

Table 3. Nonparametric multiplicative regression (NPMR) model summary for community composition (non-metric multidimensional scaling; NMS1 and NMS2) and each of 12 focal species. Potential predictors (Pred) for NMS1 and NMS2 included all variables in Table 1; for individual species, we restricted predictors to climate and hardwood basal area. The cross-validated R^2 (xR^2) represents the percent of the variation in species' abundance represented by the model using a leave-one-out jackknife approach. T represents the threshold strength (Lintz et al. 2011). N^* represents the average number of plots nearby in environmental space used to estimate the response. The p-value (p) is generated separately for each model by examining the number of models with equal or higher xR^2 in 100 randomizations. The tolerance (Tol) represents how broadly response estimates draw on abundances in plots nearby in environmental space. The sensitivity (Sens) represents a measure of effect size for each predictor.

Response	xR^2	T	N^*	p	Pred	Tol	Sens	Pred	Tol	Sens
NMS1	0.73	0.71	41	0.01	PCA1	1.157	0.46			
NMS2	0.22	0.61	62	0.01	Picsit	0.260	0.19			
<i>Hypogymnia bitteri</i>	0.60	0.59	54	0.01	PCA1	2.479	0.29	PCA3	2.065	0.14
<i>Hypogymnia duplicata</i>	0.35	0.69	53	0.01	PCA1	2.809	0.34	PCA4	1.099	0.25
<i>Hypogymnia physodes</i>	0.69	0.75	41	0.01	PCA1	1.157	0.51			
<i>Parmelia sulcata</i>	0.46	0.65	54	0.01	PCA1	2.479	0.39	PCA3	2.065	0.19
<i>Parmeliopsis ambigua</i>	0.44	0.72	41	0.01	PCA1	1.157	0.27			
<i>Ramalina dilacerata</i>	0.56	0.70	41	0.01	PCA1	1.157	0.44			
<i>Ramalina farinacea</i>	0.45	0.65	71	0.01	HdwdBA	0.553	0.10	PCA1	3.140	0.20
<i>Ramalina roesleri</i>	0.45	0.70	41	0.01	PCA1	1.157	0.57			
<i>Sphaerophorus globosus</i>	0.47	0.74	68	0.01	PCA1	2.148	0.37			
<i>Tuckermannopsis sepincola</i>	0.28	0.53	62	0.01	PCA1	3.140	0.12	PCA3	1.979	0.78
<i>Vulpicida pinastris</i>	0.70	0.73	41	0.01	PCA1	1.157	0.32			
<i>Xanthoria candelaria</i>	0.41	0.50	42	0.01	PCA1	1.818	0.15	PCA4	1.290	0.09