

**GSA DATA REPOSITORY 2009**235

Concentration in palynomorphs per gram of dry sediment

Note: P= Pollen and spore, F= Freshwater algae, D= Dinoflagellate cyst

Drilling	Core	Depth (m - top)	Palynomorphs fully tabulated	<i>Nothofagidites</i> spp. <i>fusca</i> group <i>Fuscospora</i> , <i>Nothofagus</i> Subgenera)	<i>Podocarpidites</i> spp.	<i>Coptospora</i> spp., <i>Stereisporites</i> spp., <i>Belgispuris</i> sp., <i>Retitriletes</i> sp.	Other "Tundra" taxa (Caryophyllaceae, Campanulaceae, Ericales, Stylidiaceae, <i>Tricolpites</i> sp.A, Sparganiaceae, Typhaceae	FW Algae	<i>Pyxidinospis braboi</i>	<i>Operculodinium centrocarpum</i>
ANDRILL2-2A	112	229.16	F D					0.0	42.6	15.3
ANDRILL2-2A	113	229.44		Sample analyzed qualitatively.						
ANDRILL2-2A	114	235.45	P F	0.1	0.3	1.7	0.1	0.0		
ANDRILL2-2A	115	239.65		Sample analyzed qualitatively.						
ANDRILL2-2A	116	244.71		Sample analyzed qualitatively.						
ANDRILL2-2A	116	250.28		Sample analyzed qualitatively.						
ANDRILL2-2A	117	254.56	F D					0.0	16.7	6.3
ANDRILL2-2A	117	255.8		Sample analyzed qualitatively.						
ANDRILL2-2A	118	258.89	P F	0.0	0.0	0.5	0.0	0.0		
ANDRILL2-2A	118	263.05	P F	4.9	0.6	0.8	0.7	0.0		
ANDRILL2-2A	120	269.37		Sample analyzed qualitatively.						
ANDRILL2-2A	120	274.59		Sample analyzed qualitatively.						
ANDRILL2-2A	121	279.19	F D					0.0	0.3	0.3
ANDRILL2-2A	122	284.22		Sample analyzed qualitatively.						
ANDRILL2-2A	122	289.84	PFD	0.8	8.4	10.6	0.2	0.0	6.0	0.0
ANDRILL2-2A	124	294.5	P F	61.6	15.8	5.6	1.0	4.0	358.2	65.3
ANDRILL2-2A	124	299.83	P F	12.0	3.9	1.7	0.8	0.0		
ANDRILL2-2A	126	306.6	F D					0.0	0.9	0.0
ANDRILL2-2A	126	307.46	F D					0.0	3.5	0.0
ANDRILL2-2A	126	308.03	PFD	26.4	6.5	1.5	0.4	0.5	61.4	9.5
ANDRILL2-2A	126	308.60	PFD	18.2	7.9	3.1	0.9	0.9	18.3	0.7
ANDRILL2-2A	126	309.03	PFD	27.1	11.1	3.0	1.2	1.7	145.9	7.7
ANDRILL2-2A	126	310.03	PFD	24.1	8.6	3.5	1.3	1.8	835.2	119.0
ANDRILL2-2A	126	310.46	PFD	30.7	7.6	2.9	0.2	1.1	1367.3	247.3
ANDRILL2-2A	126	310.50	F D					0.0	1135.6	253.7
ANDRILL2-2A	126	310.51	PFD	12.0	4.7	2.1	0.1	1.0	1370.6	484.1

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ANDRILL2-2A	126	310.54	PFD	39.8	11.5	3.1	0.4	4.1	1496.3	266.7
ANDRILL2-2A	127	311.00	PFD	31.8	9.7	3.1	0.2	4.0	1853.9	397.8
ANDRILL2-2A	127	311.50	PFD	55.5	15.3	7.2	0.4	4.7	1331.6	370.1
ANDRILL2-2A	127	312.05	F D					0.0	558.3	21.9
ANDRILL2-2A	127	312.35	F D					0.0	524.6	11.6
ANDRILL2-2A	127	312.8	F D					0.0	9.2	0.2
ANDRILL2-2A	128	320.13		Sample analyzed qualitatively.						
ANDRILL2-2A	129	328.4	P F	1.3	0.1	0.1	0.3	0.0		
ANDRILL2-2A	131	335.98		Sample analyzed qualitatively.						
ANDRILL2-2A	131	337.73		Sample analyzed qualitatively.						
ANDRILL2-2A	135	350.48	F D					0.0	0.0	0.0
ANDRILL2-2A	135	351.39		Sample analyzed qualitatively.						
ANDRILL2-2A	137	355.94		Sample analyzed qualitatively.						
ANDRILL2-2A	137	361.36	P F	1.7	0.2	0.3	0.5	0.0		
ANDRILL2-2A	138	366.26		Sample analyzed qualitatively.						
ANDRILL2-2A	139	368.3	P F	0.0	0.0	0.2	0.0	0.0		
ANDRILL2-2A	140	372.17	F D					0.0	0.0	0.0
ANDRILL2-2A	141	377.48		Sample analyzed qualitatively.						
ANDRILL2-2A	142	383.67		Sample analyzed qualitatively.						
ANDRILL2-2A	142	384.88	P F	2.3	0.2	0.5	1.0	0.1		
ANDRILL2-2A	144	392.95		Sample analyzed qualitatively.						
ANDRILL2-2A	144	395.15	P F	0.0	0.0	0.8	0.4	0.0		
ANDRILL2-2A	146	403.48	F D					0.0	28.6	18.9
ANDRILL2-2A	147	409.68		Sample analyzed qualitatively.						
ANDRILL2-2A	147	412.44		Sample analyzed qualitatively.						
ANDRILL2-2A	148	418.17	PFD	61.7	10.9	4.4	0.9	0.9	59.1	66.3
ANDRILL2-2A	149	424.19		Sample analyzed qualitatively.						
ANDRILL2-2A	150	427.37		Sample analyzed qualitatively.						
ANDRILL2-2A	152	431.19	F D					1.1	100.3	118.6
ANDRILL2-2A	152	432.23		Sample analyzed qualitatively.						
ANDRILL2-2A	153	437.19		Sample analyzed qualitatively.						
ANDRILL2-2A	155	442.37	P F	2.0	0.2	1.1	0.3	0.0		
ANDRILL2-2A	156	449.61		Sample analyzed qualitatively.						

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ANDRILL2-2A	156	452.3		Sample analyzed qualitatively.						
ANDRILL2-2A	157	458.12	F D					0.0	0.0	0.0
ANDRILL2-2A	158	460.73		Sample analyzed qualitatively.						
ANDRILL2-2A	158	465.2		Sample analyzed qualitatively.						
ANDRILL2-2A	159	470.22	P F	3.2	0.2	0.6	0.1	0.0		
ANDRILL2-2A	160	475.63		Sample analyzed qualitatively.						
ANDRILL2-2A	162	481	P F	0.0	0.0	0.3	0.0	0.0		
ANDRILL2-2A	163	485.29	F D					0.0	0.0	0.0
ANDRILL2-2A	165	490.24		Sample analyzed qualitatively.						
ANDRILL2-2A	165	495.32		Sample analyzed qualitatively.						
ANDRILL2-2A	166	501.6	P F	3.4	0.4	0.8	0.3	0.0		
ANDRILL2-2A	167	506.39		Sample analyzed qualitatively.						
ANDRILL2-2A	168	512.14		Sample analyzed qualitatively.						
ANDRILL2-2A	169	516.49	F D					0.0	0.0	0.0
ANDRILL2-2A	170	522.45		Sample analyzed qualitatively.						
ANDRILL2-2A	171	528.57		Sample analyzed qualitatively.						
ANDRILL2-2A	172	532.44	P F	1.8	1.4	0.5	2.1	0.0		
ANDRILL2-2A	173	540.17		Sample analyzed qualitatively.						
ANDRILL2-2A	173	543.69	P F	0.0	0.0	0.3	0.0	0.0		
ANDRILL2-2A	174	547.32	F D					0.7	0.0	0.0
ANDRILL2-2A	176	553.37		Sample analyzed qualitatively.						
ANDRILL2-2A	176	557.51		Sample analyzed qualitatively.						
ANDRILL2-2A	178	563.5	P F	1.7	0.3	0.6	0.1	0.0		
ANDRILL2-2A	178	567.84		Sample analyzed qualitatively.						
ANDRILL2-2A	179	573.41	P F	0.0	0.1	0.0	0.0	0.0		
ANDRILL2-2A	180	578.24	F D					0.0	0.0	0.0
ANDRILL2-2A	181	583.65		Sample analyzed qualitatively.						
ANDRILL2-2A	182	588.05		Sample analyzed qualitatively.						
ANDRILL2-2A	183	593.29	P F	22.5	1.7	5.6	1.1	0.0		
ANDRILL2-2A	184	599.16		Sample analyzed qualitatively.						
ANDRILL2-2A	184	603.74	P F	0.4	0.1	0.5	0.1	0.0		
ANDRILL2-2A	185	609.48	F D					0.0	0.0	0.0
ANDRILL2-2A	186	613.23	P F	0.4	0.2	0.2	0.1	0.0		
ANDRILL2-2A	187	618.49	F D					0.0	0.0	0.0