Pel	B												
39X-3, 85-87	358.35	0	0	0	0	0	0	Pel	B												
39X-3, 100-102	358.46	0	0	0	0	0	0	Pel	B												
39X-3, 105-107	358.61	0	0	0	0	0	0	Pel	B												
39X-3, 118-120	358.66	0	0	0	0	0	0	Pel	B												
39X-3, 122-124	358.79	419	385	13		21	6,000	Tra	3				1				294	2	3		1
39X-3, 128-130	358.83	298	280	8		10		Tra	3								220			1	
39X-3, 138-140	358.89	380	292	54		34	4,000	Tra	3								158	2	1	3	
39X-3, 145-147	358.99	418	260	88	1	69	6,000	Tra	3					1			58	5	1	1	
39X-3, 148-150	359.06	222	153	37	2	30		Tra	3		2	1		1			49	1	2	2	
39X-3, 5-7	359.09	221	133	41	4	43	2,000	Tra	3								22	6		1	
39X-4, 10-12	359.16	284	211	41	3	29		Tra	3				1				12		4	1	10
39X-4, 14-16	359.21	207	149	35	2	21		Tra	3				1				16	1	12	1	
39X-4, 25-27	359.25	432	257	108	3	64	2,000	Tra	3						4		48	8	14.5		1
39X-4, 30-32	359.36	209	124	45	5	35		Tra	2				1				13		12		
39X-4, 40-42	359.41	246	125	89	2	30	2,000	Tra	2								6	2	6	1	3
39X-4, 44-46	359.51	241	189	29	3	20		Tra	2								29		9	1	
39X-4, 45-47	359.55	405	250	100	1	54	3,000	Tra	2		1				3		12	2	14		1
39X-4, 60-62	359.56	208	135	35	3	35		Tra	2		1						20	1	6		
39X-4, 65-67	359.71	605	330	212		63	3,000	Tra	2				13		1		12	8	1	1	2
39X-4, 74-76	359.76	247	155	75	2	15		Tra	2				4	3			15			1	
39X-4, 85-87	359.85	386	278	75	1	32	3,000	Tra	2				13.5		4		15	10	1		2
39X-4, 90-92	359.96	115						Tra	2				7				10	1	2		
39X-4, 104-106	360.01	460	291	113		56	3,000	Tra	2				6.5		2		26	10	1		
39X-4, 120-122	360.15	0	0	0	0	0	0		B												
39X-4, 130-132	360.31	0	0	0	0	0	0		B												
39X-4, 134-136	360.41	267	237	20		10		Spd	1	1	1										
39X-4, 146-150	360.45	498	274	171	1	52	4,000	Spd	1				1				1	6			1

Table T3 (continued).

Core, section, interval (cm)	Median Depth	<i>Corrudinium</i> spp.	<i>Dapsilidinium pseudocolligerum</i>	<i>Deflandrea antarctica</i> group	<i>Deflandrea phosphoritica</i> group	<i>Deflandrea</i> sp. A	<i>Dinopterigium cladooides</i>	<i>Diphyes colligerum</i>	<i>Distatodinium</i> spp.	<i>Elytrocysta</i> spp.	<i>Enneadocysta partridgei</i>	<i>Enneadocysta pectiniformis</i>	<i>Enneadocysta</i> sp. A	<i>Eocladopyxis</i> spp.	<i>Gelatia inflata</i>	<i>Glaphrocysta intricata</i>	<i>Hemiplacophora semilunifera</i>	<i>Histiocysta</i> sp.	<i>Hystrichokolpoma rigaudiae</i>	<i>Hystrichokolpoma</i> sp. cf. <i>Homotryblum oceanicum</i>	<i>Hystrichosphaeropsis</i> spp.	<i>Hystrichostrogylon</i> spp.	<i>Impagidinium</i> spp.
189-1172A-																							
38X-CC, 24-29	353.67																						
39X-2, 3-5	356.14		1		1				1	1		1				2			35	1	15		1
39X-2, 135-137	356.29																						
39X-2, 10-12	357.46																						
39X-3, 42-44	357.71																						
39X-3, 61-63	358.03																						
39X-3, 74-76	358.22																						
39X-3, 85-87	358.35																						
39X-3, 100-102	358.46																						
39X-3, 105-107	358.61																						
39X-3, 118-120	358.66																						
39X-3, 122-124	358.79				1	21.75				1	2.5												1
39X-3, 128-130	358.83			5	2	22												1					1
39X-3, 138-140	358.89				2	20.5				1	1				1								2
39X-3, 145-147	358.99				2	8.25		1		18	1								1				6
39X-3, 148-150	359.06			4	3	8			2	1	4		1					1	1				1
39X-3, 5-7	359.09				1	7				12	2								2				6
39X-4, 10-12	359.16	3	2	4	16	10					5								5				7
39X-4, 14-16	359.21	1		6	4	7					4								3				3
39X-4, 25-27	359.25	2.5			3	6				38	1				2			1	1				7.5
39X-4, 30-32	359.36	2		3	2	10					1							1	1				3
39X-4, 40-42	359.41	1			2	3				9								3					6
39X-4, 44-46	359.51	4		4	1	20				1	2							1	7				3
39X-4, 45-47	359.55	4			1	5				17	1								3				7
39X-4, 60-62	359.56			2	1	9					1				1			1	4				4
39X-4, 65-67	359.71	6			4.5	6				18	1							1	4.5				14.5
39X-4, 74-76	359.76	2		2	15	5				3	2	1						1	1				3
39X-4, 85-87	359.85	3		1	8	13.5	1			8	1							3					3.5
39X-4, 90-92	359.96			10	4	6					2							1					3
39X-4, 104-106	360.01	7		2	10	3.5				10	4							2	0.5				17
39X-4, 120-122	360.15																						
39X-4, 130-132	360.31																						
39X-4, 134-136	360.41	2		200	13						2		1						1				2
39X-4, 146-150	360.45	1		145	9					1	13												8

Table T3 (continued).

Core, section, interval (cm)	Median Depth	<i>Lejeunecysta</i> spp.	<i>Lingulodinium machaerophorum</i>	<i>Melitasphaeridium pseudorecurvatum</i>	<i>Nematosphaeropsis labyrinthus</i>	<i>Octodinium askiniae</i>	<i>Operculodinium</i> sp. A	<i>Operculodinium</i> spp.	<i>Palaeocystodinium</i> spp.	<i>Paucisphaeridium</i> spp.	<i>Phtharoperidinium echinatum</i> group	<i>Reticulatosphaera actinocoronata</i>	<i>Samlandia chlamydophora</i>	<i>Schematophora speciosa</i>	<i>Selenopemphix</i> spp.	<i>Spinidinium</i> spp.	<i>Spiniferites</i> spp.	<i>Stoveracysta kakanuiensis</i>	<i>Stoveracysta ornata</i>	<i>Tectatodinium</i> spp.	<i>Thalassiphora pelagica</i>	<i>Turbiosphaera filosa</i>	<i>Vozzhennikovia</i> spp.	<i>Wilsonidinium ornatum</i>
189-1172A-																								
38X-CC, 24-29	353.67																							
39X-2, 3-5	356.14		1					17			1	4					80							
39X-2, 135-137	356.29																							
39X-2, 10-12	357.46																							
39X-3, 42-44	357.71																							
39X-3, 61-63	358.03																							
39X-3, 74-76	358.22																							
39X-3, 85-87	358.35																							
39X-3, 100-102	358.46																							
39X-3, 105-107	358.61																							
39X-3, 118-120	358.66																							
39X-3, 122-124	358.79	1							1	1	25					16	2	3					0.5	7
39X-3, 128-130	358.83		4						1		10					3	3	2					1	1
39X-3, 138-140	358.89	2	8			3				3	48				5	18	7	1					1	4
39X-3, 145-147	358.99	7	4		1	4				3	15	50	2		4	5	15.5	15.5	2					29
39X-3, 148-150	359.06	5	2			1			1		7	1			2	6	21	1			1	2		19
39X-3, 5-7	359.09	1				6				2	12	8			5	3	9	4	1					21
39X-4, 10-12	359.16	1	2			1			19		2	1	2		5	4	63	28			1	2		4
39X-4, 14-16	359.21	1	1			7				5	10	1			3		46	2				8		5
39X-4, 25-27	359.25	6	1			5				1	2	14	31	1	2	2.5	31	4	1	4	0.5	1		10
39X-4, 30-32	359.36	4	1			15				3	7				2	1	29					5		8
39X-4, 40-42	359.41	2				7				2	1	5	12		3	2.5	18.5	1						22
39X-4, 44-46	359.51	20	1			10				11	7		1		2		12	2			1	2		34
39X-4, 45-47	359.55	2	3			4				2	12	17	15			3	14			2		2		99
39X-4, 60-62	359.56	12	1			11				3	6				3		14					1		32
39X-4, 65-67	359.71	2	4			5					6	14	46		7	2	26.5					9		115
39X-4, 74-76	359.76	5	1			9				4	11				2	4	14					25		22
39X-4, 85-87	359.85	3				12				2	7	5	38		10	7	19.5		1			14		72
39X-4, 90-92	359.96	2	1			3				2	3				1	6	10		2		2	37		
39X-4, 104-106	360.01	2	5			8				2	21	14	47		1	2	69		2	1		1		14
39X-4, 120-122	360.15																							
39X-4, 130-132	360.31																							
39X-4, 134-136	360.41		1			1			1		5					2	1							1
39X-4, 146-150	360.45	2	1			6				3	18	22			8	12	3							13

Table T3 (continued).

Core, section, interval (cm)	Median Depth	N (palyomorphs)	N (dinocysts)	N (sporomorphs)	N (foram linings)	N (acritarchs)	Cysts per gram	Unit	Association	<i>Achomosphaera</i> <i>alcicornu</i>	<i>Achomosphaera</i> <i>ramulifera</i>	<i>Aireiana</i> <i>verrucosa</i>	<i>Alterbidinium</i> <i>distinctum</i>	<i>Alterbidinium</i> / <i>Senegalinium</i> spp.	<i>Areoligera</i> <i>semicirculata</i> ?	<i>Batiacasphaera</i> spp.	<i>Brigantidinium</i> ? sp.	<i>Cerebrocysta</i> / <i>Pyxidiniopsis</i> spp.	<i>Cleistosphaeridium</i> spp.	<i>Cordosphaeridium</i> <i>fibrospinosum</i>	<i>Cordosphaeridium</i> <i>minimum</i>
39X-4, 147-149	360.57	354	284	49	1	20	8,000	Spd	1				2.5	1							1
39X-4, 5-7	360.58	230	189	30	1	10		Spd	1	1	1						1				
39X-5, 10-12	360.66	205	190	8	0	7		Spd	1												1
39X-5, 17-19	360.71	221	198	20	1	2		Spd	1	1							2				
39X-5, 22-24	360.78	216	188	19	2	7		Spd	1	1	1										
39X-5, 28-30	360.83	181	157	10	1	13		Spd	1	1	1						1				
39X-5, 44-46	360.89	759	692	29	4	34	15,000	Spd	1			1	5	2			9	1			2
39X-5, 55-57	361.05	505	447	39	1	18	20,000	Spd	1				35	2			2				
39X-5, 85-87	361.16	378	357	12		9		Spd	1			2	1								2
39X-5, 100-102	361.46	340	323	5	1	11		Spd	1				10	18							1
39X-5, 105-107	361.61	139	123	12	1	3		Spd	1	1	1		1	1							
39X-5, 5-7	361.66	262	249	4	2	7		Spd	1				13	30							2
39X-6, 10-12	362.16	169	133	25	6	5		Spd	1	1	1		1	1			1	1			
39X-6, 55-57	362.21	129	108	18	1	2		Spd	1				2	1			0			1	
39X-6, 64-66	362.66	341	322	12	1	6		Spd	1				1	1			1				
39X-6, 85-87	362.75	221	210	4	1	6		Spd	1				1	5							
39X-6, 100-102	362.96	332	322	4	2	4		Spd	1				7	10			1			1	1
39X-6, 105-107	363.11	197	179	7	1	10		Spd	1		1										
39X-6, 122-124	363.16	297	279	12	1	5		Spd	1				8	10							3
39X-6, 142-144	363.33	167	144	9	5	9		Spd	1				5	24						1	
39X-6, 5-7	363.53	139	136	1	1	1		Spd	1					1						1	
39X-7, 10-12	363.66	169	167	1	1			Spd	1				1								
39X-7, 31-33	363.71	171	166	4		1		Spd	1				1	1							
39X-7, 40-42	363.92	121	110	8		3		Spd	1					1							
39X-7, 45-47	364.01	135	113	16	1	5		Spd	1					1							
39X-7, 27-33	364.06	138	129	4	1	4		Spd	1				1	2							
39X-CC, 85-87	364.24	222	207	8	6	1		Spd	1				1	2							
40X-1, 85-87	365.06	269	239	18	3	9		Spd	1					4			3				3
40X-2, 85-87	366.56	238	230	3	0	5		Spd	1					1							
40X-3, 85-87	368.06	335	324	8	0	3		Spd	1					4							1
40X-4, 85-87	369.56	291	283	4	1	3		Spd	1					2							6
40X-5, 85-87	371.06	252	235	9	2	6		Spd	1								2				1
40X-6, 85-87	372.56	342	341	1	0	0		Spd	1								1				1
40X-CC, 26-31	373.90	238	217	7	11	3		Spd	1					10							
41X-1, 85-87	374.66	218	192	18	0	8		Spd	1					1	1		3				
41X-5, 86-88	380.52	278	253	13	1	11		Spd	1								1				2

Notes: N = number. Pel = pelagic, Tra = transitional, Spd = siliciclastic pro-deltaic. B = barren.

Table T3 (continued).

Core, section, interval (cm)	Median Depth	<i>Corrudinium</i> spp.	<i>Dapsilidinium pseudocolligerum</i>	<i>Dellandrea antarctica</i> group	<i>Dellandrea phosphoritica</i> group	<i>Dellandrea</i> sp. A	<i>Dinopteridium cladoides</i>	<i>Diphyes colligerum</i>	<i>Distatodinium</i> spp.	<i>Elytrocysta</i> spp.	<i>Enneadocysta partridgei</i>	<i>Enneadocysta pectiniformis</i>	<i>Enneadocysta</i> sp. A	<i>Eocladopyxis</i> spp.	<i>Gelatia inflata</i>	<i>Glaphrocysta intricata</i>	<i>Hemiplacophora semilunifera</i>	<i>Histocysta</i> sp.	<i>Hystriehokolpoma rigaudiae</i>	<i>Hystriehokolpoma</i> sp. cf. <i>Homotryblium oceanicum</i>	<i>Hystriehosphaeropsis</i> spp.	<i>Hystriehostroglylon</i> spp.	<i>Impagidinium</i> spp.
39X-4, 147–149	360.57	1		187	19						11							2					3
39X-4, 5–7	360.58	1		124	18						4		1	1				1					3
39X-5, 10–12	360.66	7		150	13						4			1									2
39X-5, 17–19	360.71	4		153	10						1								3				2
39X-5, 22–24	360.78	1	1	130	6					1	5					1			1				1
39X-5, 28–30	360.83	2	1	70	7						5					1			1				2
39X-5, 44–46	360.89	3		566	2						2								1	2			5
39X-5, 55–57	361.05	1		310	11					1	1							1	2				2
39X-5, 85–87	361.16	9		221	10						2								1	1			11
39X-5, 100–102	361.46	4		144	21						4		1						1				2
39X-5, 105–107	361.61		1	40	5						1						1						0
39X-5, 5–7	361.66	2	2	68	9						3						1						4
39X-6, 10–12	362.16	1		66	2					1	5								1				1
39X-6, 55–57	362.21	2		51	4						5		1										3
39X-6, 64–66	362.66	5		200	7						3												16
39X-6, 85–87	362.75	2		55	3						1	1											3
39X-6, 100–102	362.96			239	15				2		4		1										9
39X-6, 105–107	363.11	2		75	15				1		1						1					1	3
39X-6, 122–124	363.16	4		105	6				1		8												23
39X-6, 142–144	363.33	2		30	5						2												3
39X-6, 5–7	363.53	1		70	12						1												4
39X-7, 10–12	363.66	2	1	121	25						1												1
39X-7, 31–33	363.71	2		90	18						1												1
39X-7, 40–42	363.92	2	1	9	1						2												1
39X-7, 45–47	364.01	2		22	3						33		1			1							2
39X-7, 27–33	364.06	2		20	4						42		9										1
39X-CC, 85–87	364.24	1		115	15					3	6	3											2
40X-1, 85–87	365.06	8		62	20						20		1	1									5
40X-2, 85–87	366.56	7		2	4						79					1							5
40X-3, 85–87	368.06	2		221	15						34			1					1				1
40X-4, 85–87	369.56	2		172	17						59								1				3
40X-5, 85–87	371.06	3		129	12						38												
40X-6, 85–87	372.56	1		315	9						10		1										1
40X-CC, 26–31	373.90			130	20					3	10												2
41X-1, 85–87	374.66	3		52	4				1		21								2				4
41X-5, 86–88	380.52	8	2	125	5				1		18	6				1							6

Table T3 (continued).

Core, section, interval (cm)	Median Depth	<i>Lejeunecysta</i> spp.	<i>Lingulodinium machaerophorum</i>	<i>Meliosphaeridium pseudorecurvatum</i>	<i>Nematosphaeropsis labyrinthus</i>	<i>Octodinium askiniae</i>	<i>Operculodinium</i> sp. A	<i>Operculodinium</i> spp.	<i>Palaeocystodinium</i> spp.	<i>Paucisphaeridium</i> spp.	<i>Phtharoperidinium echinatum</i> group	<i>Reticulatosphaera actinocoronata</i>	<i>Samlandia chlamydophora</i>	<i>Schematophora speciosa</i>	<i>Selenopemphix</i> spp.	<i>Spinidinium</i> spp.	<i>Spiniferites</i> spp.	<i>Stoveracysta kakanuiensis</i>	<i>Stoveracysta ornata</i>	<i>Tectatodinium</i> spp.	<i>Thalassiphora pelagica</i>	<i>Turbiosphaera filosa</i>	<i>Vozzhennikovia</i> spp.	<i>Wilsonidinium ornatum</i>
39X-4, 147-149	360.57	1				2			1	1	9				1	16	3							14
39X-4, 5-7	360.58	2	1			4		3			4				1	3	4						1	9
39X-5, 10-12	360.66	1				1		2			3			1		3	3							5
39X-5, 17-19	360.71	1				1		2			6				2	5	2							6
39X-5, 22-24	360.78	1				1		1			10			1	7	2	5							10
39X-5, 28-30	360.83	1	1			1		1			13			1	1	5	2							40
39X-5, 44-46	360.89	2	1	1		4			3	4	9			1	1	11	4.5							50
39X-5, 55-57	361.05					3			2	3	19				5	7	6							35
39X-5, 85-87	361.16		1			2		6			1			3	2	33	13							36
39X-5, 100-102	361.46		1			2		3			5			2	5	51	12			8				27
39X-5, 105-107	361.61	1	1			3		1			4				3	32	1							25
39X-5, 5-7	361.66		1			2		5			4				1	92	8							23
39X-6, 10-12	362.16	2				5		2			7		1		1	5	7				1	1		19
39X-6, 55-57	362.21	2				1		4	1		5				1	3					1			20
39X-6, 64-66	362.66	2	2			1		3			2				1	69	6				1			25
39X-6, 85-87	362.75	1				1		3			2				1	106	2						1	22
39X-6, 100-102	362.96					11		3			7				2	2	5						1	12
39X-6, 105-107	363.11	4				4		4			17				1	19	3						1	26
39X-6, 122-124	363.16	2				23		4			12				3	21	9			1	1			34
39X-6, 142-144	363.33	3				8		1			7				4	30	2				1			16
39X-6, 5-7	363.53	1				15		1			10					9	1						1	8
39X-7, 10-12	363.66					2		3			2				1	3	2							2
39X-7, 31-33	363.71	2				3		4			9				1	16	2							15
39X-7, 40-42	363.92					5		1			11				3	60	2						1	10
39X-7, 45-47	364.01					5		5			10				1	14							2	11
39X-7, 27-33	364.06	1				1		4			4				1	23	1						1	12
39X-CC, 85-87	364.24	1				1		7			17				1	20	1							11
40X-1, 85-87	365.06	2				14		19			21				2	30	6				1			17
40X-2, 85-87	366.56	1				9		11	1		16				2	55	4			1				31
40X-3, 85-87	368.06	2				4		3	1		7				2	1	4		2		1	1	1	16
40X-4, 85-87	369.56	1				2		9			4						2				1			2
40X-5, 85-87	371.06					2		15			13				1		7							12
40X-6, 85-87	372.56																2							
40X-CC, 26-31	373.90	1				5		2			5					1	2						1	25
41X-1, 85-87	374.66				1	6		12			19				1	3	23			1				34
41X-5, 86-88	380.52			1	1	2		10			22				3		21				1			17