

CANONICAL CORRESPONDENCE ANALYSIS					
Imported data					
Analysis begun: 09 September 2010 13:42:32					
Analysing 16 variables x 84 cases					
Imported data					
Analysing 2 variables x 84 cases					
Tolerance of eigenanalysis set at 1E-007					
Scores scaled by species					
Variable	Weighted mean	Weighted SD	Inflation Factor		
%<50	27.259	46.984	1.089		
m/m ratio	1.744	0.586	1.089		
Note: only the first 2 axes are environmentally constrained					
Eigenvalues	Axis 1	Axis 2	Axis 3	Axis 4	Axis 5
Eigenvalues	0.027	0.008	0.244	0.08	0.037
Percentage	4.946	1.558	45.404	14.983	6.848
Cum. Percentage	4.946	6.504	51.909	66.892	73.74
Cum.Constr.Percentage	76.041	100			
Spec.-env. correlations	0.336	0.369			
CCA variable scores					
	Axis 1	Axis 2	Axis 3	Axis 4	Axis 5
Araucariaceae pollen	0.202	-0.08	0.572	-0.525	0.152
Inaperturopollenite spp.	0.068	-0.039	0.351	-0.251	-0.046
Perinopollenites elatoides	0.146	0.093	0.553	-0.047	-0.595
Alisporites spp	0.1	0.016	0.788	0.259	0.233
Ptyosporites spp.	0.026	0.175	0.437	0.713	0.156
Vitreosporites pallidus	0.184	0.103	0.563	0.177	-0.686
Classopollis spp.	-0.113	-0.016	-0.388	-0.018	0
Deltoidospora spp.	0.358	0.019	0.817	-0.12	-0.197
Inaperturopollenite hiatus	0.266	-0.336	0.929	-0.441	0.827
Podosporites castellanosii	0.214	0.146	0.43	0.423	0.177
Podocarpidites spp	0.375	0.159	0.537	0.516	-0.012
Ischyosporites spp.	0.576	0.016	0.776	0.102	0.202
Baculatisporites spp	0.338	-0.192	0.919	-0.348	-0.298
Osmundacidites wellmanii	0.042	-0.418	1.063	0.004	-0.231
cf. Granulatisporites/Obtusisporite	-0.094	0.52	0.253	0.096	-0.466
Rugulatisporites neuquenensis	0.249	-0.078	0.747	-0.397	0.553
CCA case scores					
	Axis 1	Axis 2	Axis 3	Axis 4	Axis 5
R1ai 1	3.201	-4.81	1.005	-1.945	1.614
R1ai 2	4.846	2.834	1.884	1.762	-0.193
R1ai 4	5.182	-5.253	1.629	-2.397	2.43
R1ai 5A	2.685	-4.087	0.862	-1.562	1.855
R1aiii 1	3.103	-1.307	1.019	-0.893	-1.015
R1aiii 2	2.936	-0.572	0.869	-0.293	-0.074
R1aiii 3	6.418	-5.504	2.279	-1.774	4.144
R1bi 1	4.172	-1.48	1.332	-0.563	-0.962
R1bii 1	4.227	-2.154	1.232	-0.712	0.294
R1bc 1	4.529	-1.679	1.385	-0.479	0.371
R1bc 2	4.302	-4.312	1.374	-1.575	1.351
R1bviii 1	4.952	-1.002	1.983	0.471	1.648
R2b 5	4.419	6.015	1.943	2.484	1.578
R2dii 1	3.095	-3.056	1.07	-1.061	-0.384
R2dii 2	4.694	-0.903	1.432	-1.199	-0.881
R2diii 1	5.828	0.915	2.208	1.289	1.02
R2diii 3	3.723	-4.029	1.194	-2.461	1.076
R2di 1	3.774	-3.888	1.112	-2.14	1.199
R2di 3A	4.014	-4.523	1.166	-2.189	0.899
R2di 3B	3.687	-3.87	1.125	-1.778	1.438
R2di 4	4.692	0.117	1.528	-0.922	-1.954
R2div 1	2.469	-2.513	0.827	-0.261	-0.235
R2div 2	2.732	-2.506	0.817	-1.257	0.418
R2div 3	5.473	3.592	1.495	0.755	-0.248
R2div 4	4.774	-0.771	1.54	-0.251	0.067
R2div 5	3.825	-5.173	1.339	-1.567	-0.165
R2div 6	0.816	1.138	0.388	0.77	1.693
R2div 7	2.448	-2.87	0.806	-0.807	-0.463
R2SC 1A	4.233	0.817	1.641	0.801	1.868
R2C 2	3.289	-0.136	1.446	0.678	-2.852
R2an 1	4.871	0.831	1.694	0.433	-0.501
Owl 1C	1.816	-6.014	0.862	-1.055	0.204
Owl 2	1.932	-3.135	0.696	-1.629	1.777
IVF 1	-3.113	-0.175	-1.069	0.277	-0.089
IVF 2	-2.684	-0.347	-0.921	0.142	0.018
IF 1.1 1	-1.784	1.311	-0.591	0.676	0.934
IF 1.1 2	-3.442	-1.26	-1.261	-0.071	0.376
IF 1.1 3	-2.89	-1.81	-1.085	-0.315	0.184
IF 1.1 4	-2.37	-1.123	-0.869	-0.344	0.447
IVS 3 1	-2.451	-1.29	-0.923	-0.39	0.778
IF 1 1	-2.308	-1.064	-0.878	-0.245	0.778
IF1 3	-2.048	-1.05	-0.739	-0.413	-0.016
IF1 4	-2.672	-1.04	-0.978	-0.306	0.165
4 O 1	-2.085	0.063	-0.735	0.217	-0.479
4 O2	-2.663	-0.687	-0.995	-0.064	0.133
4 O3	-3.39	-1.08	-1.238	-0.049	0.25
4 O4	-1.563	0.281	-0.504	0.069	-0.951
4 O5	-3.254	-1.453	-1.21	-0.237	0.077
4 O 6	-2.519	-0.213	-0.909	-0.057	-0.205
4 O 7	-1.815	0.617	-0.578	0.215	-0.244
4 O 8	-2.149	0.147	-0.68	0.362	0.184
4 O9	-3.111	-1.475	-1.143	-0.186	-0.012
4 O 10	-2.407	-1.033	-0.86	-0.54	-0.512
PD 1	-2.096	1.56	-0.536	0.968	0.852
PD 7	-2.402	-0.41	-0.851	-0.064	-0.084
Qaa 1	0.344	1.889	0.123	0.703	-1.287
Qaa 2	0.209	0.074	0.092	0.371	0.73
Qaa 3	0.639	0.631	0.083	-0.009	0.05
Qa 1	0.933	4.605	0.507	1.727	0.711
Qa 2	0.403	3.083	0.271	1.018	-0.296
Qa 3	-0.573	1.119	-0.201	0.272	0.602
Qa 4	-0.428	3.964	0.006	1.34	-0.409
Qb 2	0.055	2.152	0.07	0.79	0.09
Qb 3	1.083	8.173	0.725	3.03	1.026
Qc 1	-0.869	6.969	0.116	2.571	0.527
Qc 2	0.741	10.936	0.892	4.184	1.537
Qc 3	0.583	6.818	0.58	2.499	0.787
Qd 1	2.319	4.517	0.859	0.656	-2.126
Qj 1	-0.173	1.039	-0.097	0.544	-0.731
Qk 2	-0.137	0.421	0.02	0.334	0.325
Qk 3	-0.015	0.832	0.024	0.334	0.326
Qk 4	1.137	2.955	0.561	0.707	0.119
Dag-1 1	2.365	2.652	0.74	-0.054	-3.258
Dag-1 2	-0.67	-0.449	-0.265	-0.561	-0.522
Dag-1 3	2.792	-0.32	0.873	-1.31	-1.572
Dag-1 3a	3.401	-0.462	1.104	-1.763	-1.364
Dag-1 4	2.788	3.187	1.037	0.557	-1.313
Dag-1 5	2.162	4.649	0.853	1.317	-1.199
Dag-1 6	5.215	3.376	1.591	-0.379	-3.102
Dag-1 7a	0.955	1.266	0.288	-0.178	-1.402
Dag-1 8	3.691	1.773	1.334	0.133	-1.171
Dag-1 9	3.445	4.968	1.325	1.272	-1.562
Dag-1 9a	3.782	3.155	1.279	0.117	-2.456
Dag-1 10	2.295	2.039	0.64	-0.745	-1.78
Site scores, constrained by env. data					
	Axis 1	Axis 2			
R1ai 1	1.788	-0.445			
R1ai 2	-0.426	-0.269			
R1ai 4	0.945	0.487			
R1ai 5A	0.622	-0.961			
R1aiii 1	-0.183	-0.654			
R1aiii 2	0.402	-0.902			
R1aiii 3	-0.26	-0.748			
R1bi 1	-0.13	-0.67			
R1bii 1	-0.254	-1.559			
R1bc 1	-0.318	-0.752			
R1bc 2	-0.341	1.213			
R1bviii 1	-0.346	-0.731			
R2b 5	0.526	-0.738			
R2dii 1	-0.184	-1.278			
R2dii 2	0.937	-0.82			
R2diii 1	1.071	-0.425			
R2diii 3	-0.184	-1.211			
R2di 1	-0.185	-0.687			
R2di 3A	0.97	-0.807			
R2di 3B	3.078	0.168			
R2di 4	0.192	-0.105			
R2div 1	0.067	-1.072			
R2div 2	0.404	-0.959			
R2div 3	8.531	2.807			
R2div 4	0.101	-0.997			
R2div 5	0.644	-0.887			
R2div 6	0.583	-0.751			
R2div 7	0.088	-1.06			
R2SC 1A	-0.228	-1.029			
R2C 2	-0.139	-1.006			
R2an 1	0.227	-0.648			
Owl 1C	-0.146	-1.306			
Owl 2	-0.254	-0.965			
IVF 1	-0.375	-0.337			
IVF 2	-0.474	0.15			
IF 1.1 1	-0.429	-0.187			
IF 1.1 2	-0.48	-0.021			
IF 1.1 3	-0.346	-0.997			
IF 1.1 4	-0.409	-0.225			
IVS 3 1	-0.385	-0.199			
IF 1 1	-0.809	4.055			
IF1 3	-0.414	-0.517			
IF1 4	-0.456	0.367			
4 O 1	-0.51	0.607			
4 O2	-0.34	-0.319			
4 O3	-0.16	-0.317			
4 O4	-0.265	-0.023			
4 O5	-0.206	-0.342			
4 O 6	-0.264	-0.64			
4 O 7	-0.176	-0.281			
4 O 8	-0.398	0.651			
4 O9	0.083	-0.492			
4 O 10	-0.008	-0.487			
PD 1	-0.439	0.004			
PD 7	-0.414	0.239			
Qaa 1	2.587	0.004			
Qaa 2	-0.387	1.17			
Qaa 3	-0.276	0.17			
Qa 1	0.421	-0.443			
Qa 2	0.385	-0.721			
Qa 3	0.166	-0.648			
Qa 4	-0.53	-0.605			
Qb 2	-0.165	0.21			
Qb 3	-0.439	0.922			
Qc 1	-0.613	1.737			
Qc 2	-0.637	1.085			
Qc 3	-0.712	1.443			
Qd 1	-0.733	1.889			
Qj 1	-0.726	1.538			
Qk 2	-0.643	1.232			
Qk 3	-0.808	2.567			
Qk 4	-0.529	0.675			
Dag-1 1	1.849	-0.019			
Dag-1 2	2.156	0.68			
Dag-1 3	0.303	0.855			
Dag-1 3a	-0.782	3.447			
Dag-1 4	-1.139	4.322			
Dag-1 5	0.299	-0.46			
Dag-1 6	0.432	-0.43			
Dag-1 7a	-0.22	0.201			
Dag-1 8	-0.692	2.011			
Dag-1 9	-0.13	0.612			
Dag-1 9a	0.542	-0.078			
Dag-1 10	-0.015	0.347			
Canonical coefficients					
	Spec. Axis 1	Spec. Axis 2			
%<50	0.947	0.438			
m/m ratio	-0.149	1.033			
Interset correlations between env. variables and site scores					
	Env. Axis 1	Env. Axis 2			
%<50	0.333	0.053			
m/m ratio	-0.141	0.334			
Intraset correlations between env. variables and constrained site scores					
	Env. Axis 1	Env. Axis 2			
%<50	0.99	0.143			
m/m ratio	-0.42	0.908			
Biplot scores for env. variables					
	Axis 1	Axis 2			
%<50	0.99	0.143			
m/m ratio	-0.42	0.908			
Centroids of env. variables					
	Axis 1	Axis 2			
%<50	1.706	0.246			
m/m ratio	-0.141	0.305			