

Table S2 Summary of MAXENT models for nine North American species of *Cypripedium* for the ETI (1980-1989). Percent contribution of each environmental variable is reported, with variables that were retained shown in bold. Variables with a percent contribution of 0.0% were not used in the respective species model. The AUC of each model is also reported.

Variable	<i>C. acaule</i>	<i>C. arietinum</i>	<i>C. californicum</i>	<i>C. fasciculatum</i>	<i>C. guttatum</i>	<i>C. montanum</i>	<i>C. parviflorum</i>	<i>C. passerinum</i>	<i>C. reginae</i>	Mean
Bio1	0.0%	0.0%	0.0%	0.0%	18.1%	0.0%	0.0%	0.0%	0.0%	2.0%
Bio2	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bio3	8.3%	13.3%	0.0%	0.0%	0.0%	0.0%	51.2%	3.2%	3.5%	8.8%
Bio4	0.0%	0.0%	24.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.7%
Bio5	24.1%	0.0%	0.0%	0.0%	0.0%	0.0%	30.1%	0.0%	0.0%	6.0%
Bio6	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bio7	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4%	0.2%
Bio8	0.0%	0.0%	0.4%	0.0%	0.0%	49.6%	0.0%	0.0%	0.0%	5.6%
Bio9	0.0%	0.0%	0.0%	0.0%	0.0%	22.5%	0.0%	0.0%	0.0%	2.5%
Bio10	0.0%	5.2%	0.0%	0.0%	0.0%	0.0%	0.0%	34.0%	4.1%	4.8%
Bio11	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bio12	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bio13	0.0%	0.0%	48.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.3%
Bio14	0.0%	0.0%	26.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	3.0%
Bio15	64.4%	35.5%	0.0%	0.0%	2.2%	0.0%	6.4%	0.0%	21.6%	14.5%
Bio16	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bio17	0.0%	0.0%	0.0%	0.0%	20.8%	0.0%	0.0%	0.0%	0.0%	2.3%
Bio18	0.0%	7.6%	0.0%	26.5%	0.0%	3.9%	0.0%	0.0%	0.3%	4.3%
Bio19	0.0%	0.0%	0.0%	54.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.0%
Soil	3.3%	26.1%	0.0%	19.5%	51.2%	14.7%	12.2%	28.5%	16.4%	19.1%
Land Cover	0.0%	12.3%	0.0%	0.0%	7.6%	9.3%	0.0%	34.3%	52.5%	12.9%
AUC	0.9170	0.9450	0.9944	0.9954	0.9636	0.9440	0.7689	0.9179	0.8790	0.9250