

Supplementary Material

Table S1. Model performance metrics (AUC and prediction rate) for each modelling scenario using different combinations of regularization multipliers and feature classes.

Tabla S1. Métricas de desempeño de los modelos (AUC y tasa de predicción) para cada escenario de modelado, utilizando diferentes combinaciones de multiplicadores de regularización y clases de variables.

Native range: with HII

Regularization Multiplier	Feature classes	Weighted Prediction Rate (1 – omission rate)	AUC	PR + AUC
3	5	0.79572447	0.7812811	1.57700557
1.5	5	0.74940618	0.78480101	1.53420719
4	2	0.76009501	0.7701476	1.53024261
2	5	0.74346793	0.78404066	1.5275086
2.5	3	0.73871734	0.78246669	1.52118403
2.5	5	0.73515439	0.78279613	1.51795052
4	3	0.73515439	0.7816827	1.5168371
0.5	2	0.73634204	0.77926043	1.51560247
1.5	3	0.7280285	0.78333169	1.5113602
4	4	0.73159145	0.77912553	1.51071698
3	3	0.7280285	0.78215194	1.51018044
0.5	4	0.72327791	0.78500067	1.50827858
2	3	0.72446556	0.78300143	1.50746698
2	1	0.73634204	0.7702057	1.50654774
1	2	0.73159145	0.77447505	1.5060665
3	4	0.72446556	0.78085885	1.50532441
1.5	2	0.7327791	0.77203354	1.50481263
2	2	0.7327791	0.77167971	1.50445881
1.5	1	0.73396675	0.77023902	1.50420576
3	2	0.72921615	0.77050106	1.49971722
4	1	0.72921615	0.76961628	1.49883244
0.5	5	0.71140143	0.78707685	1.49847828
1	3	0.71140143	0.78361916	1.49502059
0.5	1	0.72209026	0.77008092	1.49217119
2.5	4	0.71021378	0.78182015	1.49203392
2	4	0.70902613	0.78298649	1.49201262
1	1	0.72090261	0.77024007	1.49114268
2.5	2	0.71971496	0.7711181	1.49083307
3	1	0.72090261	0.76991818	1.49082079
0.5	3	0.70546318	0.785039	1.49050218
1	5	0.70308789	0.78578918	1.48887706
2.5	1	0.71733967	0.77009005	1.48742972
1.5	4	0.70308789	0.78332926	1.48641715
1	4	0.68764846	0.78375525	1.47140371

Native range: without HII

Regularization Multiplier	Feature classes	Weighted Prediction Rate (1 – omission rate)	AUC	PR + AUC
2.5	5	0.710213777	0.733274943	1.44348872
4	3	0.709026128	0.731743428	1.440769556
1.5	5	0.699524941	0.73849032	1.438015261
3	5	0.705463183	0.731221103	1.436684286
1	4	0.695961995	0.740438889	1.436400885
0.5	2	0.712589074	0.721392176	1.43398125
2.5	4	0.700712589	0.733213091	1.43392568
1.5	3	0.697149644	0.736505737	1.433655381
1.5	4	0.691211401	0.737300878	1.428512279
2	3	0.691211401	0.735079302	1.426290703
2	4	0.691211401	0.734990937	1.426202339
3	3	0.690023753	0.733014573	1.423038326
0.5	3	0.678147268	0.742481256	1.420628525
2.5	3	0.685273159	0.733995979	1.419269139
3	4	0.682897862	0.731349918	1.414247781
1	3	0.673396675	0.740055601	1.413452276
2	5	0.674584323	0.735358932	1.409943255
0.5	5	0.665083135	0.743245983	1.408329118
4	4	0.67695962	0.729410559	1.406370179
1	5	0.659144893	0.742097647	1.40124254
0.5	4	0.642517815	0.742286012	1.384803827
3	1	0.688836105	0.685792233	1.374628338
1.5	1	0.67695962	0.686776429	1.363736049
2	1	0.673396675	0.686465676	1.359862351
1	1	0.671021378	0.687041917	1.358063294
0.5	1	0.669833729	0.6872539	1.357087629
4	1	0.669833729	0.685103817	1.354937546
2.5	1	0.662707838	0.686131081	1.34883892
2	2	0.652019002	0.695528822	1.347547825
1.5	2	0.629453682	0.700587008	1.330040689
4	2	0.636579572	0.689433246	1.326012819
1	2	0.610451306	0.707302509	1.317753815
3	2	0.595011876	0.691553112	1.286564988
2.5	2	0.571258907	0.693417676	1.264676583

Invasive range: with HII

Regularization Multiplier	Feature classes	Weighted Prediction Rate (1 – omission rate)	AUC	PR + AUC
0.5	1	0.795918367	0.899121507	1.695039875
1	1	0.775510204	0.864229657	1.639739861
4	4	0.755102041	0.87197212	1.627074161
0.5	2	0.734693878	0.882749939	1.617443816
1.5	1	0.755102041	0.860774694	1.615876734
1	5	0.734693878	0.876765502	1.61145938
1.5	4	0.734693878	0.874267708	1.608961586
4	2	0.734693878	0.86768125	1.602375128
3	2	0.734693878	0.863620711	1.598314588
2	2	0.734693878	0.861577267	1.596271145
4	1	0.734693878	0.858512132	1.59320601
1	4	0.714285714	0.878387316	1.59267303
2	1	0.734693878	0.857694363	1.59238824
3	1	0.734693878	0.857207475	1.591901353
2	4	0.714285714	0.874309988	1.588595702
3	5	0.714285714	0.872635478	1.586921192
2.5	1	0.714285714	0.858438971	1.572724685
1.5	5	0.693877551	0.876165625	1.570043176
2.5	4	0.693877551	0.874171507	1.568049058
1	2	0.693877551	0.873874694	1.567752245
3	4	0.693877551	0.873337561	1.567215112
0.5	4	0.693877551	0.872207966	1.566085517
4	3	0.693877551	0.870360355	1.564237906
1.5	3	0.693877551	0.870270711	1.564148262
0.5	5	0.693877551	0.869417647	1.563295198
3	3	0.693877551	0.868457292	1.562334843
2	3	0.693877551	0.868417463	1.562295014
2.5	3	0.693877551	0.868077206	1.561954757
2.5	2	0.693877551	0.86210723	1.555984781
1.5	2	0.693877551	0.862105453	1.555983004
2	5	0.673469388	0.875821875	1.549291263
2.5	5	0.673469388	0.874468689	1.547938076
0.5	3	0.673469388	0.868434069	1.541903456
1	3	0.653061224	0.874365196	1.527426421

Invasive range: without HII

Regularization Multiplier	Feature classes	Weighted Prediction Rate (1 – omission rate)	AUC	PR + AUC
1	4	0.775510204	0.832957537	1.608467741
1	3	0.755102041	0.810908333	1.566010374
0.5	1	0.755102041	0.810355699	1.565457739
1.5	3	0.755102041	0.807786152	1.562888193
2	3	0.755102041	0.80559087	1.560692911
1.5	4	0.734693878	0.818304167	1.552998044
2	4	0.734693878	0.807311152	1.54200503
0.5	4	0.714285714	0.824212194	1.538497908
1	5	0.714285714	0.82419902	1.538484734
0.5	3	0.693877551	0.821318873	1.515196424
1.5	5	0.693877551	0.810271752	1.504149303
3	5	0.693877551	0.795842341	1.489719892
0.5	5	0.653061224	0.818082475	1.4711437
0.5	2	0.632653061	0.824984865	1.457637926
1	1	0.632653061	0.805194424	1.437847485
1.5	1	0.632653061	0.801467892	1.434120953
4	3	0.653061224	0.772278125	1.425339349
2	5	0.612244898	0.805036581	1.417281479
3	4	0.612244898	0.796188787	1.408433685
2	1	0.612244898	0.792946017	1.405190915
2.5	1	0.612244898	0.783426961	1.395671859
4	4	0.591836735	0.798804657	1.390641392
2.5	4	0.571428571	0.80151011	1.372938682
4	2	0.571428571	0.798718811	1.370147383
2.5	5	0.571428571	0.798010784	1.369439356
3	1	0.591836735	0.774917953	1.366754688
4	1	0.591836735	0.771470895	1.363307629
2.5	3	0.551020408	0.794400551	1.34542096
1.5	2	0.551020408	0.793706495	1.344726903
3	2	0.551020408	0.790518076	1.341538484
2	2	0.551020408	0.789962439	1.340982847
2.5	2	0.551020408	0.789883762	1.34090417
1	2	0.530612245	0.804543382	1.335155627
3	3	0.551020408	0.783747855	1.334768264