

Factors and Covariates in model	Model Structure				
	(deterministic part)	D	N	Parameters	$\delta AICc$
Null	$\beta_0 + \beta_1$	0.053	235	2	349
Null, polynomial (1)	$\beta_0 + \beta_1 + \beta_2$	0.051	235	3	328
Null, polynomial (2)	$\beta_0 + \beta_1 + \beta_2 + \beta_3$	0.050	235	4	328
Island	$\beta_0 + \beta_1 + \psi_i$	0.045	235	6	282
Island, polynomial (1)	$\beta_0 + \beta_1 + \beta_2 + \psi_i$	0.043	235	9	260
Island, polynomial (2)	$\beta_0 + \beta_1 + \beta_2 + \beta_3 + \psi_i$	0.042	235	12	263
Island region	$\beta_0 + \beta_1 + \omega_i$	0.026	235	24	71
Island region, polynomial (1)	$\beta_0 + \beta_1 + \beta_2 + \omega_i$	0.022	235	36	9
Island region, polynomial (2)	$\beta_0 + \beta_1 + \beta_2 + \beta_3 + \omega_i$	0.020	235	48	0

Table S1