

Appendix 1. Results of the Spearman correlations between the variables proposed for the occupancy model of the Antioquia Brushfinch in the municipality of San Pedro de los Milagros, Antioquia, Colombia. Each cell in the table shows the correlation between two variables. High values (> 0.7 or < -0.7) indicate a strong relationship and caution for collinearity. No correlations was considered high. The largest correlation (-0.361) was between slope and length of rivers in a 500m radius buffer. A_vsbpe_x: coverage area of shrub and herbaceous vegetation (SHV) in a circular area of 50 or 500 m radius. Rivers_bx: meters of watersheds in a circular area of 50 or 500 m radius. Slop_x: percentage of slope in a circular area of 50 or 500 m radius. Sdt_bx: second derivative of the terrain in a circular area of 50 or 500 m radius. CH_GEDI_50: height of the canopy in a circular area of 50 m radius.

	A_vsbpe_50	A_vsbpe_500	Rivers_b50	Rivers_b500	Sdt_b50	Sdt_b500	slop_50	slop_500	CH_GEDI_50 C	H_GEDI_500
A_vsbpe_50	1	0.211	0.018	0.046	0.165	0.070	0.079	0.214	-0.133	-0.308
A_vsbpe_500	0.211	1	-0.009	0.034	0.135	0.256	0.072	0.043	-0.053	-0.180
Rivers_b50	0.018	-0.009	1	0.172	-0.005	-0.059	-0.194	-0.253	-0.198	-0.267
Rivers_b500	0.046	0.034	0.172	1	-0.235	0.042	-0.253	-0.361	-0.296	-0.140
Sdt_b50	0.165	0.135	-0.005	-0.235	1	0.278	0.023	-0.049	0.121	-0.139
Sdt_b500	0.070	0.256	-0.059	0.042	0.278	1	-0.029	-0.157	-0.023	-0.100
slop_50	0.079	0.072	-0.194	-0.253	0.023	-0.029	1	0.346	0.096	0.229
slop_500	0.214	0.043	-0.253	-0.361	-0.049	-0.157	0.346	1	0.124	0.176
CH_GEDI_50	-0.133	-0.053	-0.198	-0.296	0.121	-0.023	0.096	0.124	1	0.576

CH_GEDI_500	-0.308	-0.180	-0.267	-0.140	-0.139	-0.100	0.229	0.176	0.576	1
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