

Climate Variable		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Solar radiation (kJ m ⁻² day ⁻¹)	Mean	18042.83	19053.94	18279.87	17274.41	16143.24	16505.80	17037.99	17494.15	17386.71	16075.51	16225.07	16517.01
	Min	12801.00	14102.00	15508.00	15135.00	14746.00	13271.00	13777.00	15254.00	15656.00	13773.00	13188.00	11778.00
	Max	19045.00	20811.00	20952.00	19650.00	17580.00	18270.00	18481.00	19113.00	18526.00	17059.00	17064.00	17792.00
	Range	6244.00	6709.00	5444.00	4515.00	2834.00	4999.00	4704.00	3859.00	2870.00	3286.00	3876.00	6014.00
	Stdev	376.79	591.87	856.05	861.68	694.59	879.30	680.46	709.68	563.03	458.36	414.72	638.51

*Data highlighted in red represents the lowest monthly multi-annual precipitation value in which a pronounced dry season with a possible drought period might have taken place.

Table S2. Datasets consulted in the research.

Autor	Date	Purpose
Instituto de Investigación de Recursos Biológicos Alexander von Humboldt [IAvH]	2013	Conservation status or threat level includes vascular plants threatened at the national level Level of prioritization: TDF vascular species are prioritized at the national level
Corporación Autónoma Regional del Valle del Cauca [CVC]	2014	Conservation status or threat level includes vascular plants threatened at the regional level
Pizano et al.	2014	Endemism: Plant species found in the tropical dry forests (TDF) and identified as endemic at the national level
Castellanos et al.	2016	Level of prioritization includes vascular plant species with priority for conservation at the national level
Vargas	2013	Level of prioritization: TDF vascular plants with high priority for conservation at the regional level
Global Biodiversity Information Facility [GBIF]	2018	Habitat suitability modeling: Species occurrences
Fick and Hijmans	2017	Habitat suitability modeling: Environmental predictors
Instituto de Hidrología, Meteorología y Estudios Ambientales [IDEAM], Instituto Amazónico de Investigaciones Científicas [SINCHI], and Parques Nacionales Naturales de Colombia [PNN]	2018	Preliminary conditions assessment: Land uses
IDEAM	2015	Preliminary conditions assessment: Erosion
IDEAM	2017	Preliminary conditions assessment: salinization levels
IDEAM	2015	Preliminary conditions assessment: aridity index
IDEAM	2017	Preliminary conditions assessment: climate change risk index
IAvH	2008	Preliminary conditions assessment: priority areas for conservation
Ministerio de Ambiente y Desarrollo Sostenible [MADS]	2015	Preliminary conditions assessment: portfolio of ecosystems and environmental areas susceptible of restoration processes

Table S3. Consolidated list of species of vascular plants prioritized according to their status of threat, endemism, and level of priority. National TDF: Tropical dry forest species prioritized at the national level; National Vascular: Vascular plants prioritized at the national level; Regional TDF vascular: Tropical dry forest vascular plants prioritized at the regional level.

Species Name	A: Level of Threat			B: Endemism	C: Level of Priority		
	Status ¹	National	Regional	National	National TDF	National Vascular	Regional TDF
<i>Acrocomia aculeata</i>	LC	X					
<i>Aechmea angustifolia</i>	LC	X					
<i>Aechmea magdalenae</i>	LC	X					
<i>Aegiphila truncata</i>				X			
<i>Alibertia edulis</i>						X	
<i>Ampelocera albertiae</i>						X	
<i>Ampelocera macphersonii</i>						X	
<i>Anacardium excelsum</i>	LC/NT	X	X			X	
<i>Andira taurotesticulata</i>						X	X
<i>Annona quinduensis</i>						X	
<i>Anthurium alatum</i>				X			
<i>Anthurium caucavallense</i>	DD	X		X			
<i>Aphelandra flava</i>	VU/EN	X		X			
<i>Aphelandra pharangophila</i>	VU	X	X	X			
<i>Astronium graveolens</i>	LC	X				X	
<i>Attalea amygdalina</i>	EN	X	X			X	X
<i>Attalea butyracea</i>	LC	X					
<i>Bactris gasipaes</i> var. <i>chichagui</i>	VU		X				X
<i>Bactris guineensis</i>	NT		X				
<i>Bactris major</i>	LC	X					
<i>Banara ulmifolia</i>				X			
<i>Bauhinia picta</i>						X	X
<i>Brosimum alicastrum</i>						X	
<i>Bursera graveolens</i>	LC	X					
<i>Caliphruria subdentata</i>	VU	X	X	X			
<i>Capparis amplissima</i>						X	
<i>Catasetum tabulare</i>			X	X			
<i>Catopsis sessiliflora</i>	LC	X					
<i>Cattleya quadricolor</i>	EN	X	X			X	
<i>Cattleya trianae</i>	CR		X				

Species Name	A: Level of Threat			B: Endemism	C: Level of Priority		
	Status ¹	National	Regional	National	National TDF	National Vascular	Regional TDF
<i>Cecropia mutisiana</i>				X			
<i>Cedrela odorata</i>	EN	X	X			X	
<i>Ceiba pentandra</i>	LC	X				X	
<i>Celtis schippii</i>							X
<i>Cereus hexagonus</i>						X	
<i>Chamaedorea linearis</i>	NT	X					
<i>Chrysophyllum parvulum</i>							X
<i>Cinnamomum triplinerve</i>							X
<i>Clavija minor</i>				X			
<i>Comparettia falcata</i>	LC	X	X				
<i>Cordia alliodora</i>	LC	X					
<i>Coryanthes mastersiana</i>	LC	X					
<i>Crateva tapia</i>	LC	X	X			X	X
<i>Daphnopsis americana</i>							X
<i>Dicranopygium callithrix</i>				X			
<i>Enterolobium cyclocarpum</i>						X	
<i>Epidendrum ibaguense</i>				X			
<i>Epidendrum melinanthum</i>				X			
<i>Erythroxylum haughtii</i>				X			
<i>Eschweilera antioquiensis</i>	LC		X				
<i>Esenbeckia grandiflora</i>							X
<i>Eucharis bonplandii</i>	EN		X				
<i>Eucharis caucana</i>	CR	X	X		X		
<i>Gaya mutisiana</i>	VU	X	X	X			
<i>Guaiaicum officinale</i>	CR	X				X	
<i>Guatteria collina</i>				X			
<i>Guatteria lehmannii</i>				X			
<i>Guzmania monostachia</i>	LC	X					
<i>Guzmania rhonhofiana</i>		X					
<i>Handroanthus chrysanthus</i>	LC	X					
<i>Heliconia episcopalis</i>	LC	X				X	
<i>Heliconia platystachys</i>	LC	X					

Species Name	A: Level of Threat			B: Endemism	C: Level of Priority		
	Status ¹	National	Regional	National	National TDF	National Vascular	Regional TDF
<i>Heliconia stricta</i>	LC	X					
<i>Henriettea goudotiana</i>				X			
<i>Hylocereus polyrhizus</i>			X				
<i>Hymenaea courbaril</i>						X	X
<i>Inga manabiensis</i>				X			
<i>Jacaranda caucana</i>	LC	X					
<i>Laetia americana</i>						X	
<i>Liparis nervosa</i>						X	
<i>Llagunoa nitida</i>							X
<i>Lonchocarpus macrophyllus</i>							X
<i>Margaritaria nobilis</i>							X
<i>Masdevallia uncifera</i>	NT	X	X				
<i>Maytenus corei</i>	VU	X	X				X
<i>Melochia colombiana</i>				X			
<i>Myrcia popayanensis</i>				X			
<i>Myroxylon balsamum</i>						X	X
<i>Nectandra cuspidata</i>							X
<i>Nectandra turbacensis</i>	NT		X			X	
<i>Neea divaricata</i>							X
<i>Ocotea helicterifolia</i>							X
<i>Oeceoclades maculata</i>						X	
<i>Opuntia pittieri</i>			X				
<i>Ouratea lucens</i>							X
<i>Oxandra espiñana</i>	CR	X	X				X
<i>Pachira quinata</i>	EN	X	X			X	
<i>Pachira subandina</i>	EN	X	X				X
<i>Passiflora adenopoda</i>	LC	X					
<i>Passiflora capsularis</i>	LC	X					
<i>Passiflora coriacea</i>	LC	X					
<i>Passiflora foetida</i>	LC	X					
<i>Passiflora magdalenae</i>	VU	X		X			
<i>Passiflora rubra</i>	LC	X					

Species Name	A: Level of Threat			B: Endemism	C: Level of Priority		
	Status ¹	National	Regional	National	National TDF	National Vascular	Regional TDF
<i>Passiflora sphaerocarpa</i>	LC	X				X	
<i>Paullinia globosa</i>				X			
<i>Peperomia andrei</i>				X			
<i>Philodendron elegans</i>				X			
<i>Philodendron montanum</i>				X			
<i>Piper haughtii</i>				X			
<i>Piper umbellatum</i>				X			
<i>Pitcairnia maidifolia</i>	LC	X					
<i>Pitcairnia megasepala</i>	LC	X					
<i>Plagiolirion horsmannii</i>	CR	X	X			X	
<i>Pleurothyrium trianae</i>							X
<i>Pouteria torta</i>						X	X
<i>Protium tenuifolium</i>							X
<i>Pterygota colombiana</i>						X	X
<i>Puya floccosa</i>	LC	X					
<i>Racinaea tenuispica</i>	LC	X					
<i>Rhipsalis baccifera</i>			X				
<i>Rochefortia spinosa</i>							X
<i>Rodriguezia granadensis</i>	LC	X		X			
<i>Rodriguezia lanceolata</i>	LC	X					
<i>Rourea antioquiensis</i>				X			X
<i>Ruellia potamophila</i>				X			
<i>Sabal mauritiiformis</i>	NT/EW	X	X			X	
<i>Scybalium depressum</i>	DD	X					
<i>Simira cordifolia</i>							X
<i>Sobralia virginalis</i>				X			
<i>Sommerera donnell-smithii</i>							X
<i>Spathiphyllum grandifolium</i>	VU/EN	X				X	
<i>Swartzia robiniiifolia</i>							X
<i>Swietenia macrophylla</i>	EN	X					
<i>Syagrus sancona</i>	VU/CR	X	X			X	
<i>Tillandsia balbisiana</i>	LC	X					

Species Name	A: Level of Threat			B: Endemism	C: Level of Priority		
	Status ¹	National	Regional	National	National TDF	National Vascular	Regional TDF
<i>Tillandsia bulbosa</i>	LC	X					
<i>Tillandsia elongata</i>	LC	X					
<i>Tillandsia juncea</i>	LC	X					
<i>Tillandsia mimia</i>	LC	X					
<i>Tillandsia recurvata</i>	LC	X					
<i>Tillandsia usneoides</i>	LC	X					
<i>Tillandsia variabilis</i>	LC	X					
<i>Trichilia appendiculata</i>							X
<i>Vanilla odorata</i>	EN		X				
<i>Verbesina crassicaulis</i>				X			
<i>Vitex cymosa</i>							X
<i>Voyria aphylla</i>						X	
<i>Vriesea chontalensis</i>	LC	X					
<i>Xylopia ligustrifolia</i>	NT	X				X	X
<i>Zanthoxylum gentryi</i>	LR		X	X			X
<i>Zanthoxylum martinicense</i>							X

¹ LC: Least concern; NT: Near threatened; VU: Vulnerable; EN: Endangered; CR: Critically endangered; DD: Data deficient.

Table S4. Summary of the cleaning process (geographically and spatially filtering) performed over the occurrence datasets for the pre-selected species.

Species	Total Occurrences	Occurrences			Modelling settings based on the number of occurrences		
		With coordinates	Coordinates Verified	Spatial filtering	SDM Threshold	Feature classes ¹	Beta (β) ²
<i>Anacardium excelsum</i>	678	541	359	190	Passed	LPQ	0.05
<i>Aphelandra pharangophila</i>	11	11	11	-	Not passed	-	-
<i>Attalea amygdalina</i>	159	158	9	-	Not passed	-	-
<i>Caliphruria subedentata</i>	22	6	5	-	Not passed	-	-
<i>Cattleya quadricolor</i>	36	5	4	-	Not Passed	-	-
<i>Cedrela odorata</i>	2704	2704	2040	1000	Passed	LPQ	0.05
<i>Crateva tapia</i>	2101	2101	1589	663	Passed	LPQ	0.05
<i>Eucharis caucana</i>	5	3	3	-	Not passed	-	-
<i>Gaya mutisiana</i>	11	6	5	-	Not passed	-	-
<i>Maytenus corei</i>	9	3	3	-	Not passed	-	-
<i>Oxandra espinтана</i>	621	621	117	61	Passed	LQ	0.16

Species	Total Occurrences	Occurrences			Modelling settings based on the number of occurrences		
		With coordinates	Coordinates Verified	Spatial filtering	SDM Threshold	Feature classes ¹	Beta (β) ²
<i>Pachira quinata</i>	286	286	204	112	Passed	LPQ	0.05
<i>Pachira subandina</i>	16	2	2	-	Not passed	-	-
<i>Plagiolirion horsmannii</i>	3	1	1	-	Not passed	-	-
<i>Sabal mauritiiformis</i>	1639	1639	119	61	Passed	LQ	0.16
<i>Syagrus sancona</i>	308	228	66	51	Passed	LQ	0.19
<i>Xylopia ligustrifolia</i>	64	64	47	42	Passed	LQ	0.21
<i>Zanthoxylum gentryi</i>	17	10	10	-	Not passed	-	-

¹ LPQ: Linear-Product-Quadratic; LQ: Linear-Quadratic.

² As presented in the user's help guide included in Maxent Software, it is defined as regularization constants. These values are shown in Maxent output files.

Table S5. Selected variables for the prioritized species using Principal Component Analysis (PCA).

Bioclimatic Variables	Anacardium excelsum			Cedrela odorata			Crateva tavia			Oxandra espintana		
	CP1	CP2	CP3	CP1	CP2	CP3	CP1	CP2	CP3	CP1	CP2	CP3
BIO1	-0.348	0.071	-0.137	0.257	-0.298	-0.060	0.208	0.366	-0.024	0.285	0.208	0.049
BIO2	0.108	-0.071	-0.131	-0.226	-0.125	0.107	-0.247	0.099	-0.102	0.046	0.387	-0.134
BIO3	0.172	0.081	-0.419	0.126	0.232	-0.385	0.221	-0.002	0.317	0.259	-0.048	0.146
BIO4	-0.116	-0.145	0.391	-0.184	-0.229	0.406	-0.290	0.044	-0.322	-0.242	0.117	-0.178
BIO5	-0.331	0.043	-0.097	0.124	-0.408	0.109	-0.070	0.383	-0.249	0.232	0.355	0.002
BIO6	-0.333	0.114	-0.138	0.310	-0.119	-0.209	0.320	0.185	0.164	0.298	0.046	0.144
BIO7	0.038	-0.126	0.079	-0.234	-0.212	0.319	-0.308	0.073	-0.285	-0.207	0.313	-0.220
BIO8	-0.346	0.049	-0.132	0.199	-0.359	0.068	0.020	0.387	-0.208	0.241	0.297	-0.012
BIO9	-0.341	0.096	-0.145	0.280	-0.221	-0.154	0.265	0.281	0.029	0.296	0.121	0.111
BIO10	-0.356	0.055	-0.072	0.200	-0.365	0.054	0.060	0.403	-0.191	0.254	0.277	0.024
BIO11	-0.339	0.092	-0.175	0.293	-0.187	-0.198	0.292	0.252	0.142	0.296	0.133	0.097
BIO12	0.028	0.444	0.157	0.289	0.163	0.210	0.295	-0.141	-0.278	0.245	-0.155	-0.329
BIO13	-0.038	0.366	0.326	0.242	0.064	0.215	0.245	-0.027	-0.276	0.212	-0.054	-0.391
BIO14	0.196	0.259	-0.267	0.209	0.214	0.263	0.199	-0.226	-0.224	0.187	-0.348	-0.099
BIO15	-0.199	-0.173	0.365	-0.181	-0.205	-0.071	-0.159	0.253	0.083	-0.175	0.303	-0.198
BIO16	-0.038	0.380	0.320	0.249	0.072	0.218	0.249	-0.042	-0.292	0.161	-0.054	-0.484
BIO17	0.187	0.302	-0.246	0.224	0.224	0.245	0.213	-0.233	-0.230	0.226	-0.321	-0.072
BIO18	0.079	0.272	0.165	0.162	0.101	0.412	0.046	-0.099	-0.395	0.042	-0.033	-0.528
BIO19	0.028	0.413	0.029	0.259	0.182	0.038	0.282	-0.108	-0.096	0.243	-0.141	0.084

...Continuation Table S5

Bioclimatic Variables	Pachira quinata			Sabal mauritiiformis			Syagros sancona			Xilopia ligustrifolia		
	CP1	CP2	CP3	CP1	CP2	CP3	CP1	CP2	CP3	CP1	CP2	CP3
BIO1	-0.334	0.162	0.045	0.290	-0.139	-0.251	0.378	-0.073	0.036	-0.353	0.046	-0.106
BIO2	0.133	-0.071	-0.051	-0.303	-0.101	-0.002	-0.099	-0.151	-0.058	0.153	0.285	0.093
BIO3	0.032	0.147	-0.451	0.186	0.367	-0.020	-0.053	0.208	0.423	0.219	-0.162	-0.225
BIO4	0.015	-0.200	0.441	-0.274	-0.306	0.014	0.029	-0.225	-0.425	-0.127	0.327	0.215
BIO5	-0.307	0.110	0.130	-0.036	-0.399	-0.214	0.354	-0.139	-0.057	-0.324	0.177	-0.020
BIO6	-0.324	0.191	-0.021	0.342	0.092	-0.126	0.360	0.036	0.188	-0.290	-0.167	-0.245
BIO7	0.123	-0.170	0.213	-0.303	-0.243	0.017	-0.027	-0.261	-0.370	-0.021	0.368	0.247
BIO8	-0.332	0.121	0.035	0.148	-0.305	-0.297	0.360	-0.132	-0.062	-0.301	0.177	-0.024
BIO9	-0.316	0.206	0.042	0.325	-0.085	-0.175	0.366	0.008	0.164	-0.318	-0.152	-0.187
BIO10	-0.332	0.126	0.138	0.186	-0.319	-0.270	0.369	-0.112	-0.039	-0.357	0.100	-0.062
BIO11	-0.327	0.190	-0.018	0.332	0.048	-0.182	0.368	-0.009	0.159	-0.319	-0.086	-0.204
BIO12	0.205	0.368	0.193	0.231	-0.197	0.304	0.107	0.366	-0.201	-0.195	-0.230	0.338
BIO13	0.180	0.264	0.372	0.187	-0.260	0.234	0.124	0.273	-0.297	-0.213	-0.033	0.343
BIO14	0.175	0.273	-0.183	0.100	-0.084	0.394	0.024	0.366	-0.097	0.020	-0.324	0.268
BIO15	-0.100	-0.307	0.309	-0.067	-0.146	-0.196	0.010	-0.274	-0.084	-0.078	0.375	-0.078
BIO16	0.184	0.275	0.370	0.183	-0.270	0.235	0.133	0.249	-0.327	-0.234	-0.034	0.354
BIO17	0.177	0.305	-0.175	0.137	-0.059	0.375	0.022	0.378	-0.072	-0.004	-0.355	0.242
BIO18	0.182	0.211	-0.012	0.033	-0.311	0.249	0.054	0.147	-0.378	0.025	0.027	0.433
BIO19	0.118	0.364	0.199	0.275	0.053	0.226	0.061	0.338	0.051	-0.180	-0.298	0.001

BIO1 = Annual Mean Temperature, BIO2 = Mean Diurnal Range (Mean of monthly (max temp - min temp)), BIO3 = Isothermality (BIO2/BIO7) (×100), BIO4 = Temperature Seasonality (standard deviation ×100), BIO5 = Max Temperature of Warmest Month, BIO6 = Min Temperature of Coldest Month, BIO7 = Temperature Annual Range (BIO5-, BIO6), BIO8 = Mean Temperature of Wettest Quarter, BIO9 = Mean Temperature of Driest Quarter, BIO10 = Mean Temperature of Warmest Quarter, BIO11 = Mean Temperature of Coldest Quarter, BIO12 = Annual Precipitation, BIO13 = Precipitation of Wettest Month, BIO14 = Precipitation of Driest Month, BIO15 = Precipitation Seasonality (Coefficient of Variation), BIO16 = Precipitation of Wettest Quarter, BIO17 = Precipitation of Driest Quarter, BIO18 = Precipitation of Warmest Quarter, BIO19 = Precipitation of Coldest Quarter.

Table S6. Selected variables for the prioritized species using the Variable Inflation Factor (VIF).

Bioclimatic Variables	Anacardium excelsum	Cedrela odorata	Crateva tavia	Oxandra espintana	Pachira quinata	Sabal mauritiiformis	Syagros sancona	Xilopia ligustrifolia
BIO1					1.290405			
BIO2	1.279	2.030	1.613	1.801		2.404	1.257	3.417
BIO3		2.554	1.623			2.628	1.278	2.118
BIO4	1.769			2.098	1.099			
BIO5								
BIO6								
BIO7								
BIO8	1.217	8.539	2.963	1.791	1.049	1.169		1.544
BIO9		9.758	4.000				1.156	

Bioclimatic Variables	Anacardium excelsum	Cedrela odorata	Crateva tavia	Oxandra espintana	Pachira quinata	Sabal mauri-tiiformis	Syagros sancona	Xilopia ligustrifolia
BIO10								
BIO11								
BIO12								
BIO13	8.047	3.894	3.471		3.947	5.771	8.094	1.555
BIO14	3.361	4.164	3.803	2.935				3.762
BIO15	6.192	3.865	3.997		2.279	2.462	2.426	
BIO16				3.858				
BIO17								
BIO18	2.083	3.123	2.756	5.210	1.879	2.598	5.002	4.363
BIO19	6.780	4.283	3.098	5.796	3.730	4.205	7.078	

BIO1 = Annual Mean Temperature, BIO2 = Mean Diurnal Range (Mean of monthly (max temp - min temp)), BIO3 = Isothermality (BIO2/BIO7) ($\times 100$), BIO4 = Temperature Seasonality (standard deviation $\times 100$), BIO5 = Max Temperature of Warmest Month, BIO6 = Min Temperature of Coldest Month, BIO7 = Temperature Annual Range (BIO5-, BIO6), BIO8 = Mean Temperature of Wettest Quarter, BIO9 = Mean Temperature of Driest Quarter, BIO10 = Mean Temperature of Warmest Quarter, BIO11 = Mean Temperature of Coldest Quarter, BIO12 = Annual Precipitation, BIO13 = Precipitation of Wettest Month, BIO14 = Precipitation of Driest Month, BIO15 = Precipitation Seasonality (Coefficient of Variation), BIO16 = Precipitation of Wettest Quarter, BIO17 = Precipitation of Driest Quarter, BIO18 = Precipitation of Warmest Quarter, BIO19 = Precipitation of Coldest Quarter.

Table S7. Summary of evaluation performance scores based on the species prioritized for detection of potential areas for restoration (PAR). The statistics shown are calculated over 10 replicates per model (PCA/VIF - REG_x) per species. The numbers highlighted in red show the statistics of the preliminary models pre-selected for PAR identification.

Species	Statistics	REG1		REG2		REG4		REG6		REG8		REG10	
		PCA	VIF	PCA	VIF	PCA	VIF	PCA	VIF	PCA	VIF	PCA	VIF
<i>Anacardium excelsum</i>	AVG	0.872	0.867	0.874	0.854	0.857	0.842	0.841	0.835	0.829	0.812	0.826	0.814
	STDV	0.015	0.019	0.015	0.016	0.016	0.021	0.015	0.022	0.018	0.015	0.018	0.011
	Variance	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<i>Cedrela odorata</i>	AVG	0.750	0.723	0.735	0.691	0.719	0.679	0.716	0.663	0.700	0.667	0.702	0.659
	STDV	0.012	0.015	0.017	0.016	0.008	0.013	0.015	0.022	0.016	0.013	0.011	0.016
	Variance	0.046	0.042	0.043	0.038	0.042	0.037	0.041	0.035	0.039	0.036	0.040	0.035
<i>Crateva tapia</i>	AVG	0.756	0.761	0.747	0.773	0.738	0.776	0.756	0.774	0.759	0.773	0.743	0.777
	STDV	0.010	0.013	0.015	0.015	0.021	0.007	0.014	0.019	0.017	0.021	0.018	0.018
	Variance	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<i>Oxandra espintana</i>	AVG	0.848	0.826	0.823	0.860	0.839	0.807	0.830	0.821	0.811	0.812	0.814	0.803
	STDV	0.036	0.037	0.044	0.029	0.025	0.045	0.040	0.029	0.031	0.049	0.024	0.046
	Variance	0.001	0.001	0.002	0.001	0.001	0.002	0.002	0.001	0.001	0.002	0.001	0.002
<i>Pachira quinata</i>	AVG	0.864	0.860	0.870	0.850	0.849	0.847	0.841	0.853	0.857	0.855	0.844	0.849
	STDV	0.023	0.022	0.022	0.019	0.035	0.036	0.028	0.039	0.027	0.030	0.015	0.032
	Variance	0.001	0.000	0.000	0.000	0.001	0.001	0.001	0.002	0.001	0.001	0.000	0.001

Species	Statistics	REG1		REG2		REG4		REG6		REG8		REG10	
		PCA	VIF	PCA	VIF	PCA	VIF	PCA	VIF	PCA	VIF	PCA	VIF
<i>Sabal mauritiformes</i>	AVG	0.710	0.802	0.718	0.819	0.714	0.812	0.700	0.793	0.681	0.776	0.691	0.755
	STDV	0.058	0.049	0.038	0.039	0.034	0.033	0.053	0.052	0.059	0.037	0.037	0.027
	Variance	0.003	0.002	0.001	0.001	0.001	0.001	0.003	0.003	0.003	0.001	0.001	0.001
<i>Syagrus sancona</i>	AVG	0.660	0.586	0.667	0.578	0.602	0.594	0.593	0.599	0.508	0.526	0.479	0.543
	STDV	0.057	0.059	0.049	0.067	0.048	0.049	0.053	0.021	0.089	0.059	0.081	0.035
	Variance	0.003	0.003	0.002	0.004	0.002	0.002	0.003	0.000	0.008	0.004	0.006	0.001
<i>Xilopia ligustrifolia</i>	AVG	0.690	0.596	0.662	0.600	0.662	0.619	0.659	0.570	0.687	0.592	0.675	0.572
	STDV	0.046	0.053	0.045	0.049	0.060	0.043	0.045	0.074	0.043	0.071	0.042	0.044
	Variance	0.002	0.003	0.002	0.002	0.004	0.002	0.002	0.006	0.002	0.005	0.002	0.002

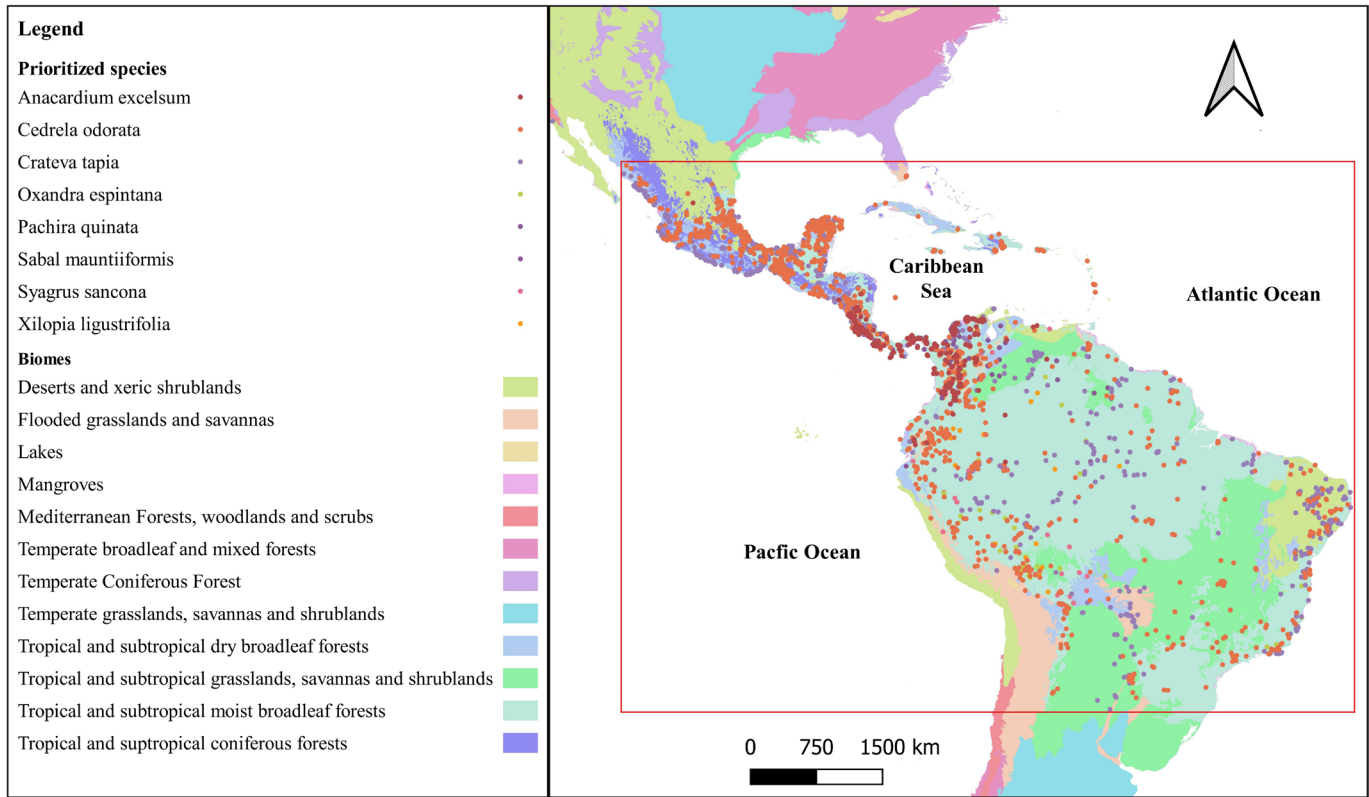


Figure S1. Training area defined for each of the selected species for habitat suitability modeling, where the training area is enclosed within the red-line frame.



Figure S2. Variable importance for the PCA-variables for the modeling process performed under different regularization multiplier values (REG).



Figure S3. Variable importance for the VIF-variables for the modeling process performed under different regularization multiplier values (REG).

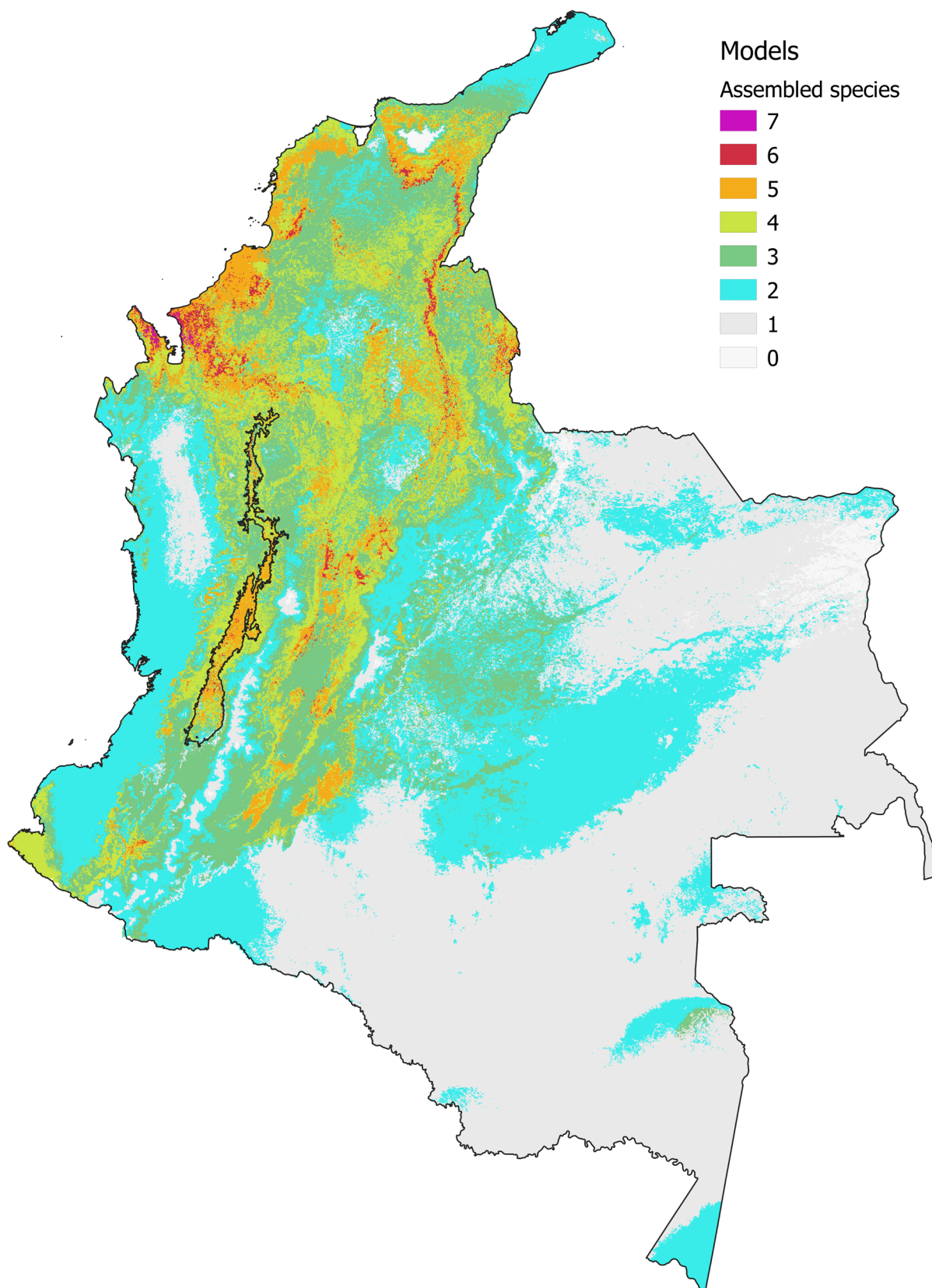


Figure S4. Projected models over the Colombian territory to visually inspect if the projected suitable habitats for the species selected for the modeling process were accommodated within the study area

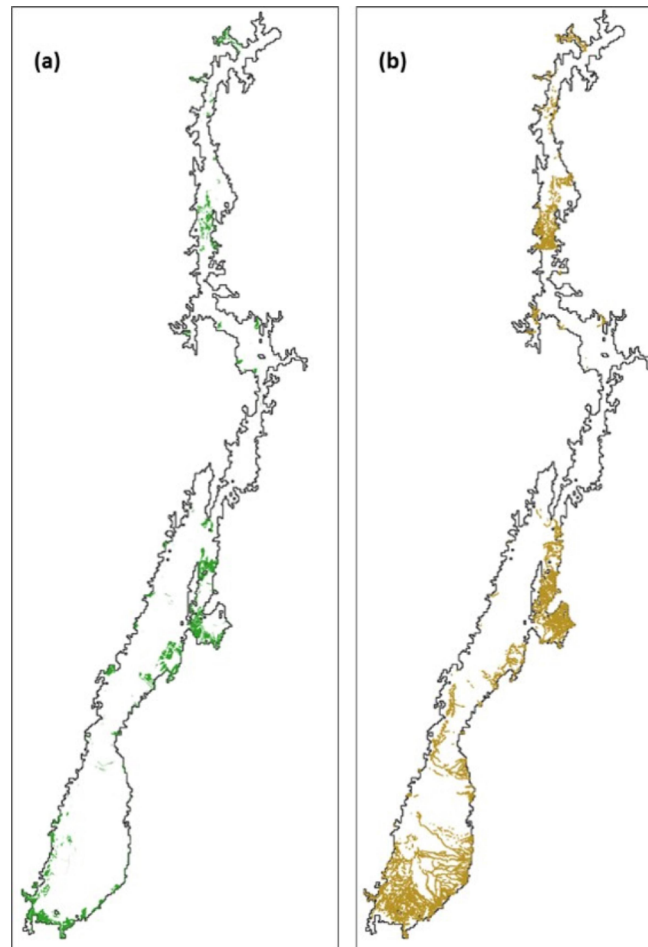


Figure S5. Areas susceptible to restoration included in the Portfolio of ecosystems and areas of Environmental interest (MADS, 2012), where (a): areas identified in the portfolio for recovery; (b) areas identified in the portfolio for restoration; (c) areas identified in the portfolio for rehabilitation.

REFERENCES

- Castellanos, C., Córdoba, D., López-Gallego, C., and Toro, L. (2017). Grupo de flora de interés en conservación. Zamias, magnolias, palmas y especies endémicas. In L. A. Moreno, G. I. Andrade, and L. F. Ruiz-Contreras (Eds.). *Biodiversidad 2016. Estado y tendencias de la biodiversidad continental de Colombia*. Instituto de Investigación de Recursos Biológicos Alexander von Humboldt. Bogotá, D. C., Colombia. <http://reporte.humboldt.org.co/biodiversidad/2016/cap2/202/index.html#seccion5>
- Corporación Autónoma Regional del Valle del Cauca. (2014). *Listado de especies silvestres de flora del Valle del Cauca con categoría nacional de amenaza. Version 2*. <https://ipt.biodiversidad.co/sib/resource?r=cvc-002>
- Fick, S. E. and Hijmans, R. J. (2017). WorldClim 2: new 1-km spatial resolution climate surfaces for global land areas. *International Journal of Climatology*, 37(12), 4302–4315. <https://doi.org/10.1002/joc.5086>
- Global Biodiversity Information Facility (13 July 2018) *Get data*. <https://www.gbif.org/occurrence/search>
- Instituto de Hidrología, Meteorología y Estudios Ambientales, Instituto Amazónico de Investigaciones Científicas, Parques Nacionales Naturales de Colombia. (2018). *Mapa de Coberturas de la Tierra Metodología Corine Land Cover Escala 1:100.000 Período 2018*. <http://www.siac.gov.co/catalogo-de-mapas>
- Instituto de Hidrología, Meteorología y Estudios Ambientales. (2015). *Índice de Aridez, Estudio Nacional del Agua 2014, República de Colombia*. <http://www.siac.gov.co/catalogo-de-mapas>
- Instituto de Hidrología, Meteorología y Estudios Ambientales. (2015). *Zonificación de la degradación de suelos por erosión. Área continental de Colombia. Escala 1:100.000. Línea base 2010 – 2011*. <http://www.siac.gov.co/catalogo-de-mapas>
- Instituto de Hidrología, Meteorología y Estudios Ambientales. (2017). *Índice de riesgo al cambio climático para Colombia, Tercer Comunicado Nacional de Cambio Climático escala 1:100.000*. <http://www.siac.gov.co/catalogo-de-mapas>

Instituto de Hidrología, Meteorología y Estudios Ambientales. (2017). *Zonificación de la degradación de suelos por salinización para el área continental e insular de Colombia a escala 1:100.000 y 1:10.000 respectivamente. Año 2016 - 2017*. <http://www.siac.gov.co/catalogo-de-mapas>

Instituto de Investigación de Recursos Biológicos Alexander von Humboldt. (2008). *Portafolio de áreas prioritarias para conservación de la biodiversidad, escala 1:250.000. (Región Andes, Caribe y Pacífico)*. Proyecto Planeación ambiental del sector hidrocarburos para la conservación de la biodiversidad en áreas de interés de la Agencia Nacional de Hidrocarburos en Colombia. Convenio IAvH, ANH, TNC y IDEAM. Bogotá, D. C., Colombia.

Instituto de Investigación de Recursos Biológicos Alexander von Humboldt. (2013). *Plantas Vasculares que se han reportado en los Bosques Secos de Colombia, Version 9.2* <http://doi.org/10.15472/j2zpi7>

Ministerio de Ambiente y Desarrollo Sostenible. (2015). *Plan Nacional de Restauración: restauración ecológica, rehabilitación y recuperación de áreas disturbadas*. Bogotá, D.C.: Colombia. Ministerio de Ambiente y Desarrollo Sostenible, 2015. 92 p.

Pizano, C., González-M., R., González, M.F., Castro-Lima, F., López, R., Rodríguez, N., Idarraga-Piedrahita, Á., Vargas, W., Vergara-Varela, H., Castaño-Naranjo, A., Devia, W., Rojas, A., Cuadros, H., and ToroJuan, L. (2014). Las plantas de los bosques secos de Colombia. In: C. Pizano and H. García (Ed.), *El Bosque Seco Tropical En Colombia*. (pp. 48–93). <http://repository.humboldt.org.co/handle/20.500.11761/9333>

Sistema de información sobre Biodiversidad de Colombia. SiB – Colombia. (s.f.). Herramienta de publicación. <https://biodiversidad.co/recursos/ipt/>

Vargas, W. (2013). Los bosques secos del Valle del Cauca, Colombia: una aproximación a su flora actual. 936 records. Version 2.1 <http://doi.org/10.15472/9iusrz>