Journal of Avian Biology

JAV-01617
Atauchi, P. J., Peterson, A. T. and Flanagan, J. 2018. Species distribution models for Peruvian plantcutter improve with consideration of biotic interactions. – J. Avian Biol. doi: 10.1111/jav.01617

Supplementary material

Appendix 1

Table A1. Summary of the best-performing parameter settings used to calibrate models of *Peruvian plantcutter* and host plants, we described Regularization Multiplier (rm), Akaike Information criterion (AICc), number of parameters (NP) in each model, Features (L = linear; Q=quadratic; H=hinge; P=product; T=threshold).

Species	**Features**	**rm**	**AICc**	**NP**	**Omission Rate**	**Mean AUC**
Capparis ovalifolia	LQHPT	3.5	395.5	3	0.05	0.88
Capparis crotonoides	LQ	2.0	834.7	4	0.08	0.85
Capparis scabrida	LQH	1.0	830.5	10	0.01	0.91
Grabowskia boerhaaviifolia	LQH	2.0	300.4	7	0.04	0.94
Prosopis pallida	LQH	1.5	1048.1	11	0.10	0.87
Ph. raimondii Climate only	LQ	1.5	855.5	7	0.06	0.88
Ph. raimondii Plants only	LQH	2	774.3	5	0.16	0.92
Ph. raimondii both	LQ	2.5	739.5	8	0.19	0.93

Table A2. Summary of occurrence data, Global Biodiversity Information Facility (GBIF), Latin American Seasonally Dry Tropical Forest Floristic Network (DryFlor), Field Observation Data. (FOD).

Species	**Reference**	**Number of points**	**Years of coverage**	**Resolution**
P. pallida	GBIF	112	1970–2012	10 km
P. pallida	DryFlor	163	–	5 km
P. pallida	FOD	70	2002–2017	10 m
G. boerhaaviifolia	GBIF	20	1970–2012	10 km
G. boerhaaviifolia	DryFlor	31	–	5 km
G. boerhaaviifolia	FOD	2	2010–2017	10 m
C. ovalifolia	GBIF	8	1985–2012	10 km
C. ovalifolia	DryFlor	70	–	5 km
C. ovalifolia	FOD	–	–	10 m
C. scabrida	GBIF	16	1985–1997	10 km
C. scabrida	DryFlor	171	–	5 km
C. scabrida	FOD	–	–	10 m
C. crotonoides	GBIF	53	1870–2002	10 km
C. crotonoides	DryFlor	23	–	5 km
C. crotonoides	FOD	2	2002–2005	10 m