

Supplementary Material

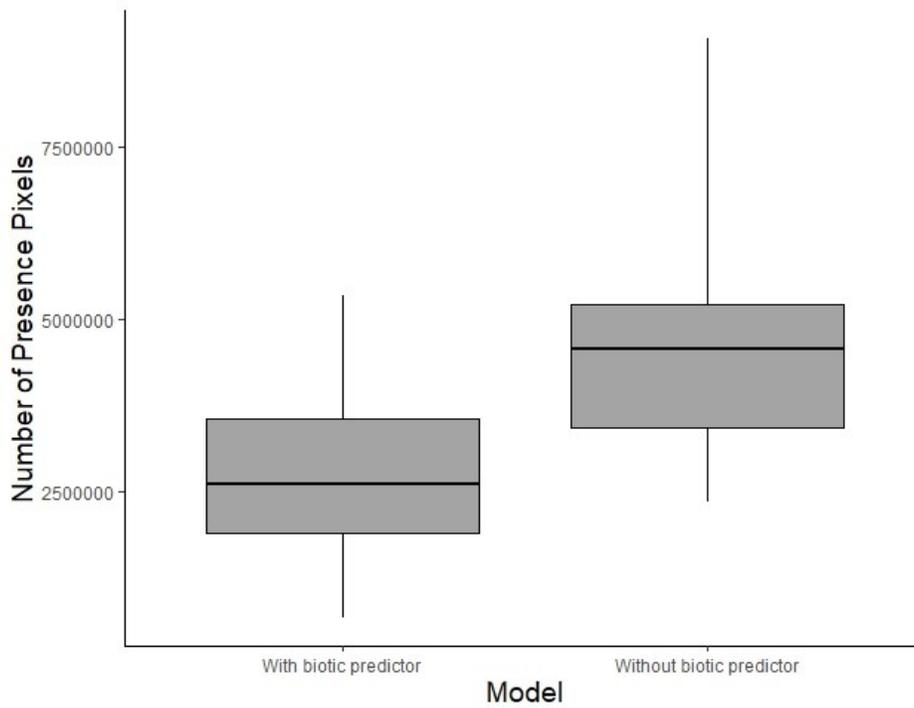


Figure 1: Variation in presence pixels among the models of the cross validation (n=10), where: x axis represents the model type and y axis represents the number of presence pixels in the map.

With resource							
	bio 2	bio3	bio8	bio15	bio18	syagrus	total
run1	0	0	0	0	1.573	98.427	100
run2	0.0003	0.6199	0.2626	0.0009	0	99.1163	100
run3	1.3325	0	4.394	1.3289	0	92.9446	100
run4	0	0.0329	0.4248	2.7501	5.208	91.5842	100
run5	1.0494	0.5707	0.4051	0.1295	0	97.8453	100
run6	21.8369	0	1.0228	0.015	0	77.1253	100
run7	0	0	0	0.0019	1.9594	98.0387	100
run8	0.53	0	0.189	0	0	99.281	100
run9	3.4403	2.1243	0	3.8265	7.2019	83.407	100
run10	0	4.2739	0.7781	2.0495	5.5529	87.3456	100
Without resource							
	bio 2	bio3	bio8	bio15	bio18	bio19	total
run1	0	10.9057	3.0996	0	29.9083	56.0864	100
run2	1.1426	24.1539	0.9803	0.0008	43.1764	30.546	100
run3	0	69.361	0	0	26.6219	4.0171	100
run4	0	15.1011	1.5567	0.3703	44.1418	38.83	99.9999
run5	0.5619	17.3412	0.0007	0	72.3296	9.7665	99.9999
run6	1.9253	48.491	5.3968	0	32.0085	12.1784	100
run7	0.0367	69.7649	0	0	28.7206	1.4778	100

run8	0	43.894	0.0128	0	52.107	3.9862	100
run9	1.4357	0.2114	3.7519	0.1758	60.8442	33.5811	100.0001
run10	0	30.4157	0.3495	0	65.0485	4.1862	99.9999

Table 1: values of variables importance for each simulation inside the ensemble.

Model	Kappa	spec_sens	AUC	Prevalence	maxTPR+TNR	cor	sensitivity	Number of presence pixels
With biotic predictor								
1	0.577	0.577	0.966	0.489	0.577	0.843	0.478	1313223
2	0.559	0.559	1	0.536	0.559	0.952	0.636	2175213
3	0.381	0.381	0.981	0.516	0.381	0.869	0.477	4942703
4	0.551	0.551	1	0.497	0.551	0.909	0.666	1874941
5	0.485	0.485	0.985	0.498	0.485	0.869	0.564	3704222
6	0.539	0.539	0.975	0.519	0.539	0.863	0.601	5355963
7	0.456	0.456	0.991	0.456	0.456	0.907	0.596	3152721
8	0.618	0.618	0.966	0.562	0.618	0.847	0.631	1959743
9	0.579	0.579	0.991	0.497	0.579	0.881	0.583	685265
10	0.52	0.52	0.975	0.52	0.52	0.8722	0.601	3033262
Mean	0.5265	0.5265	0.983	0.509	0.5265	0.88122	0.5833	2819725.6
Without abiotic predictor								
1	0.57	0.57	0.981	0.481	0.57	0.803	0.611	5083092
2	0.577	0.577	0.988	0.51	0.577	0.859	0.578	5261008
3	0.525	0.525	1	0.525	0.525	0.949	0.662	3377489
4	0.504	0.504	0.991	0.503	0.504	0.882	0.593	5976682
5	0.533	0.533	0.988	0.489	0.533	0.856	0.55	2720854
6	0.398	0.398	0.981	0.521	0.398	0.85	0.521	9067237
7	0.531	0.531	0.994	0.51	0.531	0.902	0.598	3617929

8	0.532	0.532	0.991	0.532	0.532	0.91	0.585	4973772
9	0.571	0.571	0.994	0.523	0.571	0.851	0.594	4175871
10	0.569	0.569	1	0.494	0.569	0.931	0.633	2353151
Mean	0.531	0.531	0.9908	0.5088	0.531	0.8793	0.5925	4660708.5

Table 2: Values of performance scores and presence pixels for each simulation inside ensemble.