

Online Appendix 4: MCMCglmm Model Outputs

Article title: Recovery of high mountain Alpine lakes after the eradication of introduced brook trout *Salvelinus fontinalis* using non-chemical methods

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Hereafter we provide the complete outputs of the MCMCglmm models (generalized linear mixed models with a Bayesian Markov chain Monte Carlo approach) summarized in Figure 3 of the main article text. To present the model outputs we took the same numbering as in Figure 3. The posterior estimates, lower and upper credibility intervals (l-95% CI and u-95% CI) and pMCMC levels are provided.

Lake identity (LAKE) and year of sampling (YEAR) were fitted as additive random terms to account for repeated measurements and avoid pseudoreplication. Fixed terms include:

- DAY: an integer variable indicating the number of days elapsed from the 1st of June and accounting for the strong seasonal variations;
- TIME: an integer variable assuming value 0 for all the samples collected before 2013 (starting year of the eradication campaign) and ranging from 1 (for 2013) to 5 (for 2017) along the subsequent monitoring period.
- TREATMENT: in Models a): a 2-levels factor distinguishing between fish removal lakes (FR) and fishless control lakes (FL); in Models b): a 5-levels factor distinguishing among the four fish-removal lakes (1 level per lake: DJO: Djouan; DRE: Dres; LEY: Leynir; NER: Nero) and all the fishless control lakes (FL). The estimates of the effect of TREATMENT are provided at TIME = 0 and at TIME = 5.
- ALTITUDE: the altitude of each lake in m a.s.l.
- DEPTH: the maximum depth of each lake accounting for the lake size in m.
- GEOLOGY: a two levels factor indicating if the catchment of the lakes is entirely composed by acidic gneiss (AG) or at least partially covered by calcareous shists (CS): this is a very important environmental feature controlling the hydrochemistry of the study lakes, in particular, their acidity (Tiberti et al., 2010).
- TIME×TREATMENT: the interactive effect between TIME and TREATMENT.

AMPHIBIANS

MODEL 1a and 1 b - AMPHIBIANS - *Rana temporaria* - All stages

Model 1a:

G-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
LAKE	38338	2181	104609	262
YEAR	198.2	3.842e-17	1020	584.6

R-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
units	12165	2405	23039	237.4

	post.mean	1-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	2692.3378	1236.9045	4241.6519	360.3	0.0004	***
DAY	-0.6690	-1.6621	0.2209	1821.5	0.1398	
TIME	-10.7142	-40.2380	18.3388	2552.9	0.4510	
TREATMENT FL vs. FR						
ESTIMATE AT YEAR 0	-479.7926	-785.5708	-174.2470	1645.3	0.0058	**
ESTIMATE AT YEAR 5	-201.0636	-505.7468	95.8595	5163.3	0.1612	
ALTITUDE	-0.9938	-1.5935	-0.4108	396.1	0.0004	***
DEPTH	-7.1971	-19.7211	3.4345	340.9	0.1708	
GEOLOGY CS vs. AG	395.9612	94.4284	725.6562	986.0	0.0082	**
TIME X TREATMENT	56.1587	17.8722	99.0854	435.1	0.0022	**

Model 1b:

G-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
LAKE	41908	7.197e-17	190033	41.68
YEAR	842	5.2e-17	4711	309.8

R-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
units	10602	1708	23223	68.74

	post.mean	1-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	3649.1771	1589.5406	6129.8014	46.53	0.0012	**
DAY	-0.7181	-1.6663	0.1472	548.99	0.0796	.
TIME	-6.6785	-37.0398	20.8935	1046.76	0.6220	
TREATMENT						
ESTIMATE AT YEAR 0						
FL vs. DJO	-513.7335	-1221.9157	170.7821	212.85	0.0614	.
FL vs. DRE	-861.4955	-1795.1159	-126.6203	62.44	0.0172	*
FL vs. LEY	-140.5321	-959.4185	844.7234	51.66	0.4124	
FL vs. NER	-623.5535	-1415.2374	-31.3058	604.16	0.0546	.
ESTIMATE AT YEAR 5						
FL vs. DJO	-64.8656	-650.1388	508.6003	619.35	0.8436	
FL vs. DRE	-663.9964	-1318.5966	-26.5295	209.09	0.0356	*
FL vs. LEY	249.8349	-265.7953	1040.6295	91.89	0.2332	
FL vs. NER	-246.5324	-797.6138	289.7986	4790.95	0.1686	
ALTITUDE	-1.3224	-2.2957	-0.6353	48.08	0.0008	***
DEPTH	-14.1721	-38.6340	1.4082	40.08	0.0294	*
GEOLOGY CS vs. AG	262.9573	-41.2226	695.1747	217.09	0.0544	.
TIME X TREATMENT						
TIME x DJO	79.5358	12.8452	135.9446	928.57	0.0104	*
TIME x DRE	23.8050	-14.6851	66.5851	365.48	0.1942	
TIME x LEY	91.1049	23.5936	168.4728	116.95	<1e-04	***
TIME x NER	69.2964	7.9902	155.0889	257.44	0.0102	*

MODEL 2a and 2 b - AMPHIBIANS - *Rana temporaria* - Egg-masses

Model 2a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	25565	8.054e-17	95161	150.2
YEAR	48965	3329	125405	464.2

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	21153	3131	44791	118.9

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	1868.81309	432.49390	3605.45713	300.17	0.0076	**
DAY	-14.20210	-20.34542	-8.17683	73.13	<1e-04	***
TIME	7.10969	-75.34627	88.45113	4222.29	0.8574	
TREATMENT FL vs. FR						
ESTIMATE AT YEAR 0	-570.07813	-930.63155	-225.11925	250.31	0.0030	**
ESTIMATE AT YEAR 5	-269.2252	-629.3721	98.2637	1360.6	0.1090	
ALTITUDE	-0.51183	-1.18388	0.07022	339.01	0.0578	.
DEPTH	-3.17462	-14.57106	6.45637	789.03	0.5204	
GEOLOGY CS vs. AG	90.10544	-181.01777	445.59020	449.57	0.5590	
TIME X TREATMENT	58.85530	0.93310	118.73454	857.27	0.0362	*

Model 2b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	675.9	6.008e-17	2114	558
YEAR	57346	6907	136501	1112

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	14614	1330	32123	159.8

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	2.976e+03	1.488e+03	4.541e+03	445.735	<1e-04	***
DAY	-1.548e+01	-2.073e+01	-1.036e+01	80.227	<1e-04	***
TIME	8.654e+00	-7.598e+01	9.617e+01	5288.600	0.8412	
TREATMENT						
ESTIMATE AT YEAR 0						
FL vs. DJO	-7.587e+02	-1.192e+03	-3.723e+02	276.988	0.0008	***
FL vs. DRE	-8.258e+02	-1.247e+03	-4.290e+02	271.154	0.0004	***
FL vs. LEY	-1.723e+03	-3.171e+03	-3.445e+02	23.527	0.0022	**
FL vs. NER	-2.118e+03	-4.609e+03	-2.920e+02	8.332	<1e-04	***
ESTIMATE AT YEAR 5						
FL vs. DJO	-4.172e+02	-7.995e+02	-4.467e+01	496.324	0.0280	*
FL vs. DRE	-8.121e+02	-1.228e+03	-4.096e+02	468.262	0.0002	***
FL vs. LEY	5.187e+02	1.457e+02	8.861e+02	224.068	0.0064	**
FL vs. NER	-6.675e+03	-1.188e+04	-1.067e+03	4.198	0.0022	**
ALTITUDE	-8.401e-01	-1.395e+00	-3.186e-01	566.156	0.0024	**
DEPTH	-1.003e+01	-2.140e+01	7.038e-02	352.313	0.0202	*
GEOLOGY CS vs. AG	7.044e+00	-1.458e+02	1.476e+02	1939.888	0.9562	
TIME X TREATMENT						
TIME : DJO	6.010e+01	-3.993e+01	1.668e+02	781.862	0.2282	
TIME : DRE	-2.996e+00	-6.645e+01	6.352e+01	2263.685	0.9084	
TIME : LEY	4.265e+02	1.270e+02	7.680e+02	25.443	<1e-04	***
TIME : NER	-6.708e+02	-1.946e+03	5.127e+02	5.653	0.3584	

MODEL 3a and 3 b - AMPHIBIANS - *Rana temporaria* - Tadpoles

Model 3a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	158492	5046	452574	150.4
YEAR	83.51	5.028e-17	135	986.5

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	47085	12029	84186	488

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	2.290e+03	-3.026e+02	5.295e+03	207.0	0.0572 .
DAY	4.636e+00	2.693e+00	6.926e+00	490.9	<1e-04 ***
TIME	-3.401e+01	-7.236e+01	4.452e-01	2024.1	0.0474 *
TREATMENT FL vs. FR					
ESTIMATE AT YEAR 0	-4.868e+02	-1.097e+03	6.883e+01	1494.1	0.0738 .
ESTIMATE AT YEAR 5	-50.06498	-707.94016	563.54772	2197.3	0.8678
ALTITUDE	-1.013e+00	-2.190e+00	5.523e-02	212.0	0.0334 *
DEPTH	-2.286e+01	-5.306e+01	2.000e+00	182.4	0.0380 *
GEOLOGY CS vs. AG	3.790e+02	-1.836e+02	1.027e+03	509.1	0.1532
TIME X TREATMENT	8.586e+01	3.144e+01	1.412e+02	777.4	0.0002 ***

Model 3b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	226986	47.25	811437	74.85
YEAR	333.1	4.993e-17	1074	1238

R-structure: ~units

	post.mean	l-95% CI	u-95% CI	eff.samp
units	63840	26891	107440	610.3

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	4.249e+03	-1.307e+02	9.813e+03	81.618	0.0260 *
DAY	5.505e+00	3.367e+00	7.869e+00	1134.782	<1e-04 ***
TIME	-3.846e+01	-8.129e+01	1.798e+00	3783.345	0.0534 .
TREATMENT					
ESTIMATE AT YEAR 0					
FL vs. DJO	-4.430e+02	-1.484e+03	5.392e+02	346.528	0.2842
FL vs. DRE	-1.147e+03	-2.508e+03	-3.951e+01	159.081	0.0376 *
FL vs. LEY	-3.961e+02	-1.995e+03	1.217e+03	249.301	0.5470
FL vs. NER	-8.153e+03	-1.281e+04	-9.186e+02	8.408	0.0038 **
ESTIMATE AT YEAR 5					
FL vs. DJO	-2.547e+02	-1.563e+03	8.730e+02	564.315	0.6164
FL vs. DRE	-5.791e+02	-2.203e+03	6.368e+02	229.521	0.3218
FL vs. LEY	1.231e+03	-1.249e+02	3.000e+03	101.358	0.0486 *
FL vs. NER	-2.828e+04	-5.125e+04	-4.462e+02	1.883	0.0036 **
ALTITUDE	-1.719e+00	-3.741e+00	-9.251e-02	97.324	0.0120 *
DEPTH	-5.564e+01	-1.285e+02	-5.096e+00	53.713	0.0136 *
GEOLOGY CS vs. AG	2.341e+02	-5.772e+02	1.035e+03	583.156	0.4820
TIME X TREATMENT					
TIME : DJO	3.946e+01	-3.777e+01	1.155e+02	7590.209	0.2870
TIME : DRE	1.205e+02	3.527e+01	2.197e+02	2350.521	0.0066 **
TIME : LEY	3.084e+02	8.801e+01	5.701e+02	214.766	<1e-04 ***
TIME : NER	-3.363e+03	-7.043e+03	3.066e+02	2.609	0.1470

MODEL 4a and 4 b - AMPHIBIANS - *Rana temporaria* - Adults

Model 4a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	49099	1893	134043	380.1
YEAR	12138	5.637e-17	36955	523.8

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	46597	15336	81975	516.4

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	2415.9332	694.1171	4291.7076	506.8	0.0014 **
DAY	-0.4277	-1.8080	0.9102	6676.9	0.5218
TIME	36.3829	-11.1874	86.7300	4707.0	0.1148
TREATMENT FL vs. FR					
ESTIMATE AT YEAR 0	-344.7589	-714.6718	-7.6018	2884.4	0.0414 *
ESTIMATE AT YEAR 5	-308.5869	-645.8518	42.6133	2503.9	0.0570 .
ALTITUDE	-0.9840	-1.7593	-0.3079	529.8	0.0008 ***
DEPTH	-6.7024	-22.4463	6.9144	561.3	0.3172
GEOLOGY CS vs. AG	332.7992	-19.2996	726.0848	1351.9	0.0416 *
TIME X TREATMENT	29.6123	-13.9977	74.3792	3714.1	0.1826

Model 4b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	10671	6.151e-17	65573	215.2
YEAR	21839	1.04e-16	59322	649.4

R-structure: ~units

	post.mean	l-95% CI	u-95% CI	eff.samp
units	54522	21773	92238	644.4

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	3831.4189	1990.4011	5793.6325	474.1	0.0002 ***
DAY	-0.8978	-2.3806	0.5804	4190.1	0.2118
TIME	38.5733	-18.8682	99.6652	4787.0	0.1588
TREATMENT					
ESTIMATE AT YEAR 0					
FL vs. DJO	-393.7435	-807.2719	77.4992	748.4	0.0684 .
FL vs. DRE	-754.9748	-1325.3568	-162.5835	347.7	0.0194 *
FL vs. LEY	-147.4616	-779.5874	439.3430	394.3	0.5114
FL vs. NER	-801.0319	-1621.0761	-153.7499	302.7	0.0224 *
ESTIMATE AT YEAR 5					
FL vs. DJO	-37.9947	-466.1761	365.0016	1727.7	0.8618
FL vs. DRE	-1002.1079	-1567.3560	-461.2779	721.4	0.0030 **
FL vs. LEY	404.9230	-42.8425	833.4632	1056.4	0.0604 .
FL vs. NER	-206.0900	-575.9062	166.7704	3639.6	0.2140
ALTITUDE	-1.3268	-2.0541	-0.6977	525.7	0.0002 ***
DEPTH	-21.7611	-39.6253	-5.3715	406.2	0.0152 *
GEOLOGY CS vs. AG	135.9628	-68.5806	404.5574	606.8	0.1364
TIME X TREATMENT					
TIME : DJO	69.4056	-2.7128	142.2337	7764.5	0.0642 .
TIME : DRE	-52.4971	-127.1200	16.6406	4716.4	0.1316
TIME : LEY	112.5533	17.4829	221.7671	1370.0	0.0144 *
TIME : NER	119.6501	-16.6076	270.4438	538.2	0.0542 .

MACROINVERTEBRATES

MODEL 5a and 5 b - MACROINVERTEBRATES - *Clingers* - All taxa

Model 5a:

G-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
LAKE	0.1664	5.685e-17	0.708	346.1
YEAR	0.1736	3.233e-17	0.6152	306.3

R-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
units	1.588	1.12	2.129	342

	post.mean	1-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	8.1637875	3.6369608	12.3522374	4132	0.0030	**
DAY	0.0082058	0.0011864	0.0151068	1794	0.0212	*
TIME	0.2098733	-0.0179487	0.4181003	10000	0.0662	.
TREATMENT FL vs. FR						
ESTIMATE AT YEAR 0	-3.3194712	-4.3297438	-2.3275152	3047	<1e-04	***
ESTIMATE AT YEAR 5	0.2795919	-0.7520447	1.3488930	3213	0.5998	
ALTITUDE	-0.0024084	-0.0041785	-0.0006763	4442	0.0144	*
DEPTH	0.0229406	-0.0052639	0.0526279	8488	0.1108	
GEOLOGY CS vs. AG	0.4710534	-0.4734714	1.2836655	9477	0.2548	
TIME X TREATMENT	0.7291624	0.4850624	0.9784226	3233	<1e-04	***

Model 5b:

G-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
LAKE	0.008035	7.014e-17	0.02336	2250
YEAR	0.1631	4.568e-17	0.6249	251.3

R-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
units	1.526	1.091	2	922.8

	post.mean	1-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	5.838056	0.878867	10.639225	9671	0.0214	*
DAY	0.007697	0.001082	0.014712	2653	0.0252	*
TIME	0.187017	-0.020785	0.407571	8711	0.0876	.
TREATMENT						
ESTIMATE AT YEAR 0						
FL vs. DJO	-3.371546	-4.703675	-2.038851	4824	<1e-04	***
FL vs. DRE	-3.134529	-4.573051	-1.648573	5934	<1e-04	***
FL vs. LEY	-2.702786	-3.826433	-1.612418	5915	0.0004	***
FL vs. NER	-4.138043	-5.425660	-2.857501	3148	<1e-04	***
ESTIMATE AT YEAR 5						
FL vs. DJO	0.2954974	-1.1913531	1.7172410	8017	0.6984	
FL vs. DRE	1.8993769	0.3031752	3.4687839	8881	0.0186	*
FL vs. LEY	0.5667168	-0.7997800	1.9062294	8858	0.4068	
FL vs. NER	-1.4718298	-2.9194247	0.0286464	6529	0.0514	.
ALTITUDE	-0.001422	-0.003243	0.000549	9681	0.1472	
DEPTH	0.011813	-0.014409	0.037365	10000	0.3560	
GEOLOGY CS vs. AG	0.514324	-0.157577	1.134659	10000	0.1134	
TIME X TREATMENT						
TIME : DJO	0.726537	0.317974	1.160193	5054	<1e-04	***
TIME : DRE	1.004983	0.635542	1.371331	5672	<1e-04	***
TIME : LEY	0.651372	0.296529	1.012525	6468	0.0004	***
TIME : NER	0.529416	0.093646	0.957146	3814	0.0160	*

MODEL 6a and 6 b - MACROINVERTEBRATES - *Clingers* - Trichoptera

Model 6a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.2069	8.303e-17	1.059	254.2
YEAR	0.05074	2.637e-17	0.3119	561

R-structure: ~units

	post.mean	l-95% CI	u-95% CI	eff.samp
units	3.452	2.37	4.559	2005

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	4.9247285	-1.6173705	10.5623320	2617	0.1126
DAY	-0.0031417	-0.0131920	0.0072710	5043	0.5528
TIME	0.1382004	-0.1118610	0.3807500	9351	0.2588
TREATMENT FL vs. FR					
ESTIMATE AT YEAR 0	-4.0930095	-5.4746670	-2.6840471	2549	0.0002 ***
ESTIMATE AT YEAR 5	0.338009	-1.264898	2.044744	3444	0.6958
ALTITUDE	-0.0011519	-0.0036799	0.0012994	2930	0.3358
DEPTH	0.0394898	0.0007957	0.0797914	7405	0.0556 .
GEOLOGY CS vs. AG	0.2912000	-0.9228006	1.4722803	1699	0.5592
TIME X TREATMENT	0.8765729	0.5024610	1.2549086	4691	<1e-04 ***

Model 6b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.0476	4.683e-17	0.2011	805.7
YEAR	0.07149	2.579e-17	0.4261	658.2

R-structure: ~units

	post.mean	l-95% CI	u-95% CI	eff.samp
units	3.449	2.367	4.558	2708

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	1.7378887	-5.3970040	9.6257062	9131.0	0.6470
DAY	-0.0049254	-0.0156013	0.0051122	5902.5	0.3486
TIME	0.1015930	-0.1435174	0.3537113	8162.4	0.4094
TREATMENT					
ESTIMATE AT YEAR 0					
FL vs. DJO	-5.9990582	-9.1167578	-2.9914106	974.8	0.0004 ***
FL vs. DRE	-3.0029816	-5.3316641	-0.6690659	4921.8	0.0102 *
FL vs. LEY	-4.0629159	-5.9938470	-2.2984677	5468.5	0.0016 **
FL vs. NER	-4.6286016	-6.7011317	-2.6226320	2894.7	0.0008 ***
ESTIMATE AT YEAR 5					
FL vs. DJO	-0.6495726	-3.0119822	1.8950380	4530	0.5962
FL vs. DRE	2.1400557	-0.2336317	4.6740870	8267	0.0828 .
FL vs. LEY	1.0344866	-1.0901680	3.1026051	10000	0.3290
FL vs. NER	-1.4664351	-3.6302767	0.8939436	7960	0.2018
ALTITUDE	0.0001535	-0.0028532	0.0030044	9653.3	0.9226
DEPTH	0.0293852	-0.0083116	0.0704392	10000.0	0.1320
GEOLOGY CS vs. AG	0.5754451	-0.4613751	1.6056827	9340.6	0.2526
TIME : DJO	1.0794078	0.2562447	1.9687260	1194.8	0.0070 **
TIME : DRE	1.0261981	0.4389696	1.6247812	3723.3	<1e-04 ***
TIME : LEY	1.0236253	0.4696192	1.5957747	6222.5	0.0006 ***
TIME : NER	0.6346953	0.0088618	1.3239825	3715.3	0.0514 .

MODEL 7a and 7 b - MACROINVERTEBRATES - *Clingers* - Limnephilidae

Model 7a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.1263	5.482e-17	0.7236	187.9
YEAR	0.0468	4.545e-17	0.2831	649.2

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	2.898	2.021	3.86	3151

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	3.7298673	-1.9544832	9.1076370	5530	0.1856
DAY	-0.0008960	-0.0106738	0.0087452	4611	0.8562
TIME	0.1596261	-0.0778542	0.3838668	10000	0.1714
TREATMENT FL vs. FR					
ESTIMATE AT YEAR 0	-3.7647537	-5.0114575	-2.4477161	3472	0.0002 ***
ESTIMATE AT YEAR 5	0.2176064	-1.2110236	1.6389332	5038	0.7804
ALTITUDE	-0.0009979	-0.0031986	0.0012776	5087	0.3570
DEPTH	0.0332688	-0.0035908	0.0672047	6682	0.0680 .
GEOLOGY CS vs. AG	0.3580143	-0.6710156	1.4629970	1524	0.4594
TIME X TREATMENT	0.7953791	0.4432013	1.1620410	4665	<1e-04 ***

Model 7b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.02268	7.987e-17	0.07644	1543
YEAR	0.03064	3.965e-17	0.2018	393.2

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	2.889	2.034	3.885	3725

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	0.7850225	-6.0763465	7.9596961	7976	0.8186
DAY	-0.0026381	-0.0123280	0.0070234	8755	0.5858
TIME	0.1274562	-0.0975533	0.3452568	9416	0.2518
TREATMENT					
ESTIMATE AT YEAR 0					
FL vs. DJO	-5.0351773	-7.8201881	-2.4148820	1664	0.0002 ***
FL vs. DRE	-2.9289467	-5.2875180	-0.7993221	4873	0.0110 *
FL vs. LEY	-3.6028127	-5.3214225	-1.8914587	5242	0.0006 ***
FL vs. NER	-4.3194774	-6.2542838	-2.3477951	3592	<1e-04 ***
ESTIMATE AT YEAR 5					
FL vs. DJO	-0.5709983	-2.8582119	1.7621894	5972	0.6172
FL vs. DRE	1.9680153	-0.3302642	4.3448878	9302	0.1036
FL vs. LEY	0.9622704	-0.9791991	2.8969141	8664	0.3364
FL vs. NER	-1.5343677	-3.7325496	0.6286034	7853	0.1630
ALTITUDE	0.0002208	-0.0024602	0.0030399	8008	0.8734
DEPTH	0.0230912	-0.0116725	0.0592216	9482	0.2014
GEOLOGY CS vs. AG	0.5516538	-0.3755616	1.4338930	9646	0.2294
TIME X TREATMENT					
TIME : DJO	0.8904260	0.1397012	1.6855457	2110	0.0138 *
TIME : DRE	0.9820899	0.4239378	1.5660774	4623	0.0004 ***
TIME : LEY	0.9104183	0.4053869	1.4559458	6384	0.0008 ***
TIME : NER	0.5494441	-0.0826135	1.1809751	4557	0.0760 .

MODEL 8a and 8 b - MACROINVERTEBRATES - *Clingers* - Coleoptera

Model 8a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	4.384	1.305e-05	12.43	628.1
YEAR	0.1773	3.061e-17	0.719	402.1

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	1.75	1.094	2.539	1116

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	3.434746	-10.671410	17.335143	2249	0.5634
DAY	0.027122	0.018289	0.035327	4398	<1e-04 ***
TIME	0.231015	-0.008468	0.473671	8216	0.0600 .
TREATMENT FL vs. FR					
ESTIMATE AT YEAR 0	-2.760615	-5.764425	0.451327	4930	0.0858 .
ESTIMATE AT YEAR 5	0.1311921	-2.7516217	3.0171219	5882	0.960
ALTITUDE	-0.002324	-0.007994	0.003336	2182	0.3456
DEPTH	-0.037607	-0.140707	0.057741	2271	0.3976
GEOLOGY CS vs. AG	1.751559	-1.209051	4.961019	3006	0.2040
TIME X TREATMENT	0.595825	0.290412	0.926914	1783	0.0004 ***

Model 8b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	10.79	0.4188	32.65	178.8
YEAR	0.156	4.24e-17	0.6792	370.3

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	1.796	1.085	2.591	1450

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	-0.279324	-23.945771	23.257361	685.5	0.9734
DAY	0.027439	0.018256	0.035950	6211.6	<1e-04 ***
TIME	0.224287	-0.005107	0.466086	11264.2	0.0574 .
TREATMENT					
ESTIMATE AT YEAR 0					
FL vs. DJO	-4.770415	-13.102885	3.104687	5230.7	0.1786
FL vs. DRE	-0.613808	-9.013217	8.246899	1079.6	0.7890
FL vs. LEY	-2.253561	-10.068015	5.965543	4710.9	0.4728
FL vs. NER	-4.199021	-12.403345	3.289506	8504.9	0.2204
ESTIMATE AT YEAR 5					
FL vs. DJO	-0.340754	-7.822938	7.208692	9543.8	0.8942
FL vs. DRE	2.662481	-5.397715	11.259524	3151.8	0.4666
FL vs. LEY	-0.815227	-8.215130	7.325416	7485.1	0.7920
FL vs. NER	-0.533368	-8.091535	6.750750	9707.5	0.8494
ALTITUDE	-0.001167	-0.009726	0.008347	606.7	0.7274
DEPTH	-0.040477	-0.204506	0.107805	842.5	0.5440
GEOLOGY CS vs. AG	2.853413	-2.224067	8.080082	1241.6	0.1788
TIME X TREATMENT					
TIME : DJO	0.878155	0.225923	1.557959	1520.3	0.0036 **
TIME : DRE	0.688441	0.246196	1.178949	3954.5	0.0012 **
TIME : LEY	0.293666	-0.197599	0.800829	4652.4	0.2376
TIME : NER	0.727993	0.132082	1.380986	2019.7	0.0152 *

MODEL 9a and 9 b - MACROINVERTEBRATES - *Clingers* - Ditiscidae 1.

Model 9a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	3.519	0.3362	9.45	1142
YEAR	0.4426	7.724e-17	1.286	965.8

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	1.268	0.7468	1.866	823.6

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	4.025886	-7.728487	16.873073	2749.4	0.469
DAY	0.027607	0.019663	0.036025	5551.9	<1e-04 ***
TIME	0.210163	-0.059131	0.511417	9599.5	0.128
TREATMENT FL vs. FR					
ESTIMATE AT YEAR 0	-4.570485	-7.356829	-1.476639	3640.5	0.009 **
ESTIMATE AT YEAR 5	0.615240	-2.070765	3.445715	5772.2	0.639
ALTITUDE	-0.002486	-0.007481	0.002328	2684.7	0.276
DEPTH	-0.035411	-0.129330	0.048363	2775.4	0.387
GEOLOGY CS vs. AG	1.534597	-1.078334	4.420328	4645.0	0.222
TIME X TREATMENT	1.040095	0.670579	1.419361	879.9	<1e-04 ***

Model 9b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	8.768	0.4509	25.75	407.5
YEAR	0.4388	1.202e-16	1.32	726.4

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	1.33	0.7731	1.971	792.4

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	0.107839	-22.482621	21.994532	850.7	0.9456
DAY	0.027865	0.019641	0.036037	5377.8	<1e-04 ***
TIME	0.202597	-0.096674	0.496213	9439.3	0.1478
TREATMENT					
ESTIMATE AT YEAR 0					
FL vs. DJO	-4.949401	-11.877060	2.584389	5767.6	0.1408
FL vs. DRE	-2.793648	-10.660608	5.890834	1749.7	0.4110
FL vs. LEY	-5.238611	-12.911868	2.623433	2544.4	0.1490
FL vs. NER	-5.336231	-12.850868	2.074920	5710.7	0.1220
ESTIMATE AT YEAR 5					
FL vs. DJO	-0.270272	-7.973455	6.913826	7744.5	0.9186
FL vs. DRE	3.319350	-4.921474	11.624143	2451.5	0.3454
FL vs. LEY	0.176080	-7.181456	8.290004	6547.6	0.9598
FL vs. NER	-0.347130	-8.144134	7.156259	9391.7	0.9028
ALTITUDE	-0.001257	-0.009594	0.007266	781.4	0.6972
DEPTH	-0.036877	-0.183363	0.099838	1925.4	0.5480
GEOLOGY CS vs. AG	2.585032	-1.698731	7.608382	3535.4	0.1962
TIME X TREATMENT					
TIME : DJO	0.921025	0.273023	1.558940	1444.0	0.0014 **
TIME : DRE	1.210474	0.681337	1.794149	1445.2	<1e-04 ***
TIME : LEY	1.098316	0.365988	1.846184	675.9	0.0006 ***
TIME : NER	0.992127	0.350987	1.694798	1104.2	0.0016 **

MODEL 10a and 10b - MACROINVERTEBRATES - *Clingers* - Plecoptera

Model 10a:

G-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
LAKE	25	1.561	79.97	43.41
YEAR	1.3	5.577e-12	3.701	1964

R-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
units	0.9444	0.2026	1.934	547.1

	post.mean	1-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	5.527682	-23.308919	32.567116	1130.8	0.607
DAY	-0.002452	-0.012806	0.008145	3487.8	0.610
TIME	0.012482	-0.656788	0.629070	1484.8	0.944
TREATMENT FL vs. FR					
ESTIMATE AT YEAR 0	-2.005133	-9.129076	5.723598	2178.1	0.488
ESTIMATE AT YEAR 5	4.812118	-2.061955	12.040848	2026.6	0.136
ALTITUDE	-0.003317	-0.014366	0.008202	905.0	0.473
DEPTH	0.014074	-0.212744	0.233919	615.2	0.821
GEOLOGY CS vs. AG	-1.555002	-9.104819	5.769447	1266.0	0.610
TIME X TREATMENT	1.366666	0.656889	2.047616	659.9	<1e-04 ***

Model 10b:

G-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
LAKE	57.51	1.366	219.8	37.97
YEAR	1.352	8.937e-17	3.953	1515

R-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
units	1.124	0.2166	2.363	431

	post.mean	1-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	4.344e+00	-4.484e+01	5.171e+01	969.053	0.7430
DAY	-2.073e-03	-1.305e-02	9.376e-03	3219.284	0.6818
TIME	5.770e-03	-6.918e-01	6.677e-01	1420.057	0.9494
TREATMENT					
ESTIMATE AT YEAR 0					
FL vs. DJO	-6.260e+01	-1.105e+02	-5.451e+00	4.569	0.0310 *
FL vs. DRE	7.483e-01	-1.760e+01	2.056e+01	1007.418	0.9882
FL vs. LEY	3.344e-01	-1.830e+01	2.058e+01	1621.411	0.9702
FL vs. NER	-7.399e-01	-1.838e+01	1.916e+01	1291.309	0.8350
ESTIMATE AT YEAR 5					
FL vs. DJO	-48.391657	-98.257585	-5.674261	15.91	0.0372 *
FL vs. DRE	7.430962	-9.495488	25.460446	1800.78	0.2824
FL vs. LEY	7.792377	-8.990657	25.110196	1687.45	0.2456
FL vs. NER	4.251780	-11.903253	21.635704	1528.00	0.5220
ALTITUDE	-3.174e-03	-2.184e-02	1.629e-02	831.542	0.6028
DEPTH	-1.415e-02	-3.928e-01	3.620e-01	246.717	0.9636
GEOLOGY CS vs. AG	-3.002e-01	-1.321e+01	1.240e+01	783.438	0.8960
TIME X TREATMENT					
TIME : DJO	8.703e+00	-2.809e+00	2.155e+01	10.039	0.2138
TIME : DRE	1.437e+00	6.960e-01	2.214e+00	820.721	<1e-04 ***
TIME : LEY	1.466e+00	5.060e-01	2.535e+00	563.906	0.0008 ***
TIME : NER	1.037e+00	-2.252e-01	2.394e+00	512.604	0.0966

MODEL 11a and 11 b - MACROINVERTEBRATES - Clingers - Hydracarinae

Model 11a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	11.25	0.4487	29.43	1606
YEAR	0.07442	4.917e-17	0.3959	1246

R-structure:

units	4.3	2.217	6.644	2013
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	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	-4.619e+00	-2.571e+01	1.600e+01	6266	0.6546
DAY	2.194e-02	5.419e-03	3.829e-02	5803	0.0066 **
TIME	2.261e-01	-1.635e-01	5.887e-01	8435	0.2212
TREATMENT FL vs. FR					
ESTIMATE AT YEAR 0	-4.243e+00	-9.660e+00	1.081e+00	4394	0.1114
ESTIMATE AT YEAR 5	2.113e+00	-2.940e+00	7.586e+00	5996	0.3676
ALTITUDE	1.944e-04	-7.615e-03	9.129e-03	6024	0.9874
DEPTH	3.089e-02	-1.100e-01	1.718e-01	8063	0.6154
GEOLOGY CS vs. AG	-5.977e-01	-5.841e+00	4.362e+00	6708	0.8136
TIME X TREATMENT	1.275e+00	5.757e-01	1.937e+00	2206	<1e-04 ***

Model 11b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	9.778	8.403e-17	33.08	624.7
YEAR	0.08193	3.626e-17	0.4271	798.9

R-structure:

units	post.mean	l-95% CI	u-95% CI	eff.samp
units	4.89	2.442	7.851	1005

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	-6.233e+00	-3.040e+01	1.630e+01	3358.985	0.5554
DAY	2.185e-02	5.159e-03	3.947e-02	6039.368	0.0128 *
YEAR	1.964e-01	-1.715e-01	6.027e-01	6751.563	0.3168
TREATMENT					
ESTIMATE AT YEAR 0					
FL vs. DJO	-8.917e+01	-1.808e+02	-6.757e+00	9.582	0.0092 **
FL vs. DRE	5.821e+00	-2.254e+00	1.500e+01	7535.127	0.1292
FL vs. LEY	1.039e+00	-7.543e+00	9.121e+00	6750.035	0.7754
FL vs. NER	2.609e+00	-5.404e+00	1.113e+01	7313.373	0.4160
ESTIMATE AT YEAR 5					
FL vs. DJO	-9.395e+01	-2.114e+02	-1.310e+00	2.725	0.0130 *
FL vs. DRE	-1.718e+00	-1.033e+01	8.144e+00	6738.004	0.6008
FL vs. LEY	-4.586e+00	-1.377e+01	4.525e+00	5865.118	0.2392
FL vs. NER	-6.988e+00	-1.741e+01	3.335e+00	1779.404	0.1386
ALTITUDE	1.010e-03	-7.426e-03	1.080e-02	3093.586	0.8338
DEPTH	3.793e-02	-1.086e-01	1.823e-01	6500.225	0.4928
GEOLOGY CS vs. AG	9.980e-01	-4.577e+00	6.059e+00	3776.396	0.5702
TIME X TREATMENT					
TIME : DJO	1.472e+00	-2.675e+01	2.739e+01	8.499	0.9028
TIME : DRE	1.525e+00	6.040e-01	2.480e+00	3799.898	<1e-04 ***
TIME : LEY	1.136e+00	7.853e-02	2.256e+00	2620.805	0.0212 *
TIME : NER	1.958e+00	4.002e-01	3.620e+00	979.966	0.0042 **

MODEL 12a and 12 b - MACROINVERTEBRATES - Clingers - Tricladida

Model 12a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	5.249	3.947e-17	21.29	331
YEAR	0.168	2.772e-17	0.8695	1024

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	9.014	3.717	15.38	791.7

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	-21.046515	-42.903151	1.733794	1905	0.0686	.
DAY	0.052804	0.026765	0.084977	1684	<1e-04	***
TIME	0.675351	0.129287	1.253098	4233	0.0140	*
TREATMENT FL vs. FR						
ESTIMATE AT YEAR 0	-0.825118	-5.286794	3.740287	5673	0.6428	
ESTIMATE AT YEAR 5	0.045859	-4.442430	4.342373	5308	0.9608	
ALTITUDE	0.004921	-0.004203	0.013370	2091	0.2384	
DEPTH	-0.018753	-0.161136	0.114098	5202	0.7858	
GEOLOGY CS vs. AG	-0.657348	-4.582963	3.779777	6600	0.6448	
TIME X TREATMENT	0.164415	-0.648567	1.038127	4531	0.6892	

Model 12b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.9706	6.235e-17	3.56	754.8
YEAR	0.1747	4.184e-17	0.9447	561.8

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	9.192	3.838	15.7	772.8

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	-3.622e+01	-6.797e+01	-1.029e+01	1844.706	0.0098	**
DAY	5.731e-02	2.714e-02	9.038e-02	1480.813	<1e-04	***
TIME	6.005e-01	6.365e-02	1.211e+00	2961.269	0.0318	*
TREATMENT						
ESTIMATE AT YEAR 0						
FL vs. DJO	2.040e+00	-3.245e+00	7.167e+00	4219.667	0.4086	
FL vs. DRE	-1.346e+00	-1.097e+01	8.058e+00	1394.788	0.7914	
FL vs. LEY	1.494e-01	-3.985e+00	4.168e+00	5836.162	0.9260	
FL vs. NER	-5.297e+01	-1.290e+02	7.336e-01	9.211	0.0112	*
ESTIMATE AT YEAR 5						
FL vs. DJO	-4.688e+00	-1.374e+01	3.355e+00	2308.086	0.2510	
FL vs. DRE	5.895e+00	-1.611e+00	1.304e+01	2671.707	0.0884	.
FL vs. LEY	1.797e+00	-2.754e+00	6.670e+00	7672.052	0.3982	
FL vs. NER	-1.169e+02	-2.681e+02	1.460e+00	4.915	0.0086	**
ALTITUDE	1.092e-02	8.813e-04	2.228e-02	2109.808	0.0382	*
DEPTH	-5.944e-02	-1.781e-01	5.218e-02	3814.472	0.2852	
GEOLOGY CS vs. AG	-9.416e-01	-3.582e+00	1.533e+00	2867.051	0.3970	
TIME : DJO	-1.304e+00	-3.348e+00	5.832e-01	2363.540	0.1682	
TIME : DRE	1.463e+00	-2.882e-01	3.308e+00	1193.214	0.0766	.
TIME : LEY	3.349e-01	-7.987e-01	1.431e+00	7321.524	0.5368	
TIME : NER	-3.749e+01	-8.186e+01	1.450e+01	3.571	0.1906	

MODEL 13a and 13 b - MACROINVERTEBRATES - Swimmers - All taxa

Model 13a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	1.031	0.1122	2.395	7855
YEAR	0.146	2.813e-17	0.6377	238.1

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	1.636	1.142	2.156	1082

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	8.8035705	1.8303858	15.4585389	7805	0.0168	*
DAY	0.0164057	0.0090407	0.0234196	4397	<1e-04	***
TIME	0.1437501	-0.0620397	0.3645257	9710	0.1562	
TREATMENT FL vs. FR						
ESTIMATE AT YEAR 0	-4.6935148	-6.3687553	-3.0488535	3137	0.0002	***
ESTIMATE AT YEAR 5	-0.1560801	-1.9171225	1.4521943	5349	0.8352	
ALTITUDE	-0.0022055	-0.0049261	0.0004338	8117	0.1068	
DEPTH	-0.0537593	-0.1025423	-0.0065499	6972	0.0390	*
GEOLOGY CS vs. AG	0.3802796	-1.1914891	1.8760625	9976	0.6084	
TIME X TREATMENT	0.9122963	0.6586899	1.1734201	1616	<1e-04	***

Model 13b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	1.615	0.1604	3.929	7605
YEAR	0.1627	5.437e-17	0.684	236.9

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	1.641	1.145	2.172	732.6

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	6.769903	-1.987920	15.770261	7653.5	0.1260	
DAY	0.016554	0.009447	0.024048	4796.3	<1e-04	***
TIME	0.137309	-0.088200	0.360785	9391.0	0.1970	
TREATMENT						
ESTIMATES AT YEAR 0						
FL vs. DJO	-4.743105	-8.050387	-1.462872	4764.3	0.0082	**
FL vs. DRE	-3.990308	-7.403000	-0.618826	6247.2	0.0236	*
FL vs. LEY	-5.086322	-8.610961	-1.586501	1761.9	0.0076	**
FL vs. NER	-5.245988	-8.728605	-2.056092	3732.6	0.0072	**
ESTIMATES AT YEAR 5						
FL vs. DJO	1.352437	-2.027436	4.638177	8687	0.3942	
FL vs. DRE	-0.075361	-3.623258	3.447968	6683	0.9464	
FL vs. LEY	-1.035778	-4.737971	2.188475	8876	0.5216	
FL vs. NER	-0.397977	-3.614397	3.002823	8980	0.7962	
ALTITUDE	-0.001766	-0.005152	0.001666	7765.7	0.2874	
DEPTH	-0.045711	-0.104367	0.017330	8295.9	0.1280	
GEOLOGY CS vs. AG	0.507006	-1.570635	2.645145	10000.0	0.6014	
TREATMENT						
TIME : DJO	1.224232	0.779044	1.696049	1824.3	<1e-04	***
TIME : DRE	0.773329	0.378368	1.133693	3650.6	0.0002	***
TIME : LEY	0.804829	0.304213	1.276643	579.8	0.0006	***
TIME : NER	0.969087	0.519401	1.455992	1276.1	<1e-04	***

MODEL 14a and 14 b - MACROINVERTEBRATES - Swimmers - Ditiscidae i.

Model 14a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	1.551	0.1583	3.687	2982
YEAR	0.03619	4.297e-17	0.2279	560

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	1.312	0.8478	1.813	1640

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	2.7680207	-5.4283193	10.8609985	5335	0.4616
DAY	-0.0027423	-0.0100076	0.0046884	6411	0.4592
TIME	0.2942818	0.1298330	0.4618453	9083	0.0028 **
TREATMENT FL vs. FR					
ESTIMATES AT YEAR 0					
FL vs. DJO	-3.4734664	-5.4360187	-1.4860044	3481	0.0030 **
FL vs. DRE	-0.9846859	-2.9019694	1.0440624	8386	0.2890
FL vs. LEY	-0.0004164	-0.0036208	0.0028981	5476	0.7770
ALTITUDE					
DEPTH	-0.0748345	-0.1375173	-0.0126422	2713	0.0174 *
GEOLOGY CS vs. AG	0.4480476	-1.3795170	2.2733900	8659	0.5992
TIME X TREATMENT	0.4896023	0.2170776	0.7839451	1839	<1e-04 ***

Model 14b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	2.86	0.2357	7.519	1335
YEAR	0.1259	3.378e-17	0.5813	723.8

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	1.055	0.633	1.506	1194

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	1.905e+00	-9.482e+00	1.366e+01	3877.46	0.6968
DAY	-3.744e-03	-1.041e-02	3.208e-03	5108.33	0.2778
TIME	2.855e-01	9.412e-02	4.732e-01	8331.09	0.0102 *
TREATMENT					
ESTIMATES AT YEAR 0					
FL vs. DJO	-6.135e+00	-1.122e+01	-1.550e+00	1227.13	0.0190 *
FL vs. DRE	-1.598e+00	-6.009e+00	3.089e+00	5474.97	0.4264
FL vs. LEY	-6.771e+00	-1.312e+01	-9.260e-01	152.52	0.0242 *
FL vs. NER	-3.166e+00	-7.374e+00	1.012e+00	6711.72	0.1194
ESTIMATES AT YEAR 5					
FL vs. DJO	0.3150628	-3.5036532	4.7402178	5196.6	0.8752
FL vs. DRE	-2.0436136	-6.4235382	2.6172662	5668.5	0.3438
FL vs. LEY	-0.6061069	-5.1336391	3.7495570	5047.1	0.7380
FL vs. NER	-0.3105630	-4.4203580	3.8745381	9377.2	0.8624
ALTITUDE	-1.218e-04	-4.266e-03	4.399e-03	3990.42	0.9318
DEPTH	-7.260e-02	-1.575e-01	1.443e-02	1790.62	0.0648
GEOLOGY CS vs. AG	5.513e-01	-2.084e+00	3.107e+00	8989.95	0.6240
TIME : DJO	1.290e+00	6.406e-01	1.980e+00	422.03	<1e-04 ***
TIME : DRE	-9.642e-02	-4.741e-01	2.889e-01	3962.00	0.6020
TIME : LEY	1.240e+00	2.753e-01	2.251e+00	91.64	0.0024 **
TIME : NER	5.712e-01	1.712e-01	9.919e-01	2627.09	0.0058 **

MODEL 15a and 15b - MACROINVERTEBRATES - Swimmers - Corixidae

Model 15a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	6.052	0.9061	14.99	207.3
YEAR	0.03276	3.993e-17	0.2017	543.8

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	2.325	1.468	3.232	561.6

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	1.630e+01	-8.564e-03	3.254e+01	447.76	0.0414	*
DAY	3.157e-02	2.172e-02	4.244e-02	1386.19	<1e-04	***
TIME	1.357e-01	-7.958e-02	3.523e-01	6981.99	0.2070	
TREATMENT FL vs. FR						
ESTIMATES AT YEAR 0	-8.831e+00	-1.255e+01	-4.979e+00	424.79	0.0008	***
ESTIMATES AT YEAR 5	0.2873040	-3.7325674	4.5614706	6124.33	0.8830	
ALTITUDE	-6.241e-03	-1.292e-02	8.769e-05	425.18	0.0462	*
DEPTH	-2.757e-01	-4.607e-01	-8.621e-02	54.15	0.0012	**
GEOLOGY CS vs. AG	2.886e+00	-6.633e-01	6.681e+00	788.24	0.0944	.
TIME X TREATMENT	1.810e+00	1.326e+00	2.283e+00	133.60	<1e-04	***

Model 15b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	17.61	0.4461	59.09	62.82
YEAR	0.05556	4.147e-17	0.3306	797.8

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	2.386	1.52	3.361	435.7

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	2.801e+01	-1.901e+00	6.567e+01	141.48	0.0598	.
DAY	3.177e-02	2.125e-02	4.309e-02	1327.41	<1e-04	***
TIME	1.399e-01	-8.523e-02	3.630e-01	6905.05	0.2112	
TREATMENT						
ESTIMATES AT YEAR 0						
FL vs. DJO	-9.994e+00	-2.051e+01	3.916e-01	1431.21	0.0560	.
FL vs. DRE	-1.237e+01	-2.386e+01	-8.894e-01	399.28	0.0410	*
FL vs. LEY	-3.368e+00	-1.652e+01	8.745e+00	96.60	0.5598	
FL vs. NER	-8.853e+00	-1.915e+01	1.825e+00	776.12	0.0814	.
ESTIMATES AT YEAR 5						
FL vs. DJO	-6.448e-01	-1.141e+01	9.478e+00	1041.678	0.8760	
FL vs. DRE	-3.033e+00	-1.586e+01	7.697e+00	360.518	0.5118	
FL vs. LEY	6.191e+00	-5.315e+00	1.851e+01	86.844	0.2444	
FL vs. NER	-1.278e+00	-1.205e+01	8.370e+00	6814.878	0.7072	
ALTITUDE	-1.038e-02	-2.540e-02	7.854e-04	145.96	0.0582	.
DEPTH	-4.388e-01	-8.170e-01	-9.369e-02	20.43	0.0138	*
GEOLOGY CS vs. AG	3.003e+00	-3.570e+00	1.034e+01	257.87	0.3124	
TIME X TREATMENT						
TIME : DJO	1.973e+00	1.257e+00	2.751e+00	521.89	<1e-04	***
TIME : DRE	2.060e+00	1.143e+00	2.994e+00	130.13	<1e-04	***
TIME : LEY	1.591e+00	2.457e-01	2.911e+00	45.04	0.0024	**
TIME : NER	1.508e+00	5.629e-01	2.529e+00	167.31	<1e-04	***

MODEL 16a and 16b - MACROINVERTEBRATES - Swimmers - Diptera

Model 16a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.4818	8.829e-17	3.073	339.2
YEAR	0.05056	2.612e-17	0.1734	1102

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	9.602	5.428	14.8	1608

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	3.117082	-7.710478	13.830890	5601	0.5602
DAY	0.011607	-0.008914	0.034389	7492	0.2870
TIME	0.369440	-0.130759	0.897530	3429	0.1456
TREATMENT FL vs. FR					
ESTIMATES AT YEAR 0	0.312923	-2.099980	2.855823	7172	0.8042
ESTIMATES AT YEAR 5	-0.590703	-3.868654	2.437895	5430	0.7096
ALTITUDE	-0.001674	-0.005997	0.002518	8671	0.4378
DEPTH	0.002085	-0.075395	0.079280	6795	0.9480
GEOLOGY CS vs. AG	-1.946602	-4.196696	0.280651	5702	0.0772
TIME X TREATMENT	-0.182542	-0.925276	0.575968	5398	0.6206

Model 16a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	5.982	1.037e-16	22.84	408.3
YEAR	0.06138	2.517e-17	0.2187	1185

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	10.32	5.217	16.82	1175

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	5.324872	-14.736228	24.983732	2901	0.582
DAY	0.012146	-0.010974	0.035987	7340	0.300
TIME	0.521433	-0.050178	1.138179	876	0.075
TREATMENT					
ESTIMATES AT YEAR 0					
FL vs. DJO	2.403495	-4.509191	9.845443	6748	0.437
FL vs. DRE	-1.425591	-9.284294	5.368279	3711	0.659
FL vs. LEY	0.890945	-6.236140	8.768495	3025	0.811
FL vs. NER	1.487964	-5.587835	8.813396	4331	0.662
ESTIMATES AT YEAR 5					
FL vs. DJO	-3.084488	-11.915393	5.439373	5773	0.430
FL vs. DRE	-2.023285	-10.662818	5.608645	1415	0.623
FL vs. LEY	0.790454	-6.769831	8.665362	8740	0.825
FL vs. NER	-2.197962	-10.602547	6.542407	6774	0.579
ALTITUDE	-0.003115	-0.010439	0.004876	4390	0.388
DEPTH	-0.010174	-0.156415	0.121143	7085	0.894
GEOLOGY CS vs. AG	-3.105325	-8.216812	1.419613	2035	0.122
TIME X TREATMENT					
TIME : DJO	-1.080201	-2.638343	0.502922	4482	0.163
TIME : DRE	-0.109625	-1.210314	0.952864	3561	0.841
TIME : LEY	-0.030286	-1.315814	1.194278	5394	0.961
TIME : NER	-0.713737	-2.385015	0.860472	4249	0.373

**MODELS 17a and 17b - MACROINVERTEBRATES - Swimmers - Chironomidae
p.**

Model 17a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.2122	8.683e-17	1.246	507.7
YEAR	0.06307	2.507e-17	0.3322	928.4

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	9.07	4.824	14.4	1372

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	-6.756972	-17.595106	3.914670	6901	0.2116
DAY	0.019600	-0.003360	0.040651	7035	0.0704
TIME	0.358217	-0.145460	0.878649	5602	0.1610
TREATMENT FL vs. FR					
ESTIMATES AT YEAR 0	1.337391	-1.042692	3.653204	5972	0.2488
ESTIMATES AT YEAR 5	0.422538	-2.685952	3.451370	8084	0.7856
ALTITUDE	0.001338	-0.003038	0.005717	7831	0.5464
DEPTH	-0.043030	-0.123627	0.039028	6651	0.2790
GEOLOGY CS vs. AG	-2.667922	-4.718684	-0.390098	5508	0.0088 **
TIME X TREATMENT	-0.173597	-0.885546	0.538521	7002	0.6254

Model 17b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.9882	7.515e-17	6.113	416.8
YEAR	0.08382	5.133e-17	0.3801	921.6

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	10.5	5.336	17.09	1555

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	-11.850521	-28.600825	5.041764	8190	0.1558
DAY	0.020509	-0.003208	0.044897	6773	0.0796
TIME	0.381749	-0.168142	0.956632	4117	0.1742
TREATMENT					
ESTIMATES AT YEAR 0					
FL vs. DJO	2.813371	-1.778745	7.508237	7899	0.1980
FL vs. DRE	2.264765	-2.699358	6.997209	8832	0.3130
FL vs. LEY	0.367741	-4.506544	5.047477	6470	0.8800
FL vs. NER	0.933022	-3.499475	5.569132	6286	0.6784
ESTIMATES AT YEAR 5					
FL vs. DJO	-1.706631	-8.754646	4.676721	4987	0.6174
FL vs. DRE	2.430820	-3.082370	8.303265	4049	0.3626
FL vs. LEY	1.082634	-4.089668	6.206371	8100	0.6720
FL vs. NER	-2.004770	-8.915867	4.180045	5338	0.5490
ALTITUDE	0.003164	-0.003440	0.009618	8663	0.3172
DEPTH	-0.045354	-0.154772	0.062929	5614	0.3930
GEOLOGY CS vs. AG	-2.642243	-5.452820	0.065400	2949	0.0380 *
TIME X TREATMENT					
TIME : DJO	-0.917995	-2.525305	0.617910	5084	0.2390
TIME : DRE	0.024191	-1.090309	1.058368	8449	0.9590
TIME : LEY	0.132603	-1.130113	1.389678	7428	0.8420
TIME : NER	-0.583249	-2.201610	1.030930	5230	0.4722

MODELS 18a and 18 b - MACROINVERTEBRATES - Burrowers - All taxa

Model 18a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.4821	0.1	1.07	9632
YEAR	0.3872	0.05423	0.9439	9406

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	0.6368	0.4881	0.8075	8497

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	6.258809	1.878377	10.655176	10000	0.0110	*
DAY	0.012737	0.008569	0.017022	10000	<1e-04	***
TIME	0.526566	0.285570	0.770375	10000	0.0012	**
TREATMENT FL vs. FR						
ESTIMATES AT YEAR 0	0.541293	-0.472322	1.600002	10000	0.2776	
ESTIMATES AT YEAR 5	-0.418956	-1.507784	0.723035	10000	0.4538	
ALTITUDE	-0.001220	-0.002910	0.000636	10187	0.1700	
DEPTH	-0.024920	-0.055573	0.006575	10000	0.1036	
GEOLOGY CS vs. AG	0.105707	-0.908964	1.155252	10000	0.8364	
TIME X TREATMENT	-0.189427	-0.328627	-0.044494	9618	0.0096	**

Model 18b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.004685	9.343e-17	0.01895	2175
YEAR	0.3636	0.04841	0.8849	10342

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	0.6446	0.4896	0.8084	7841

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	8.0391030	4.3826458	11.3528132	8578	<1e-04	***
DAY	0.0126734	0.0085798	0.0171180	9682	<1e-04	***
YEAR	0.5262052	0.2981555	0.7689232	10000	0.0004	***
TREATMENT						
ESTIMATES AT YEAR 0						
FL vs. DJO	1.2436394	0.4915562	1.9384515	10000	0.0012	**
FL vs. DRE	1.2474903	0.3584668	2.1250748	9697	0.0086	**
FL vs. LEY	1.0126679	0.3712168	1.6684061	8886	0.0044	**
FL vs. NER	-0.9513407	-1.6090946	-0.2731667	8411	0.0058	**
ESTIMATES AT YEAR 5						
FL vs. DJO	0.6223990	-0.2917415	1.5773073	10333	0.1924	
FL vs. DRE	-0.1645697	-1.2520073	0.8264483	9625	0.7530	
FL vs. LEY	0.1635371	-0.6777534	1.0568742	9294	0.7038	
FL vs. NER	-1.8414734	-2.7191681	-0.8989365	9479	0.0002	***
ALTITUDE	-0.0009262	-0.0021964	0.0003987	8574	0.1634	
DEPTH	-0.0236318	-0.0411897	-0.0061106	9566	0.0074	**
GEOLOGY CS vs. AG	0.1140069	-0.3044843	0.5514100	10000	0.5958	
TIME X TREATMENT						
TIME : DJO	-0.1229707	-0.3650766	0.1093688	10000	0.3128	
TIME : DRE	-0.2824135	-0.4893741	-0.0645532	10000	0.0098	**
TIME : LEY	-0.1677219	-0.3879921	0.0380585	9685	0.1194	
TIME : NER	-0.1771824	-0.4092414	0.0707771	8955	0.1550	

MODELS 19a and 19 b - MACROINVERTEBRATES - Burrowers - Diptera

Model 19a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.4258	0.04735	1.001	9522
YEAR	0.5727	0.06971	1.391	9428

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	1.121	0.8427	1.431	7305

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	6.1058618	1.1919401	10.8770521	10000	0.0178	*
DAY	0.0143228	0.0090268	0.0202272	10000	<1e-04	***
TIME	0.5278343	0.2193216	0.8167716	10310	0.0036	**
TREATMENT FL vs. FR						
ESTIMATES AT YEAR 0	0.2299899	-0.9015089	1.2724063	10000	0.6526	
ESTIMATES AT YEAR 5	-0.2439121	-1.4561497	0.9339789	10000	0.6854	
ALTITUDE	-0.0013649	-0.0033166	0.0005881	10714	0.1704	
DEPTH	-0.0268730	-0.0602797	0.0071920	9415	0.1104	
GEOLOGY CS vs. AG	0.1423300	-0.9144501	1.2203518	10000	0.7656	
TIME X TREATMENT	-0.0937976	-0.2853377	0.0911169	10000	0.3216	

Model 19b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.009172	6.239e-17	0.04102	1038
YEAR	0.5597	0.05953	1.365	9614

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	1.153	0.8683	1.469	5098

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	4.2747254	-0.1375262	8.8679715	8927	0.0610	.
DAY	0.0144428	0.0084800	0.0198065	9122	<1e-04	***
TIME	0.5013488	0.2065294	0.7975862	10348	0.0040	**
TREATMENT						
ESTIMATES AT YEAR 0						
FL vs. DJO	0.3808335	-0.5729651	1.4128076	9368	0.4386	
FL vs. DRE	1.1285793	0.0079990	2.3362524	9004	0.0614	.
FL vs. LEY	0.9270491	0.0534054	1.8296513	10000	0.0422	*
FL vs. NER	-0.9292940	-1.8148624	-0.0220752	6914	0.0410	*
ESTIMATES AT YEAR 5						
FL vs. DJO	0.7275833	-0.5244164	1.9866904	10000	0.2506	
FL vs. DRE	0.3383691	-1.0410374	1.7882577	10000	0.6142	
FL vs. LEY	0.6638740	-0.5939993	1.8012546	10000	0.2626	
FL vs. NER	-1.6602224	-2.8595189	-0.4136347	8383	0.0086	**
ALTITUDE	-0.0006882	-0.0023837	0.0011070	8929	0.4260	
DEPTH	-0.0315812	-0.0552979	-0.0067806	6514	0.0110	*
GEOLOGY CS vs. AG	0.1979721	-0.3505892	0.7836641	10000	0.4824	
TIME X TREATMENT						
TIME : DJO	0.0723079	-0.2515541	0.3959562	10000	0.6524	
TIME : DRE	-0.1543702	-0.4379514	0.1368332	10000	0.2898	
TIME : LEY	-0.0537579	-0.3454124	0.2345156	10000	0.7076	
TIME : NER	-0.1432392	-0.4678107	0.1760383	8006	0.3764	

**MODELS 20a and 20b - MACROINVERTEBRATES - Burrowers - Chironomidae
1.**

Model 20a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.4527	0.04589	1.057	8537
YEAR	0.5372	0.06855	1.335	10000

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	1.199	0.8948	1.527	6341

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	6.2564945	1.5205455	11.5030293	10000	0.0184	*
DAY	0.0153068	0.0093062	0.0212764	8800	<1e-04	***
TIME	0.5190298	0.2255746	0.8256470	10032	0.0030	**
TREATMENT FL vs. FR						
ESTIMATES AT YEAR 0	0.2043827	-0.8942185	1.3478847	9501	0.6814	
ESTIMATES AT YEAR 5	-0.2013915	-1.4498115	1.0553225	10000	0.7418	
ALTITUDE	-0.0014454	-0.0035496	0.0004594	10000	0.1496	
DEPTH	-0.0294214	-0.0634549	0.0059429	8285	0.0870	.
GEOLOGY CS vs. AG	0.1755873	-0.9435975	1.2355109	10000	0.7368	
TIME X TREATMENT	-0.0857431	-0.2903734	0.1089148	10000	0.3886	

Model 20b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.01036	6.26e-17	0.03826	2767
YEAR	0.5389	0.05481	1.32	10000

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	1.233	0.9202	1.557	6069

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	4.3902359	-0.0298596	9.1456467	9243	0.0600	.
DAY	0.0154477	0.0095587	0.0212755	9153	<1e-04	***
TIME	0.4916459	0.1896142	0.7786276	10000	0.0050	**
TREATMENT						
ESTIMATES AT YEAR 0						
FL vs. DJO	0.3491120	-0.7087317	1.3377406	9441	0.4940	
FL vs. DRE	1.1062304	-0.1821332	2.2946937	9397	0.0798	.
FL vs. LEY	0.9464887	0.0840474	1.8901826	9389	0.0408	*
FL vs. NER	-0.9918376	-1.9182285	-0.0992402	9211	0.0352	*
ESTIMATES AT YEAR 5						
FL vs. DJO	0.7481394	-0.5587670	2.0197873	10000	0.2542	
FL vs. DRE	0.3818089	-1.0397142	1.8397525	9089	0.5924	
FL vs. LEY	0.7325867	-0.4715055	1.9869321	10000	0.2394	
FL vs. NER	-1.6573047	-2.9357194	-0.4341264	9264	0.0102	*
ALTITUDE	-0.0007534	-0.0025155	0.0010279	8320	0.3946	
DEPTH	-0.0345270	-0.0589655	-0.0088364	7203	0.0066	**
GEOLOGY CS vs. AG	0.2271092	-0.3130590	0.8374916	9608	0.4342	
TIME X TREATMENT						
TIME : DJO	0.0806061	-0.2448158	0.4016842	10000	0.6350	
TIME : DRE	-0.1475536	-0.4439749	0.1497156	10000	0.3238	
TIME : LEY	-0.0429867	-0.3519265	0.2442207	11029	0.7718	
TIME : NER	-0.1313559	-0.4537820	0.2094491	9217	0.4392	

MODELS 21a and 21 b - MACROINVERTEBRATES - Burrowers - Pisidium

Model 21a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	16.51	0.9138	54.56	56.54
YEAR	0.09611	3.671e-17	0.5475	521

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	3.075	1.843	4.367	2457

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	26.6526253	0.9821086	57.2896086	211.09	0.0234 *
DAY	0.0136489	0.0023868	0.0252108	5976.81	0.0170 *
TIME	0.1179173	-0.1725463	0.3972791	8310.21	0.3928
TREATMENT FL vs. FR					
ESTIMATES AT YEAR 0	-0.6011685	-6.3278390	5.4580016	1549.06	0.8166
ESTIMATES AT YEAR 5	0.3637866	-4.2869930	5.2641913	5404.2	0.8714
ALTITUDE	-0.0104810	-0.0226106	-0.0006123	284.39	0.0262 *
DEPTH	-0.2901418	-0.7349411	0.0169798	36.17	0.0256 *
GEOLOGY CS vs. AG	2.2602626	-3.5272291	8.1722372	1000.33	0.3856
TIME X TREATMENT	0.1726523	-0.2104178	0.5471938	8185.41	0.3616

Model 21b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.07521	7.148e-17	0.1289	774.7
YEAR	0.05391	3.395e-17	0.3611	559.3

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	3.357	2.117	4.797	2128

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	1.893e+01	6.778e+00	3.146e+01	1102.430	0.0014 **
DAY	1.320e-02	1.509e-03	2.504e-02	7059.612	0.0272 *
TIME	1.293e-01	-1.427e-01	4.099e-01	9121.261	0.3436
TREATMENT					
ESTIMATES AT YEAR 0					
FL vs. DJO	1.092e+00	-1.029e+00	3.065e+00	1698.198	0.2960
FL vs. DRE	6.712e-04	-2.852e+00	2.757e+00	1528.950	0.9964
FL vs. LEY	1.230e+00	-1.558e+00	4.117e+00	645.816	0.3910
FL vs. NER	-3.071e+01	-6.998e+01	-3.810e+00	7.575	0.0004 ***
ESTIMATES AT YEAR 5					
FL vs. DJO	1.967e+00	-6.625e-01	4.409e+00	2433.701	0.1204
FL vs. DRE	6.739e-01	-2.616e+00	3.585e+00	1681.499	0.6562
FL vs. LEY	2.383e+00	-6.273e-01	5.603e+00	1023.235	0.1250
FL vs. NER	-8.423e+01	-1.801e+02	-2.236e+00	3.118	0.0004 ***
ALTITUDE	-6.768e-03	-1.121e-02	-2.076e-03	1421.360	0.0024 **
DEPTH	-2.276e-01	-3.655e-01	-8.784e-02	500.343	0.0002 ***
GEOLOGY CS vs. AG	1.133e+00	-1.328e-01	2.377e+00	6565.514	0.0710 .
TIME X TREATMENT					
TIME : DJO	1.627e-01	-4.024e-01	7.142e-01	10000.000	0.5568
TIME : DRE	1.192e-01	-3.697e-01	6.411e-01	9552.960	0.6422
TIME : LEY	2.486e-01	-3.733e-01	8.641e-01	7663.864	0.4294
TIME : NER	-3.807e+00	-2.344e+01	1.428e+01	6.031	0.6920

MODELS 22a and 22 b - MACROINVERTEBRATES - Burrowers - Oligochaeta

Model 22a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	3.24	0.4379	7.947	874.6
YEAR	0.03635	3.534e-17	0.2145	473.6

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	1.566	1.115	2.011	2920

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	2.049e-01	-1.171e+01	1.086e+01	1938	0.9320
DAY	1.513e-02	8.615e-03	2.206e-02	7419	<1e-04 ***
TIME	5.567e-01	3.824e-01	7.397e-01	8903	<1e-04 ***
TREATMENT FL vs. FR					
ESTIMATES AT YEAR 0	1.361e+00	-1.160e+00	3.981e+00	5361	0.2498
ESTIMATES AT YEAR 5	-0.3142060	-2.9131446	2.4915130	6177	0.767
ALTITUDE	-2.327e-04	-4.538e-03	4.435e-03	2367	0.8794
DEPTH	-1.358e-02	-8.986e-02	6.263e-02	4862	0.6910
GEOLOGY CS vs. AG	7.998e-01	-1.535e+00	3.493e+00	5603	0.4940
TIME X TREATMENT	-3.364e-01	-5.621e-01	-9.509e-02	9038	0.0044 **

Model 22b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	5.537	0.3128	15.57	631.4
YEAR	0.03897	4.92e-17	0.2305	466.6

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	1.576	1.112	2.064	2822

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	-0.853143	-18.702272	13.926707	839.0	0.9594
DAY	0.015306	0.008208	0.021931	6031.0	<1e-04 ***
TIME	0.555110	0.374872	0.729746	8457.6	<1e-04 ***
TREATMENT					
ESTIMATES AT YEAR 0					
FL vs. DJO	1.927970	-3.804965	8.119895	10000	0.4320
FL vs. DRE	3.548769	-2.811719	10.040073	1976	0.2022
FL vs. LEY	1.041540	-4.730312	7.278914	8496	0.6642
FL vs. NER	-0.942937	-6.602423	5.097368	9197	0.6808
ESTIMATES AT YEAR 5					
FL vs. DJO	0.907008	-4.934957	6.439768	10000.0	0.7056
FL vs. DRE	0.669988	-5.679019	6.911206	1662.8	0.8550
FL vs. LEY	-0.691668	-6.684735	5.016643	10000.0	0.7910
FL vs. NER	-1.689498	-7.628913	3.662716	10062.9	0.4806
ALTITUDE	0.001103	-0.004878	0.007602	907.7	0.7332
DEPTH	-0.010456	-0.111036	0.092266	4372.3	0.8104
GEOLOGY CS vs. AG	1.319570	-2.248416	5.213102	4304.0	0.4224
TIME X TREATMENT					
TIME : DJO	-0.203672	-0.579521	0.181936	10000.0	0.2842
TIME : DRE	-0.546958	-0.884232	-0.194136	8158.4	0.0010 ***
TIME : LEY	-0.354700	-0.703257	-0.009765	9301.2	0.0422 *
TIME : NER	-0.163156	-0.556242	0.220505	6646.6	0.4130

MODELS 23a and 23b - MACROINVERTEBRATES - Burrowers - lumbriculidae

Model 23a:

G-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
LAKE	10	1.278	25.54	404.2
YEAR	0.03532	3.324e-17	0.2162	643.8

R-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
units	2.651	1.853	3.537	2785

	post.mean	1-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	-5.741569	-26.305907	13.979445	903.8	0.5790	
DAY	0.016906	0.007371	0.026184	5795.4	0.0006	***
TIME	0.276906	0.043348	0.496625	8672.0	0.0192	*
TREATMENT FL vs. FR						
ESTIMATES AT YEAR 0						
ESTIMATES AT YEAR 5	2.166182	-2.335237	6.991555	1781.3	0.3194	
ALTITUDE	0.001742	-0.005896	0.010183	967.3	0.6700	
DEPTH	-0.042791	-0.174320	0.090472	2732.7	0.4690	
GEOLOGY CS vs. AG	-0.361723	-4.856725	4.382129	2400.8	0.8626	
TIME X TREATMENT	-0.271955	-0.609628	0.031987	6745.5	0.0924	.

Model 23b:

G-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
LAKE	17.67	0.5165	58.37	50.1
YEAR	0.09723	4.15e-17	0.5191	536.5

R-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
units	2.517	1.72	3.404	2355

	post.mean	1-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	-14.721242	-51.126886	14.509111	85.41	0.2958	
DAY	0.017664	0.008198	0.027143	4331.30	0.0004	***
TIME	0.276562	0.045429	0.532222	8572.08	0.0312	*
TREATMENT						
ESTIMATES AT YEAR 0						
FL vs. DJO	4.006677	-5.624141	14.595738	1263.8	0.3220	
FL vs. DRE	6.101636	-4.104557	19.069946	262.3	0.1918	
FL vs. LEY	1.199924	-8.901113	11.671977	4290.1	0.7784	
FL vs. NER	-0.511310	-10.821285	9.010626	1968.1	0.8326	
ESTIMATES AT YEAR 5						
FL vs. DJO	4.667807	-5.299486	16.022112	652.48	0.2658	
FL vs. DRE	5.363981	-4.799527	18.222317	221.30	0.2606	
FL vs. LEY	-1.698418	-13.002137	8.437312	1689.74	0.6230	
FL vs. NER	-8.307420	-20.375337	3.399562	313.97	0.1302	
ALTITUDE	0.005424	-0.006582	0.018759	90.50	0.3108	
DEPTH	-0.032808	-0.211157	0.154673	1083.34	0.6368	
GEOLOGY CS vs. AG	0.422193	-6.792157	6.929464	666.25	0.8346	
TIME X TREATMENT						
TIME : DJO	0.118742	-0.369864	0.591476	10000.00	0.6170	
TIME : DRE	-0.117967	-0.544830	0.348493	8963.74	0.6070	
TIME : LEY	-0.605245	-1.143712	-0.104520	4300.63	0.0224	*
TIME : NER	-1.576228	-2.954359	-0.331044	159.60	0.0030	**

MODELS 24a and 24 b - MACROINVERTEBRATES - Burrowers - Tubificidae

Model 24a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	1.988	1.23e-16	6.367	845.1
YEAR	0.3502	4.025e-17	1.757	303.5

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	5.569	3.535	7.671	1508

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	3.106e-01	-1.195e+01	1.197e+01	3828	0.9540
DAY	2.660e-03	-1.151e-02	1.615e-02	3635	0.7096
TIME	9.131e-01	5.291e-01	1.327e+00	4550	0.0004 ***
TREATMENT FL vs. FR					
ESTIMATES AT YEAR 0	1.833e+00	-5.229e-01	4.397e+00	7137	0.1226
ESTIMATES AT YEAR 5	-1.931709	-4.648858	0.933137	8297	0.1580
ALTITUDE	-9.618e-04	-5.822e-03	3.904e-03	3832	0.6640
DEPTH	2.295e-02	-6.773e-02	1.041e-01	1477	0.5266
GEOLOGY CS vs. AG	3.314e-01	-2.125e+00	2.832e+00	5471	0.8026
TIME X TREATMENT	-7.540e-01	-1.218e+00	-2.983e-01	5919	0.0018 **

Model 24b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.3696	7.547e-17	1.921	793
YEAR	0.3778	4.123e-17	1.813	820.3

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	5.675	3.665	7.826	1657

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	10.608373	-2.417744	22.591464	3633	0.0936 .
DAY	0.002605	-0.010796	0.016714	3270	0.7124
TIME	0.921673	0.519239	1.325638	4095	0.0006 ***
TREATMENT					
ESTIMATES AT YEAR 0					
FL vs. DJO	1.921243	-0.967461	4.560567	7545	0.1522
FL vs. DRE	0.900612	-2.403239	4.271161	3981	0.5886
FL vs. LEY	3.468133	0.949957	5.812484	7879	0.0180 *
FL vs. NER	-0.788626	-3.607322	2.032209	5486	0.5602
ESTIMATES AT YEAR 5					
FL vs. DJO	-2.381900	-5.888580	0.771420	8034	0.1424
FL vs. DRE	-5.370767	-9.329838	-1.602884	3518	0.0186 *
FL vs. LEY	1.000249	-1.833561	4.219606	7341	0.4886
FL vs. NER	-2.439108	-5.701409	0.825409	6592	0.1270
ALTITUDE	-0.002816	-0.007598	0.001857	3996	0.2390
DEPTH	0.001788	-0.065198	0.064071	3170	0.9224
GEOLOGY CS vs. AG	-0.404970	-2.074687	1.221587	3711	0.5780
TIME X TREATMENT					
TIME : DJO	-0.859010	-1.642850	-0.097289	7493	0.0294 *
TIME : DRE	-1.250252	-1.963301	-0.553860	8080	0.0006 ***
TIME : LEY	-0.500914	-1.169273	0.153492	7953	0.1368
TIME : NER	-0.330785	-1.111759	0.510144	5300	0.4120

MODELS 25a and 25 b - MACROINVERTEBRATES - Burrowers - Haplotaxidae

Model 25a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	5.979	1.542e-16	21.85	172.9
YEAR	32.51	0.9783	115.7	68.02

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	3.689	1.55	6.365	931.4

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	-13.079272	-39.364966	10.603194	380.5	0.235
DAY	0.010313	-0.006005	0.027204	6132.5	0.216
TIME	0.177779	-2.231927	2.594634	608.2	0.810
TREATMENT FL vs. FR					
ESTIMATES AT YEAR 0	1.419352	-3.246346	6.825763	428.1	0.564
ESTIMATES AT YEAR 5	4.078291	-0.807604	9.722150	711.4	0.067
ALTITUDE	0.003389	-0.006464	0.013109	366.2	0.441
DEPTH	-0.113389	-0.386807	0.104310	146.8	0.278
GEOLOGY CS vs. AG	-2.714426	-7.343959	1.740938	473.4	0.149
TIME X TREATMENT	0.518584	-0.243749	1.331310	2706.7	0.174

Model 25b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	107.5	1.997e-16	505.1	29.74
YEAR	38.4	0.892	126.8	141.7

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	4.423	1.784	7.621	1277

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	-3.543e-01	-1.316e+02	1.271e+02	73.845	0.992
DAY	1.090e-02	-7.712e-03	2.922e-02	6259.120	0.236
TIME	2.535e-01	-2.358e+00	2.715e+00	963.126	0.802
TREATMENT					
ESTIMATES AT YEAR 0					
FL vs. DJO	8.465e+00	-8.101e+01	1.144e+02	152.314	0.940
FL vs. DRE	3.502e+01	-7.759e+01	2.053e+02	7.725	0.784
FL vs. LEY	4.537e+01	-4.497e+01	1.544e+02	79.647	0.207
FL vs. NER	9.729e+00	-8.001e+01	1.031e+02	1491.196	0.703
ESTIMATES AT YEAR 5					
FL vs. DJO	3.035e+00	-2.349e+01	3.274e+01	517.333	0.745
FL vs. DRE	2.080e+00	-3.203e+01	4.326e+01	105.975	0.844
FL vs. LEY	1.769e+01	-1.140e+01	7.520e+01	10.394	0.180
FL vs. NER	8.637e+00	-1.554e+01	3.772e+01	471.239	0.266
ALTITUDE	9.403e-04	-4.191e-02	4.843e-02	92.180	0.978
DEPTH	-7.777e-01	-3.567e+00	2.655e-01	5.006	0.174
GEOLOGY CS vs. AG	-7.107e+00	-3.083e+01	1.186e+01	70.120	0.256
TIME X TREATMENT					
TIME : DJO	5.073e-01	-1.237e+00	2.435e+00	1822.709	0.577
TIME : DRE	6.906e-01	-5.722e-01	2.019e+00	2105.925	0.275
TIME : LEY	3.483e-01	-1.157e+00	1.802e+00	2458.877	0.648
TIME : NER	6.706e-01	-5.117e-01	1.884e+00	4387.094	0.256

ZOOPLANKTON

MODELS 26a and 26 b - ZOOPLANKTON - Large - All taxa

Model 26a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.3769	0.06958	0.8129	10000
YEAR	0.1237	6.06e-17	0.3703	479.9

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	1.458	1.202	1.721	941

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	9.9115717	5.3980939	14.2016774	10638	<1e-04	***
DAY	0.0188629	0.0140880	0.0234236	5293	<1e-04	***
TIME	-0.1294800	-0.2955153	0.0395164	10000	0.122	
TREATMENT FL vs. FR						
ESTIMATES AT YEAR 0	-0.7250137	-1.7136936	0.2553186	10000	0.142	
ESTIMATES AT YEAR 5	-0.3585938	-1.4835053	0.7694663	10000	0.5194	
ALTITUDE	-0.0007711	-0.0024510	0.0010523	10548	0.380	
DEPTH	-0.0039460	-0.0336967	0.0239371	10000	0.786	
GEOLOGY CS vs. AG	0.6476389	-0.3849882	1.5792819	10039	0.178	
TIME X TREATMENT	0.0726928	-0.0939344	0.2376768	10000	0.401	

Model 26b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.08077	7.693e-17	0.3916	175.2
YEAR	0.1074	2.197e-17	0.3435	309

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	1.464	1.211	1.742	603.4

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	10.6223026	6.0137954	15.1964283	728.4	0.0006	***
DAY	0.0185377	0.0137636	0.0232716	3390.7	<1e-04	***
TIME	-0.1274973	-0.2951075	0.0367316	10000.0	0.1174	
TREATMENT						
ESTIMATES AT YEAR 0						
FL vs. DJO	-0.5841978	-1.6278813	0.4054612	7040	0.2112	
FL vs. DRE	-1.5461211	-2.7288485	-0.1655680	1022	0.0404	*
FL vs. LEY	0.1503773	-0.8357622	1.1402213	10000	0.6922	
FL vs. NER	-1.5562432	-2.5173415	-0.5741162	8993	0.0090	**
ESTIMATES AT YEAR 5						
FL vs. DJO	-0.3630086	-1.6789585	0.9039388	6862.3	0.5508	
FL vs. DRE	0.1306809	-1.3290576	1.6768254	1036.8	0.8832	
FL vs. LEY	0.2122385	-1.0423868	1.5181764	10000.0	0.7402	
FL vs. NER	-2.2501358	-3.5361931	-1.0619899	10000.0	0.0028	**
ALTITUDE	-0.0011597	-0.0028139	0.0006032	996.7	0.1858	
DEPTH	-0.0145817	-0.0363591	0.0088201	5770.0	0.1982	
GEOLOGY CS vs. AG	0.5183372	-0.1836085	1.1769789	10000.0	0.1080	
TIME X TREATMENT						
TIME : DJO	0.0417988	-0.2205786	0.2993569	10087.9	0.7492	
TIME : DRE	0.3370475	0.0884135	0.5910553	10000.0	0.0078	**
TIME : LEY	0.0111713	-0.2436603	0.2584623	10000.0	0.9194	
TIME : NER	-0.1387490	-0.4092157	0.1210222	10000.0	0.3132	

MODELS 27a and 27b - ZOOPLANKTON - Large - Large copepods

Model 27a:

G-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
LAKE	0.2949	3.385e-07	0.7053	8612
YEAR	0.008919	3.137e-17	0.0568	719.5

R-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
units	2.026	1.703	2.381	10000

	post.mean	1-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	7.6790894	3.1610832	12.3281366	10000	0.0022	**
DAY	0.0078365	0.0022276	0.0130806	9647	0.0056	**
TIME	-0.2025769	-0.3442791	-0.0474959	10000	0.0086	**
TREATMENT FL vs. FR						
ESTIMATES AT YEAR 0	-0.1835553	-1.1159263	0.7973383	10452	0.7000	
ESTIMATES AT YEAR 5	0.3225280	-0.8592897	1.4660749	10000	0.5768	
ALTITUDE	-0.0001295	-0.0019556	0.0016859	10000	0.8870	
DEPTH	0.0006980	-0.0300273	0.0288123	10000	0.9426	
GEOLOGY CS vs. AG	0.2051903	-0.7835176	1.1437820	10000	0.6622	
TIME X TREATMENT	0.1021084	-0.0874367	0.3036313	9699	0.3092	

Model 27b:

G-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
LAKE	0.01132	5.65e-17	0.06043	780.3
YEAR	0.005495	4.202e-17	0.03058	569.1

R-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
units	1.999	1.682	2.343	10000

	post.mean	1-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	10.9609976	6.5161631	15.5403524	8039	<1e-04	***
DAY	0.0074556	0.0022575	0.0128332	10000	0.0058	**
TIME	-0.1994730	-0.3494681	-0.0543195	9356	0.0110	*
TREATMENT						
ESTIMATES AT YEAR 0						
FL vs. DJO	0.3104705	-0.5885236	1.2207594	9406	0.4970	
FL vs. DRE	-1.5510871	-2.7749070	-0.4112754	10000	0.0146	*
FL vs. LEY	1.0087907	0.1663517	1.8025780	10000	0.0186	*
FL vs. NER	-0.7434761	-1.6070244	0.0658862	10000	0.0810	.
ESTIMATES AT YEAR 5						
FL vs. DJO	0.4248098	-0.8593923	1.7342729	10000	0.5200	
FL vs. DRE	0.4441489	-1.0385207	1.8774724	9588	0.5646	
FL vs. LEY	0.9572465	-0.3684729	2.2389178	10000	0.1408	
FL vs. NER	-0.9909881	-2.2315255	0.2803440	10000	0.1256	
ALTITUDE	-0.0008577	-0.0026392	0.0008054	8212	0.3314	
DEPTH	-0.0116407	-0.0337922	0.0115715	10000	0.3124	
GEOLOGY CS vs. AG	-0.1334231	-0.7341763	0.4441318	10000	0.6526	
TIME X TREATMENT						
TIME : DJO	0.0233267	-0.2898165	0.3171753	9726	0.8784	
TIME : DRE	0.4069189	0.1056772	0.6854178	10100	0.0080	**
TIME : LEY	-0.0112198	-0.3079443	0.2883070	10000	0.9494	
TIME : NER	-0.0479810	-0.3603839	0.2595466	10000	0.7600	

MODELS 28a and 28b - ZOOPLANKTON - Large - Cyclops gr. abyssorum

Model 28a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	6.475	1.977	12.66	10000
YEAR	0.05985	4.119e-17	0.3197	368.5

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	3.328	2.776	3.917	4780

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	19.0941979	6.3720244	31.3498114	8772	0.0064 **
DAY	0.0093545	0.0025409	0.0163096	10000	0.0096 **
TIME	-0.1712034	-0.3761441	0.0364363	8979	0.1034
TREATMENT FL vs. FR					
ESTIMATES AT YEAR 0					
ESTIMATES AT YEAR 5	-3.8053228	-7.2418638	-0.2886866	10000	0.0342 *
ALTITUDE	-0.0045700	-0.0094712	0.0003446	8614	0.0668 .
DEPTH	-0.0208947	-0.1154811	0.0670871	10540	0.6414
GEOLOGY CS vs. AG	0.6073261	-2.7589749	3.8745427	10000	0.7100
TIME X TREATMENT	0.3145268	0.0705005	0.5739208	10000	0.0156 *

Model 28b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.3611	9.209e-17	2.249	288.2
YEAR	0.01768	4.976e-17	0.1176	540.8

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	3.475	2.905	4.104	3434

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	20.289543	13.418349	27.282707	5103	<1e-04 ***
DAY	0.008774	0.002117	0.016105	10000	0.0154 *
TIME	-0.158537	-0.354647	0.035337	9762	0.1090
TREATMENT FL vs. FR					
ESTIMATES AT YEAR 0					
FL vs. DJO	-9.259928	-11.019284	-7.366981	8621	0.0006 ***
FL vs. DRE	-2.561278	-4.689114	-0.439384	4965	0.0442 *
FL vs. LEY	0.238913	-1.532933	2.070259	10356	0.7112
FL vs. NER	-6.629487	-8.331579	-4.842875	10468	0.0004 ***
ESTIMATES AT YEAR 5					
FL vs. DJO	-6.530927	-8.5516324	-4.580309	9584	0.0004 ***
FL vs. DRE	-0.774264	-3.0000033	1.559856	3620	0.4518
FL vs. LEY	-0.091860	-2.1291488	1.989427	10000	0.9382
FL vs. NER	-4.581454	-6.5951832	-2.618149	10000	0.0016 **
ALTITUDE	-0.004811	-0.007366	-0.002071	6868	0.0022 **
DEPTH	-0.035575	-0.071893	0.001917	9326	0.0542 .
GEOLOGY CS vs. AG	0.982049	-0.128040	2.287384	6423	0.0648 .
TIME X TREATMENT					
TIME : DJO	0.547015	0.153277	0.954624	10000	0.0084 **
TIME : DRE	0.363839	-0.011068	0.749388	10000	0.0616 .
TIME : LEY	-0.064724	-0.456208	0.305008	10000	0.7464
TIME : NER	0.409323	0.002056	0.823393	10000	0.0520 .

MODELS 29a and 29b - ZOOPLANKTON - Large - Arctodiptomus alpinus

Model 29a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	4.848	1.215	10.35	10000
YEAR	0.002736	3.188e-17	0.01005	1302

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	3.869	3.227	4.531	10000

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	-16.629990	-28.047309	-5.468054	10000	0.0074	**
DAY	0.003165	-0.004319	0.010628	10290	0.4064	
TIME	-0.406681	-0.616765	-0.201349	10000	0.0004	***
TREATMENT FL vs. FR						
ESTIMATES AT YEAR 0	1.239665	-1.747322	4.410523	10277	0.3940	
ESTIMATES AT YEAR 5	2.170580	-1.057535	5.493365	10000	0.1702	
ALTITUDE	0.008809	0.004579	0.013414	10000	0.0008	***
DEPTH	0.002115	-0.080850	0.084559	10000	0.9592	
GEOLOGY CS vs. AG	0.023928	-2.957081	2.942154	10354	0.9676	
TIME X TREATMENT	0.182318	-0.106471	0.452805	10000	0.1944	

Model 29b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	3.635	9.883e-17	10.22	300.8
YEAR	0.003128	4.734e-17	0.009276	1270

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	3.994	3.284	4.747	461.2

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	-14.925520	-27.489958	-3.415010	2018	0.0148	*
DAY	0.003104	-0.004479	0.010355	10000	0.4136	
TIME	-0.396737	-0.605805	-0.189326	10000	0.0002	***
TREATMENT						
ESTIMATES AT YEAR 0						
FL vs. DJO	4.276477	-0.547201	9.373584	10000	0.0772	.
FL vs. DRE	-1.791937	-6.925976	3.633727	10000	0.4278	
FL vs. LEY	2.201516	-2.708659	7.316901	10410	0.3040	
FL vs. NER	1.791633	-3.035797	6.796155	10000	0.3794	
ESTIMATES AT YEAR 5						
FL vs. DJO	5.358468	0.683252	10.685801	9555	0.0348	*
FL vs. DRE	-1.246810	-6.273364	4.068992	3935	0.5432	
FL vs. LEY	3.271680	-1.413618	8.791648	9490	0.1442	
FL vs. NER	2.341266	-2.564946	7.484786	9607	0.2576	
ALTITUDE	0.007580	0.002976	0.012035	2329	0.0024	**
DEPTH	-0.004427	-0.091406	0.073871	10000	0.9166	
GEOLOGY CS vs. AG	-1.108560	-4.296870	1.889492	9709	0.3680	
TIME X TREATMENT						
TIME : DJO	0.222688	-0.206293	0.680382	10000	0.3126	
TIME : DRE	0.135066	-0.277381	0.544599	9578	0.5202	
TIME : LEY	0.221834	-0.187970	0.632915	10000	0.2748	
TIME : NER	0.113029	-0.331536	0.538193	10000	0.6122	

MODELS 30a and 30 b - ZOOPLANKTON - Large - Large cladocera

Model 30a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	1.969	1.324e-08	4.991	7457
YEAR	0.4045	4.688e-17	1.256	289.8

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	6.521	5.446	7.778	1312

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	12.8422562	2.5019974	22.1454825	9550	0.0172	*
DAY	0.0627296	0.0529408	0.0727867	2813	<1e-04	***
TIME	-0.1324180	-0.4702703	0.2115912	9436	0.4380	
TREATMENT FL vs. FR						
ESTIMATES AT YEAR 0	-5.6502340	-7.8096543	-3.3268356	10077	0.0006	***
ESTIMATES AT YEAR 5	-1.0387578	-3.6263109	1.4593924	8964	0.3966	
ALTITUDE	-0.0044610	-0.0081215	-0.0003637	9572	0.0332	*
DEPTH	0.0100232	-0.0536979	0.0762181	10000	0.7578	
GEOLOGY CS vs. AG	1.9208010	-0.1931483	4.1786509	10943	0.0762	.
TIME X TREATMENT	0.9130783	0.5622216	1.2728310	10000	<1e-04	***

Model 30b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.4159	9.406e-17	2.375	642
YEAR	0.361	7.111e-17	1.178	321.7

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	6.344	5.26	7.554	829.9

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	1.022e+01	1.088e+00	1.923e+01	2936	0.0376	*
DAY	6.250e-02	5.218e-02	7.217e-02	1534	<1e-04	***
TIME	-1.338e-01	-4.659e-01	1.856e-01	9276	0.4080	
TREATMENT						
ESTIMATES AT YEAR 0						
FL vs. DJO	-6.492e+00	-8.427e+00	-4.365e+00	9647	0.0012	**
FL vs. DRE	-4.392e+00	-6.981e+00	-1.872e+00	2452	0.0128	*
FL vs. LEY	-5.953e+00	-7.834e+00	-4.052e+00	9515	0.0006	***
FL vs. NER	-6.940e+00	-8.798e+00	-5.087e+00	9230	0.0010	***
ESTIMATES AT YEAR 0						
FL vs. DJO	-4.877e-01	-3.233e+00	2.187e+00	9637	0.6918	
FL vs. DRE	3.925e-01	-2.735e+00	3.511e+00	2814	0.8316	
FL vs. LEY	9.016e-01	-1.930e+00	3.533e+00	10000	0.4886	
FL vs. NER	-6.612e+00	-9.213e+00	-3.887e+00	10000	0.0008	***
ALTITUDE	-3.546e-03	-6.809e-03	-6.795e-06	3208	0.0460	*
DEPTH	-6.394e-03	-5.640e-02	4.151e-02	2412	0.7396	
GEOLOGY CS vs. AG	2.144e+00	7.222e-01	3.686e+00	3649	0.0080	**
TIME X TREATMENT						
TIME : DJO	1.199e+00	6.620e-01	1.763e+00	10000	<1e-04	***
TIME : DRE	9.496e-01	4.353e-01	1.457e+00	9085	<1e-04	***
TIME : LEY	1.371e+00	8.362e-01	1.888e+00	10000	<1e-04	***
TIME : NER	5.861e-02	-5.159e-01	5.922e-01	10000	0.8208	

MODELS 31a and 31b - ZOOPLANKTON - Large - Daphnia gr. longispina

Model 31a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	4.846	1.147	10.32	10000
YEAR	0.2256	1.811e-17	0.9666	152.4

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	6.737	5.634	7.973	1133

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	13.9883274	1.4700422	26.8328890	8876	0.0380	*
DAY	0.0584270	0.0479763	0.0682618	2277	<1e-04	***
TIME	-0.1643375	-0.4855515	0.1393834	10000	0.2958	
TREATMENT FL vs. FR						
ESTIMATES AT YEAR 0						
FL vs. DJO	-5.3495663	-8.5091954	-2.1481850	10665	0.0038	**
ESTIMATES AT YEAR 5						
FL vs. DJO	-0.5585440	-3.9215586	2.9752489	10000	0.7264	
ALTITUDE	-0.0053279	-0.0103426	-0.0003707	8571	0.0410	*
DEPTH	0.0372766	-0.0518772	0.1232525	10000	0.3750	
GEOLOGY CS vs. AG	2.8523181	-0.3160312	5.9121797	10751	0.0740	.
TIME X TREATMENT	0.9544294	0.5844087	1.3071351	10000	<1e-04	***

Model 31b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	6.008	0.8767	13.45	9539
YEAR	0.3209	8.997e-17	1.07	381.7

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	6.33	5.194	7.442	1735

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC	
Intercept	9.278370	-6.021295	24.321478	10000	0.2128	
DAY	0.059466	0.049811	0.069637	2240	<1e-04	***
TIME	-0.177162	-0.493719	0.149813	10453	0.2634	
TREATMENT FL vs. FR						
ESTIMATES AT YEAR 0						
FL vs. DJO	-6.147701	-12.091964	-0.033007	10000	0.0468	*
FL vs. DRE	-2.823483	-9.040611	3.514909	10000	0.3356	
FL vs. LEY	-6.437915	-12.673069	-0.682486	10000	0.0406	*
FL vs. NER	-6.629563	-12.734436	-0.797296	10000	0.0344	*
ESTIMATES AT YEAR 5						
FL vs. DJO	0.119076	-5.814385	6.489711	10000	0.9798	
FL vs. DRE	2.107586	-3.795747	8.914238	9743	0.4746	
FL vs. LEY	0.586061	-5.872851	6.798915	10000	0.8400	
FL vs. NER	-6.060972	-12.332324	0.200576	10000	0.0590	.
ALTITUDE	-0.003998	-0.009603	0.002034	9387	0.1636	
DEPTH	0.042218	-0.060780	0.139909	9182	0.3744	
GEOLOGY CS vs. AG	3.694070	-0.137821	7.619839	10000	0.0616	.
TIME X TREATMENT						
TIME : DJO	1.246640	0.708525	1.800834	11403	0.0002	***
TIME : DRE	0.991606	0.493553	1.522120	10000	0.0002	***
TIME : LEY	1.419003	0.880900	1.933349	10000	<1e-04	***
TIME : NER	0.110250	-0.444966	0.672514	10000	0.6996	

MODELS 32a and 32b - ZOOPLANKTON - Small - All taxa

Model 32a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	1.485	0.3548	3.12	10709
YEAR	0.3693	0.02167	0.8706	10000

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	2.425	2.041	2.868	10000

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	6.565958	-0.397895	13.782696	10000	0.0630 .
DAY	0.005002	-0.001121	0.010886	9555	0.1012
TIME	-0.217051	-0.466073	0.043108	10000	0.0844 .
TREATMENT FL vs. FR					
ESTIMATES AT YEAR 0	0.648323	-1.187704	2.394055	10000	0.4486
ESTIMATES AT YEAR 5	-0.045235	-1.976670	1.888110	9416	0.9704
ALTITUDE	-0.001300	-0.004228	0.001369	10000	0.3536
DEPTH	0.007104	-0.044401	0.056833	10000	0.7840
GEOLOGY CS vs. AG	1.659943	-0.121034	3.345931	10000	0.0588 .
TIME X TREATMENT	-0.137293	-0.357318	0.078162	10000	0.2176

Model 32b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.4503	5.813e-17	1.598	423.1
YEAR	0.3573	0.01917	0.858	9599

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	2.471	2.041	2.917	1794

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	7.0618502	0.1462588	13.7039985	758.1	0.0494 *
DAY	0.0048759	-0.0010389	0.0110028	10000.0	0.1082
TIME	-0.2189334	-0.4706986	0.0294897	10000.0	0.0832 .
TREATMENT					
ESTIMATES AT YEAR 0					
FL vs. DJO	2.4344774	0.5219719	4.3932017	9719	0.0234 *
FL vs. DRE	-0.3651696	-2.4986327	1.9505426	1851	0.6610
FL vs. LEY	1.8190188	-0.2178320	3.7611723	10000	0.0784 .
FL vs. NER	-0.9470253	-2.7653640	1.0417002	10000	0.2440
ESTIMATES AT YEAR 5					
FL vs. DJO	2.6660346	0.5640848	4.9224596	9021.8	0.0208 *
FL vs. DRE	-1.5146677	-3.7792094	1.0774011	946.1	0.2170
FL vs. LEY	0.1762235	-2.0414296	2.3877810	10000.0	0.8412
FL vs. NER	-0.9466945	-3.0194431	1.3032974	10000.0	0.3400
ALTITUDE	-0.0017094	-0.0041322	0.0009215	1037.0	0.1872
DEPTH	-0.0063139	-0.0451734	0.0322135	1793.8	0.6590
GEOLOGY CS vs. AG	0.9580030	-0.2920106	2.4092353	2347.0	0.1026
TIME X TREATMENT					
TIME : DJO	0.0508589	-0.2978763	0.3879136	10000.0	0.7680
TIME : DRE	-0.2250685	-0.5451170	0.1038817	10000.0	0.1766
TIME : LEY	-0.3302991	-0.6617305	0.0031521	9488.9	0.0496 *
TIME : NER	0.0043820	-0.3411821	0.3571852	10000.0	0.9838

MODELS 33a and 33b - ZOOPLANKTON - Small - Small crustaceans

Model 33a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	19932	4265	42499	10000
YEAR	91.47	3.91e-17	291.1	822.2

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	79384	66576	93136	10000

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	245.98538	-773.04946	1280.08154	10399	0.611
DAY	0.30683	-0.72438	1.40037	10434	0.565
TIME	-8.18316	-37.19721	21.12240	10004	0.592
TREATMENT FL vs. FR					
ESTIMATES AT YEAR 0	151.43346	-69.99774	384.29626	10000	0.179
ESTIMATES AT YEAR 5	46.49714	-222.37955	297.24000	10000	0.723
ALTITUDE	-0.07827	-0.48240	0.33277	10000	0.680
DEPTH	-2.11947	-8.88980	4.53109	10000	0.529
GEOLOGY CS vs. AG	21.56094	-217.03400	240.71503	10000	0.840
TIME X TREATMENT	-20.42697	-58.71922	19.84624	9949	0.311

Model 33b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	54.36	5.826e-17	73.87	600.7
YEAR	146.7	4.941e-17	716.2	562.4

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	77416	64811	90783	9700

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	49.22207	-812.52032	950.98328	10000	0.9172
DAY	0.32786	-0.71646	1.35618	10000	0.5432
TIME	-6.70929	-35.30862	22.45215	10000	0.6442
TREATMENT FL vs. FR					
ESTIMATES AT YEAR 0					
FL vs. DJO	542.09646	374.33060	712.27913	9487	<1e-04 ***
FL vs. DRE	213.90004	-6.07244	443.03434	10000	0.0618 .
FL vs. LEY	-27.83760	-177.35971	132.85451	9994	0.7238
FL vs. NER	-24.95847	-182.12011	141.04009	10000	0.7584
ESTIMATES AT YEAR 5					
FL vs. DJO	359.98505	107.37496	608.37117	10000	0.0054 **
FL vs. DRE	-91.16546	-370.77391	186.82559	10051	0.5274
FL vs. LEY	1.52863	-254.25300	250.72023	9570	0.9976
FL vs. NER	-0.85627	-245.32984	241.64934	10000	0.9956
ALTITUDE	-0.02344	-0.36102	0.30782	10000	0.8906
DEPTH	-0.63830	-4.93704	3.70343	9641	0.7778
GEOLOGY CS vs. AG	5.56394	-105.15613	119.69527	10000	0.9216
TIME X TREATMENT					
TIME : DJO	-36.31063	-96.44289	24.09968	10000	0.2374
TIME : DRE	-60.78078	-117.93604	-3.81401	10000	0.0386 *
TIME : LEY	5.76950	-52.19814	64.65395	9674	0.8476
TIME : NER	4.79925	-55.04031	66.91527	10000	0.8788

MODELS 34a and 34b - ZOOPLANKTON - Small - *Eucyclops serrulatus*

Model 34a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.0586	5.504e-17	0.3679	151.5
YEAR	0.003138	4.68e-17	0.01319	1169

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	2.968	2.481	3.475	2843

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	2.4491620	-1.8445528	6.6991603	547.9	0.2350
DAY	0.0016942	-0.0051729	0.0077176	9643.6	0.6004
TIME	-0.1449841	-0.3257794	0.0272096	10000.0	0.1058
TREATMENT FL vs. FR					
ESTIMATES AT YEAR 0	0.6229082	-0.1094074	1.4167205	1507.4	0.0872
ESTIMATES AT YEAR 5	0.6344913	-0.5358791	1.8546571	4140.7	0.288
ALTITUDE	-0.0004727	-0.0021525	0.0012509	670.1	0.5370
DEPTH	-0.0237002	-0.0497898	0.0020128	3105.7	0.0778
GEOLOGY CS vs. AG	-0.2156496	-0.9928814	0.5470010	4863.5	0.5776
TIME X TREATMENT	-0.0069424	-0.2446512	0.2384039	10000.0	0.9584

Model 34b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.007159	6.067e-17	0.02004	2176
YEAR	0.00304	5.007e-17	0.009812	1239

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	2.425	2.032	2.849	10464

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	-2.6532726	-7.3277649	2.5501676	10000	0.289
DAY	0.0012202	-0.0045735	0.0071625	9172	0.682
TIME	-0.1342012	-0.2965719	0.0230634	10000	0.101
TREATMENT					
ESTIMATES AT YEAR 0					
FL vs. DJO	0.6293605	-0.2817607	1.6021259	10341	0.1942
FL vs. DRE	2.9706265	1.6718962	4.1966134	10000	0.0002 ***
FL vs. LEY	0.1624901	-0.7066464	1.0315591	10000	0.7114
FL vs. NER	-0.1750268	-1.0170584	0.7407431	9698	0.7000
ESTIMATES AT YEAR 5					
FL vs. DJO	4.1855384	2.7465213	5.5619970	9527	<1e-04 ***
FL vs. DRE	-0.8978109	-2.5456195	0.6572567	10000	0.273
FL vs. LEY	0.0781817	-1.2973847	1.5743588	10000	0.915
FL vs. NER	0.4383213	-0.8986782	1.8362662	10000	0.537
ALTITUDE	0.0011733	-0.0008053	0.0029650	10000	0.224
DEPTH	-0.0141525	-0.0375800	0.0105452	10297	0.259
GEOLOGY CS vs. AG	-0.2855324	-0.9072243	0.3828380	9560	0.377
TIME X TREATMENT					
TIME : DJO	0.7104080	0.3756815	1.0524361	9651	<1e-04 ***
TIME : DRE	-0.7723057	-1.1063324	-0.4594325	10000	<1e-04 ***
TIME : LEY	-0.0189342	-0.3227647	0.3196877	10000	0.898
TIME : NER	0.1216012	-0.2231213	0.4528833	10000	0.483

MODEL 35a and 35b - ZOOPLANKTON - Small - Small cladocerans

Model 35a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.9995	0.2404	2.054	10000
YEAR	0.03815	2.726e-17	0.2025	484.3

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	2.473	2.079	2.908	6659

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	2.203853	-4.199598	8.663333	10000	0.4944
DAY	0.010997	0.004812	0.016695	10000	0.0004 ***
TIME	-0.123347	-0.299092	0.050621	10000	0.1620
TREATMENT FL vs. FR					
ESTIMATES AT YEAR 0	1.142338	-0.426863	2.626797	9334	0.1278
ESTIMATES AT YEAR 5	0.042966	-1.603949	1.747651	10000	0.9624
ALTITUDE	-0.000747	-0.003406	0.001730	10000	0.5546
DEPTH	-0.026703	-0.072311	0.015777	10000	0.2198
GEOLOGY CS vs. AG	0.575542	-0.943942	2.011468	10000	0.4332
TIME X TREATMENT	-0.218450	-0.435025	0.001174	10000	0.0482 *

Model 35b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.002406	7.243e-17	0.005568	862.3
YEAR	0.04382	4.549e-17	0.2259	291

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	2.294	1.924	2.694	3822

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	-0.2094063	-4.9854513	4.5495256	10000	0.9398
DAY	0.0112441	0.0053765	0.0168479	8647	0.0006 ***
TIME	-0.1211187	-0.2935332	0.0455681	10000	0.1532
TREATMENT					
ESTIMATES AT YEAR 0					
FL vs. DJO	4.0765502	3.1478875	5.0289966	10000	<1e-04 ***
FL vs. DRE	1.9635439	0.7183193	3.1439672	10324	0.0018 **
FL vs. LEY	-1.1020267	-1.9779768	-0.2661694	6726	0.0134 *
FL vs. NER	-0.3025495	-1.1717735	0.5469399	10000	0.4938
ESTIMATES AT YEAR 5					
FL vs. DJO	0.3372637	-0.9935283	1.7380183	9583	0.6288
FL vs. DRE	0.8381322	-0.7465856	2.3771495	10000	0.2872
FL vs. LEY	-0.4952496	-1.9125404	0.8282316	10000	0.4858
FL vs. NER	-0.7307858	-2.0821058	0.6220987	10000	0.2888
ALTITUDE	-0.0002383	-0.0020155	0.0015955	10000	0.7948
DEPTH	-0.0095288	-0.0345203	0.0129002	10000	0.4302
GEOLOGY CS vs. AG	1.0930636	0.4785566	1.7112978	10000	0.0006 ***
TIME X TREATMENT					
TIME : DJO	-0.7488962	-1.0746783	-0.4258079	9349	<1e-04 ***
TIME : DRE	-0.2217361	-0.5284213	0.0929322	10000	0.1536
TIME : LEY	0.1219299	-0.1914247	0.4397564	10000	0.4452
TIME : NER	-0.0867921	-0.4203403	0.2522637	10000	0.6098

MODELS 36a and 36b - ZOOPLANKTON - Small - *Chydorus sphaericus*

Model 36a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.2407	0.01656	0.5682	9288
YEAR	0.1629	8.824e-17	0.4355	832.5

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	1.424	1.178	1.69	1727

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	1.4520574	-2.6054891	5.6261954	10000	0.4722
DAY	0.0021959	-0.0023895	0.0067154	10000	0.3518
TIME	-0.0808404	-0.2617050	0.1059472	10000	0.3676
TREATMENT FL vs. FR					
ESTIMATES AT YEAR 0	0.6647016	-0.2096227	1.5078235	10000	0.1168
ESTIMATES AT YEAR 5	-0.1478806	-1.1108649	0.8928141	10000.0	0.7568
ALTITUDE	-0.0004683	-0.0021466	0.0010881	10000	0.5584
DEPTH	-0.0123962	-0.0382854	0.0135029	10000	0.3342
GEOLOGY CS vs. AG	0.4877648	-0.3866690	1.3377021	10000	0.2546
TIME X TREATMENT	-0.1570007	-0.3181725	0.0148237	10000	0.0658

Model 36b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.00988	5.718e-17	0.05537	540.2
YEAR	0.1886	8.503e-17	0.4904	492.9

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	1.393	1.155	1.645	885.5

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	-0.9304653	-4.8134416	3.0805228	10000	0.6382
DAY	0.0022381	-0.0021674	0.0068880	9954	0.3294
TIME	-0.0782910	-0.2690956	0.1038967	10000	0.3888
TREATMENT					
ESTIMATES AT YEAR 0					
FL vs. DJO	1.8616723	1.1233374	2.6501371	10000	0.0002 ***
FL vs. DRE	1.6203304	0.6574436	2.6269981	10000	0.0018 **
FL vs. LEY	-0.4954226	-1.1589703	0.2408478	10000	0.1572
FL vs. NER	0.1144013	-0.5868729	0.8059203	10000	0.7510
ESTIMATES AT YEAR 5					
FL vs. DJO	0.4350112	-0.6232094	1.5280657	10000	0.4262
FL vs. DRE	-0.0683703	-1.3054740	1.1627869	10000	0.9092
FL vs. LEY	-0.3154115	-1.4536078	0.7039665	10000	0.5736
FL vs. NER	-0.2303719	-1.3051718	0.8056242	9644	0.6640
ALTITUDE	0.0002137	-0.0012837	0.0016514	10000	0.7736
DEPTH	-0.0031880	-0.0220457	0.0160022	10000	0.7372
GEOLOGY CS vs. AG	0.6307899	0.1254135	1.1482126	10000	0.0166 *
TIME X TREATMENT					
TIME : DJO	-0.2858819	-0.5384984	-0.0333900	10000	0.0300 *
TIME : DRE	-0.3356956	-0.5751297	-0.0960397	10000	0.0070 **
TIME : LEY	0.0363067	-0.1982254	0.2862462	9629	0.7618
TIME : NER	-0.0695167	-0.3244676	0.1869570	9448	0.5868

MODELS 37a and 37b - ZOOPLANKTON - Small - Rotifers

Model 37a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	1.71	0.387	3.556	10000
YEAR	0.6421	0.09267	1.457	10101

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	3.161	2.619	3.699	10000

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	5.1733575	-2.5629312	13.2092030	10000	0.1768
DAY	0.0004473	-0.0063636	0.0071571	10000	0.8932
TIME	-0.1592654	-0.4738265	0.1713790	10000	0.3060
TREATMENT FL vs. FR					
ESTIMATES AT YEAR 0	0.0396688	-1.9057245	2.0548134	10579	0.9588
ESTIMATES AT YEAR 5	-0.4654894	-2.6048497	1.6351937	10000	0.6688
ALTITUDE	-0.0008616	-0.0040133	0.0021798	10000	0.5800
DEPTH	0.0199776	-0.0337520	0.0773247	10000	0.4580
GEOLOGY CS vs. AG	1.7600975	-0.1836525	3.5792907	10000	0.0624
TIME X TREATMENT	-0.1008850	-0.3513836	0.1434682	10000	0.4298

Model 37b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.07704	7.345e-17	0.4731	285.8
YEAR	0.5915	0.07238	1.349	10000

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	3.187	2.668	3.747	8877

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	9.285367	3.325136	15.324344	7191	0.0056 **
DAY	0.000673	-0.005821	0.007927	8882	0.8414
TIME	-0.151944	-0.456997	0.176811	10000	0.3184
TREATMENT					
ESTIMATES AT YEAR 0					
FL vs. DJO	2.478835	1.207809	3.758516	10000	0.0038 **
FL vs. DRE	-3.253000	-4.902623	-1.614944	5099	0.0036 **
FL vs. LEY	2.546735	1.380379	3.736678	10000	0.0058 **
FL vs. NER	-0.570705	-1.724481	0.624130	10022	0.3132
ESTIMATES AT YEAR 5					
FL vs. DJO	1.386150	-0.368339	3.118506	9644	0.1094
FL vs. DRE	-1.958640	-3.930061	0.036626	4058	0.0598
FL vs. LEY	0.648803	-1.073544	2.397689	10000	0.4560
FL vs. NER	-1.210321	-2.939038	0.488540	10000	0.1590
ALTITUDE	-0.002130	-0.004394	0.000197	7824	0.0744
DEPTH	-0.002706	-0.033772	0.028175	10000	0.8492
GEOLOGY CS vs. AG	0.408131	-0.418301	1.273363	6106	0.3272
TIME : DJO	-0.218130	-0.599356	0.168339	10000	0.2710
TIME : DRE	0.263106	-0.096262	0.633279	10836	0.1532
TIME : LEY	-0.383141	-0.754941	-0.001410	10000	0.0470 *
TIME : NER	-0.130403	-0.535330	0.248280	9716	0.5136

MODELS 38a and 38b - ZOOPLANKTON - Small - *Keratella gr. quadrata*

Model 38a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	1.842	0.4956	3.786	10000
YEAR	0.4633	0.04936	1.102	10000

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	3.001	2.509	3.525	10000

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	3.713e+00	-3.732e+00	1.202e+01	10000	0.353
DAY	-6.921e-03	-1.321e-02	4.499e-05	10000	0.042 *
TIME	-1.116e-01	-3.799e-01	1.851e-01	9671	0.422
TREATMENT FL vs. FR					
ESTIMATES AT YEAR 0	4.510e-01	-1.519e+00	2.439e+00	10000	0.644
ESTIMATES AT YEAR 5	0.3595358	-1.7934335	2.4517005	10000	0.735
ALTITUDE	-3.760e-04	-3.509e-03	2.698e-03	10000	0.809
DEPTH	1.152e-02	-4.337e-02	6.729e-02	10446	0.663
GEOLOGY CS vs. AG	1.373e+00	-5.854e-01	3.269e+00	10000	0.162
TIME X TREATMENT	-1.449e-02	-2.672e-01	2.189e-01	9708	0.911

Model 38b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.0882	5.494e-17	0.5195	258
YEAR	0.4154	3.726e-05	0.9637	10000

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	3.037	2.535	3.573	4013

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	9.1803418	2.7864824	15.3046340	1178	0.0098 **
DAY	-0.0071339	-0.0136479	-0.0003872	9939	0.0360 *
TIME	-0.1165312	-0.4111981	0.1455389	10000	0.3862
TREATMENT					
ESTIMATES AT YEAR 0					
FL vs. DJO	2.4106597	1.0985648	3.7051333	3586	0.0014 **
FL vs. DRE	-2.8512706	-4.4723425	-1.1330407	1569	0.0088 **
FL vs. LEY	2.7564971	1.5138905	3.9178371	10000	0.0012 **
FL vs. NER	-1.4730104	-2.6595019	-0.2871800	8908	0.0274 *
ESTIMATES AT YEAR 5					
FL vs. DJO	1.9574901	0.1362033	3.7405664	5776	0.0282 *
FL vs. DRE	-1.6039807	-3.7101568	0.4769321	1600	0.1356
FL vs. LEY	1.1920772	-0.5565428	2.9970882	10000	0.1826
FL vs. NER	-0.8448327	-2.5284790	0.9439529	9703	0.3240
ALTITUDE	-0.0022077	-0.0046305	0.0001440	1281	0.0746
DEPTH	-0.0022248	-0.0322285	0.0272780	10000	0.8858
GEOLOGY CS vs. AG	0.6664948	-0.1577864	1.5450635	10000	0.1142
TIME X TREATMENT					
TIME : DJO	-0.0961008	-0.4671065	0.2963846	9450	0.6244
TIME : DRE	0.2411184	-0.1094196	0.6029914	10424	0.1922
TIME : LEY	-0.3169845	-0.6724124	0.0515459	9713	0.0920
TIME : NER	0.1197413	-0.2431822	0.5204800	10599	0.5350

MODELS 39a and 39b - ZOOPLANKTON - Small - *Keratella cochlearis*

Model 39a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.07227	1.133e-16	0.2049	599.6
YEAR	0.3301	0.06889	0.7276	9538

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	1.031	0.8559	1.215	2151

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	1.151e+00	-1.778e+00	3.943e+00	10088	0.4020
DAY	3.897e-03	4.497e-05	7.684e-03	10000	0.0484 *
TIME	1.002e-01	-1.153e-01	3.281e-01	10000	0.3382
TREATMENT FL vs. FR					
ESTIMATES AT YEAR 0	-2.212e-01	-7.904e-01	3.289e-01	10000	0.4066
ESTIMATES AT YEAR 5	-0.1146376	-0.8480608	0.5999989	10000	0.7444
ALTITUDE	-3.409e-04	-1.489e-03	8.029e-04	9825	0.5400
DEPTH	-3.748e-03	-2.068e-02	1.469e-02	10619	0.6662
GEOLOGY CS vs. AG	1.363e-01	-4.336e-01	7.045e-01	10000	0.6400
TIME X TREATMENT	2.107e-02	-1.206e-01	1.579e-01	10000	0.7700

Model 39b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.04106	7.036e-17	0.2008	283
YEAR	0.3454	0.07075	0.7606	10000

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	1.037	0.869	1.223	4733

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	2.9208782	-0.8194325	6.5934229	1155	0.1290
DAY	0.0037998	-0.0001415	0.0076573	10102	0.0566 .
TIME	0.1073618	-0.1209834	0.3191647	10000	0.3134
TREATMENT					
ESTIMATES AT YEAR 0					
FL vs. DJO	-0.0337201	-0.7907857	0.8058562	7277	0.9104
FL vs. DRE	-1.0262854	-2.0725230	0.0080650	1116	0.0692 .
FL vs. LEY	0.0058671	-0.7467170	0.7661525	10000	0.9906
FL vs. NER	-0.0639025	-0.7932975	0.7463657	10000	0.8336
ESTIMATES AT YEAR 5					
FL vs. DJO	5.792e-02	-9.402e-01	1.120e+00	9056	0.9130
FL vs. DRE	-5.238e-01	-1.699e+00	7.141e-01	1436	0.3578
FL vs. LEY	-7.065e-01	-1.744e+00	3.218e-01	10000	0.1790
FL vs. NER	3.322e-01	-6.833e-01	1.327e+00	10000	0.5078
ALTITUDE	-0.0009909	-0.0023264	0.0005015	1368	0.1712
DEPTH	-0.0017613	-0.0202233	0.0156388	10000	0.8390
GEOLOGY CS vs. AG	-0.0092511	-0.5230427	0.5712943	8758	0.9602
TIME : DJO	0.0206476	-0.2079686	0.2417941	10000	0.8646
TIME : DRE	0.1081844	-0.1026720	0.3241986	10000	0.3184
TIME : LEY	-0.1407936	-0.3473086	0.0780549	10000	0.2020
TIME : NER	0.0816577	-0.1545776	0.2930868	10000	0.4760

MODELS 40a and 40b - ZOOPLANKTON - Small - *Polyarthra* sp.

Model 40a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	1.094	0.1079	2.581	9756
YEAR	0.7705	0.1231	1.708	10000

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	2.737	2.292	3.236	10128

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	2.209e+00	-4.596e+00	9.086e+00	10000	0.5252
DAY	1.363e-02	7.479e-03	2.014e-02	8810	<1e-04 ***
TIME	-2.515e-01	-5.785e-01	9.753e-02	9000	0.1346
TREATMENT FL vs. FR					
ESTIMATES AT YEAR 0	-5.114e-03	-1.664e+00	1.611e+00	10000	0.9734
ESTIMATES AT YEAR 5	-1.1642866	-2.9869945	0.5991665	10000	0.1774
ALTITUDE	-6.338e-04	-3.427e-03	1.980e-03	10000	0.6528
DEPTH	9.131e-03	-3.473e-02	5.958e-02	9598	0.7044
GEOLOGY CS vs. AG	7.312e-01	-8.235e-01	2.345e+00	10000	0.3434
TIME X TREATMENT	-2.340e-01	-4.671e-01	-2.726e-05	10377	0.0498 *

Model 40b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.3416	1.029e-16	1.79	220.9
YEAR	0.7417	0.15	1.706	10000

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	2.743	2.281	3.238	1833

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	1.7400605	-4.5846259	8.5727185	881.0	0.6100
DAY	0.0139908	0.0078246	0.0204428	9607.8	<1e-04 ***
TIME	-0.2442310	-0.5703919	0.0917045	9563.1	0.1338
TREATMENT					
ESTIMATES AT YEAR 0					
FL vs. DJO	2.5447740	0.6227491	4.2664234	2121.2	0.0368 *
FL vs. DRE	-1.3979828	-3.6484584	0.4270963	907.8	0.1114
FL vs. LEY	0.5922068	-1.4228741	2.2484481	1625.7	0.3244
FL vs. NER	0.4921638	-1.4192815	2.0579324	2445.5	0.4092
ESTIMATES AT YEAR 5					
FL vs. DJO	-0.5241933	-3.0017323	1.7416604	3526.8	0.6504
FL vs. DRE	-0.6895634	-3.4485038	1.6748283	2052.6	0.5866
FL vs. LEY	-1.1130849	-3.5076199	1.3610259	3069.3	0.2986
FL vs. NER	-0.9385612	-3.3073159	1.3744835	4067.7	0.3696
ALTITUDE	-0.0004340	-0.0030415	0.0019446	860.1	0.7538
DEPTH	0.0004449	-0.0351928	0.0388309	1327.8	0.9586
GEOLOGY CS vs. AG	0.0359109	-1.0773248	1.3848817	2012.1	0.9574
TIME X TREATMENT					
TIME : DJO	-0.5961836	-0.9676126	-0.2395728	10000.0	0.0014 **
TIME : DRE	0.1646367	-0.1752629	0.4973745	9440.7	0.3474
TIME : LEY	-0.3204800	-0.6675710	0.0337012	10000.0	0.0786 .
TIME : NER	-0.2675316	-0.6309665	0.1021169	10000.0	0.1490

TROPIC STATE

MODELS 41a and 41b - TROPIC STATE - TP concentration

Model 41a:

G-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
LAKE	0.733	4.226e-05	1.715	9026
YEAR	0.6051	8.409e-16	1.571	4972

R-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
units	4.219	3.499	5.037	6091

	post.mean	1-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	6.349837	-0.266434	13.172412	10000	0.067
DAY	0.005444	-0.002373	0.013396	10000	0.181
TIME	0.092894	-0.262161	0.427433	10000	0.571
TREATMENT FL vs. FR					
ESTIMATES AT YEAR 0	0.089752	-1.334683	1.653110	10000	0.914
ESTIMATES AT YEAR 5	0.484134	-1.316149	2.205350	10000	0.594
ALTITUDE	-0.001027	-0.003677	0.001714	10000	0.432
DEPTH	-0.023447	-0.070296	0.021804	10000	0.307
GEOLOGY CS vs. AG	-0.883557	-2.353516	0.634579	10000	0.233
TIME X TREATMENT	0.082115	-0.228843	0.374176	10000	0.590

Model 41b:

G-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
LAKE	1.031	0.0001226	2.636	8416
YEAR	0.6036	8.107e-17	1.579	2497

R-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
units	4.249	3.49	5.048	3877

	post.mean	1-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	6.972250	-1.885495	15.270013	10000	0.112
DAY	0.005425	-0.002741	0.013053	10000	0.187
TIME	0.085929	-0.263821	0.429351	10000	0.601
TREATMENT					
ESTIMATES AT YEAR 0					
FL vs. DJO	0.257594	-2.522250	2.989711	10000	0.863
FL vs. DRE	0.151560	-2.679222	3.405638	3940	0.942
FL vs. LEY	0.433991	-2.331974	3.190066	9003	0.725
FL vs. NER	-0.299410	-2.972035	2.490732	10000	0.793
ESTIMATES AT YEAR 5					
FL vs. DJO	1.207222	-1.800695	4.163501	10000	0.419
FL vs. DRE	-0.099280	-3.263515	3.309130	10000	0.930
FL vs. LEY	1.794267	-1.232177	4.986573	10456	0.234
FL vs. NER	-0.692492	-3.603049	2.287567	9690	0.616
ALTITUDE	-0.001042	-0.004315	0.002185	10000	0.504
DEPTH	-0.030148	-0.085077	0.024900	10000	0.253
GEOLOGY CS vs. AG	-1.024196	-2.928446	0.876728	10565	0.255
TIME X TREATMENT					
TIME : DJO	0.191593	-0.270181	0.670398	10000	0.434
TIME : DRE	-0.050657	-0.530668	0.391116	8018	0.826
TIME : LEY	0.268707	-0.180063	0.712054	10000	0.240
TIME : NER	-0.077692	-0.549680	0.411845	10000	0.749

MODELS 42a and 42b - TROPIC STATE - Water transparency (k)

Model 42a:

G-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
LAKE	0.001972	0.0002106	0.00493	10000
YEAR	6.801e-06	3.795e-17	2.424e-05	2594

R-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
units	0.004294	0.00326	0.005365	9916

	post.mean	1-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	4.242e-01	5.176e-02	7.570e-01	10000	0.0230 *
DAY	-2.918e-04	-6.178e-04	4.434e-05	10000	0.0840 .
TIME	2.192e-03	-7.391e-03	1.233e-02	10870	0.6658
TREATMENT FL vs. FR					
ESTIMATES AT YEAR 0	2.149e-02	-5.080e-02	9.821e-02	10000	0.5432
ESTIMATES AT YEAR 5	9.479e-03	-6.441e-02	9.101e-02	10295	0.7946
ALTITUDE	-4.295e-05	-1.770e-04	9.949e-05	10000	0.5198
DEPTH	-4.872e-03	-8.748e-03	-8.527e-04	10000	0.0206 *
GEOLOGY CS vs. AG	-8.105e-03	-8.201e-02	6.572e-02	10000	0.8164
TIME X TREATMENT	-2.505e-03	-1.551e-02	1.072e-02	10066	0.7094

Model 42b:

G-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
LAKE	3.453e-05	5.193e-17	0.0001262	1536
YEAR	9.275e-06	2.119e-17	3.873e-05	3056

R-structure:

	post.mean	1-95% CI	u-95% CI	eff.samp
units	0.004297	0.003298	0.005389	10475

	post.mean	1-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	3.862e-01	-1.747e-02	7.867e-01	10000	0.0550 .
DAY	-2.994e-04	-6.332e-04	3.740e-05	10000	0.0820 .
TIME	2.122e-03	-7.672e-03	1.164e-02	10000	0.6688
TREATMENT					
ESTIMATES AT YEAR 0					
FL vs. DJO	9.198e-02	1.166e-02	1.698e-01	10000	0.0248 *
FL vs. DRE	3.716e-02	-6.439e-02	1.325e-01	10000	0.4670
FL vs. LEY	2.894e-02	-5.974e-02	1.213e-01	10000	0.5248
FL vs. NER	-5.562e-02	-1.181e-01	8.728e-03	10000	0.0846 .
ESTIMATES AT YEAR 5					
FL vs. DJO	7.018e-02	-1.570e-02	1.528e-01	10000	0.0948 .
FL vs. DRE	-2.085e-02	-1.316e-01	8.809e-02	10000	0.7018
FL vs. LEY	4.424e-02	-4.227e-02	1.356e-01	10005	0.3334
FL vs. NER	-3.835e-02	-1.057e-01	2.908e-02	11658	0.2594
ALTITUDE	-2.399e-05	-1.799e-04	1.142e-04	10000	0.7558
DEPTH	-4.947e-03	-9.055e-03	-8.255e-04	9727	0.0196 *
GEOLOGY CS vs. AG	-2.466e-02	-6.520e-02	1.630e-02	9785	0.2318
TIME : DJO	-4.296e-03	-2.686e-02	1.816e-02	10000	0.6990
TIME : DRE	-1.151e-02	-3.049e-02	7.642e-03	10000	0.2316
TIME : LEY	2.983e-03	-1.686e-02	2.316e-02	10000	0.7664
TIME : NER	3.412e-03	-1.601e-02	2.317e-02	10000	0.7300

MODELS 43a and 43b - TROPIC STATE - Chlorophyll-a concentration

Model 43a:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.02725	3.465e-17	0.1008	1942
YEAR	0.1015	4.294e-06	0.2975	9644

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	0.06388	0.04314	0.08787	1191

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	-1.0985348	-3.5263500	1.2937221	10000	0.3026
DAY	0.0013860	-0.0002068	0.0029403	9470	0.0814 .
TIME	-0.0640317	-0.2705870	0.1383576	9788	0.4786
TREATMENT FL vs. FR					
ESTIMATES AT YEAR 0	-0.2276711	-0.6607666	0.2289001	8365	0.2848
ESTIMATES AT YEAR 5	0.6189844	0.0565200	1.1752731	4749	0.0330 *
ALTITUDE	0.0005940	-0.0003465	0.0015613	10000	0.1790
DEPTH	0.0036342	-0.0226314	0.0284305	9622	0.6746
GEOLOGY CS vs. AG	-0.2988022	-0.7245942	0.1250169	3668	0.1378
TIME X TREATMENT	0.1713346	0.0523890	0.2845974	10000	0.0042 **

Model 43b:

G-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
LAKE	0.009433	4.25e-17	0.007735	3618
YEAR	0.08699	1.414e-05	0.2796	10000

R-structure:

	post.mean	l-95% CI	u-95% CI	eff.samp
units	0.05868	0.04102	0.08009	10000

	post.mean	l-95% CI	u-95% CI	eff.samp	pMCMC
Intercept	4.624e-01	-2.897e+00	3.772e+00	10000	0.7796
DAY	1.491e-03	-6.932e-05	2.950e-03	9714	0.0576 .
TIME	-5.962e-02	-2.591e-01	1.552e-01	10000	0.4982
TREATMENT FL vs. FR					
ESTIMATES AT YEAR 0					
FL vs. DJO	-3.684e-01	-8.555e-01	1.185e-01	10335	0.1262
FL vs. DRE	-7.308e-01	-1.439e+00	6.504e-02	10077	0.0558 .
FL vs. LEY	2.468e-01	-5.731e-01	1.024e+00	11399	0.5298
FL vs. NER	-2.090e-01	-6.096e-01	2.104e-01	12328	0.2926
ESTIMATES AT YEAR 5					
FL vs. DJO	5.720e-01	-3.325e-02	1.222e+00	9552	0.0714 .
FL vs. DRE	-8.164e-02	-9.723e-01	8.328e-01	10000	0.8472
FL vs. LEY	1.463e+00	7.021e-01	2.280e+00	10903	0.0038 **
FL vs. NER	3.981e-01	-1.085e-01	9.141e-01	9338	0.1216
ALTITUDE	9.190e-05	-1.097e-03	1.289e-03	10000	0.8826
DEPTH	-3.476e-02	-8.084e-02	8.815e-03	10986	0.1230
GEOLOGY CS vs. AG	-5.921e-01	-9.482e-01	-2.282e-01	9149	0.0056 **
TIME X TREATMENT					
TIME : DJO	1.882e-01	4.592e-02	3.104e-01	10000	0.0070 **
TIME : DRE	1.299e-01	-2.991e-03	2.632e-01	10000	0.0542 .
TIME : LEY	2.432e-01	1.071e-01	3.900e-01	10000	0.0014 **
TIME : NER	1.220e-01	-9.338e-03	2.628e-01	9517	0.0798 .