

Table S2.

Results of the estimated posterior distributions from our hierarchical Bayesian model. The symbols in left-most column correspond to those used in the model (see Methods section, Text S1). Significant parameters, whose 95 % credible interval does not incorporate zero, are in bold.

	Response	Parameter	2.5%	50%	97.5%
$a_{1,1}$			-5.19	-4.11	-3.07
$a_{1,2}$		Intercept	-3.88	-2.84	-1.96
$a_{1,3}$			-3.59	-2.58	-1.71
b_1	CLIDEMIA	<i>predicted</i> disturbance	0.04	0.17	0.32
b_2		OPEN	0.03	1.08	2.20
b_3		SWAMP	-1.61	-0.28	1.00
c_1		SMOOTH	0.88	0.92	0.96
d_1		DISTANCE	-1.59	0.41	2.43
$a_{2,1}$			-5.60	-4.53	-3.61
$a_{2,2}$		Intercept	-4.40	-3.55	-2.75
$a_{2,3}$			-2.95	-2.12	-1.40
b_4	DISTURBANCE	OPEN	-0.56	0.33	1.27
b_5		SWAMP	0.05	1.11	2.32
c_2		SMOOTH	0.92	0.95	0.97
d_2		DISTANCE	-6.34	-4.55	-2.96